BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Continue Implementation and Administration, and Consider Further Development, of California Renewables Portfolio Standard Program. Rulemaking 18-07-003 (Filed July 12, 2018)

SAN DIEGO GAS & ELECTRIC COMPANY (U 902 E) FINAL 2021 RENEWABLES PORTFOLIO STANDARD PROCUREMENT PLAN

PUBLIC VERSION

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February 17, 2022

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In accordance with the Rules of Practice and Procedure of the California Public Utilities

Commission (the "Commission"), the Assigned Commissioner and Assigned Administrative

Law Judge's Decision 22-01-004 ("the Decision"), issued in the above-captioned docket on

January 18, 2022, San Diego Gas & Electric Company ("SDG&E"), hereby submits its Final

2021 Renewables Portfolio Standard ("RPS") Procurement Plan and related appendices

(together, the "Plan").

In the Decision, the Commission established a schedule for submission of the Final 2021

Plans. In accordance with the direction set forth in the Decision, SDG&E's Plan is attached

hereto as Attachment A. The Plan includes the following Appendices:

- Appendix 1a 2021 Renewable Net Short and Project Development Status Update CONFIDENTIAL
- Appendix 1b 2021 Alternative Renewable Net Short 40% Load Departure + Mid Term IRP Procurement Scenario CONFIDENTIAL
- Appendix 1c 2021 Alternative Renewable Net Short 50% Load Departure + Mid Term IRP Procurement Scenario CONFIDENTIAL
- Appendix 1d 2021 Alternative Renewable Net Short 60% Load Departure + Mid Term IRP Procurement Scenario CONFIDENTIAL

- Appendix 2 2021 Quantitative Information
- Appendix 3 TOD Factor Workpapers CONFIDENTIAL
- Appendix 4 2021 Safety Considerations
- Appendix 5 2021 RPS Long-Term Model PPA
- Appendix 6 2021 RPS Short-Term Model PPA
- Appendix 7 2021 RPS REC Agreement
- Appendix 8 2021 Least-Cost Best-Fit("LCBF")
- Appendix 9 2021 RPS Sales RFP
- Appendix 10 2021 RPS Sales Model PPA (Bundled Product)
- Appendix 11 2021 RPS Sales Model PPA (Unbundled Product)
- Appendix 12 2021 RPS Sales Offer Form
- Appendix 13 2021 Framework for Assessing Potential RPS Sales CONFIDENTIAL
- Appendix 14 2021 TMNBC/BioRAM RPS REC Sales Pro Forma
- Appendix A Redline Version of Final 2021 RPS Plan as compared to Draft 2021 RPS Plan Update

Respectfully submitted this 17th day of February 2022.

<u>/s/ Paul A. Szymanski</u> Paul A. Szymanski 8330 Century Park Court San Diego, CA 92123 Phone: (858) 654-1732 Fax: (619) 699-5027 E-mail: PSzymanski@sdge.com

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OFFICER VERIFICATION

I am an officer of the reporting organization herein and am authorized to make this verification on its behalf. The statements in the foregoing document are true of my own knowledge, except as to matters which are therein stated on information or belief, and as to those matters, I believe them to be true. The spreadsheet templates used within this filing have not been altered from the version issued or approved by Energy Division.

Executed on the 17th of February 2022 at San Diego, CA.

<u>/s/ Estela de Llanos</u> Estela de Llanos Vice President – Energy Procurement & Sustainability edellanos@sdge.com

| San Diego Gas & Electric | Yes/No |
|---|--------|
| 1. Major Changes to RPS Plan | Yes |
| 2. Executive Summary | Yes |
| 3. Summary of Legislation Compliance | Yes |
| 4. Assessment of RPS Portfolio Supplies and Demand | Yes |
| 4.A. Portfolio Supply and Demand | Yes |
| 4.A.1. Portfolio Optimization | Yes |
| 4.B. Responsive to Policies, Regulations, and Statutes | Yes |
| 4.B.1 Long-term Procurement | Yes |
| 4.C. Portfolio Diversity and Reliability | Yes |
| 4.D. Lessons Learned | Yes |
| 5.Project Development Status Update | Yes |
| 6. Potential Compliance Delays | Yes |
| 7. Risk Assessment | Yes |
| 8. Renewable Net Short Calculation | Yes |
| 9. Minimum Margin of Procurement (MMoP) | Yes |
| 9.A. MMoP Methodology and Inputs | Yes |
| 9.B. MMoP Scenarios | Yes |
| 10. Bid Solicitation Protocol | Yes |
| 10.A. Solicitation Protocols for Renewables Sales | Yes |
| 10.B. Bid Selection Protocols | Yes |
| 10.C. LCBF Criteria | Yes |
| 11. Safety Considerations | Yes |
| 12. Consideration of Price Adjustments Mechanisms | Yes |
| 13. Curtailment Frequency, Forecasting, Costs | Yes |
| 14. Cost Quantification | Yes |
| 15. Coordination with the IRP Proceeding | Yes |
| Appendix A: Redlined Version of the Final 2021 RPS Plan | Yes |

2021 RPS Procurement Plan Checklist- Task Completed



SDG&E's 2021 Final Renewables Portfolio Standard Procurement Plan

February 17, 2022

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Appendix A – Redline Version of Final 2021 RPS Plan as compared to Draft 2021 RPS Plan Update

I. SUMMARY OF MAJOR CHANGES TO SDG&E'S FINAL 2021 RPS PLAN

The table in this section describes major changes between San Diego Gas & Electric Company's ("SDG&E") Updated Draft 2021 Renewables Portfolio Standard ("RPS") Plan¹ and its Final 2021 RPS Plan ("Plan"). On January 18, 2022, the California Public Utilities Commissions ("CPUC" or "Commission") issued Decision ("D.") 22-01-004, approving, with modifications, SDG&E's Final 2021 RPS Plan. Changes to this Plan are made in accordance with D.22-01-004 and are described below.

SDG&E's Final 2021 RPS Plan, includes SDG&E's three alternative Renewable Net Short ("RNS") scenarios. These scenarios, included as Appendices 1b, 1c, and 1d, reflect the RPS portfolio allocation methodology approved in Advice Letter 3835-E and also include impacts from the Integrated Resource Plan ("IRP") mid-term reliability procurement order in D.21-06-035 ("MTR procurement order"). Specifically, SDG&E includes volumes from RPS eligible resources that may be procured through the MTR procurement order and that may count towards SDG&E's RPS percentage.²

| Plan Reference | Plan Section | Summary/Justification |
|--|--|--|
| Attachment A Final 2021 RPS Plan Attachment A Final 2021 RPS Plan | Executive Summary – Key Issues Summary of Recent Legislation and/or Regulatory Changes Affecting this Plan | Revised to discuss, at a high level, modifications SDG&E made to conform its Plan to D.22-01-004, and requested relief granted Additional discussion added to identify impacts to SDG&E's RPS procurement planning as a result of renewables that may be procured through the IRP midterm procurement orders, impacts of portfolio optimization, and the reopening of SDG&E's REMAT program |
| Attachment A Final 2021 RPS Plan | Assessment of RPS Supply and Demand | Added discussion of SDG&E's renewable energy credit ("REC") bank providing risk mitigation against noncompliance Discussion of impacts to RPS from medium and heavy duty electric vehicles, and customers returning to bundled service Added detail on SDG&E's developing projects and their low risk of failure Discussion of volumetric and capacity cap Update to portfolio optimization activities |

¹ SDG&E's Updated Draft 2021 RPS Plan was filed on September 13, 2021.

² SDG&E also includes inconsequential updates due to the passage of time and corrections of typographical errors.

| | 1 | | |
|--|--|---|--|
| | | - | Update to Green Tariff Shared Renewables Program |
| Attachment A Final 2021 RPS Plan Attachment A Final 2021 RPS Plan | Project Development Status Update Risk Assessment | - | ("GTSR") status Update to reflect SDG&E made public the previously redacted location column in its Project Development Status Update, contained in Appendix 1a Revised formatting to align with Assigned Commissioner's Ruling Added discussion of SDG&E's qualitative analysis on project failure rates for projects under construction, and SDG&E's intent to consider adding quantitative support by using a milestone rubric to help establish a project's failure rate Additional discussion of risk factors that could impact SDG&E's RPS planning and how SDG&E considers those factors such as variable generation and resource |
| Attachment A Final 2021 RPS Plan | Coordination with the IRP proceeding | - | availability Discussion of impacts from procurement resulting from IRP mid-term procurement orders |
| Attachment A Final 2021 RPS Plan | Renewable Net Short | - | Updated to specify that SDG&E is adding impacts from potential RPS-eligible IRP procurement |
| Appendix 1a | SDG&E's Conforming RNS and Project Development Status Update | - | Removed excess redactions |
| Appendices 1b, 1c, 1d | SDG&E's Alternative RNS Scenarios | - | Updated to include potential RPS-eligible resources procured through the IRP's mid-term procurement order |

II. EXECUTIVE SUMMARY – KEY ISSUES

SDG&E's Final 2021 RPS Plan describes, among other things, the processes used by SDG&E to determine any RPS procurement need or excess, as well as the methods SDG&E will use to manage its RPS portfolio to meet RPS program compliance targets in a cost-effective manner. For Compliance Period ("CP") 3 (2017-2020), SDG&E procured 42 percent of its power from renewable resources, which is well above the State's statutory and Commission's RPS program requirements.³

Key issues SDG&E currently faces include the impacts of departing load and impacts to SDG&E's RPS portfolio resulting from D.21-05-030 (the "Portfolio Optimization Decision") within the PCIA proceeding. The Voluntary Allocation and Market Offer ("VAMO") process, outlined in the Portfolio Optimization Decision, will have a significant impact on SDG&E's RPS position, and SDG&E is anticipating the possibility that it may be RPS in without the use of its REC bank.

SDG&E's analysis includes three alternative RNS scenarios which show SDG&E's RPS position through 2030. These scenarios illustrate potential load departure of 40, 50, and 60 percent. SDG&E's PCIA eligible RPS portfolio is commensurately reduced by the percentage of load departure, thereby showing the potential impact of VAMO. For example, if SDG&E's retail load is reduced by 50 percent, to illustrate the impact of VAMO, SDG&E's PCIA eligible RPS portfolio would also be reduced by 50 percent.⁴ SDG&E also includes RPS eligible procurement directives from the IRP in its RPS planning, which may impact SDG&E's RPS. Pursuant to D.21-06-035, SDG&E must procure at least 31 MWs of clean firm, non-energy storage resources.⁵ SDG&E provides these alternative scenarios in addition to its conforming RNS scenario.

Given the many uncertainties, D.22-01-004 authorizes SDG&E's request for the option to hold a procurement solicitation in the 2021 RPS Plan cycle, and in doing so, requires SDG&E to establish a volumetric cap and a capacity cap which considers legislative and commission decisions. SDG&E has established a volumetric cap of and a capacity cap for the 2021 RPS Plan cycle of **Section**. Supporting information on SDG&E's volumetric and capacity cap can be found in section IV under Determination of the Compliance Needs for Each Compliance Period.

³ The RPS requirements for CP 3 are 27 percent for 2017, 29 percent for 2018, 31 percent for 2019, and 33 percent for 2020.

⁴ Analysis assumes the maximum number of allocations or sales contemplated in the VAMO process for any respective scenario. For example, if 40 percent of SDG&E's load departs, the most its portfolio can be reduced through VAMO is by 40 percent.

⁵ D.21-06-035 at p. 57-58. SDG&E's procurement volumes ordered in D.21-06-035 are subject to potential reallocation upon mutual agreement with another LSE and filing of a Tier 2 Advice Letter with the Commission. D-21-06-035 at p.86.

SDG&E's Final 2021 RPS Plan sets forth SDG&E's RPS Request for Information ("RFI"). The RFI process will take several months, and it could also impact SDG&E's RPS compliance forecast by reducing the amount of RPS in SDG&E's portfolio. More information on SDG&E's RFI process can be found in Section IV.

Regarding RPS sales, SDG&E held a REC sale solicitation in the 2020 RPS Plan cycle, and no bids were selected from the pool of bidders because there were no qualifying bids within the parameters of the REC sales framework approved by the Commission. SDG&E has modified its REC sales framework to allow for more flexibility to increase the likelihood of successfully contracting with one or more counterparties. SDG&E is authorized to hold a REC sales solicitation in the 2021 RPS Plan cycle.

In accordance with D.22-01-004, SDG&E also submits final versions of its short- and long-term procurement PPAs, bundled and unbundled pro forma sales contracts, including a proforma contract specific to BioRAM REC sales, and its RPS sales framework.

III. SUMMARY OF RECENT LEGISLATIVE AND/OR REGULATORY CHANGES AFFECTING THIS PLAN

This Plan accounts for recent RPS-related legislation, specifically California SB 350 (2015), SB 100 (2018), and SB 901 (2018), as well as related Commission proceedings, such as the IRP and PCIA OIRs.

SB 350⁶

SB 350 led to Commission decision D.17-06-026, which implemented RPS procurement requirements. Notably, beginning January 1, 2021, at least 65 percent of a retail seller's RPS procurement must be from long-term contracts. SDG&E elected early compliance with this requirement and was subject to the new requirements beginning in CP 3 (2017-2020). In addition, SB 350 initiated the Commission's new IRP proceeding and associated processes, which is intended to be a wide-scale planning process that SDG&E anticipates will optimize RPS planning and procurement within a larger framework. The IRP seeks to implement policies that will achieve the State's greenhouse gas ("GHG") emissions reduction goals while maintaining reliability and affordability. The IRP process will inherently impact RPS procurement planning because resources planned for in the IRP may also count towards RPS compliance requirements. For example, the IRP has ordered 11,500 MWs of resource procurement and required that certain resources have attributes that only an RPS resource can provide, like geothermal. SDG&E has incorporated RPS resources expected to be procured through the IRP in its RNS alternative scenarios. This new process is a marked shift away from the historical siloed approach to procurement, in which resource procurement mandates are imposed

⁶ Signed by Governor Brown on October 7, 2015.

individually on a program-by-program basis, without regard to the consideration of other potential forms of supply and/or demand-side procurement. The holistic process built into the IRP processes will evaluate the costs and benefits of all available resources when developing portfolios that comply with renewable and clean energy standards.

SB 100⁷

SB 100 increased the State's RPS requirement to 44 percent by 2024, 52 percent by 2027, and 60 percent by 2030. SB 100 also calls for the State's RPS requirement to be 100 percent clean energy by 2045. D.19-06-023 implemented these new requirements for the RPS program. On March 15, 2021, the California Energy Commission ("CEC"), Commission, and California Air Resources Board ("CARB"), (together, the "Joint Agencies") issued a report on SB 100 which indicated it is directional only and intended to inform and complement ongoing analysis within the Joint Agencies.⁸ SDG&E understands that additional details and implementation of SB 100 are forthcoming.

SB 901⁹

SB 901 requires that retail sellers offer a 5-year extension to any contracts executed under the Bioenergy Renewable Auction Mechanism ("BioRAM") program. As further discussed below in Section IV, SDG&E offered and the BioRAM seller accepted a 5-year extension for SDG&E's single BioRAM contract, which was approved by the Commission.¹⁰ Accordingly, SDG&E has fulfilled its BioRAM obligation. RECs from BioRAM facilities have no impact on SDG&E's procurement planning as SDG&E is prohibited from using RECs from BioRAM facilities for compliance.¹¹

Commodity Procurement Legislation

SDG&E continues to support legislation that would allow an Investor-Owned Utility ("IOU") to voluntarily exit the commodity procurement business. As energy procurement shifts increasingly away from traditional IOU procurement and becomes increasingly decentralized, SDG&E seeks to serve its customers through a business model that focusses on the safe and reliable transmission and distribution of energy to its customers.

Integrated Resource Planning Proceeding

Clean energy goals are considered and addressed in the IRP proceeding. In the 2019-2020 cycle of the IRP, the Commission issued D.19-11-016 which ordered load-serving entities ("LSEs") to

⁷ Signed by Governor Brown on September 10, 2018.

⁸ SB 100 Joint Agencies Report issued March 15, 2021, available here: <u>https://efiling.energy.ca.gov/EFiling/GetFile.aspx?tn=237167&DocumentContentId=70349</u>.

⁹ Signed by Governor Brown on September 21, 2018.

¹⁰ Advice Letter 3356-E and 3356-E-A approved on July 24, 2019.

¹¹ D.18-12-003, OP 3.

procure 3,300 MWs of new capacity to alleviate a reliability need. The most recent IRP MTR procurement order will result in the procurement of additional RPS eligible resources. SDG&E includes volumes from expected RPS eligible IRP procurement in its alternative RNS scenarios. SDG&E remains focused on effective cost and risk management and utilizing the holistic approach in evaluating how resource needs are met. SDG&E will continue to include impacts of the IRP in its RPS procurement planning.

Power Charge Indifference Adjustment

Carrying out the mandates of D.21-05-030 will greatly impact SDG&E's portfolio. According to this Decision, SDG&E and other IOUs must allocate RPS resources to Community Choice Aggregators ("CCAs") and Direct Access ("DA") customers and attempt to further optimize IOU portfolios through an RFI process. The Joint IOUs submitted AL 3835-E which set forth the methodology to "slice" the IOUs' RPS portfolios, which was approved on October 25, 2021. Once CCAs and ESPs make their voluntary allocations, the RFI process is complete, and a market offer process has been established, SDG&E will then have more certainty with regard to is RPS trajectory.

As noted above, SDG&E has included in this Final 2021 RPS Plan alternative RNS scenarios to determine potential impacts to SDG&E's RPS portfolio.

ReMAT

The Commission approved the reopening of SDG&E's Renewable Market Adjusting Tariff ("ReMAT") program which required additional RPS procurement. According to D.21-12-032, SDG&E must procure an additional 20.9 MWs of ReMAT eligible procurement. Any procurement that occurs in the ReMAT program, once it is re-opened in late 2022, will count towards SDG&E's RPS compliance needs or can be banked. It is unknown whether the ReMAT program will be successful in SDG&E's service territory, thus SDG&E has not included RPS from ReMAT facilities in its alterative RNS scenarios but may consider doing so once the program is open.

IV. ASSESSMENT OF RPS PORTFOLIO SUPPLY AND DEMAND

A. Overview of Portfolio Supply & Demand Assessments

SDG&E makes RPS procurement decisions based on how its risk-adjusted RPS position forecast (referred to herein as its "RPS Position") compares to its RPS program compliance requirements, the result of which is its probability-weighted procurement need or RNS. To calculate its RPS Position, SDG&E conducts a qualitative and quantitative assessment and assigns a probability of success to the expected deliveries for each project that is not yet online in its portfolio; and then it adds the risk-adjusted expected deliveries across all projects in its entire RPS portfolio. These risks include approval (e.g., Commission approval and the timing of such), development (e.g., permitting, financing, or transmission interconnection), delivery (e.g., generation fluctuations given the variant-intermittent nature of some renewable resources or operational challenges), and other factors (e.g., under-development of transmission infrastructure common to a group of projects). SDG&E then subtracts the quantity of RECs committed in forward sales agreements, if any, from the total expected generation to determine its RNS.

In general, if SDG&E's RPS Position is less than its RPS requirements, SDG&E will plan to procure additional RPS resources on a schedule that will allow for the procurement and development of resources in time to provide adequate deliveries to meet anticipated shortfalls. SDG&E's assessment also includes current and expected load departure. If, on the other hand, its RPS Position is greater than its RPS requirements, SDG&E will consider opportunities to bank or sell bundled and/or unbundled RECs. In addition, to optimize the relative value of renewable energy across compliance periods, SDG&E further considers short-term contracts when, for example, it is short¹² in the most immediate CP but long in the subsequent CP. Overall, SDG&E will also consider procurement strategies that are in the best interest of customers across compliance periods to secure greater value from approved RPS expenditures. For example, SDG&E strives to have a well-diversified RPS portfolio so that its RPS compliance, particularly in the most immediate compliance period, is not unduly exposed to any given risk (e.g., a particular technology, region, counterparty, etc.). SDG&E's RPS portfolio management strategy involves identifying needs and risks and managing them in a cost-effective manner in the best interest of its customers.

The following sections explain SDG&E's methodology for determining its RNS, which includes considerations related to RPS supply and customer demand. First, the process used to compute

¹² The term "short" is used herein to refer to an RPS Position that is lower than the relevant RPS program requirements. The term "long" is used to refer to an RPS Position that is higher than relevant RPS program requirements.

the RPS Position is explained. Then, procurement needs by compliance periods are inferred by comparing RPS requirements to RPS Positions.

SUPPLY

Assessment of Probability of Success for Various Project Types as a Key Component of Calculating the Probability-Weighted RPS Position Forecast

SDG&E must assess the probability of success and/or expected generation of the following main types of projects: (a) delivering; (b) approved but not yet delivering; and (c) not yet approved. SDG&E frequently evaluates the probability of success for each project in its portfolio to calculate its RNS, which is the basis for its procurement need. To do this, SDG&E conducts frequent reviews with an interdisciplinary team and uses the most up-to-date qualitative and quantitative information to assign a probability of success and/or determine the expected generation of each individual project. SDG&E applies the following methodology to analyze each project type:

Assessment of Performance of Delivering Projects: Projects that have already achieved commercial operation and have begun delivering energy provide the most stable source of RPS deliveries when forecasting RPS procurement need. These projects have overcome development hurdles and are supported by steady revenues under executed PPAs. However, it is crucial to consider the potential fluctuations in deliveries that these projects can experience and the impact that such fluctuations could have on SDG&E's need to procure additional resources to meet its RPS goals.¹³ As discussed further in Section VII, deliveries from these projects can be impacted by resource availability, regulatory changes, economic environment, evolving technologies, and third-party systems. These types of fluctuations can be significant. To ensure RPS compliance, SDG&E must consider potential fluctuations in the amount delivered (while recognizing that swings in production could be more than expected). The monitoring of performance of delivering contracts and the assessment of probabilities focuses on: (i) understanding the historical generation profile of each project and how it has differed year-over-year and relative to forecasts; and (ii) the operational track record of any given project. SDG&E has found that a weighting of 100 percent is typically appropriate for delivering contracts. The forecast of future deliveries for delivering contracts is based on historical deliveries (the average of

¹³ For example, contracts with solar photovoltaic ("PV") developers incorporate a degradation factor that is used to forecast the project's performance over time as the panels age and become less efficient. SDG&E utilizes this factor in its Least-Cost Best-Fit ("LCBF") evaluation, and when calculating project deliveries for its RPS Position calculation on both a nominal (assumes deliveries from contracts will occur as expected) and probability-weighted basis. To the extent deliveries are different than the provided estimates, SDG&E will adjust its RPS Position calculation accordingly.

the most recent three years, if available; if not available, the project's expected generation is used), which SDG&E will revise as appropriate. Adjusting forecasts when necessary is a crucial component of SDG&E's need assessment methodology.

Assessment of the Development Progress of Approved Projects that Have Not Yet Begun Delivering: Another important aspect of SDG&E's need assessment methodology is evaluating the development status of projects approved by the Commission but not yet delivering energy. These projects are typically riskier than projects that have begun delivering due to the challenges that can arise during the development process that might prevent a project from completing construction and achieving commercial operation. Permitting, interconnection, regulatory factors, and other development issues are discussed further in Section VI. SDG&E must account for development risks when determining its procurement need, and the monitoring of development status is a critical aspect of SDG&E's need assessment methodology. Because SDG&E has a substantial REC bank, there is very little risk that any particular project failure will impact SDG&E's ability to meet its compliance obligations. SDG&E assigns a probability of success to each of its developing projects. This factor is then applied to the expected deliveries stated in the contracts.

Assessment of the Approval Queue for Projects that Have Been Submitted to the Commission But Are Not Yet Approved: SDG&E typically meets monthly with its Procurement Review Group ("PRG"), which includes Energy Division staff, to discuss, among other things, the likely approval timetable of projects that SDG&E has submitted to the Commission for approval. The discussion covers expected timing of Commission action and any potential constraints that might necessitate expedited Commission action or require additional information. SDG&E works collaboratively with the Commission to develop a work plan that results in timely approval. It is possible, however, that the shortage of Energy Division staff or other procedural challenges can result in approval delays that can impact a project's ability to achieve milestones. SDG&E must monitor this process closely to determine what impact, if any, delays may have on the timing of expected deliveries or sales.

Project Viability Supply Considerations

Renewable project developers continue to face a challenging environment. For example, studying and constructing generator interconnection upgrades continue to take years to complete and can significantly influence project costs. In addition, as more projects are proposed, especially in desert regions, permitting approval timelines may extend due to increased scrutiny of environmental issues and permitting agency coordination efforts. SDG&E closely monitors project viability factors, and any effects they may have on its portfolio.

Impact of Key Transmission Upgrades and/or Infrastructure: Transmission availability has long been recognized as a potential barrier to achieving RPS goals, and SDG&E continues to monitor the progress of transmission upgrades on which SDG&E's RPS projects depend in order to assess potential delays and possible impacts. A more detailed discussion of transmission is provided under Section VI.

Impact of Permitting Delays: Many projects have experienced local agency permitting delays. Delays occur when projects are challenged by individuals and community groups; delays may also occur due to meeting California Environmental Quality Act ("CEQA") requirements. These challenges can result in increased costs to the developer and significant project delays that can jeopardize project viability and potentially lead to project failure. A more detailed discussion of permitting is provided under Section VI.

Existing RPS Contracts Supply Considerations

The contracts within SDG&E's portfolio may be renewed at existing price terms, renegotiated via "blend and extend,"¹⁴ assigned or novated, or terminated (with or without buyout); additionally, SDG&E may solicit to re-sell bundled or unbundled REC attributes from its portfolio. D.21-05-030 will have a significant impact on SDG&E's RPS portfolio as it requires SDG&E to allocate a portion of its RPS portfolio to departed customers. The factors considered in each of these potential scenarios are described below.

Impact of VAMO: The Portfolio Optimization Decision requires the IOUs to allocate portions of its RPS portfolio to departed customers. In particular, LSEs serving departed customers are allowed to elect allocations in 10 percent increments, thereby reducing each IOU's RPS Position. A market offer process will follow allocation elections, if excess RPS exists. Pursuant to the timeline established in D.21-05-030, the elected volume of RPS resources by LSEs serving departed customers will be known in 2022. If LSEs for departing customers do not elect their full allocations, SDG&E will offer any excess to the market. Transactions associated with the VAMO will impact SDG&E's RPS Portfolio by reducing SDG&E's RPS Position. SDG&E has included alternative scenarios, attached hereto as Appendices 1b, 1c, and 1d, to illustrate the potential impacts to SDG&E's RPS portfolio when retail sales and its PCIA eligible RPS portfolio are reduced by 40 percent, 50 percent, and 60 percent, respectively, and also impacts from the IRP MTR procurement Order.

¹⁴ Renegotiation via "blend and extend" refers to an agreement made by parties to extend a contract at a price lower than the original contract pricing terms, commencing at the time the contract is renegotiated or at the end of the original delivery term of the contract.

Impact of Contract Renewal or Renegotiation: SDG&E began signing RPS contracts in 2003, most of which had terms of 20 years. As part of its RPS Position calculation, and in accordance with Commission direction, ¹⁵ SDG&E does not assume in its RNS calculation that these contracts will be renewed with existing pricing terms. Owners of these projects may be asked to bid such projects into future Request for Offers ("RFO"), if there is an RPS need, and these bids will be required to conform with the need identified in the then-current RFO.¹⁶ The benefits of this process are twofold: competition will be enhanced, and these facilities will have the opportunity to bid to extend their contracts past the original termination dates into later years, if and when SDG&E has a need. SDG&E continues to reassess its position to determine if contract renewal could add value to SDG&E's portfolio. Additionally, SDG&E may also re-negotiate outside of an RFO process to blend and extend a contract at a new competitive price than the original delivery term, which may result in reduced administrative costs for the RFO process as well as preserve the long-term classification of the original agreement, if a procurement need is less than ten years.

Impact of Contract Termination: As part of its contract administration process, SDG&E actively monitors contractual requirements including conditions precedent and project development terms that must be met (or waived) in order for the contract to be viable. When a condition precedent or development milestone has not been met, or when parties can mutually agree to a termination, SDG&E may consider terminating the contract, if it is in the best interest of customers. Contract termination could also include instances where parties could agree to terminate a contract with a buyout option. Contracts may also terminate in accordance with their terms (*i.e.*, events of default).

Impact of the Resale Market: SDG&E will closely monitor opportunities to optimize the value of its portfolio, including opportunities to sell excess procurement, if excess procurement exists, or to use such excess towards future compliance if SDG&E determines this to be the best option for its customers. If SDG&E believes that the current market is favorable and expects that it will be able to fulfill any future needs with more economic options, SDG&E will first consider offering to solicit the excess to determine market interested. More detail is provided below and in Appendix 9, attached hereto.

¹⁵ R.11-05-005; Administrative Law Judge's Ruling on Renewable Net Short (May 21, 2014).

¹⁶ Qualifying Facilities with expiring RPS contracts may be able to sign a Standard Contract for Qualifying Facilities with a Power Rating that is Less than or Equal to 20 MW, which was approved by the Commission on November 23, 2011 as part of the Qualifying Facilities and Combined Heat and Power Program Settlement (the "QF Settlement").

DEMAND

RPS compliance is based on an energy target (as opposed to a capacity target) and is calculated using a percentage of retail sales. Various factors (e.g., departing load) impact retail sales, and these factors are reflected in the forecast. SDG&E's most recent retail sales forecast is provided within the RNS table in Appendix 1.

Impact of CEC Forecast: In accordance with Commission guidance, SDG&E uses the latest CEC forecast consistent with the standardized planning assumptions authorized in D.12-01-033 as a component in SDG&E's RNS. To determine its retail sales, SDG&E has modified the most recently approved Integrated Energy Policy Report ("IEPR") forecast to reflect departing load changes not included in the IEPR forecast issued on January 25, 2021. SDG&E monitors its retail sales forecasts and actuals on a quarterly basis to identify potential fluctuations and their impact on its RPS requirements.

Impact of Transportation Electrification: The sales forecast that supports SDG&E's RPS filing is the CEC's 2020 IEPR demand forecast, also known as California Energy Demand Update ("CEDU") 2020, adopted by the CEC Commissioners at the CEC's January 25, 2021 business meeting. For RPS purposes, SDG&E used the CEC's 2020 IEPR Mid-Demand base-line forecast, with mid-case Additional Achievable Energy Efficiency ("AAEE") and Additional Achievable Photovoltaics ("AAPV") as the basis. SDG&E reformatted the forecast to partition it into sales to bundled customers and sales to DA and CCA customers. SDG&E also incorporated updated DA and CCA customer enrollment schedules that became available after CEC adopted the IEPR. SDG&E's forecast accounts for electric vehicle ("EV") charging within the Mid-Demand base-line segment of the scenario. SDG&E's RPS forecast includes approximately 300,000 light-duty EVs and approximately 8,000 medium and heavy duty EVs in SDG&E's service territory by 2030. The impact of adding more EVs is that retail sales will increase to account for more EV charging, thus more RPS energy will be needed to meet the compliance requirement. A description of the modeling approach and input assumptions made regarding forecasting EV charging can be found in three CEC publications that document CEDU 2020.¹⁷

Impact of Departing Load: Load departure will reduce SDG&E's volume of retail sales, thereby impacting its RPS Position in comparison to its RPS requirements. The Commission authorized SDG&E to have an option to hold a procurement solicitation to maintain a reasonable RPS forecast in light of these impacts. Currently, there are two CCAs in SDG&E service territory, San Diego Community

¹⁷ <u>https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2020-integrated-energy-policy-report-update.</u>

Power and the Clean Energy Alliance. These CCAs represent significant future load departure, and SDG&E is actively working with the CCAs and the Commission to optimize its RPS portfolio as a result of load departure and CPUC requirements.

D.21-05-030 will impact the size of SDG&E's RPS portfolio as RPS volumes will be voluntarily allocated to departed customers, offered to the market for sale, and/or contracts may be assigned, modified or terminated as a result of D.21-05-030's RFI.¹⁸ Delivery of allocated RPS volumes associated with the Portfolio Optimization Decision are expected to begin in 2023. The Commission "expect[s] that IOUs should generally be able to procure replacement RPS contracts with lower costs, while acknowledging that replacing resources could still increase costs for bundled ratepayers."¹⁹

DA expansion is another circumstance that could result in departed load. In 2019, D.19-05-043 increased the DA cap and, as a result, increased the amount of departing load from bundled IOU service. SDG&E's share of the authorized cap was around 380 GWh.²⁰ At the Commission's June 24, 2021 voting meeting, Commissioners unanimously adopted a decision that closes the DA rulemaking proceeding and recommends that the California Legislature not expand DA transactions, pursuant to Senate Bill 237.

It is also possible that customers who departed SDG&E's bundled service may return at some point. If this occurs, SDG&E may need additional RPS to accommodate those returning customers. SDG&E will monitor this situation as well as it can mitigate any disruptions or unexpected surprises.

Determination of the Compliance Needs for Each Compliance Period

SDG&E achieved 39 percent renewable energy in 2019 and in 2020 and expects that it has already met its CP 3 RPS procurement requirements. As SDG&E looks ahead to CP 4 and beyond, it will continue to manage its portfolio to ensure RPS compliance. At this time, all of SDG&E's online renewable contracts are long-term. SDG&E has two developing projects which are near completion and the risk of project failure is low. SDG&E's RNS is calculated by multiplying the expected contractual deliveries (including degradation) by each contract's probability weighting and then adding the resulting expected deliveries across the portfolio.

¹⁸ D.21-05-030 at 65-66 (Ordering Paragraph 6).

¹⁹ D.21-05-030 at 19.

²⁰ D.19-05-043 at 6.

The Portfolio Optimization Decision will have a significant impact on SDG&E's RPS portfolio. Based on SDG&E's alternative scenarios, SDG&E anticipates that its portfolio may be short RPS in the near future.

SDG&E has established a volumetric cap of the amount of new eligible renewable resources it may procure if it exercises its option to hold a solicitation. To determine SDG&E's volumetric cap, SDG&E used the 50% load departure scenario available in Appendix 1c. SDG&E reduced its PCIA-eligible RPS portfolio by 100% of the volumes subject to a voluntary allocation and market offer, including grandfathered PCC 0 RECs. SDG&E increased its portfolio in 2026 to include RPS-eligible procurement from the IRP's MTR procurement order. SDG&E did not include potential procurement from the ReMAT program because it is unknown whether and when ReMAT facilities will reach commercial operation, if procured. SDG&E uses its to determine the volumetric cap of to achieve this cap, SDG&E would need to procure for the SDG&E's current RPS portfolio.

SDG&E notes that it continues to procure renewable energy projects under Commissionmandated procurement programs, and other procurement authorizations, for example, procurement mandates within the IRP. For example, the Commission requires clean, firm, nonenergy storage resources to be procured by 2026. Geothermal, an RPS-eligible resource, is identified in the MTR procurement order as a resource that fits these characteristics; thus, SDG&E includes assumptions on RECs from potential geothermal resources in Appendices 1b, 1c, and 1d.

SDG&E may also seek short-term optimization opportunities, which may include the sale of RPS products via bilateral sales agreements and/or a request for proposals ("RFP"). These opportunities are driven by impacts of departing load on SDG&E's RPS Position and by the market.²¹ To the extent SDG&E determines that an RFP is appropriate, it will seek to issue the RFP attached hereto as Appendix 9. SDG&E continuously monitors its portfolio to determine if a buy or sales RFO or RFP is needed.

Current & Future Compliance Period Needs

Based on SDG&E's current RPS generation forecast, SDG&E anticipates meeting its RPS requirements for each CP through 2030 with its portion of the RPS portfolio after impacts of the Portfolio Optimization Decision are considered and by procuring new renewable resources through a competitive solicitation or bilaterally, as needed. SDG&E has two developing

²¹ SDG&E may also be required to sell certain resources (*i.e.*, as per D.18-12-003).

contracts that have a low risk of project failure, and all of SDG&E's online renewable contracts are long-term, thus, SDG&E is not at risk of noncompliance with SB 350's 65 percent long-term contracting requirement. Additional short-term renewable resources may be procured.

It is important to note that this outlook is based on current available data and incorporated assumptions regarding SDG&E's RPS portfolio. The volume of any new purchases required for current and future compliance periods will be a function of portfolio performance and will be subject to the level of RPS banking, if any. SDG&E intends to fill any remaining RPS need with viable low-cost opportunities from future solicitations, bilateral transactions, and potential investments, and will continue to procure for mandated programs, to the extent required. SDG&E continues to advocate for no incremental mandated RPS program procurement; and if mandated procurement is needed, it should not apply only to IOUs but all LSEs, based on need, through the IRP process.

SDG&E intends to manage any potential over-procurement that is created by departing load by banking it for future compliance needs, terminating contracts where conditions precedent or other contractual obligations are not met or where mutual agreement is reached, selling such excess procurement, or transferring the obligation to a new party as permitted by the contract. SDG&E may undertake additional procurement to ensure RPS compliance, with the understanding that any resulting excess can be either banked or sold bilaterally or through an RFP. Additional discussion regarding the analysis of selling versus banking can be found below in Section IV.1.

Utility Tax Equity Investment and Utility Ownership Opportunities

SDG&E's participation as a tax equity investor or utility owner in renewable generation and/or associated transmission projects may enhance project viability (through securing of financing) and may decrease costs for customers (given SDG&E's cost of capital relative to the renewable financing market). SDG&E may consider additional investment opportunities where: (a) its involvement might enhance the viability or cost competitiveness of a project; and/or (b) where a project may have a positive socioeconomic impact, potentially involving a Diverse Business Enterprise ("DBE").

Additionally, SDG&E has undertaken the construction of renewable energy facilities, for example under the Solar Energy Project program. SDG&E completed this program with the commercial operation of the 4.32 MW Ramona Solar Project on April 21, 2017.²²

1. Portfolio Optimization

The first step in SDG&E's portfolio optimization strategy is to determine its RPS need. As outlined above, the probability of success and/or the expected generation of each of the projects in SDG&E's portfolio is frequently reviewed and revised using the most current information. The result of this comprehensive review is a calculation of SDG&E's forecasted RPS Position, which is then compared with SDG&E's RPS compliance requirements to determine its RNS. SDG&E uses this RNS to determine the appropriate level of procurement, including the necessary margin of over-procurement (if any), going forward. Generally, if SDG&E were to foresee a shortfall, it would then procure additional resources; if it were to foresee an excess, then it may pursue sales, or other right-sizing activities. Regulatory directives in the Portfolio Optimization Decision will impact SDG&E's RPS percent if SDG&E's retail sales, and PCIA eligible RPS portfolio are respectively reduced by 40 percent, 50 percent and 60 percent.²³ SDG&E also incorporated procurement directed by the Commission in the IRP that will be RPS eligible, and so that procurement will be also reflected in SDG&E's RPS portfolio.

Cost Optimization

Cost optimization begins before a contract is executed, with contract analysis methodology development and adoption. Once this analysis methodology is utilized and a contract is executed, if an opportunity to optimize this contract becomes apparent, SDG&E will investigate it to determine the best course of action for its customers.

Least-Cost Best-Fit ("LCBF") Analysis: SDG&E carefully analyzes bids and bilateral proposals according to its LCBF methodology. This methodology is intended to optimize SDG&E's procurement decisions by minimizing cost and

²² Approved by D.10-09-016. SDG&E was authorized to build up to 26 MWs of distributed utilityowned solar PV at a cost cap of \$3.50/W(dc). SDG&E held an RFP in the Fall of 2011 and executed a contract for up to a total of 17 MW at eight sites owned by SDG&E. To stay under the cost cap, the number of projects were subsequently reduced due to permitting, site, and contractor issues. SDG&E held another RFP in the Spring of 2015, and no contracts were executed as a result of the RFP.

²³ Pursuant to D.21-05-030 OP 7, the methodology to determine departing load customers' voluntary allocation will be undertaken, thus SDG&E's RNS Scenario is based on allocating or selling down to example percentages of PCIA eligible load share.

maximizing value. The LCBF process results in the quantification and subsequent ranking of the costs and benefits of each bid based on these metrics. It includes analysis of the PPA price, which inherently includes the counterparty's interest, carrying, and transaction costs. The analysis also takes into account the energy, green attributes, and capacity value provided by each of the projects, as well as congestion costs and transmission costs. The formula deducts the PPA Price ("Levelized Contract Cost"), transmission cost, Renewable Integration Cost Adder ("RICA"), and congestion cost from the sum of the energy, green attributes, and capacity benefits to determine a project's Net Market Value ("NMV"). These NMVs can then be compared and used to create a quantitative ranking. SDG&E then evaluates any identifiable qualitative aspects, such as project location (whether in a Disadvantaged Communities ("DAC")), project viability, developer experience, and portfolio fit to determine the shortlist. The projects that are placed on the shortlist will have the highest value to customers and best portfolio fit when compared with other bids from the particular solicitation. SDG&E revises its LCBF methodology as necessary to incorporate new information and will continue to do so in accordance with any future Commission decision on LCBF. See Section X and Appendix 8 for additional details on LCBF.

Banking vs. Sales Analysis: Another optimization tool related to contract management is the analysis of the option to bank or sell excess procurement. When SDG&E forecasts excess RPS procurement in its portfolio, it will perform an analysis of both the short-term and long-term quantitative and qualitative costs and benefits associated with the RECs to determine next steps. In the past, analysis was performed to determine whether to bank or sell the excess; however, given the issuance of the Portfolio Optimization Decision, SDG&E's portfolio will be allocated by vintaged, forecasted annual load share, with the remainder that is not accepted in allocations offered for sale to the market. If there continues to be excess in its RPS portfolio, SDG&E may bank the excess for future use. The quantitative portion of the valuation includes consideration of SDG&E's RPS Position, the time value of revenues from the potential REC sale, and the potential replacement cost. The qualitative portion includes consideration of the impact on market liquidity and SDG&E's RPS Position. For more information regarding SDG&E's Sales Framework, please see Appendix 13.

Retirement Analysis: There is a significant link between SDG&E's banking versus sales analysis and its retirement analysis where SDG&E evaluates its compliance position and strategy to ensure that RECs are handled in the most cost-effective way in both the short-term and the long-term for SDG&E's customers. SDG&E's retirement decisions include consideration of its RPS Position and the 36-month shelf-life of the RECs. RECs can be retired and used for compliance purposes within 36 months of the REC's issuance, and any RECs in excess of the CP's required targets can be banked and will not expire. Once a REC is banked, it can

be used for compliance purposes at SDG&E's discretion. SDG&E also considers the time value of the impact of potential revenues or additional RPS procurement on rates for bundled customers when making the decision to buy, sell, bank, or retire RECs.

Value Optimization

In addition to its contract analysis and management strategies, SDG&E also seeks to add value to the RPS procurement process by participating in stakeholder processes related to current and proposed procurement programs, and by evaluating unique procurement opportunities.

Program Design: SDG&E actively participates in discussions regarding the initial design and future of renewable procurement programs via comments and workshops. SDG&E's goal is to provide recommendations that contain costs and protect customers. Examples of these efforts are SDG&E's contribution to the BioMAT and BioRAM program design process, as well as its recommendations regarding the future of the RAM program. As explained under Section XV, SDG&E anticipates the IRP process signifies a shift away from individual, separate programs and processes, towards a holistic planning and procurement process.

Utility Involvement: SDG&E evaluates both tax equity and utility ownership opportunities as procurement options and assesses the value of its involvement. SDG&E may participate in these types of projects if its participation would either augment the probability of project success or cost competitiveness of a project, and/or lead to a positive socioeconomic impact, for example involving a DBE.

Bilateral Transactions: SDG&E will enter into bilateral purchase or sales agreements, if necessary, to the extent that these transactions benefit customers. Not all products are well-suited for the RFO process due to, for example, deal timing and/or complexity. The ability to contract bilaterally is a potentially valuable tool in maximizing value to customers. For example, it could be useful in addressing an unforeseen need in an expedited manner, as compared to the additional timing required for a solicitation. It also allows an IOU to take advantage of opportunities that are too complex to solicit through an RFO, such as tax equity, utility ownership, or buy/sell transactions. In addition, the ability to engage in bilateral deals is necessary from a practical perspective: bilateral deals assist market development by offering an additional sales option, making project development less dependent on RPS solicitation cycles. SDG&E will request approval of bilateral purchases and sales through a Tier 3 Advice Letter filing.

Risk Optimization

SDG&E optimizes risk through several long-term and short-term mitigation strategies. SDG&E also seeks to add value by actively participating in discussions regarding compliance and enforcement rules.

Minimum Margin of Procurement: A long-term procurement strategy utilized by SDG&E is the establishment of an Minimum Margin of Procurement ("MMoP") consistent with Cal. Pub. Util. Code § 399.13(a)(4)(D). The MMoP is designed to mitigate the risk that renewable projects planned or under contract are delayed or canceled. SDG&E currently has two projects under development and has adjusted its RNS consistent with SDG&E's MMoP strategy. SDG&E's MMoP is intended to ensure, to the extent possible, that SDG&E is able to reach its RPS goals, as explained in more detail below under Section IX, which describes how SDG&E's MMoP is incorporated into the RNS formula. Generally, SDG&E applies a failure rate which is a probability weighted deviation below expected forecast generation, and it is based upon but not limited to probability assessments of project failure, project capacity reduction, operational failure after project success, project curtailment due to transmission constraints, etc.²⁴ Risk-adjusted RECs from RPS facilities in development will be added to the total RPS eligible procurement which is captured in SDG&E's RNS, Appendix 1. Total RPS eligible procurement will be compared to the gross RPS procurement quantity requirement to determine if additional procurement is required. Project development can present challenges that must be accounted for when determining a need. In combination with the constant fluctuation of RPS targets (based on retail sales) and continual changes in RPS deliveries, it is essentially impossible to meet the RPS targets exactly. SDG&E undertakes conservative MMoP procurement as a prudent measure to guard against any unforeseen events that may impact its portfolio and jeopardize compliance.

Short-term Contracts: Due to unforeseen circumstances, a situation may occur in which SDG&E needs to procure a small amount of renewable energy in the near-term. In this scenario, short-term contracting is a viable strategy, as it allows SDG&E to respond quickly to a sudden change in portfolio status and manage a short-term need without entering an unnecessary long-term commitment.

Category 3 Procurement: SDG&E may consider Category 3 procurement to the extent that such products are shown to be cost-effective and a need for additional RPS procurement becomes evident. However, SDG&E plans to

²⁴ SDG&E does not include an additional adjustment to its forecasted REC deliveries through a Voluntary Margin of Procurement ("VMoP"), which is optional, and not required by statute as is the MMoP.

maintain enough room below its Category 3 procurement limits so that Category 3 procurement is a potential strategy in the short-term, should SDG&E need to fill any unforeseen immediate need.

Status of Decision for PCIA Portfolio Optimization: Per the Portfolio Optimization Decision, IOUs shall "propose a Request for Information for Contract Assignments and Contract Modifications in the Renewables Portfolio Standard proceeding in 2021 and 2022, and shall each confirm Voluntary Allocations and propose Market Offers in their 2022 RPS Plans for deliveries in 2023."²⁵ SDG&E has commenced its RFI consistent with the schedule included in this Final 2021 RPS Plan. The Joint IOUs filed a motion to amend to scope of the RPS proceeding to consider the timing of voluntary allocations in support of REC deliveries that begin in January 2023.²⁶ SDG&E also supports adjusting the timing of the market offer proposal that allow for REC deliveries beginning in January 2023.

SDG&E has included alternative RNS scenarios to determine its RPS need, if its retail sales and PCIA eligible RPS portfolio are reduced by 40 percent, 50 percent, and 60 percent respectively. SDG&E also includes impacts from the IRP MTR procurement order. See Appendices 1b, 1c, and 1d.

SDG&E will update subsequent RPS Plans with details on departing load allocation amounts, but in the meantime, SDG&E may need to hold an RPS procurement solicitation in the 2021 RPS Plan cycle due to the impacts of the PCIA Portfolio Optimization Decision and any RPS needs identified in the IRP. The Commission granted this authority in D.22-01-004.

2. PCIA Coordination and RFI Plan (Per D.21-05-030)

In accordance with ALJs Lakhanpal's and Sisto's guidance provided on May 26, 2021 regarding the IOUs' 2021 Draft RPS Plans, SDG&E provides the following information regarding its plans for the prescribed RFI for Contract Assignments and Contract Modifications to reduce excess and/or uneconomic resources in their RPS portfolios in accordance with OP 6 of D.21-05-030. SDG&E will hold the RFI process with its RPS supply contract counterparties to determine interest.

1) How do you plan to gather interest in contract modification?

SDG&E will review its portfolio of PCIA-eligible RPS PPAs to determine which may be eligible for contract modifications and contract assignments. The review will exclude PPAs procured for specific mandates, such as the BioRAM and Green Tariff Shared Renewables programs, and it will be limited in the scope as it

²⁵ D.21-05-030 at 65-66 (Ordering Paragraph 6).

²⁶ Joint IOU Motion to Amend the RPS scoping memorandum to accommodate the VAMO process dated December 8, 2021.

relates to other mandated programs, due to the non-modifiable requirements of certain PPAs, such as RAM, Renewable Market Adjusting Tariff ("ReMAT") and BioMAT PPAs. Once the target PPAs are determined, SDG&E will develop specific outreach material to be communicated to these counterparties.

2) How do you plan to reach out to contract counterparties? Please explain your process for outreach.

Once a list of eligible contracts is developed, SDG&E will formally notify the counterparties pursuant to applicable PPA terms with the outreach materials that are developed, including reference to the Portfolio Optimization Decision and explain the intent of the RFI, and request meetings with the counterparties individually to discuss in more detail. SDG&E will include an independent evaluator in the entire RFI process, including all communication with counterparties.

3) How many counterparties do you plan to target to gather information?

The number of PPA counterparties that SDG&E will target in this process is not known at this time. As discussed above, SDG&E will develop a comprehensive list of its RPS PPAs eligible for contract modification and/or assignment and will request information from these counterparties regarding their interest in participating in further modification discussions.

| Date | Planned Activities/Milestones | | |
|--------------------|---|--|--|
| Q4 2021 | SDG&E to review PCIA-eligible RPS PPAs internally and | | |
| | develop target counterparty outreach materials | | |
| January 5, 2022 | SDG&E to reach out to RPS counterparties | | |
| February 1, 2022 | Counterparty responses to RFI due | | |
| February 18, 2022 | SDG&E to complete review of responses to RFI | | |
| March 1, 2022 | SDG&E to notify LSEs of RPS contracts available for | | |
| | assignment, if any | | |
| March 11, 2022 | LSEs to notify SDG&E if LSE is interested in assignment | | |
| | negotiations | | |
| Q1-Q2 2022 | Discuss voluntary allocation elections with LSEs | | |
| March 14 – May 20, | If applicable, this is the negotiation period between | | |
| 2022 | LSEs, IOU and counterparties for assignments, and IOU | | |
| | and counterparties of other contract modifications. | | |

4) Provide a detailed schedule of your planned activities. For example, when you will commence outreach to counterparties, your milestone goals.

| May 20 - June 1, 2022 | Unless otherwise directed, incorporate requests for allocation approval, and market offer requests into 2022 RPS Plans. |
|--------------------------|---|
| June 1, 2022 | 2022 Draft RPS Plans filed, including LSE load share elections of the PCIA-eligible RPS portfolio |

5) How will you align the RFI process schedule with the Voluntary Allocation process in 2022? Provide information that lines up with the Timeline in Table 2 in D.21-05-030.

The pool of PCIA-eligible RPS PPAs available for the Voluntary Allocation process will potentially be impacted if PPAs are removed from SDG&E's portfolio, so to accommodate potentially lengthy contract assignment or modification negotiations that may impact the size of the PCIA-eligible pool of generation resources SDG&E intends to initiate the RFI process in advance of the need for LSEs to elect their load share allocation in the initial Voluntary Allocation process.

6) How will you track and report the outcome of your RFI process?

SDG&E shall file a report on the effectiveness of its RPS RFIs jointly with Pacific Gas & Electric Company ("PG&E") and Southern California Edison Company ("SCE") and serve it in this proceeding along with their joint report on the effectiveness of the RPS VAMO.²⁷ The joint report will include best practices and lessons learned from implementing the RPS RFI.

7) How do you plan to gather information and feedback from Independent Evaluators and Procurement Review Group stakeholders who can access confidential information?

SDG&E will utilize its current practice to gather feedback from relevant stakeholders. SDG&E will work with Independent Evaluators and Procurement Review Group stakeholders throughout the process to ensure fairness, transparency, and thoroughness. SDG&E will bring information and recommendations to Procurement Review Group stakeholders in a timely manner to elicit feedback. Information and feedback gathered will be reviewed and then incorporated into the deliberative process.

²⁷ Pursuant to D.21-05-030, Ordering Paragraph 4.

B. Responsiveness to LSE Policies & Goals, Statutes, & Commission Policies

In this section, SDG&E provides an overview of its compliance with Commission policies, orders, directives, such as RPS related mandated procurement programs, and energy storage reporting. This section also addresses SDG&E's compliance with the statutory long-term contracting requirement. SDG&E does not have unique regional attributes such as once-through cooling retirements, and thus that topic is not included in SDG&E's RPS Plan.

Responsiveness to Legislation and Programs

Notably, regarding SB 100's decarbonization goals, RPS resources play an important role in reducing carbon emissions, and the resource planning undertaken in IRP will be instrumental in ensuring that California reaches its carbon reduction goals through increasing clean resources. Procurement undertaken through the IRP process is, and will continue to be, quantified in SDG&E's RPS procurement planning analysis. SDG&E's alternative RNS scenarios include potential impacts from the IRP, which would increase SDG&E's RPS once the resource(s) come online. SDG&E supports the efforts occurring in the IRP and will continue to be an active stakeholder through comments, workshops, etc.

The banking rules adopted by SB 350 and formalized in D.17-06-026 make several changes, which are now applicable to SDG&E per its election to utilize them beginning in CP3: (i) short-term Category 1 products can be banked;²⁸ (ii) Category 2 products cannot be banked;²⁹ and (iii) Category 2 and 3 products of any duration cannot be deducted from the bank.³⁰ In accordance with Commission direction,³¹ SDG&E has updated its RNS table under Appendix 1 to comport with the new SB 350 banking rules, assuming for RNS calculation purposes that eligible excess procurement³² will be utilized in future compliance periods.³³

³³ Note that SDG&E may manage excess procurement by selling such products when doing so would benefit customers, or by utilizing a retired REC for RPS compliance in future compliance periods.

²⁸ Cal. Pub. Util. Code § 399.13(a)(5)(B)(i).

²⁹ Cal. Pub. Util. Code § 399.13(a)(5)(B)(ii).

³⁰ The banking rules, established by D.12-06-038 (see p. 66), require that bankable excess procurement be calculated by deducting all short-term RECs of any category from the total volume of bankable excess procurement. SB 350 expressly changes this by allowing the banking of shortterm Category 1 products (399.13(a)(5)(B)(i)), and prohibiting the deduction of any Category 2 and 3 products when determining bankable excess procurement (399.13(a)(5)(B)(ii)).

³¹ R.11-05-005; *Administrative Law Judge's Ruling on Renewable Net Short* (May 21, 2014).

³² Rules regarding excess procurement are set forth in D.12-06-038, and D.17-06-026.

Legislation and Mandated Procurement Programs

Green Tariff Shared Renewables Program

Over the past several years, the California Legislature has passed SB 43 ("Green Tariff Shared Renewables" or "GTSR"), and DAC-Green Tariff programs. SB 43, which became effective on January 1, 2014, requires participating utilities to file an application for a GTSR program allowing customers to buy some or all of their energy from local renewable projects via a GT or Enhanced Community Renewables ("ECR") program.³⁴ Prior to the effective date of this law, SDG&E filed an application requesting approval of its GTSR program in January 2012 (Application "A."12-01-008). SDG&E launched GTSR solicitations for GT and ECR projects in July 2015, September 2016, March 2017, November 2017, June 2018, November 2018, and September 2020. On December 17, 2021, SDG&E's filed Advice Letter 3920-E, requesting CPUC approval to suspend the GTSR program. A large majority of SDG&E's customers have departed or soon will depart, suddenly and materially reducing subscriptions. Since program costs must be recovered from this shrinking pool of customers, rates have risen sharply, resulting in further attrition. SDG&E's RPS may increase if SDG&E claims excess GTSR committed RECs for compliance.

Progress Towards Target and Reservations: SDG&E has a target of 59 MW total capacity between its GT and ECR programs, and within this target are two reservations of 10 MW each for residential customers and Environmental Justice ("EJ") projects.³⁵ The Commission approved SDG&E's AL 3074-E, via disposition letter, effective June 5, 2017, approving a 20 MW project for SDG&E's GT program leaving 39 MW of available capacity in SDG&E's GTSR program. SDG&E filed AL 3214-E in May 2018, requesting approval of another 20 MW project for SDG&E's GT program and a 2.4 MW project for SDG&E's ECR program. AL 3214-E was approved by the Commission, effective as of June 17, 2018. Subsequent procurement for the GT program through RAM will be based on assessment of "incremental customer enrollments and the amount of dedicated Green Tariff procurement... [already] under contract." ³⁶ SDG&E held two ECR solicitations a year through 2018.³⁷ SDG&E also submitted AL 3168-E to the Commission in December 2017, seeking to extend its GT and ECR programs through 2023 and to propose changes to the ECR program, such as solicitation timing and community interest requirements. The Commission issued Resolution E-5028, effective September 26, 2019, approving SDG&E's

³⁴ These programs are branded as EcoChoice ("GT") and EcoShare ("ECR"), and were formerly known as "connected....to the sun."

³⁵ D.15-01-051 at 5.

³⁶ AL 2743-E at 8.

³⁷ D.16-05-006 at 10.

request which allows, among other things, SDG&E to hold one solicitation per year beginning in 2020 for these programs.

Reporting: D.15-01-051 allows an IOU to supply initial GT program demand from an interim pool of existing RPS resources under contract with that IOU.³⁸ This Decision also requires reporting regarding this pool, specifically that the IOUs' RPS Plans include "all information related to the transfer of megawatts from the existing RPS program to GTSR. This information includes the impact on residual net short and the need to bridge for any shortfall, accounting of RECs, list of contracts with price, and other relevant details."³⁹ SDG&E received Commission approval of its interim project pool Alternative B (list below),⁴⁰ and enrollment in SDG&E's GT program began in Q4 2016. SDG&E's reporting on the interim project pool Alternative B as of April 2021 shows that 8 RECs in 2016, 4,437 RECs in 2017, 86,446 RECs in 2018, ⁴¹ 87,617 RECs in 2019,⁴² and 91,024 RECs in 2020⁴³ were transferred between the interim project pool Alternative B and the GTSR program. The current price of interim pool energy is based on 2020 actual generation, and the cost for interim pool contracts is \$93.98.⁴⁴ Because GTSR customers are being served with dedicated renewable resources, the generation used to serve the customers enrolled in SDG&E's GT program as well as the bundled retail load served via SDG&E's GT program have not been included in SDG&E's RNS table.

| SDG&E GTSR Interim Pool Contracts | | | | | |
|-------------------------------------|------------|-----|----------------------|-------------|--|
| Facility Name | Technology | MW | Location | GTSR Pool % | |
| Desert Green Solar Farm | Solar PV | 6.3 | Borrego Springs, CA | 8% | |
| Sol Orchard 20 - Ramona 1 | Solar PV | 2.0 | San Diego County, CA | 2% | |
| Sol Orchard 22 - Valley Center 1 | Solar PV | 2.5 | San Diego County, CA | 3% | |
| Sol Orchard 21 - Ramona 2 | Solar PV | 5.0 | San Diego County, CA | 5% | |

³⁸ D.15-01-051 at 39.

³⁹ D.15-01-051 at 41.

- ⁴⁰ SDG&E AL 2745-E at 3-4.
- ⁴¹ A total of 102,880 RECs were retired for the GTSR Program (EcoChoice) for 2018. 86,446 RECs were retired from the interim pool and 16,434 RECs were retired from the GTSR project.
- ⁴² A total of 128,280 RECs were retired for the GTSR Program (EcoChoice) for 2019. 87,617 RECs were retired from the interim pool and 40,663 RECs were retired from the GTSR project.
- ⁴³ A total of 127,956 RECs were retired for the GTSR Program (EcoChoice) for 2020. 91,024 RECs were retired from the interim pool and 36,932 RECs were retired from the GTSR project.
- ⁴⁴ Price is calculated based on the methodology adopted in D.15-01-051.

| Sol Orchard 23 - Valley | Solar PV | 5.0 | San Diego County, CA | 5% |
|-------------------------|----------|------|----------------------|-----|
| Center 2 | | | | |
| Cascade Solar | Solar PV | 18.4 | Sun Fair, CA | 20% |
| Calipatria, LLC | Solar PV | 20.0 | Calipatria, CA | 18% |
| TallBear Seville | Solar PV | 20.0 | El Centro, CA | 22% |
| Maricopa West | Solar PV | 20.0 | Maricopa, CA | 16% |

Energy Storage

As of June 2021, SDG&E has a portfolio of 116 MWs of energy storage online, including: 76 MWs of utility-owned battery storage resources and 40 MWs of 3rd party pumped storage. In addition, SDG&E has approximately 70 MWs of utility-owned storage under development with another 264 MWs of third-party contracted resources that were approved or awaiting final and non-appealable approval by the Commission and set to come online between 2021 and 2023.

Benefits of Energy Storage: Commission decisions⁴⁵ on energy storage list a myriad of grid management issues that can be addressed via storage, for example, contribution to reliability needs or deferment of transmission and distribution upgrade investments.⁴⁶ Storage also has the ability to respond to periods of renewable curtailment by charging during the overgeneration periods, harnessing the excess energy and potentially mitigating the frequency of negative pricing. Many of SDG&E's online facilities participate in the CAISO market. SDG&E anticipates increasing battery storage project participation in the CAISO market over the next couple of years. As mentioned, energy storage resources have the ability to take advantage of surplus renewable energy when it occurs, as they have the capability to absorb excess energy during times of high renewable generation and discharge it at times when supply is limited. As energy storage capacity increases, the ability of this resource to absorb excess energy may increase, which may decrease the need for economic curtailments.

AB 2514: SDG&E is required to incorporate into its RPS Procurement Plan any energy storage targets and policies that are adopted by the Commission as a result of its implementation of AB 2514.⁴⁷ The Commission issued D.13-10-040⁴⁸ on October 17, 2013, requiring SDG&E to procure 165 MW of energy storage by 2020.⁴⁹ On December 31, 2020, CPUC Executive Director Rachel Peterson granted SDG&E an extension to 2021 to support SDG&E meeting its AB 2514

⁴⁵ *See, e.g.*, D.13-01-040; D.14-10-045; and D.16-01-032.

⁴⁶ D.13-10-040 at 9.

⁴⁷ Cal. Pub. Util. Code § 2837.

⁴⁸ This decision established the policies and mechanisms for procurement of electric energy storage pursuant to AB 2514.

⁴⁹ D.13-10-040 at 77 (Ordering Paragraph 3) and Appendix A at 7.

procurement obligation. To date, SDG&E has completed the 2014, 2016 and 2018 energy storage procurement cycles. In March of 2020, SDG&E filed its Application for Approval of its 2020 Energy Storage Procurement Framework and Program (A.20-03-003), which described that developers terminated two of the third-party contracts leaving SDG&E approximately 6 MW short of its target. Additional third-party contract cancellations in the remainder of 2020 have resulted in a deficiency of approximately 13 MWs. SDG&E is in the process of replacing the capacity represented by the terminated projects to meet its AB 2514 procurement obligation.⁵⁰

MANDATED RPS PROCUREMENT PROGRAMS

The Commission has implemented several mandated procurement programs, such as RAM, ReMAT, BioMAT, and BioRAM. These programs, with the exception of BioRAM, have resulted and will result in additional RPS procurement that SDG&E must include in its RNS calculation, which will impact SDG&E's position and procurement decisions.

RPS-eligible procurement may occur both within and outside the RPS program. If authorized to procure renewable resources as a part of these initiatives, SDG&E will count such resources towards its RPS goals. For example, SDG&E anticipates that the IRP process signifies a shift away from separate program-specific procurement requirements as is currently the case and towards a holistic planning and procurement process that evaluates resource needs as a whole and, should they exist, ascertain the optimal way of procuring for those needs.

Renewable Auction Mechanism

The Commission implemented its own mandated renewable procurement program, the RAM program in 2010. While SDG&E expects it will meet its RPS compliance obligations with RPS under contract, SDG&E may use the RAM solicitation documentation on an as-needed basis to procure for its GTSR program, as authorized by D.15-01-051⁵¹ and D.16-05-006.⁵² SDG&E's most recently approved RAM documents can be found in SDG&E AL 3206-E, effective April 28, 2018.⁵³ D.14-11-042 allows the IOUs to propose an approval process for contracts resulting from the RAM process. At this time, SDG&E proposes no changes to the current Tier 2 AL process, but may propose alternate methods in subsequent versions of its RPS Plan.

⁵⁰ See R.20-03-003, Response of SDG&E to Ruling Requiring Updates Regarding Progress Toward Meeting AB 2514 Energy Storage Targets, dated August 2, 2021.

⁵¹ D.15-01-051 at 180 (Ordering Paragraph 5).

⁵² D.16-05-006 at 41-42 (Ordering Paragraph 1).

⁵³ Available at <u>http://regarchive.sdge.com/tm2/pdf/3206-E.pdf</u>.

ReMAT

The ReMAT, established in 2012, is a feed-in tariff program for small renewable generators less than 3 MW in size. In accordance with the ReMAT program rules, SDG&E's Schedule Re-MAT Tariff closed, effective June 30, 2016. D.21-12-032 reopens SDG&E's ReMAT program and requires SDG&E to file a Tier 2 Advice Letter to memorialize the reopening and to identify the capacity available in the three product categories; peaking, non-peaking, and as available. SDG&E has not included RPS resulting from the ReMAT program in its RNS scenarios as the procurement volume and timing is unknown. SDG&E will incorporate RPS from ReMAT facilities once they have been approved by the CPUC.

BioMAT⁵⁴

SB 1122 was signed into law in September 2012, creating the BioMAT program. The program required IOUs to procure a total of 250 MWs of bioenergy projects that are 3 MWs or less. The categories of procurement are biogas from wastewater plants and green waste (110 MWs), dairy or other agriculture bioenergy (90 MWs), and forest waste biomass (50 MWs). The BioMAT program benefits all California customers, and as a result of D.20-08-043, all BioMAT costs are to be spread through a non-bypassable charge. Currently, SDG&E has no BioMAT contracts, and its total available BioMAT capacity is 24.5 MW.⁵⁵

BioRAM

The BioRAM program was established in 2016 as a result of former Governor Brown's emergency proclamation. The program was created to aid in mitigating the threat of wildfires by utilizing high hazard zone biofuel from forests and other vegetated areas determined by CAL FIRE that pose a wildfire risk. The program requires IOUs to collectively procure 146 MWs, of which SDG&E's share of that total is 19 MWs. SDG&E has one 24 MW BioRAM contract which fulfilled its procurement obligation.⁵⁶ Per Resolution E-4977, which implements SB 901, SDG&E was required to seek to extend its BioRAM contract for 5 years. Accordingly, effective July 19, 2019, the Commission approved AL 3356-E and 3356-E-A, extending SDG&E's BioRAM contract by 5 years.

D.18-12-003 requires SDG&E to make available for sale all of the future RECs associated with SDG&E's BioRAM contract(s) as PCC 1 RECs. SDG&E has utilized, and will continue to utilize, the

⁵⁴ <u>https://sdgebiomat.accionpower.com/biomat/home.asp</u>.

⁵⁵ SDG&E previously contracted with a BioMAT facility which has since been terminated.

⁵⁶ SDG&E met its BioRAM requirement in November 2016.

Sales RFP documents attached herein (see Appendices 9-13) and will file an AL with the Commission for approval of any resulting contracts. According to the Decision, SDG&E may not use RECs associated with BioRAM contracts for compliance purposes. Therefore, SDG&E updated its RNS appendices 1a, 1b, 1c, and 1d to exclude RECs associated with BioRAM resource.

1. Long-Term Procurement

Requirements set forth in D.17-06-026 require that 65 percent of each retail seller's procurement that can be counted towards the RPS requirement must be from contracts (or ownership or ownership agreements) with term lengths of 10 years or more in duration. SDG&E elected early compliance (beginning in CP 3) with the 65 percent long-term contracting requirement.

Of the RECs retired in CP 3 (2017-2020), 98 percent were from long-term contracts. Beginning in 2020 100 percent of SDG&E's remaining RPS contracts are long-term contracts, and SDG&E's developing contracts are long-term and have low risk of project failure. Because SDG&E's RPS portfolio is made up exclusively of long-term RPS contracts, it is not at risk for noncompliance with the 65% long-term contracting requirement. Additionally, SDG&E frequently monitors its portfolio to ensure continued compliance with the RPS Program requirements, including the long-term contracting requirement.

C. Portfolio Diversity and Reliability

A wide variety of procurement programs exist both within and in addition to the RPS program. This variety contributes to SDG&E's overall portfolio diversity. An overview of SDG&E's mandated RPS procurement programs and preferred resources solicitation is provided above under Section IV; Section XV addresses the IRP process which aims to achieve resource diversity and reliability; and Section IV includes information on SDG&E's flexible capacity and storage procurement efforts. Additionally, SDG&E provides detail regarding how transportation electrification is considered in Section IV, and SDG&E's strategy for optimizing cost, value, and risk, which are also important considerations for both diversity and reliability purposes. Taken together, these various sections address how SDG&E has increased and will continue to increase the diversity of its portfolio and contribute to grid reliability, thereby resulting in customer value.

Another factor that influences SDG&E's portfolio diversity as well as help to appropriately address integration and overgeneration is the LCBF calculation that SDG&E has used and will use to select shortlisted projects. The LCBF methodology appears in a document attached hereto as Appendix 8. The methodology outlined in this document includes the interim integration adder, the application of which will ensure that integration is factored into bid

evaluation, with the objective of selecting a diverse portfolio in consideration of system needs and reliability. The LCBF document also contains qualitative evaluation metrics, which play a part in selecting a diverse portfolio.

Additionally, SDG&E's Plan includes Section XIII, dedicated to economic curtailment, which outlines how SDG&E proposes to address the integration of renewables and the issue of overgeneration, both of which can contribute significantly to the incidence of economic curtailment. This section includes a discussion of SDG&E's analysis and activities, as well as information regarding contract modifications SDG&E has made over time to address curtailment. SDG&E notes that the ACR expressed an interest in how SDG&E is addressing the "under-utilization" of renewable energy.⁵⁷ This term implies that renewable energy is not being used to the extent possible when generated, which is not the case. However, as explained further in Section XIII, below, renewable generation is not load-following, and as such can result in overgeneration. One way to address overgeneration is through the use of energy storage. Section IV includes an update on the status of SDG&E's energy storage portfolio, as well as more detail regarding the potential of this technology to address overgeneration.

The various procurement activities and continued refinement of both the project valuation methodology and contracts are undertaken on behalf of SDG&E's customers to ensure that they receive a reliable, diverse and cost-effective portfolio of generation.

Alignment with Load Curves

SDG&E evaluates load curves regularly to ensure that its portfolio meets hourly system needs. SDG&E's renewable resource procurement process analyzes these curves in three phases: (i) need identification; (ii) solicitation; and (iii) resource operations. All steps within this process consider the load curves and their implications on overall portfolio performance and system requirements. The need identification phase outlines the required resource characteristics based on SDG&E's existing portfolio and forecasted load. During the solicitation phase, projects with the characteristics identified in the first phase are sought, and portfolio and system requirements are incorporated into the analysis in the form of capacity value, congestion costs, and transmission costs (see the LCBF discussion below). And finally, once projects are operational, their generation can be managed as deemed necessary via curtailment and/or energy storage (see Sections IV and XIII for further detail).

SDG&E optimizes its RPS portfolio to meet and maintain its RPS compliance while minimizing customer costs, maximizing portfolio value and managing risk. SDG&E approaches this task

⁵⁷ ACR at 16.

from a variety of angles, as described below. SDG&E seeks to ensure an optimal, cost-effective portfolio mix based on technology, location, and contract length. SDG&E continually assesses opportunities to increase the value of its existing portfolio of contracts and the investment in SDG&E's RPS bank to maintain RPS compliance and mitigate financial and cost-allocation risks.

Advanced Emerging Technologies

Advanced emerging technologies naturally support resource diversity due to their inherent novelty and propensity to render certain operations more efficient, cost-effective, cleaner, to name but a few benefits. The Commission should also continue to prioritize resource diversification by supporting the development of long-duration energy storage and other potential viable options such as hydrogen energy storage. Hydrogen energy storage can significantly reduce emissions and can play a critical role in complementing intermittent renewables for the state. Hybrid battery storage can also provide benefits to the grid, such as reliability, because storage can absorb excess solar during the day to be used at a time when renewable resources may be producing less. The IRP process will continue to help identify and allow advanced emerging technologies to become part of the State's portfolio of resources. Furthermore, the IRP can help to promote growth in and maturation of new technologies, including EVs, carbon capture, carbon sink options, etc., and allow them to be part of the solution for achieving the State's policy goals.

D. Lessons Learned & Trends

The following sections discuss lessons learned regarding RPS supply and demand assessments and identify trends and potential future trends.

Supply Lessons Learned and Trends

REC Sales Considerations: A firm REC sale agreement requires SDG&E to deliver a guaranteed volume of RECs to a counterparty, typically from a "pool" of renewable facilities. The purpose of the "pool" is to ensure the counterparty receives its full contracted volume. For example, if SDG&E agreed to deliver 10,000 RECs in one year to a counterparty, and Pooled Facility #1 generated 8,000 MWhs, one or more facilities from the "pool" must deliver the remaining 2,000 MWhs needed to fulfil the obligation of the contract. This type of transaction is considered a "firm" transaction.

The alternative to a firm REC sale agreement involves a counterparty agreeing to an as-available volume of RECs from one specific renewable facility. If the facility delivers less than expected, SDG&E is not required to make up the difference with the "pool" because there is no "pool" from which to back-fill shortfall quantities in non-firm REC agreements. This type of transaction is considered a "non-firm" transaction.

SDG&E sees advantages with both firm and non-firm transaction types. SDG&E has learned that non-firm transactions reduce the risk that a certain technology or facility(ies) in the RPS portfolio underperforms because SDG&E would not be obligated to "make up" RECs from its portfolio that may have been needed for SDG&E's compliance.

Overbuilding: SDG&E has had experience with developers providing profiles in prior solicitations that did not match the profiles of the facilities that were ultimately built. In other words, developers "overbuilt" facilities (i.e., installed capacity above the amount bid and/or shaped the production profile to take advantage of higher-priced Time of Delivery ("TOD") periods). The resulting overgeneration has increased costs to customers through increased contract costs, and increased generation overall which increases the incidence of and payments for negative real-time energy pricing. SDG&E has modified its PPA several times to discourage this practice going forward and will continue to reevaluate its contract provisions in subsequent versions of the plan, as new information becomes available, to determine if and how its contracts should be updated.

Energy Storage and Curtailments: Battery storage is a solution that can work in tandem with renewables which may help reduce economic curtailment events. Energy storage could help alleviate economic curtailments by taking the excess supply off the grid. Through the IRP, the Commission ordered 3,300 MWs of procurement to address reliability concerns.⁵⁸ This procurement order resulted in SDG&E holding an all-source solicitation, in which eligible renewable energy resources could bid in. SDG&E found that of the bids offered, the majority were not renewables given the commercial online date requirements, and instead were battery storage solutions. Ultimately, the development of battery storage could reduce the renewable curtailments currently faced by the CAISO and LSEs.

Capacity Value: SDG&E's method for calculating energy and capacity values uses a benchmark where energy values are shaped hourly based on a forecast of SP15 energy prices and the results of production cost modeling that yields an hourly energy shape that covers the contract term. The capacity value is shaped hourly using a Loss-of-Load Probability ("LOLP") study for a representative year of the contract term. The process assigns higher capacity value to hours of greater capacity need, which more accurately reflects the impact of variable energy

⁵⁸ D.19-11-016 at 48-49.

resources upon capacity needs. The calculation provides annual capacity values for both local and IV/System area projects. These annual values are then taken through a process which creates monthly capacity values using the LOLP mentioned above, then down to an hourly level using the monthly values.

These benchmark values are reasonable because, when evaluating a contract on a standalone basis, it should be measured against the avoided costs the utility might face had this contract not been part of the portfolio. For example, if SDG&E had a resource in its portfolio, and that resource was crucial to meeting local resource adequacy requirements, the marginal value of that resource is the amount that SDG&E must pay to replace that resource if it becomes unavailable, plus the cost to replace the energy that resource would have generated in order to serve hourly retail load. SDG&E will update its calculations as the assumption sources are updated.

Delay of COD Declaration: SDG&E is concerned that a facility could reach commercial operation prior to the contractual commercial operation date ("COD"), but delay declaring COD until the COD date in the contract. As a result, the facility would be paid for this energy at the contract price, thereby extending the term of its contract, resulting in an additional cost to customers. To mitigate this issue, SDG&E's PPAs provide that energy delivered prior to COD will be paid for at a fixed REC value plus CAISO revenues net of CAISO costs.

Steady Project Success Rates: As the market for renewable energy has matured, SDG&E has observed a positive trend in project success rates. As explained above, SDG&E reviews the status of all projects in its portfolio frequently to incorporate the most recent information into its forecast and will continue this practice.

Demand Assessment Lessons Learned and Trends

Proliferation of CCAs and the need for a central procurement entity ("CPE") and provider of last resort ("POLR"): IOUs are experiencing significant amounts of departed load as a result of the proliferation of CCAs in the territory which results in the reduction of SDG&E's retail sales. In SDG&E's service territory, the City of Solana Beach formed the Solana Energy Alliance and began operations in 2018 as the first local CCA, and has since joined the cities of Carlsbad and Del Mar to form the larger Clean Energy Alliance. San Diego Community Power ("SDCP") has also started serving load, with customers in the cities of San Diego, Chula Vista, Encinitas, La Mesa and Imperial Beach. Together these two CCAs represent over 832,000 accounts and more than 58 percent of SDG&E's total load; both CCAs expect the transition of all customers to be completed by the end of 2022. As load departs from bundled service, the traditional role played by the IOUs in commodity procurement will need to be re-evaluated. **Peak Shifting:** Due to the success of the RPS program, a significant amount of renewable energy continues to be added to the grid. Substantial amounts of rooftop solar are also being added by customers behind the meter. As a result, the peak load net of variable energy resources has and will continue to shift as the California resource portfolio evolves. Renewable resources have low variable costs, and thus when they are delivering at high penetration levels during any single time during the day, doing so may result in significant decreases in marginal energy prices and significant ramping events. SDG&E is monitoring the impacts of this issue in the IRP proceeding.

Meeting Demand for Higher Levels of Renewables: In addition to the State's goals (the most recent development of which was SB 100), many customers and communities within SDG&E's service territory are interested in electricity service with even higher levels of renewables than required by law. Related to SDG&E's RPS planning efforts, SDG&E will continue to consider ways in which SDG&E can potentially support offerings that are made available to customers throughout the SDG&E service territory to help meet these goals.

V. PROJECT DEVELOPMENT STATUS UPDATE

The adopted Reference System Plan ("RSP") from the 2019-2020 IRP cycle, which was approved in D.20-03-028, showed a need for developing new resources.⁵⁹ Additionally, due to system reliability concerns, the Commission initiated a procurement track and ordered an additional amount of 3,300 MWs.⁶⁰ SDG&E has since entered into contracts with multiple counterparties. Additionally, the Commission is requiring the procurement of additional resources, some of which may be RPS eligible through its IRP MTR procurement order.⁶¹ RPS resources procured in the IRP will be included on the Project Development Status Update, and their RPS volumes will be considered after adjusting REC deliveries for potential project failure. More information on SDG&E's RPS procurement alignment with the IRP can be found in Section XV.

SDG&E regularly evaluates each project's development status to assess each project's ability to begin deliveries pursuant to contract terms and conditions. SDG&E's portfolio of renewable energy resources currently under contract but not yet delivering (either pre-construction or in construction) are in various stages of development. Projects under development generally require numerous permitting approvals, generator interconnection, financing, and completion of construction before they can achieve commercial operation. Each of these issues adds significant risk to the development of a project and can directly impact the success or failure of a project.

Generally, projects in the pre-construction phase are most at risk of failure. However, projects under construction may also encounter issues that could affect their ability to achieve commercial operation, such as successful litigation against the project. In general, projects that have achieved commercial operation have a high probability of meeting their contractual obligations; however, project failure or resource fluctuations *(e.g., a bad wind year)* can create challenges. Although a developer's experience may improve the likelihood of a project achieving commercial operation, it does not ensure that a project will be successful. Sections IV, VI and VII of this Plan discuss the various delays and risks that could impact projects in various stages of development.

Regarding the impact of project development status on SDG&E's RNS, as a practical matter, until a project actually begins commercial operation, it bears significant development risk. SDG&E currently expects that the two developing projects in its RPS portfolio will meet their

⁵⁹ D.20-03-028 at 97 (Finding of Fact 21).

⁶⁰ D.19-11-016 at 48-49.

⁶¹ See Footnote 4, *supra*.

commercial operation dates either on schedule or within the prescribed cure period. SDG&E bases its forecasting, and therefore its RNS calculation, on its individual project assessments, as is described in more detail in Section IV. It also relies on the lessons it has learned and trends it has observed as a result of the RPS procurement process, as discussed in more detail in Section IV. The above factors contribute to SDG&E's monthly project assessments of the likelihood of each project's success. The result of these cumulative assessments is reflected in the RNS, which SDG&E will use to inform its procurement activities.

Information regarding SDG&E's developing projects, including location, which SDG&E has made public pursuant to D.22-01-004, can be found in Appendix 1.

VI. POTENTIAL COMPLIANCE DELAYS

Potential Issues that Could Impact RPS Compliance

The market for renewable energy is dynamic, and multiple factors can impact project development and SDG&E's attainment of its RPS program goals. The following discussion addresses many of the major issues affecting both renewable project developers and SDG&E.

Transmission Interconnection / Coordination with CAISO: The timely approval, permitting, and completion of interconnection facilities is crucial to the successful implementation of SDG&E's renewable portfolio. Issues may arise due to transmission facility planning that could impact project development timelines. For instance, the CAISO's transmission studies are already showing that there is limited available deliverability left in the Greater Imperial Valley area.⁶² An inadequate amount of transmission capacity can result in insufficient eligible resources that would be needed for resource adequacy. Solving this issue will require the CAISO to approve major transmission upgrades that sometimes require long lead times to permit and build. SDG&E monitors these issues and actively participates in the CAISO's Transmission Planning Process ("TPP") and CAISO's Generation Interconnection Process, including by responding to competitive solicitations and proposing its own projects when appropriate, such as the SWPL High-Voltage Direct Current ("HVDC") transmission line conversion project.⁶³ The project is expected to be revisited in future planning cycles. Longer term direction regarding the projected cost savings associated with the reduced need for local generation may become more evident based on the results of the Commission's IRP process.

Jurisdictional Agency Permitting Delays: Uncertainty surrounding the timely issuance of key permits associated with CEQA and National Environmental Policy Act ("NEPA") lead agency review continues to create risks for projects under development. The permitting timeline can vary greatly based on a multitude of factors including project location, project specific environmental issues, lead/other agency resources, and public participation. First, this uncertainty may lead to scheduling challenges and corresponding problems with project elements such as site control, financing, permitting, engineering, procurement including supplier and engineering, procurement, and construction ("EPC") contracts. Second, costs to mitigate environmental issues or respond to public concerns can lead to higher than expected costs for developers to complete a project.

⁶² California ISO 2020-2021 Transmission Plan (March 24, 2021) at 234 (*available at* <u>http://www.caiso.com/Documents/BoardApproved2020-2021TransmissionPlan.pdf</u>).

⁶³ California ISO 2018-2019 Transmission Plan (March 29, 2019) at 325 (*available at* <u>http://www.caiso.com/Documents/ISO BoardApproved-2018-2019 Transmission Plan.pdf</u>).

Debt Equivalence and Accounting: Two additional issues may challenge SDG&E's ability to achieve its RPS goals. The first involves debt equivalence. The cumulative debt equivalence of executed PPAs could affect SDG&E's credit profile and, consequently, its financial standing. Rating agencies may include long-term fixed financial obligations, such as PPAs, in their credit risk analysis. These obligations could be treated as additional debt during their financial ratio assessment. Standard and Poors views two core ratios, Funds From Operations ("FFO") to Debt and Debt to Earnings Before Interest, Tax, Depreciation and Amortization, as well as other supplementary ratios, as critical components of a utility's credit profile. Debt equivalence could negatively impact all ratios. Unless this risk is mitigated, a PPA would negatively impact SDG&E's credit profile by degrading credit ratios.

The second issue relates to Accounting Standards Codification ("ASC") 810 Consolidation, which includes the subject of Consolidation of Variable Interest Entities. Application of ASC 810 as it pertains to Consolidation of VIEs could also impact SDG&E's ability to sign new contracts. As part of SDG&E's overall internal review and approval process for new PPAs, SDG&E conducts a review of whether each PPA will be subject to consolidation under ASC 810. Under ASC 810, no renewable PPA has been deemed subject to such consolidation, however, ASC 810 requires SDG&E to perform an evergreen assessment for those contracts which are considered VIEs. For this reason, SDG&E believes that it is required to assess quarterly each contract or category of contracts to ensure continued compliance with ASC 810, to determine whether SDG&E must consolidate a seller's financial information with SDG&E's quarterly financial reports to the Securities and Exchange Commission. The accounting rules can change, thus wind, solar, geothermal and bio-gas sellers could be impacted.

Application of ASC 810 could hinder SDG&E's ability to achieve its RPS goals and add further costs and risk to execution of new renewable contracts. If SDG&E determines that consolidation is required, a seller must open its books to SDG&E and submit financial information, on a quarterly and monthly basis, as specified in SDG&E's contract language for the duration of the relevant agreement. All PPAs are affected by either debt equivalence or ASC 810 requirements. The Commission is aware of the negative impact of debt equivalence on SDG&E's credit profile. AB 57 requires that the Commission adopt procurement plans that, among other objectives, enhance the creditworthiness of the utility. ASC 810 will affect SDG&E's reported financial data and may have a negative impact on SDG&E's balance sheet and/or credit profile. ASC 810 could impact SDG&E's capital structure on a consolidated basis and cause it to be misaligned with its authorized capital structure. To the extent SDG&E must seek to mitigate the impacts of debt equivalence and ASC 810, it will do so through a separate cost of capital filing. **Insufficient Supply of Renewable Resources / Reduced Generation:** As described above under Section IV, SDG&E expects to meet its CP goals through 2030 with its portion of the RPS portfolio after impacts of the Portfolio Optimization Decision are considered and by procuring new renewable resources through a competitive solicitation or bilaterally, as needed.

The majority of the facilities with which SDG&E has contracted are operating, as can be seen in the probability weighted tables in Appendix 1. It is unlikely that an event, or series of events, will undermine SDG&E's ability to procure energy from these resources. However, as discussed more fully in Sections IV and IX, SDG&E has established an MMoP which guards against unforeseen circumstances with projects that are in development and has the option to develop a VMoP.

Unanticipated Curtailment: As explained in more detail below under Section XII, the incidence of curtailment has increased and will continue to do so as more and more intermittent renewable generation is brought online. SDG&E's current strategy inherently addresses curtailment as it seeks to mitigate the need to curtail by procuring a diverse portfolio of resources that account for system needs as described above in Section IV, and by refining its RPS PPA to ensure that the projects that are ultimately built reflect the project as bid, also described under Section IV. Additionally, SDG&E has taken steps in its RPS PPA to provide for economic curtailment rights, and these past RPS PPA modifications are referenced in Section XIII below.

Unanticipated Increases in Retail Sales: SDG&E's retail sales forecast methodology, which is intended to capture both increases and decreases, is explained above under Section IV. It is unlikely that an event or series of events will increase SDG&E's retail sales to a level that would prevent RPS compliance. However, with the proliferation of retail choice, SDG&E will monitor increases in bundled service, for example, by customers opting out of CCA service.

Impact of Potential Delays

SDG&E bases its RPS generation forecasting, and therefore its RNS calculation, on its individual project assessments, as described in more detail in Section IV. For example, a project that has been experiencing permitting issues would receive a probability weighting reduction to account for this risk until the issue is resolved. SDG&E also considers lessons learned and trends it has observed as a result of the RPS procurement process. The factors discussed in this section contribute to SDG&E's continuous assessment of the likelihood of each project's success. The results of these cumulative assessments are reflected in the RNS, which SDG&E will use to inform its procurement activities. SDG&E does not anticipate any RPS compliance delays at this time.

VII. RISK ASSESSMENT

SDG&E's current overall assessment is that projects in its portfolio have a low risk of nonperformance due to SDG&E's expectation that the risk factors mentioned below remain relatively stable. Other factors that could impact SDG&E RPS compliance, such as load departure and variable generation, are also low risk because SDG&E has a REC bank it could use to meet compliance, including the 65% long-term contracting requirement.

Compliance Risk

SDG&E assesses project risk on an ongoing basis utilizing written assessments from developers and periodic status update meetings with developers, especially as it relates to building new resources, delayed construction, and determining whether there is a risk that power will not be delivered. In assessing SDG&E's risk, it is important to first note that SDG&E has fewer projects in development than in prior years, and in general, current project development has been more successful in reaching commercial operation. Given that information, SDG&E's risk assessment is mainly qualitative. For example, SDG&E's RNS includes a delivery failure rate which is the probability weighted deviation below expected forecast generation of projects under development. The probability rate is weighted and is determined qualitatively and supported by historical project failure rates and subject matter expert knowledge and judgment. SDG&E's two projects under development are in the late stages, and SDG&E sees little risk in reaching their commercial operation.

SDG&E may consider using project milestones to establish failure rates, in addition to qualitative measures. This approach inherently incorporates risks related to permitting, transmission development, supply chains and financing, because many of those items allow a project to reach a new milestone. The more milestones a project has reached, the less risky it becomes; thus, it would be given a lower failure rate.

SDG&E periodically evaluates the risk that delivering projects will underperform. In SDG&E's experience, developers are inherently motivated to achieve their COD for their facilities and maintain successful operations due to several factors: (i) the significant investment required to achieve COD; (ii) the timely payments made for energy delivered once COD is reached; and (iii) the penalties incurred if the project does not meet contractual requirements to supply the minimum amount of energy contemplated.

As explained above under Section IV, SDG&E expects to meet its CP goals through 2030 with RPS eligible procurement already under contract. SDG&E's risk of noncompliance is low considering its bank of RECs. If a developing project were to fail, SDG&E could use RECs from its REC bank until SDG&E is able to contract with another renewable facility. The bank has enough

RECs to provide almost 100% of SDG&E's overall RPS procurement quantity requirement for the next 5 years.

Risk Modeling and Risk Factors

As discussed above, SDG&E uses qualitative measures to determine project development risk. SDG&E acknowledges risk associated with other factors, such as lower than expected generation, load departure/growth, variable generation, and resource availability. At this time, SDG&E does not conduct traditional modeling to account for these risks, and instead utilizes a three-year average of prior project deliveries. This approach captures natural fluctuations in deliveries that are likely to continue into the future, including lower than expected generation and variable generation. SDG&E assesses minimal risk associated with resource availability for facilities that rely on biofuel or water for hydro. SDG&E has one bioenergy facility through the BioRAM program and is prohibited from using those RECs towards its compliance requirement. Impacts from resource availability for BioRAM facilities do not affect SDG&E's RPS. Load departure, and associated RPS allocation, is a potential risk for SDG&E and SDG&E included several load departure scenarios with varying levels of load departure attached as Appendices 1b, 1c, and 1d. In these scenarios, it is assumed that LSEs serving departed customers elect 100% of their voluntary allocation. In light of load departure, if used, SDG&E's bank could sustain its SDG&E's RPS compliance through 2030.

SDG&E's consideration of project development risk, generation fluctuation, and load departure are factors SDG&E considers when evaluating its RPS compliance requirements. Importantly, as stated above, SDG&E has a REC bank that may be utilized if an unforeseen circumstance were to occur. Furthermore, SDG&E is above its RPS compliance requirements for several more years, providing an additional buffer to meet RPS compliance requirements.

Diversity & Reliability

As explained under Section IV, a wide variety of procurement programs exist within and in addition to the RPS program. These programs contribute to SDG&E's overall portfolio diversity and support reliability. In addition to information in Section IV, it is important to note that the IRP process prioritizes system reliability. Section XV provides additional information on the IRP process.

Lessons Learned

SDG&E has observed some dynamic factors that may affect power production from delivering projects:

Resource Availability and Variable Generation: Renewable resources depend on natural sources of energy that are variable and can be impacted by various factors. For example, a year with lower than expected wind can greatly impact a wind facility's performance and cause lower than expected generation. Another factor that could also impact generation is the occurrence of unexpected mechanical failures, which could cause a facility to be partially or fully unavailable until the issue can be resolved.

Regulatory Changes: The expiration of subsidies or additional requirements resulting from changes in regulations could lower the revenue stream and increase costs for RPS developers, which in turn could lead to reduced production if the project has difficulty in supporting this lower revenue stream.

Economic Environment: The interest rates and flexibility of financing arrangements entered into by developers can impact a project's success. Long-term project financing arrangements with unfavorable terms can lead to project failure or reduced production if the project has difficulty in supporting the financing cost requirements. Additionally, economic factors that negatively impact a generator's supply chain could impact its ability to comply with contract terms.

Evolving Technology: Facilities with older generation technology that is no longer supported by the manufacturer can experience project failure or reduced production. This problem is arising now for older RPS projects and could occur in the future as the projects built in the past begin to age.

Issues with Third Party Mandatory Systems: CAISO and WREGIS systems have experienced technical issues in the past, and potential technical problems with these systems going forward could complicate the compliance process.

VIII. RENEWABLE NET SHORT

The analysis attached hereto in Appendix 1a shows the Commission's prescribed RNS calculation with supporting probability weighting calculations by project. As mentioned above, SDG&E is including three alternative scenarios, updated as of February 2022, that illustrate the impact to SDG&E RPS position if its retail sales and PCIA eligible RPS portfolio are reduced by 40 percent, 50 percent, or 60 percent respectively and include potential impacts from the IRP MTR procurement order. Appendix 1b represents a 40 percent scenario; Appendix 1c represents a 50 percent scenario; and Appendix 1d represents a 60 percent scenario.

SDG&E intends to monitor the vintage and remaining life of its RECs to maximize their value to the portfolio by retiring them at the most opportune time. This point is discussed in more detail in Section IV.

IX. MINIMUM MARGIN OF OVER-PROCUREMENT

A. Methodology & Inputs

SDG&E has established an MMoP, which is incorporated into SDG&E's RPS eligible procurement volume as shown in its RNS. SDG&E's MMoP is intended to account for project failures or delays and will inform whether additional procurement is needed for SDG&E to achieve its RPS requirements despite project development risks. For example, beginning in 2024, SDG&E's forecasted failure rate for projects in development currently is percent. As a result, SDG&E anticipates an increase in procurement based on the failure rate to compensate for the potential failure. This additional procurement needed to account for this failure rate would vary year by year depending on load. SDG&E has the option to incorporate a VMoP, which is another form of project development risk mitigation. The VMoP further adjusts REC deliveries beyond the MMoP risk adjustment which results in more RECs being needed to meet RPS requirements. SDG&E does not make further adjustments to REC deliveries by using the VMoP due to the limited number of contracts under development and availability of its REC bank. SDG&E's RPS Risk Adjusted⁶⁴ RNS Calculation, as shown in Appendix 1, provides an MMoP and does not include a VMoP.⁶⁵

⁶⁴ Probability weightings are used to adjust estimated deliveries based on the likelihood that each developing project will reach COD, as well as the likelihood that each delivering projects will continue to deliver as estimated. The probability weighting process identifies the volume of generation under contract that SDG&E is likely to receive and be able to apply towards its RPS compliance. Based on this analysis, SDG&E can determine what additional procurement, if any, is necessary to reach its RPS targets while considering project development risk.

⁶⁵ See Row D of the RNS Table in Appendix 1a.

SDG&E's RNS calculation and MMoP methodology for each year is based on the following formula:

RPS Risk-adjusted Net Short = (Bundled Retail Sales Forecast x RPS Procurement Quantity Requirement + Voluntary Minimum Margin of Procurement (if any)) – (Online Generation + Risk-adjusted Forecast Generation + Pre-approved Generic Generation)⁶⁶

Where:

- **Bundled Retail Sales Forecast** = the forecast developed in accordance with Section IV.
- **RPS Procurement Quantity Requirement** = the target for the relevant CP or year.
- Voluntary Minimum Margin of Procurement = zero.
- **Online Generation** = the generation that SDG&E expects will be delivered by its portfolio of RPS projects that have achieved commercial operation, as discussed in Section IV.
- **Risk-adjusted Forecast Generation** = the generation that SDG&E expects will be delivered by its portfolio of RPS projects that have not yet achieved commercial operation, as discussed in Section IV. This volume includes SDG&E's MMoP which is based on a weighted average project failure rate supported by historical project failure rates and subject matter expert knowledge and judgment.
- **Pre-approved Generic Generation** = unsubscribed volumes that SDG&E is required to procure under fully implemented CPUC-mandated procurement programs (RAM and ReMAT).

B. Scenarios

SDG&E's RPS portfolio consists of entirely long-term contracts with facilities that have already commenced commercial operations and two projects that are under development. SDG&E's developing projects are low risk as they are near completion and have a low failure rate. As provided in SDG&E's RNS and alternative RNS scenarios, SDG&E has a substantial REC bank which could be used for compliance if needed. Given these facts, SDG&E's risk of noncompliance with the RPS program requirements is low, therefore its VMoP is currently zero. However, SDG&E continues to monitor its portfolio to determine if impacts from load departure will affect SDG&E's VMoP strategy.

⁶⁶ All generation data listed in any of SDG&E's RPS Plans, as well as any of its RPS Plan Appendices, are from contracts that have been approved or pre-approved by the Commission.

X. BID SOLICITATION PROTOCOL

A. Solicitation Protocols for Renewables Transactions

Lessons Learned

SDG&E will enter into RPS solicitations, as necessary, to meet the applicable RPS requirements and pursue transactions that benefit SDG&E's customers. Competitive bid solicitations, such as RFPs, bring together the largest possible number of market participants to make offers to buy, thus promoting market liquidity and competition. SDG&E regularly evaluates its portfolio needs to determine whether RFPs present advantages to the alternative of bilateral transactions. Through early iterations of the RPS REC sale RFP process, SDG&E identified the importance of adhering to a comprehensively developed schedule when conducting a solicitation. Deliberate planning and anticipating potential delays in the contract execution and approval processes promote meeting all objectives in a timely manner.

Sales Solicitation Documents

Attached hereto in Appendices 9-14 are SDG&E's proposed RPS Sales documents:

- Appendix 9 2021 RPS Sales RFP
- Appendix 10 2021 RPS Sales Model PPA (Bundled Product)
- Appendix 11 2021 RPS Sales Model PPA (Unbundled Product)
- Appendix 12 2021 RPS Sales Offer Form
- Appendix 13 2021 Framework for Assessing Potential RPS Sales CONFIDENTIAL⁶⁷
- Appendix 14 2021 BioRAM RPS Sales Model PPA (Bundled Product)

Assignment or Novation Description

SDG&E may also issue a contract Assignment or Novation RFP and will request approval of any resulting contract Assignment or Novation through a Tier 3 Advice Letter. Assignment and Novation are similar in concept whereby both seek to remove contract benefits and liabilities from one party and transfer those benefits and liabilities to another party. Typically, a Novation would transfer of all benefits and liabilities to a new party, whereas an Assignment may only transfer some benefits or some liabilities, or both. These transactions require all parties' consent. Specific contractual details of the transaction would be set forth in SDG&E's request for approval through a Tier 3 advice letter. D.21-05-030 orders IOUs to request approval to hold an RFI whereby the IOU would reach out to RPS counterparties to determine interest in contract assignments or modifications. The general description below could be applied, with

⁶⁷ Public versions of SDG&E's RPS Plan will include documents with confidential terms redacted.

possible refinement, to accommodate the RFI contemplated in D.21-05-030. As required by the ACR, the following is a description of the solicitation protocols:

Overview: If it is determined that selling RECs provides a greater benefit to SDG&E's customers than banking excess RPS procurement, SDG&E may explore the option of assigning or novating one or more entire RPS contracts to a third-party. Such Assignment or Novation may be done in addition to, or instead of, selling a portion of a portfolio of RPS contracts as described in Appendix 9. This process may present challenges as SDG&E would need to secure approval from the renewable facility prior to the Assignment or Novation of its contract to a third-party buyer.⁶⁸ In cases where SDG&E determines that an RFP for the Assignment or Novation of RPS contacts may be beneficial, it may begin with a small volume to build knowledge and experience over time. The contract Assignment or Novation RFP options may also present advantages to a third-party buyer, for example, portfolio fit. A third-party buyer may prefer a project with a certain geographic location, delivery schedule, technology, or counterparty, and contract assignment may provide this option.

Non-Binding Process: Although SDG&E has not yet held a Contract Assignment or Novation RFP, its RPS Sales RFP process offers a framework from which to design an RFP. SDG&E envisions conducting the Contract Assignment or Novation RFP in a similar manner, and potentially in parallel with, an RPS Sales RFP. SDG&E would anticipate:

- Hiring an IE to oversee the process;
- Taking reasonable measures to ensure renewable facilities that may be assigned or novated remain informed;
- Consulting with PRG before, during and after offers are received;
- Marketing the RFP to a large group of potential Assignees;
- Publishing a clear and transparent set of RFP protocols, including an RFP document, proforma contract, and other necessary documents and/or agreements; and
- Performing an LCBF analysis to determine which bids (if any) would be beneficial for SDG&E's customers.

Following selection of winning bids (if any), SDG&E anticipates allowing both the counterparty(ies) and SDG&E ample time for due diligence and seeking consent from any project prior to the assignment of its contract to a third-party buyer. SDG&E will submit a Tier 3 Advice Letter to the CPUC for approval of any fully executed agreement(s), or a Tier 1 Advice Letter if no agreement(s) result from the RFP.

⁶⁸ Note in most RPS contracts consent to an Assignment cannot be unreasonably withheld.

Assignment and Assumption Agreement: an "assignment and assumption" agreement transfers rights and obligations from SDG&E (as assignor) to the Assignee in the assigned contract(s). A similar agreement could be used for contract Novation. If transfer of the agreement requires compensation, either from SDG&E to the Assignee or the Assignee to SDG&E, the agreement will include such terms. Additionally, SDG&E may need to enter into an agreement with the project that describes the duties, responsibilities, and any additional compensation for the contract to be assigned.

LCBF Analysis: The LCBF analysis for a Contract Assignment or Novation would be similar to that used for SDG&E's RPS Sales RFP, and will include a comparison of the benefits of the contract Assignment or Novation to that of the benefits from banking the RECs. In addition to the factors considered in SDG&E's RPS Sales RFP, Contract Assignment or Novation RFP analysis may include parameters such as payments or credits from either the Counterparty or Project, administration cost savings, decrease in liability for SDG&E's customers, increased transaction viability, and decreased/increased counterparty risk.

B. Bid Selection Protocols

D.22-01-004 authorizes SDG&E to have the option to hold an RPS procurement solicitation. Listed below are appendices related to RPS procurement. SDG&E posts information on current and historical RFOs and RFPs on its website.⁶⁹

- Appendix 5 2021 RPS Long-Term Model PPA
- Appendix 6 2021 RPS Short-Term Model PPA
- Appendix 7 2021 RPS REC Agreement
- Appendix 8 2021 LCBF

C. LCBF Criteria

Workforce Development Assessment Proposal

A Workforce Development Assessment is included as a qualitative factor, which addresses projected California employment growth during construction and operation, within SDG&E's LCBF. The information used in this Assessment will be gathered as part of the required bid information for any solicitations which include renewable resources. The Assessment results will be qualitatively compared among all renewable resource bids within the solicitation which will inform the final bid ranking.

⁶⁹ <u>https://www.sdge.com/more-information/doing-business-with-us/rfps-rfos.</u>

Assessment of Benefits to Disadvantaged Communities

In D.04-07-029, the Commission directed the use of "benefits to low income or minority communities" as a qualitative factor in the LCBF analysis. Consistent with this direction, SDG&E has applied this factor on a qualitative basis along with several other qualitative factors (see Appendix 8 for a full list). Benefits to the community are either described by the developer in the project description form or can be requested by SDG&E if not provided. The results of SDG&E's LCBF analysis (quantitative as well as any additional qualitative) are shared with the PRG and also described in the AL seeking approval for SDG&E's shortlist.

State Policies

SDG&E includes bid evaluation considerations that are policy-related and cannot be quantified in its qualitative bid review process, outlined in Appendix 8, attached hereto. These factors include equity (addressed by the Disadvantaged Communities component), the environment (addressed by environmental stewardship component), and economic development (addressed by the Workforce Development Assessment component). Additionally, to address the issue of safety, SDG&E has added a safety component to the qualitative portion of the LCBF process.

Information-Only TOD Factors

Pursuant to D.19-02-007, SDG&E participated in a stakeholder process to develop informationonly TOD factors, and the Commission approved SDG&E, PG&E's and SCE's May 29, 2019 Joint IOU Information-Only TOD Factor proposal ("TOD Proposal").⁷⁰ SDG&E's approved TOD Factors for 2020 and 2024 are within the Commission-approved May 29, 2019 TOD Proposal, and Appendix 3 includes workpapers to confirm there is a high correlation between the public information-only TOD factors and SDG&E's confidential forecasts, per OP 26 of D.19-12-042.

⁷⁰ D.19-12-042.

XI. SAFETY CONSIDERATIONS

Development and Operation of RPS-Eligible Generation

SDG&E is committed to providing safe, reliable and environmentally sound electric service for its customers. As discussed in Appendix 4, SDG&E's RPS Plan contemplates procurement of RPS-eligible generation through both PPAs and utility owned generation ("UOG"). SDG&E's emphasis on safety is reflected in: (i) the terms and conditions contained in the pro forma PPAs used in its various procurement programs; and (ii) the safety procedures that all contractors working on UOG facilities are required by SDG&E to follow.

RPS Procurement Activities Designed to Address Safety

There are several components to RPS procurement activities designed to address safety such as, vegetation management, climate change impacts, decommissioning facilities, and customer impacts due to Public Safety Power Shutoff ("PSPS") events which are discussed below. Additionally, SDG&E prioritizes safety and includes a safety component in SDG&E's LCBF criteria.

Vegetation Management: SDG&E is also a leader in wildfire safety and mitigation and manages approximately 460,000 trees. SDG&E has also recently begun to incorporate data science into its vegetation management, developing a Vegetation Risk Index of the highest risk trees in its service territory. SDG&E's vegetation management program is aimed at keeping trees and brush clear of electric powerlines and "involves several components including but not limited to: tracking and maintaining a database of inventory trees and poles, routine and enhanced patrolling, pruning and removing hazardous trees, replacing unsafe trees with more situationally compatible species, pole brushing, and training first responders in electrical and fire awareness."⁷¹ SDG&E also manages an interactive map which allows customers to see when vegetation management crews are scheduled to work in their area.⁷²

Regarding procurement activities that relate to safety, as noted above, SDG&E has fulfilled its procurement mandate for the BioRAM program, as discussed above in Section IV. SDG&E has a PPA with a 24 MW BioRAM facility in Wendel, California. SDG&E extended its BioRAM contract by 5 years in accordance with Resolution E-4977, which implements SB 901. BioRAM facilities aid in wildfire

⁷¹ SDG&E 2020-2022 Wildfire Mitigation Plan Update (February 5, 2021) at 263 (available at <u>https://www.sdge.com/sites/default/files/regulatory/SDG%26E%202021%20WMP%20Update%200</u> <u>2-05-2021.pdf</u>).

⁷² Available at <u>https://www.sdge.com/safety/tree-safety</u>.

mitigation efforts removing dead and dying trees from high fire prone areas. This effort is also intended to support sustainable forestry.

Climate Change Impacts: The IRP is tasked with achieving the mandates set forth in SB 100 with respect to reducing greenhouse gas emissions. The efforts taking place in the IRP, which include procurement of renewable resources, will continue to help mitigate the adverse impacts of climate change.

Renewable resources paired with energy storage is one practical solution in some circumstances. Energy storage reduces GHG emissions and prevents climate change. For example, energy storage has the ability of storing solar that is produced during the day and deploying it during the evening peak. This attribute creates flexibility which enables reduced reliance on higher GHG emitting resources, thus reducing climate change impacts.

Decommissioning Facilities: SDG&E contracts with multiple renewable generators, many of which have a useful life after SDG&E's contract with the counterparty has ended. These facilities are highly regulated by the state and the federal government and must abide by regulations made by those governing bodies. SDG&E's pro forma agreements do not address decommissioning as this is a step that occurs, in many cases, after SDG&E's contract has ended. However, SDG&E expects these generators will appropriately decommission their facilities in a manner consistent with the applicable laws.

Customer Impacts During PSPS Events: SDG&E understands that, despite the safety benefits, de-energizations can cause inconveniences. Under certain conditions, SDG&E must prioritize safety by initiating a PSPS event. SDG&E has employed multiple strategies to mitigate impacts to customers and will continue to seek additional strategies in the future.⁷³

SDG&E continues to help mitigate customer impacts by creating programs for customers and exploring new opportunities, such as microgrid technology. For example, the generator grant program was initiated with the goal of providing medical baseline customers with generators that could be used during a PSPS event. This program was so successful that it was expanded in 2020. By 2022, SDG&E estimates providing 4,630 generators to customers to mitigate the impacts of PSPS.

⁷³ More information can be found in the SDG&E 2020-2022 Wildfire Mitigation Plan Update (*available at* <u>https://www.sdge.com/sites/default/files/regulatory/SDG%26E%202021%20WMP%20Update%2002-05-2021.pdf</u>).

During a PSPS event there may be a need to provide support to an impacted community. SDG&E may open a Community Resource Center near the affected area if conditions prolong the estimated outage duration. At this facility, community residents will have access to water, light snacks, and a way to charge small electronic devices, as well as receive the most up-to-date information on the shut-off.

XII. CONSIDERATION OF PRICE ADJUSTMENT MECHANISMS

SDG&E acknowledges that contracts with new facilities having initial online dates occurring more than 24 months after the contract execution date can pose additional risk to customers. SDG&E has incorporated price adjustment mechanisms into some of its current contracts that are intended to alleviate some of these risks, including the following:

Price adjustment, Damages or Default for delay in Guaranteed Commercial Operation Date ("GCOD"): A lower price for a late GCOD provides additional incentive for developers to come online pursuant to the contract. However, this structure can create financing challenges if financing parties are not comfortable with the potentially lower price. It is also difficult to quantify an appropriate price adjustment amount and can lead to drawn out negotiations. A more effective remedy for missing the GCOD is to charge damages to the developer. Projects that are delayed in reaching their GCOD can avoid contract default by paying daily delay damages, which SDG&E has collected from some projects. Collections from these damages are passed on to SDG&E customers. If the GCOD is delayed beyond the maximum period for which daily delay damages are available, the project is in default and SDG&E can terminate the contract.

Capped transmission upgrade costs: Placing a cap on the amount of transmission upgrade costs (which are ultimately borne by customers) that a project can incur is an effective way to limit customer exposure to such costs. This type of cap is especially important for projects that do not yet have an executed interconnection agreement, because there is some chance that transmission upgrade cost estimates could change for these projects. The cap is set as a condition precedent to SDG&E's obligations under the PPA. If estimated upgrade costs exceed the cap, SDG&E has the right not to move forward with the PPA.

Price adjustment for higher than expected transmission upgrade costs:

Another mechanism that SDG&E has successfully incorporated into past contracts is a mechanism whereby the seller agrees to a price reduction to offset higher than anticipated costs for customer-funded transmission upgrades. Under this mechanism, the contract price would be reduced on a dollars per megawatt-hour basis commensurate with the cost of transmission network upgrades above an agreed upon cap. The price adjustment mechanism would include an upper limit on transmission upgrade costs, above which SDG&E can terminate the contract. This mechanism is similar to the cap described immediately above except, rather than giving SDG&E the right not to move forward with the PPA, it gives the developer the choice to either proceed at a reduced price equal to the amount of transmission costs above the cap, or not go forward with the PPA. If the developer chooses the lower price, that lower price acts as a funding mechanism for the additional upgrades, thereby adhering to the projected total customer costs.

Price adjustment for failure to achieve full capacity deliverability status: If a project is not deemed fully deliverable by CAISO at the time of COD, then the PPA price is reduced either through a negotiated amount, or the application of energy-only TOD factors in place of Full Capacity Deliverability Status ("FCDS") factors (for those contracts that include TOD factors) until such time as the project is deemed fully deliverable.

XIII. ECONOMIC CURTAILMENT FREQUENCY, COSTS, & FORECASTING

SDG&E's net load profile shows a pronounced shift toward an evening peak as increased solar generation has begun to offset load during SDG&E's historical peak load hours (mid-day). The shift of SDG&E's net peak into the evening hours becomes more pronounced as more renewable generation (particularly solar) is brought online, as it has over the past several years and will continue to do so as RPS penetration increases.⁷⁴ This shift in peak load periods leads to integration issues, specifically overgeneration, which in turn leads to an increase in economic curtailment orders and negative pricing. The CAISO, the Participating Transmission Owner or distribution operator, or the Buyer (SDG&E) can instruct a generator to curtail (take its power off the grid) to manage excess generation, minimize the effect of negative pricing, and maintain grid reliability. If negative pricing occurs, and generators are not economically curtailed, SDG&E must pay the CAISO to take this power if it is the Scheduling Coordinator for the project – it is important to address and work to mitigate this issue through the valuation and contracting processes. It should also be noted that each year brings with it more information and additional opportunity for refinement of the procurement process.

1. Factors Having the Most Impact on the Projected Increases in Incidences of Overgeneration and Negative Market Price Hours

The issue of curtailment is a result of the operational characteristics of the facilities within the renewable market.⁷⁵ These resources are as-available (i.e., they generate only when the wind is blowing or when the sunlight strikes the panel), and they are negatively affected by atmospherics which interfere with this energy production, such as cloud cover, and they are intermittent. These factors result in generation profiles that do not necessarily follow load.

2. Written Description of Quantitative Analysis of Forecast of the Number of Hours Per Year of Negative Market Pricing for the Next 10 Years

SDG&E forecasts market price profiles by calculating the net load for its service territory. Net load is defined as total customer load minus utility scale solar and wind generation per hour. By definition, when combined solar and wind generation exceeds load in a given hour, this represents a negative pricing condition. SDG&E uses hourly solar and wind profiles that represent the average of the last 3 years of generation for each resource. These hourly resource generation profiles are forecasted to continue until each individual contract ends (which may extend beyond the next ten years). The forecast is modified for any expectation of

⁷⁴ See the CAISO "Duck Chart" available at <u>https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf</u>.

⁷⁵ Both those procured pursuant to the RPS program, as well as customer-side facilities that are incremental to the RPS program under existing rules, specifically net energy metered installations.

contract renewal, "blend and extend," or added solar or wind generation in the future. SDG&E may also adjust its market price profile forecast using observed recent historical price profiles or production cost modeling.

SDG&E's assessment of the planned installation of resources to meet both mandated reliability and GHG targets over the next ten year shows that solar resource additions will be primarily coupled with energy storage so that excess solar energy is utilized and shifted to the net peak or other hours of peak need. For this reason, SDG&E projects that the number of negative price hours over the next ten years will remain relatively constant and will not continue to increase as additional solar is added. Behind the meter solar is also increasingly being coupled with storage for the same reason. The value of new solar resources is no longer to provide peak reliability, since solar has shifted the peak to later in the day, but to provide a clean fuel source for storage which can then provide a significant, clean, reliability contribution.

3. Experience With Managing Exposure to Negative Market Prices and/or Lessons Learned from Other Retail Sellers

SDG&E manages its exposure to negative market prices by having the flexibility to reduce generation when needed. SDG&E's flexibility is the result of negotiating its ability to economically curtail its contracts for renewable generation and using economic bids for its entire dispatchable generation portfolio. Because the CAISO implemented its tariff revisions on May 1, 2014, SDG&E has acted to minimize customer exposure by economically curtailing facilities with which it has this contractual right. These instances have generally followed the same sequence of events: (a) as facility Scheduling Coordinator, SDG&E economically bids energy from a facility into the market; (b) a negative pricing event occurs; (c) the CAISO instructs the facility that was economically bid by SDG&E to dispatch down (curtail); and (d) the facility responds to the extent possible. These actions protected customers by reducing the negative pricing payments made to the CAISO, but SDG&E's ability to curtail its current portfolio is limited by several factors: (a) a few of SDG&E's existing RPS contracts do not contain economic curtailment rights (however, as mentioned below, SDG&E has renegotiated many of its contracts to minimize adverse impacts on customers and continues to negotiate economic curtailment rights to the few remaining contracts); (b) some contracts have operating restrictions which impact their ability to respond immediately to an economic curtailment order; and (c) (where the contract contains economic curtailment rights) SDG&E's ability to economically curtail is limited in some cases to 5 percent of a facility's annual deliveries. SDG&E continues to work with the counterparties to reduce the number of cases where these limitations apply, and to obtain greater rights through contract amendments where the counterparty is willing to amend an existing contract.

D.14-11-042 approved SDG&E's RPS PPA modifications which allow for uncapped economic curtailment rights and require that the generator install the software necessary to receive, respond, and implement a dispatch notice/curtailment order.⁷⁶ That Decision also provided for the incorporation of several provisions allowing payment to the generator for the economically curtailed generation (*i.e.*, what could have been generated but for the economic curtailment). These changes have bolstered grid management efforts and forecasting and provided customer benefits. First, requiring facilities to be equipped to respond to a curtailment order will assist the CAISO in complying with the North American Electric Reliability Corporation ("NERC") reliability standards. Second, this increased ability to manage excess generation could help reduce the incidence of negative pricing events overall, which provides a general benefit to all customers in the State. Third, uncapped economic curtailment will allow SDG&E to better manage the incidence of negative pricing payments made to the CAISO, which also is beneficial to SDG&E's customers.

With respect to the valuation component, the Commission adopted an interim renewable integration cost adder,⁷⁷ which has been incorporated into SDG&E's LCBF calculation attached hereto as Appendix 8. The final adder will be incorporated into the LCBF calculation to enhance its effectiveness in identifying projects with the lowest cost in consideration of the cost of integration. The goal of these changes is to reduce the incidence of curtailment and/or negative pricing. SDG&E looks forward to participating in this process and in the revision of the LCBF calculation as a whole.

4. Direct Costs Incurred, to Date, for Incidences of Overgeneration and Associated Negative Market Prices

SDG&E has been tracking its curtailment actions and results since 2014. Based on data available to date, its curtailment activities have resulted in significant cost savings for SDG&E customers. SDG&E will continue to track this data and report on it as appropriate. SDG&E had a direct cost impact of approximately \$17.5 Million between 2014 to 2020 from incidences of overgeneration and associated negative market prices. This impact was measured by the amount SDG&E paid to the CAISO for generating during times of negative prices, for all SDG&E's resources. The majority of the costs came between 9:00 am and 3:00 pm during the spring months.

⁷⁶ Required software: The Automated Dispatch System ("ADS") and the Application Programming Interface ("API"). See D.14-11-042 at 38.

⁷⁷ D.14-11-042 at 53.

5. An Overall Strategy for Managing the Overall Cost Impact of Increasing Incidences of Overgeneration and Negative Market Prices

To manage the overall cost impact of negative prices going forward, SDG&E will continue renegotiation of dispatch down, scheduling and curtailment provisions of existing RPS contracts. Negative prices affect not just renewable generating resources, but all generating resources. SDG&E mitigates the impact of negative prices to its ratepayers by economically bidding its dispatchable resources to the CAISO. To the extent SDG&E submits cost-based bids reflecting variable costs, it allows the CAISO to reduce generation from SDG&E's resources when they are not needed or uneconomic. Thus, when feasible, SDG&E's resources will have limited generation during incidences of overgeneration.

Energy Storage

Initiatives undertaken outside of the RPS proceeding also have the potential to assist in the management of intermittent generation and the resulting economic curtailment and negative pricing – specifically, the addition of flexible capacity and energy storage resources to the grid has the capability to absorb renewable energy in times of excess for later use. Please see section IV-B for more information on energy storage.

XIV. COST QUANTIFICATION

The tables attached hereto in Appendix 2 provide an annual summary through 2030 of both actual and forecasted RPS procurement costs and generation, by technology type.

XV. COORDINATION WITH THE IRP PROCEEDING

SB 350 added a provision to the Public Utilities Code directing the Commission to implement a holistic IRP process. IRP is a wide-ranging effort at the Commission, undertaken along with input from the CEC and CARB, that would combine the numerous planning processes currently undertaken in separate, resource-specific cases into a single regulatory forum. The IRP process reviews the entire portfolio of resource options to ensure that load-serving entities will achieve the targets established by CARB related to GHG emission reductions, while also ensuring reliability and affordability.

However, as of now, RPS procurement remains a composite of several different and separate procurement programs and targets, each with its own history and set of Commission directives. As described above, these RPS programs do not necessarily address a customer need for additional RPS procurement on a program-by-program basis. Nor do these programs take into consideration their cost-effectiveness compared to other resources, including RPS resources. Further, the RPS program-specific approach of the past does not factor in grid implications in the broader context. Nonetheless, each of these major, omitted elements is necessary to ensure that electricity customers receive the least-cost best-fit resources that are reliable and cost-effective.

SDG&E recommends that, for the benefit of the State's electricity consumers, that the Commission fully utilize the IRP process to create a sea-change away from siloed, projectspecific RPS and reliability procurement and towards the statutorily mandated framework of considering first, consumers' needs and then considering all available resources on a comparative basis to meet those needs, consistent with applicable laws and regulations. In large part, the RPS proceeding should implement RPS procurement determinations made in the upstream IRP proceeding, rather than in isolation of that proceeding, which is currently the case. The benefits of removing the longstanding and outdated RPS program-by-program approach to RPS procurement and fully embracing the IRP mechanism will inure to customers. SDG&E will continue to urge the Commission to accelerate these efforts.

Regarding coordination, the Commission expects that the IRP and RPS Plans will begin to align starting in the 2021-2022 IRP cycle.⁷⁸ The table below summarizes how SDG&E's 2021 RPS Plan and renewable procurement conforms with the determinations made in the IRP Proceeding.

⁷⁸ ACR at 31.

| IRP Section Subsection | RPS Alignment in IRPs |
|--|---|
| III. Study Results A. Preferred and Conforming Portfolios | SDG&E's 2020 IRP contemplates no resource need for SDG&E due to its long position and considering load departure. However, the most recent PCIA Decision, D.21-05-030, orders SDG&E to reduce its portfolio which creates uncertainty. At the same time, the IRP Mid- Term Procurement Decision orders SDG&E to procure 361 MWs, 31 MWs of which may count towards SDG&E's RPS procurement requirements. ⁷⁹ |
| IV. Action Plan A. Proposed Activities | The 2017-2018 cycle of the IRP resulted in a Procurement Track Decision whereby SDG&E is required to procure for its bundled customers, and on behalf of other LSEs in its service territory, that opt out or fail to procure their mandated procurement volume. ⁸⁰ RPS resources were eligible resources within the IRP Procurement Track solicitation and ultimately, SDG&E selected primarily battery storage resources and a hybrid solar/battery resource. The Commission issued its IRP Mid-Term Procurement Decision and SDC 8 F is responsible for 261 MWs some of which may be RPS eligible |
| | SDG&E is responsible for 361 MWs, some of which may be RPS eligible. While SDG&E's individual IRP, filed in 2019, shows no need for new procurement, the Commission is grappling with methodologies that assess individual LSE reliability needs. The Commission's analysis is still under development, and as such, SDG&E expects it will procure eligible resources contemplated for mid-term reliability needs, which may include eligible renewable resources. |
| | The next cycle of the IRP will have more information related to portfolio optimization progress as ordered in the Portfolio Optimization Decision. Depending on the volume of RPS allocated or sold, and any changes to the GHG reduction targets, SDG&E may have a future need for resources. |
| IV. Action Plan B. Procurement Activities | Per D.19-11-016 the Commission ordered procurement within the IRP for the purpose of ensuring reliability and allocated amounts to LSEs across the state. SDG&E was ordered to procure 292.9 MWs of the total amount. The Commission also ordered IOUs to procure on behalf of LSEs that "opt-out" of procurement. |

⁷⁹ See Footnote 4, *supra*.

⁸⁰ D.19-11-016.

| IRP Section Subsection | RPS Alignment in IRPs |
|---|--|
| | As the result of "opt-out" decisions by LSEs in its service territory, SDG&E was required to procure an additional 8.4 MW, for a total SDG&E procurement obligation of 301.3 MW. On January 14, 2021, the CPUC partially approved AL 3605-E in Resolution E-5117 for 144 MW of capacity expected to come online by August 1, 2021. The Commission denied 20 MWs of utility owned battery storage which was later included in procurement undertaken in the Summer Reliability OIR. SDG&E submitted AL 3689 -E and AL 3689-E-A which are approved effective March 18, 2021. |
| | SDG&E submitted AL-3666 requesting approval of 140 MWs which was approved in Resolution E-5139. |
| | As discussed above, the Commission has identified a mid-term need, and ordered SDG&E to procure 361 MWs, which may include renewable resources. SDG&E is currently administering the RFO for this IRP MTR procurement Order. |
| IV. Action Plan C. Potential Barriers | In its Conforming portfolios which assumed no allocation of the supply portfolio, SDG&E reported it has no near-term or long-term procurement need to satisfy requirements of the RPS program and does not intend to procure to meet RPS through the IRP However, the IRP recently issued its IRP MTR procurement Order that ordered significant procurement within an aggressive timeline, including, potential resources that are RPS eligible. |
| | Additionally, the Portfolio Optimization Decision creates uncertainty with respect to the volume of RPS SDG&E will allocate or sell. Also, the RFI could also result in a reduction to SDG&E's portfolio. Because of these possibilities, and the need identified in the IRP, SDG&E is authorized to have an option to hold an RPS solicitation in the 2021 RPS Plan cycle. |
| | Regarding retirement of RPS resource in SDG&E's portfolio, SDG&E's conforming portfolios do not identify an RPS need after those resources are removed from the analysis at the time they are ending. |

XVI. OTHER RPS PLANNING CONSIDERATIONS AND ISSUES

SDG&E has no additional considerations and issues to discuss at this time and reserves the right to add to this section in subsequent versions of its RPS Plan as circumstances warrant.

Appendix 1a

Renewable Net Short

SDG&E Renewable Net Short for RPS Procurement – February 17, 2022:

The appendices herein provide the data behind SDG&E's RPS Risk Adjusted Net Short Calculation as of February 2022. They include the outputs required by the Administrative Law Judge's Ruling on Renewable Net Short, dated May 21, 2014, and have been updated to reflect the banking rules adopted under D.17-06-026. A discussion of this analysis is provided in Section IV.

SDG&E is including three alternative scenarios to illustrate potential impacts from load departure and the VAMO. These scenarios illustrate load departure of 40, 50, and 60 percent and use retail sales forecast that do not reflect load departure taken from SDG&E's Final 2019 RPS Plan. SDG&E's PCIA eligible RPS portfolio is reduced respectively by the percentage of load departure to show the potential impact of VAMO. SDG&E's methodology to calculate the PCIA eligible portfolio volumes is consistent with the approach proposed in Advice Letter 3835-E. Analysis assumes the maximum number of allocations or sales contemplated in the VAMO process for any respective scenario. For example, if 40 percent of SDG&E's load departs, the most its portfolio can be reduced through VAMO is by 40 percent.

SDG&E also includes impacts of the IRP's midterm reliability procurement order in which SDG&E adds RPS volumes to its portfolio during the time horizon.

Renewable Net Short Calculations - 2021 RPS Procurement Plans

| Date Filed: | 2/17/2022 | | | | | | | | | | | | | |
|-------------|----------------------------|--|-------------|-------------|-------------|-------------|-------------------|-----------------------------|-----------------------------|----------------|---------------|---------------|---------------|--------------|
| nall a | and a second second second | | | | | | | | | | | | | |
| Variable | Calculation | Item | 2017 Actual | 2018 Actual | 2019 Actual | 2020 Actual | 2017-2020 2021 Fo | 2021 Forecast 2022 Forecast | 2023 Forecast 2024 Forecast | ast 2021-20.24 | 2025 Forecast | 2026 Forecast | 2027 Forecast | 2025-2027 |
| | | Forecast Y ear | | | | | CP3 1 | 1 2 | 3 | CP4 | s | 9 | 2 | CP 5 |
| | | Annual RPS Requirement | | | | | | | | | | | | |
| < | | Total Rehail Sales (MWh) | 15,618,767 | 15,036,269 | 14,277,607 | 14,270,246 | 59,202,859 | | | | 7,051,483 | 7,045,554 | 7,058,373 | 21,155,410 |
| в | | RIS Procurement Quantity Requirement (%) | 52.0% | 29.0% | 31.0% | 33.0% | 29.9% | | | | 46.7% | 46.2% | 52.0% | |
| С | A*B | Gross RPS Procurement Quantity Requirement (MWh) | 4,217,067 | 4,360,518 | 4,426,058 | 4,709,181 | 17,712,824.4 | | | | 3,290,927 | 3,475,572 | 3,670,354 | 10,436,853.0 |
| D | | Voluntary Margin of Over-procurement (MWh) | 0 | 0 | 0 | 0 | | | | | 0 | 0 | 0 | |
| Е | C+D | Net RPS Procurement Need (MWh) | 4,217,067 | 4,360,518 | 4,426,058 | 4,709,181 | 17,712,824 | | | | 3,290,927 | 3,475,572 | 3,670,354 | 10, 436,853 |
| | | RPS-Eligible Procurement | | | | | | | | | | | | |
| Fa | | Risk-Adjusted RECs from Online Generation (MWh) | 6,933,773 | 617/15/9 | 6,615,096 | 6,302,576 | 26,582,864 | | | | 5,919,440 | 5,745,600 | 5,741,379 | 17,406,419 |
| Faa | | Forecast Failure Rate for Online Generation (%) | 0.0% | 200% | \$0.0% | 20.0% | 0.0% | | | | 20.0 | 0.0% | 0.0% | 500 |
| Fb | | Risk-Adjusted RECs from RPS Facilities in Development (MWh) | • | • | | • | • | | | | 99,523 | 99,523 | 99,523 | 298,569 |
| Fbb | | Forecast Failure Rate for RPS Facilities in Development (%) | 0.0% | 0.0% | 20.0% | 20.0% | 0.0% | | | | 15.0% | 15.0% | 15.0% | 15.0% |
| К | | Pre-Approved Generic RECs (MWh) | | | | • | | | | | | | | |
| Fd | | Executed REC Sales (MWh) | | 130,000 | 1,008,000 | 740,750 | 1,878,750 | | | | | | | |
| F | Fa+Fb+Fc-Fd | Total RPS Eligible Procurement (MWh) | 6,933,773 | 6,601,419 | 5,607,096 | 5,561,826 | 24,704,114 | | | | 6,018,963 | 5,845,123 | 5,840,902 | 17,704,989 |
| FO | | Category 0 RECs | 2,368,303 | 2,294,240 | 2,167,158 | 2,192,568 | 9,022,2.69 | | | | 1,514,363 | 1, 363,359 | 1,363,350 | 4,241,062 |
| H | | Category 1 RECs | 4,565,470 | 4,307,179 | 3,439,938 | 3,269,258 | 15,681,845 | | | | 4,504,610 | 4,481,764 | 4,477,552 | 13,463,927 |
| F2 | | Category 2 RECs | | | | | | | | | | | | |
| F3 | | Category 3 RECs | | | | | | | | | | | | |
| | | Gross RPS Position (Physical Net Short) | | | | | | | | | | | | |
| Ga | F-E | Annual Gross RPS Position (MWh) | 2,716,706 | 2,240,901 | 1,181,038 | 852,645 | 6,991,2.90 | | | | 2,728,036 | 2, 369,552 | 2,170,548 | 7,268,136 |
| Gb | F/A | Annual Gross RPS Position (%) | 44% | 44% | 39% | 39% | 42% | | | | 85% | 83% | 83% | 84% |
| | | Application of Bank | | | | | | | | | | | | |
| Ha | J-Hc (from previous CP) | Existing Banked RECs above the PQR | 7,045,016 | 9,761,654 | 12,002,495 | 13,183,453 | 7,045,016 | | | | 26,786,950 | 29,514,986 | 31,884,538 | 26,786,950 |
| Hb | | RECs above the PQR added to Bank | 2,716,638 | 2,240,841 | 1,180,958 | 852,525 | 6,990,962 | | | | 2,728,006 | 2,369,552 | 2,170,548 | 7,268,136 |
| Hc | | Non-bankable REGs above the PQR | 68 | 60 | 80 | 120 | 328 | | | | | | | • |
| Н | Ha+Hb | Gross Balance of REGs above the PQR | 9,761,654 | 12,002,495 | 13,183,453 | 14,035,978 | 14,035,978 | | | | 29,514,986 | 31,884,538 | 34,055,085 | 34,055,085 |
| Ia | | Planned Application of REGs above the PQR towards RPS Compliance | | | | | • | | | | | | | • |
| Ib | | Plarmed Sales of RECs above the PQR | | | | | | | | | | | | |
| 1 | H-Ia-Ib | Net Balance of RECs above the PQR | 9,761,654 | 12,002,495 | 13,183,453 | 14,035,978 | 14,035,978 | | | | 29,514,986 | 31,884,538 | 34,055,085 | 34,055,065 |
| jo | | Category 0 RECs | 4,672,570 | 5,495,687 | 5,924,757 | 6,226,306 | 22,319,3.20 | | | | 11,503,269 | 12,104,033 | 12,625,730 | 36,233,032 |
| 71 | | Category 1 RECs | 5,089,084 | 6,506,808 | 7,258,696 | 7,809,672 | 26,664,2.60 | | | | 18,011,717 | 19,780,505 | 21,429,355 | 59,221,577 |
| 32 | | Category 2 RECs | | | | • | | | | | | | | |
| | | Expiring Contracts | | | | | | | | | | | | |
| К | | REGs from Expiring RPS Contracts (MWh) | 21,344 | 87,459 | 183,615 | 539 | 292,957 | | | | 152,963 | 3,980 | 109 | 157,063 |
| | | Net RPS Position (Optimized Net Short) | | | | | | | | | | | | |
| La | Ga+Ia-Ib-Hc | Annual Net RPS Position after Bank Optimization (MWh) | 2,716,638 | 2,240,841 | 1,180,958 | 852,525 | 6,990,962 | | | | 2,728,036 | 2,369,552 | 2,170,548 | 7,268,136 |
| | | | 10.00 | 1.000 | | | 201 | | | | 7 20 | 200 | 00.00 | 110 |

0 4,250,824

0 0 3,869,070 4,072,284

4,250,824

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7,077,135 54.7% 3,869,070

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7,103,233

cast

5,739,158 0.0% 99,523 15.0%

5,740,805 0.0% 99,523

5,741,037 0.0% 99,523 15.0%

39,352,478 13,757,322 25,905,156 -

37,794,621 13,450,190 24,344,431

36,026,576 13,073,474 22,933,102 -

35,483

.

. 1,971,491 83 %

8,045

37,794,621 1.567,867 1,557,857 82 %

36,026,576 1,768,045

34,055,065 1,971,491

39,352,478

37,794,621

36,026,576

5,838,681 1,363,240 4,475,441

1,363,240 4,477,088

1,363,240 4,477,320

5,840,328

5,840,560

.

1,768,045 82%

1,971,491 83 %

Note: All values are to be input in MWhs

| Project Notes N/A N/A | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------|--|--|--|--|--|--|---|--|--|---|--|--|--|---|---|--|---|--|--|--|---|
| Total Contract Volume Project Notes 1,174,290 N/A 583,500 N/A | | | | | | | | | | | | | | | | | | | | | | | |
| Annual Generation To 58,715 58,350 58,350 | | | | | | | | | | | | | | | | | | | | | | | |
| v/dd/ywyl ContractCapacity Expected A 20 10 | | | | | | | | | | | | | | | | | | | | | | | _ |
| rract End Date (mr 7/1.4/2042 5/31/2033 | | | | | | | | | | | | | | | | | | | | | | | |
| (dd/yyyContract Start Date (mm/dd/ywyCon 7/15/2022 6/1/2023 | | | | | | | | | | | | | | | | | | | | | | | |
| 4/19/2018 4/19/2018 12/23/2020 | | | | | | | | | | | | | | | | | | | | | | | |
| Contract Length (Years) 20 10 | | | | | | | | | | | | | | | | | | | | | | | |
| te Longitude 14115.503 11118.0567 | | | | | | | | | | | | | | | | | | | | | | | |
| Zip Code Latitude 92257 33.2694 90720 33.7941 | | | | | | | | | | | | | | | | | | | | | | | |
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| City Niland Los Alamitos | | | | | | | | | | | | | | | | _ | _ | | | | | | |
| Project Development Phase Construction Pre-Construction | | | | | | | | | | | | | | | | | | | | | | | |
| Technology Type Solar PV Hybrid | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name Wister Solar Bright Carryon | | \square | | | | | | | T | | | T | | | | | | | ſ | | | | |
| RPS Contract ID SD 5081 SD 5083 | | | | | | | | | | | | | | | | | | | | | | | |
| Reporting LSE Name San Diego Gas & Electric San Diego Gas & Electric | | | | | | | | | | | | | | | | | | | | | | | |

Appendix 1b

Alternative Renewable Net Short 40% Scenario + IRP Midterm Procurement

Renewable Net Short Calculations - 2021 RPS Procurement Plans

| All of the second sec | 31 | 2018 2018 2018 2018 2018 2018 2018 2018 | Vetaal 2019 Aread 2019 Aread 2019 Aread 2016 Aread 14,277,097 2016 Aread 14,277,097 2016 Aread 14,277,097 2016 Aread 14,277,097 2016 Aread 1,057 2017 Aread 4,255,097 2018 Aread 4,256,097 2019 Aread 0,057 2018 Aread 0,057 2019 Aread 0,057 2019 Aread 1,050,007 | 2001 Actual 2001 Actual 07 14,270,346 38 0 4,709,381 39 0,300,576 37 0,075 37 0,075 | 2017-2020 CP 3 59,202,889 20,9% 17,712,82444 | 2021Forecast 20 1 | 202 Foreast 2023 Foreast 2 | recast 2004 Forecast 4 | 2021-2024 CP-4 | 2025 Ferrecast 20 | 2026 Forecast 20 6 | 2027 Forecast 7 | 2025-2027 2025 CP 5 | 2028 Forecast 2029 Forecast 8 9 | ecast 2000 For ccast | 3(|
|---|--------------------------|---|--|--|--|----------------------|----------------------------|------------------------|-------------------|-------------------|-----------------------|--------------------|------------------------|---------------------------------|--------------------------|------------------|
| Calculation Arth Corp Corp Fartherford | | 2016 0 0 0 0 2 2 2 0 2 0 2 0 1 1 0 1 | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 2020 2030 258 58 58 58 58 58 58 58 58 58 58 58 58 5 | 2017-2020 CP 3 59,202,889 29,9% 17,712,82444 | | | | | | | | | H | | μ |
| Att | | | | | | - | - | 7 | CP4 | ß | 9 | 7 | CP 5 | 8 | - | |
| A15 CrtD TarlbHold | | | | | | | | | | | | Ì | | | 4 | CP 6 |
| A9 C+D C+D Ferlerlotd | | | | | | | | | | | | | | | - | |
| Att Celo Celo Celo Celo Celo Celo Celo Celo | | | | | | | | | | 508'520'6 | 9,025,565 | 8,980,899 | 27,032,298 | 8,920,426 8, | 8,958,290 8,996,329 | 329 26,875,046 |
| A% C+D Tarbblotd | | | 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | 46.7% | 49.3% | 52.0% | 49.3% | 54.7% | 57.3% 6 | 60.0% 57.3% |
| Cit | | | 0 4 6 1 3 5 | | | | | | | 4,212,356 | 4,452,311 | 4,670,067 | 13,334,735.3 | 4,876,797 5, | 5,135,788 5,397,798 | 798 15,410,382.4 |
| C+D FarbHold | | | 4 6 1 5 | | | | | | | 0 | 0 | 0 | | 0 0 | 0 | |
| Tertholocid | | | | 6,3 | 17,712,824 | | | | | 4,212,356 | 4,452,311 | 4,670,067 | 13,334,735 | 4,876,797 5, | 5,135,788 5,397,798 | 798 15,410,382 |
| Far Far Lord | | | | 6,30 | | | | | | | | | | | | |
| Fartheficitd | 6.90 4.52 | | 1,0,2,5,6,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1 | | 26,582,864 | | | | | 5,919,440 | 5,997,618 | 5,993,397 | 17,910,455 | 5,993,055 5, | 5,992,823 5,991,176 | 17,977,055 |
| FatEriold | 688 4.52 | | 1,0 | | 0.0% | | | | | 20.0 | 20.0% | 0.0% | 0.0% | 0.0% | 0.0% | 20.0 20.0 |
| Fartbrickd | 6.9 2.24 | | 1,0 | | • | | | | | 523'66 | 99,523 | 99,523 | 298,569 | 99,523 | 99,523 99 | 99,523 298,569 |
| FatEbFoFd | 648 2.00 | | | | 0.0% | | | | | 15.0% | 15.0% | 15.0% | 15.0% | 15.0% | 15.0% 11 | 15.0% 15.0% |
| Fa+Fb+Fo-Fd | 6,938 2,350 4,550 | | - 14 | | | | | | | | | | • | | | |
| Fa+Fb+Fc-Fd | 698 236 4,56 | | | 00 740,750 | 1,878,750 | | | | | 2,407,585 | 2,338,049 | 2,336,361 | 7,081,995 | 2,336,224 2, | 2,336,131 2,335,472 | 172 7,007,828 |
| | 2346 | | | 2 | 24,704,114 | | | | | 3,611,378 | 3,759,092 | 3,756,559 | 11,127,029 | | 3,756,215 3,755,227 | 227 11,267,796 |
| | 4,560 | | ,240 2,167,158 | 2,192,568 | 9,022,269 | | | | | 1,166,822 | 1,105,385 | 1,105,376 | 3,377,583 | 1,105,266 1, | 1,105,266 1,105,266 | 3,315,799 |
| | | | 3,179 3,439,938 | 3,269,258 | 15,681,845 | | | | | 2,444,556 | 2,653,707 | 2,651,183 | 7,749,446 | 2,651,088 | 2,630,949 2,649,960 | 2661562 2621682 |
| | | | | - | | | | | | | | | | | | |
| | _ | | | | | | | | | | | | | | | |
| Gross RPS Position (Physical Net Short) | | | | | | | | | | | | | | | | |
| Ga F-E Annual Gross RPS Position (MWh) | 2,731 | 2,716,706 2,240,901 | (901 1,181,038 | 38 852,645 | 6,991,290 | | | | | (600, 97%) | (693,219) | (913,508) | (2,207,706) | (1,120,443) (1, | (1, 379,573) (1,642,571) | 571) (4,142,586) |
| Gb F/A Annual Gross RPS Position (%) | | 44% | 44% 3% | 39% 39% | 42 % | | | | | 40% | 42% | 42 % | 41% | 42% | 42% | 42% 42% |
| Application of Bank | | | | | | | | | | | | | | | | |
| Ha J-Hc (from previous CP) Existing Banked RECs above the PQR | 2,08 | | 664 12,002,495 | 13 | 7,045,016 | | | | | 17,530,684 | 16,929,706 | 16,236,486 | 17,530,684 | 15,322,978 14, | 14,202,535 12,822,963 | 963 15,322,978 |
| Hb RECs above the PQR added to Bank | 2,71i | 2,716,638 2,240,841 | | 82,525 | | | | | | | | | | | | |
| Hc Non-bankable REGs above the PQR | | | | | | | | | | | | • | | | | |
| H Ha+Hb Gross Balance of REGs above the PQR | | 9,761,654 12,002,495 | 13,183,453 | 53 14,035,978 | 14,035,978 | | | | | 17,530,684 | 16, 929,706 | 16,236,486 | 17,530,684 | 15,322,978 14, | 14, 202,535 12,822,963 | 963 15,322,978 |
| Ia Planned Application of REG above the PQR towards RPS Compliance | 8 towards RPS Compliance | | | - | | | | | | 600,978 | 693,219 | 913,508 | 2,207,706 | 1,120,443 | 1,379,573 1,642,571 | 571 4,142,586 |
| Ib Planned Saks of RECs above the PQR | | | | | | | | | | | | | | | | |
| J H-Ia-Ib Net Balance of RECs above the PQR | 6/26 | | 1 | | | | | | | 16,929,706 | 16, 236, 486 | 15,322,978 | 15, 322, 978 | | | |
| J0 Category 0 RECs | 4,67. | | | | | | | | | 6,960,926 | 6,587,341 | 6,140,766 | 19,689,033 | | | |
| J1 Category 1 RECs | 5,08. | 5,089,084 6,506,808 | /808 7,258,696 | 96 7,809,672 | 26,664,2.60 | | | | | 9,968,779 | 9,649,145 | 9,182,212 | 28,800,137 | 8,575,202 | 7,795,640 6,839,907 | 907 23,210,750 |
| J2 Category 2 RECs | | | | | | | | | | | | | | | | |
| Expiring Contracts | | | | | | | | | | | | | | | | |
| K RECs from Expiring RPS Contracts (MWh) | | 21,344 87, | 87,459 183,615 | 15 539 | 292,957 | | | | | 152,963 | 3,980 | 109 | 157,063 | | . 35 | 35,483 35,483 |
| Net RPS Position (Optimized Net Short) | | | | | | | | | | | | | | | | |
| La Ga+Ia-Ib-Hc Annual Net RPS Position after Bank Optimization (MWh) | | 2,716,638 2,240,841 | 1,180,958 | 58 852,525 | 6,990,9.62 | | | | | (0) | 0 | (0) | 60 | (0) | (0) | (0) (0) |
| Lb (F+ls-Ib-Hc)/A Annual Net RPS Position after Bank Optimization (%) | | 44.4% 43 | 43.9% 39.2 | | 41.7% | | | | | 46.7% | 49.3% | 52.0% | 49.3% | 54.7 % | 57.3% | 60.0% 57.3% |

Note: All values are to be input in MWhs

Appendix 1c

Alternative Renewable Net Short 50% Scenario + IRP Midterm Procurement

Renewable Net Short Calculations - 2021 RPS Procurement Plans

| 2025-2030 | 0.000 Jacob | CP 6 | 12,395,871 | 2 57.3% | 12,841,985.3 | | 12,841,985 | | 17,977,055 | \$000 | 298,569 | 15.05 | • | 8,759,78 | 9,515,839 | 3,122,319 | 6,393,520 | | | | (3,326,146 | 42% | | 15,751,586 | | | | 3,326,146 | • | | | 24,436,497 | • | | 35,483 | | 0) | 57.3% |
|--|-----------------------|---------|---|-------------------------|---|---------------|---|--------------------------|---|-----------------|---|---------------------|---------------------------------|-------------------------------|---|---|---|----------------|-----------------|---|---------------------------------------|-----------------|---------------------|--|---------------------------------------|--|--|---|---|--|---|---|----------------|---------------------|---------------------------|--|---------------------------------------|-------------------------|
| 2030 Forecast | 100001010100000 | 10 | 116'961'2 | 60.0% | 4,498,165 | 0 | 4,498,165 | | 5,991,176 | \$0.0% | 525'66 | 15.0% | • | 2,919,341 | 3,171,359 | 1,040,773 | 2,130,586 | | | | (1,326,806) | 42% | | 13,752,246 | | • | 13,752,246 | 1,326,806 | | | | 7,434,794 | | | 35,483 | | - 0 | 60.0% |
| 2029 Forecast | MARY AND AND | 6 | 7,465,242 | 27.3% | 4,279,823 | 0 | 4,279,823 | | 5,992,823 | \$0.0 | 99,523 | 15.0% | • | 2,920,164 | 3,172,182 | 1,040,773 | 2,131,409 | | | | (1,107,641 | 42% | | 14,859,887 | | | 1 | 1,107,641 | | 13,752,246 | | 8,192,178 | | | | | (0) | 27.3% |
| 2028 For ecast | A CONTRA BY A CONTRA | 8 | 2,433,688 | 54.7% | 4,063,997 | 0 | 4,063,997 | | 5,993,055 | 50.0 | 525'66 | 15.0% | • | 2,920,280 | 3,172,298 | 1,040,773 | 2,131,525 | | | | (669'168) | 43% | | 15,751,586 | | | 15 | 669'168 | | 14,859,887 | | 8,809,525 | | | | | | 54. |
| 202-202 | NOT THE | CP 5 | 22,526,915 | 49.3% | 11,112,279.4 | | 11,112,279 | | 17,910,455 | 20.0% | 298,569 | 15.0% | • | 8,852,494 | 9,356,530 | 3,161,713 | 6,194,817 | | • | | (0,755,749) | 42% | | 17,507,335 | | • | 17,507,335 | 1,755,749 | | 15,751,586 | 20,368,930 | 25,860,016 | | | 157,063 | | (0) | 49.3% |
| 2027 Forecast | 100120111111 | 2 | 7,484,082 | 52.0% | 3,891,723 | 0 | 3,891,723 | | 5,993,397 | 0.0% | 99,523 | 15.0% | | 2,920,451 | 3,172,469 | 1,040,882 | 2,131,587 | | | | (719, 254) | 42 % | | 16,470,840 | | • | 16,470,840 | 719,254 | | 15,751,586 | 6,461,965 | 9,289,621 | | | 109 | | • | 52.0% |
| 2026 Forecast | MANAGE AND | 9 | 7,521,305 | 49.3% | 3,710,260 | 0 | 3,710,260 | | 5,997,618 | 500 | 99,523 | 15.0% | • | 2,922,562 | 3,174,580 | 1,040,891 | 2,133,688 | | | | (535,680) | 42% | | 17,006,520 | | | 17,006,520 | 535,680 | | 16,470,840 | 6,811,895 | 9,658,945 | | | 3,980 | | 0 | 49.3% |
| 2025 Forecast | 100000101010 | ıΩ | 7,521,528 | 46.7% | 3,510,297 | 0 | 3,510,297 | | 5,919,440 | 50.0 | 99,523 | 15.0% | • | 3,009,482 | 3,009,482 | 1,079,940 | 1,929,542 | | | | (500,815) | 40% | | 17,507,335 | | • | 17,507,335 | 500,815 | | 17,006,520 | 7,095,070 | 9,911,450 | | | 152,963 | | (0) | 46.7% |
| 2021-2024 | | CP4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2024 Forecast | NUMBER & LONG | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | - | _ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2023 Forecast | 10000010101000 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2022 Forecast 2023 Forecast | t | 2 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ACCESSION & ACCESSION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2022 Forecast | | | 685,202,689 | 20.9% | 17,712,824.4 | • | 17,712,824 | | 26,582,864 | 50.0 | • | 20.0 | • | 1,878,750 | 24,704,114 | 692,220,6 | 15,681,845 | | • | | 6,991,290 | 42% | | 7,045,016 | 6,990,962 | 325 | 14,035,978 | • | • | 14,005,978 | 22,319,320 | 26,664,260 | • | | 292,957 | | 6,990,962 | 41.7% |
| 2021 Fenerast 2022 Forecast | | 1 2 | 14,270,246 59,202,889 | 33.0% 29.9% | 4,709,181 17,712,824,4 | 0 0 | 4,709,181 17,712,824 | | 6,302,576 26,582,864 | 20.0 20.0 | • | 0.0% 0.0% | • | 740,75.0 1,878,750 | 5,561,826 24,704,114 | 2,192,568 9,022,269 | 3,269,258 15,681,845 | • | • | | 852,645 6,991,290 | 39% 42% | | | 852,525 6,990,962 | | 14,035,978 14,035,978 | • | • | 14,035,978 14,005,978 | 10 | 7,809,672 26,664,260 | • | | 53.9 292, 957 | | | |
| 2017-2020 2021 Ferrecast 2022 Forecast | | 1 2 | | -8 | | 0 0 | | | | | • | | • | | | | | • | | | | | | 5 13,183,453 | | 120 | | • | • | | 6,226,30.6 | | · · | | | | | |
| 2020 Actual 2017-2020 2021 Ferevant 2022 Forevant | | 1 2 | 14,270,246 | 6 33.0% | 4,709,181 | | 4,709,181 | | 6,302,576 | 500 5 | • | 5000 | • | 740,750 | 5,561,826 | 2,192,568 | 3,269,258 | • | | | 852,645 | 39% | | 12,002,495 13,183,453 | 852,525 | 80 120 | 14,035,978 | • | | 3 14,035,978 | 5,924,757 6,226,306 | 7,809,672 | · · · | | 539 | | 2,240,841 1,180,958 852,525 | 43.9% 39.3% 39.0% |
| 2019 Archinal 2020 Archinal 2017-2020 2021 Foreveast 2022 Foreveast | | 1 2 | 14,277,607 14,270,246 | 33.0% 33.0% | 4,426,058 4,709,181 | | 4,426,058 4,709,181 | | 6,615,096 6,302,576 | 200 200 | • | 500 500 | | 1,008,000 740,750 | 5,607,096 5,561,826 | 2,167,158 2,192,568 | 3,439,938 3,369,258 | • | | | 1,181,038 852,645 | 39% | | 9,761,654 12,002,495 13,183,453 | 1,180,958 852,525 | 60 80 120 | 13,183,453 14,035,978 | • | | 13,183,453 14,035,978 | 5,495,687 5,924,757 6,226,306 | 7,258,69.6 7,809,67.2 | • | | 183,615 539 | | 1,180,958 852,525 | 43.9% 39.3% 39.0% |
| 2015 Actual 2019 Actual 2020 Actual 2017-2020 2021 Forevest 2022 Forevest | | 1 2 | 15,618,767 15,006,269 14,277,607 14,270,246 | 29.0% 31.0% 35.0% | 4,217,067 4,260,518 4,426,058 4,709,181 | ent (MWh) 0 0 | 4,227,067 4,360,518 4,426,058 4,709,181 | QVS-Eligible Procurement | 6,933,773 6,731,419 6,615,096 6,302,576 | 500 500 500 | Risk-Adjusted RECs from RFS Facilities in Development (MWh) | 0.0% 0.0% 0.0% | Pre-A proved Generic RECs (MWh) | - 130'000 1'000'000 - 240'220 | 6,601,419 5,607,096 5,561,826 | 2,294,240 2,167,158 2,192,568 | 4,307,179 3,439,938 3,369,258 | Category 2 REG | Category 3 REG. | Gross RPS Positian (Physical Net Short) | 2,716,706 2,240,901 1,181,038 852,645 | 44% 44% 39% 39% | Application of Bank | 7,045,016 9,761,654 12,002,495 13,183,453 | 2,716,638 2,240,841 1,180,958 852,525 | 68 60 80 120 | 9,761,654 12,002,495 13,183,453 14,035,978 | Planned Application of RECs above the POR towards RFS Compliand | | 9,761,654 12,002,495 13,183,453 14,035,978 | 5,495,687 5,924,757 6,226,306 | 5,089,084 6,506,808 7,258,496 7,809,472 | Category 2 REG | Appliting Contracts | 21,344 87,459 183,615 539 | | 2,716,638 2,240,841 1,180,958 852,525 | 43.9% 39.3% 39.0% |
| 2017 Actual 2018 Actual 2019 Actual 2020 A | | CP3 1 2 | 15,618,767 15,006,269 14,277,607 14,270,246 | 27.0% 29.0% 31.0% 33.0% | 4,360,518 4,426,058 4,709,181 | ent (MWh) 0 0 | 4,360,518 4,426,058 4,709,181 | R15-Elgible Procurement | 6,731,419 6,615,096 6,302,576 | 500 500 500 500 | | 0.0% 0.0% 0.0% 0.0% | Pre-Approved Generic RECs (MWh) | - 130'000 1'000'000 - 240'220 | 6,933,773 6,601,419 5,607,096 5,561,826 | 2,268,303 2,284,240 2,167,158 2,192,568 | 4,265,470 4,207,179 3,439,598 3,269,258 | Category 2 REG | Category 3 REGs | Gross RUS Position (Physical Net Short) | 2,240,901 1,181,038 852,645 | 44% 39% 39% | Application of Bank | 2R 7,045,016 9,761,654 12,002,495 13,183,453 | 2,716,638 2,240,841 1,180,958 832,525 | Non-bankable RECs above the PQR 68 60 80 120 | 9,761,654 12,002,495 13,183,453 14,035,978 | Planued Application of RECs above the POR towards RPS Complian | | 12,002,495 13,183,453 14,035,978 | 4,672,570 5,495,687 5,924,757 6,226,206 | 5,089,084 6,506,808 7,258,496 7,809,472 | Category 2.REG | Expiring Contracts | 87,459 183,615 539 | Net RPS Position (Optimized Net Short) | 2,240,841 1,180,958 852,525 | 44.4% 43.9% 39.3% 39.0% |

Appendix 1d

Alternative Renewable Net Short 60% Scenario + IRP Midterm Procurement

Renewable Net Short Calculations - 2021 RPS Procurement Plans

| Date Filed: | 2/17/2022 | _ | | nounhoundu | | | | | | 2000 | | | | | | | | | |
|-------------|-------------------------|---|-------------|-------------|-------------|-------------|--------------|------------------|-------------------|--------------------|-------------------------|-----------------|-----------------|---------------------|----------------|------------------|-----------------------|-----------------------|----------------|
| Variable | | | | | | | | | | | | | | | | | | | |
| | Calculation | Item | 2017 Actual | 2018 Actual | 2019 Actual | 2020 Actual | 2017-2020 | 2021 Forecast 20 | 202 Forecast 2023 | 3 Forecast 2024 Fo | 2024 Forecast 2021-2024 | 1 2025 Forecast | t 2026 Forecast | st 2027 Forecast | t 2025-2027 | 2028 Forecast | cast 2029 Forecast | ast 2030 For ccast | 2025-2030 |
| | | Forecast Y ear | | | | | CP3 | 1 | 2 | 3 | 4 CP4 | 5 | 9 | 2 | CPS | | 6 | 10 | CP 6 |
| | | Annual RPS Requirement | | | | | | | | | | | | | | | | | |
| < | | Total Retail Sales (MWh) | 15,618,767 | 15,036,269 | 14,277,607 | 14,270,246 | 688'707'65 | | | | | 6,017,222 | 222 6,017,044 | 3,967,266 | | 18,021,532 5,94 | 5,946,951 5,97 | 5,972,193 5,997,553 | 53 17,916,69 |
| в | | RIS Procurement Quantity Requirement (%) | 27.0% | 29.0% | 31.0% | 33.0% | 29.9% | | | | | 4 | 46.7% 45 | | 52.0% | | 54.7% | 57.3% 60 | 60.0% |
| C | A^B | Gross RPS Procurement Quantity Requirement (MWh) | 4,217,067 | 4,360,518 | 4,426,058 | 4,709,181 | 17,712,824.4 | | | | | 2,808,238 | 238 2,968,208 | 3,113,378 | | 8,889,823.5 3,25 | 3,251,198 3,45 | 3,423,859 3,598,532 | 32 10,273,588. |
| D | | Voluntary Margin of Over-procurement (MWh) | 0 | 0 | 0 | 0 | | | | | | 0 | 0 | 0 | | • | 0 | 0 | |
| Е | C+D | Net RPS Procurement Need (MWh) | 4,217,067 | 4,360,518 | 4,426,058 | 4,709,181 | 17,712,824 | | | | | 2,808,238 | 238 2,968,208 | 3,113,378 | | 8,889,824 3,25 | 3,251,198 3,45 | 3,423,859 3,598,532 | 32 10,273,58 |
| | | RPS-Eligible Procurement | | | | | | | | | | | | | | | | | |
| Fa | | Risk-Adjusted RECs from Online Generation (MWh) | 6,933,773 | 6/731,419 | 6,615,096 | 6,302,576 | 26,582,864 | | | | | 5,919,440 | 440 5,997,618 | 7618 5,993,397 | | 17,910,455 5,95 | 5,993,055 5,99 | 5,992,823 5,991,176 | 76 17,977,05 |
| Faa | | Forecast Failure Rate for Online Generation (%) | 20.0% | 20.0% | 0.0% | 500 | 0.0% | | | | | 0 | 0.0% | 0.0% 0.0% | 0.0% | 0.0% | \$0.0% | 0.0% 0.0% | 0.0% |
| Fb | | Risk-Adjusted RECs from RPS Facilities in Development (MWh) | | | • | • | | | | | | 525'66 | | 5,99 | 99,523 296 | 298,569 | 99,523 | 99,523 99,523 | 298'26 |
| Ibb | | Forecast Failure Rate for RPS Facilities in Development (%) | 200% | 200% | 500 | 200 | 0.0% | | | | | 15 | 15.0% 15 | 15.0% 15.0% | 15.0% 1 | 15.0% | 15.0% | 15.0% 15.0% | |
| К | | Pre-Approved Generic RECs (MWh) | | | • | • | • | | | | | | | | | | | | |
| Rd | | Executed REC Sales (MWh) | | 130,000 | 1,008,000 | 240,750 | 1,878,750 | | | | | 3,611,378 | | | | 10,622,993 3,50 | 3,504,336 3,50 | 3,504,197 3,503,209 | 10,511,74 |
| F | Fa+Fb+Fc-Fd | Total RPS Eligible Procurement (MWh) | 6,933,773 | 6,601,419 | 5,607,096 | 5,561,826 | 24,704,114 | | | | | 2,407,585 | 2,590,067 | 067 2,588,379 | | 7,586,031 2,58 | 2,588,242 2,58 | 2,588,149 2,587,490 | 90 7,763,88 |
| F0 | | Category 0 RECs | 2,368,303 | 2,294,240 | 2,167,158 | 2,192,568 | 9,022,269 | | | | | 993,057 | | 976,398 976,389 | | 2,945,844 97 | 976,279 97 | 976,279 976,279 | |
| H | | Category 1 RECs | 4,565,470 | 4,307,179 | 3,439,938 | 3,369,258 | 15,681,845 | | | | | 1,414,528 | 528 1,613,669 | 1,669 1,090 | | 4,640,188 1,61 | 1,611,963 1,61 | 1,611,870 1,611,211 | 11 4,835,04 |
| F2 | | Category 2 RECs | | | | | | | | | | | | | | | | | |
| F3 | | Category 3 RECs | | • | | Ì | | | | | | | | | | | | | |
| | | Gross RPS Position (Physical Net Short) | | | | | | | | | | | | | | | | | |
| g | F-E | Annual Gross RPS Position (MWh) | 2,716,706 | 2,240,901 | 1,181,038 | 852,645 | 6,991,290 | | | | | (400,652) | | (378,140) (525,000) | | (1,303,792) (66 | (662, 956) (8: | (835,709) (1,011,041) | 11) (2,509,70 |
| Gb | F/A | Annual Gross RPS Position (%) | 44% | 44% | 39% | 39% | 42% | | | | | | 40% | 43% | 43 % | 42% | 44 % | 43% | 43% |
| | | Application of Bank | | | | | | | | | | | | | | | | | |
| Ha | J-Hc (from previous CP) | | 7,045,016 | 9,761,654 | 12,002,495 | 13,183,453 | 7,045,016 | | | | | 17,483,987 | 967 17,063,334 | (334 16,705,194 | | 17,483,987 16,18 | 16,180,195 15,51 | 15,517,239 14,681,530 | 30 16,180,19 |
| Hb | | RECs above the PQR added to Bank | 2,716,638 | 2,240,841 | 1,180,958 | 852,525 | 6,990,9.62 | | | | | | | | | - | | | |
| Hc | | Non-bankable REGs above the PQR | 68 | 60 | 80 | 120 | 328 | | | | | | | | | | | | |
| Н | Ha+Hb | Gross Balance of RECs above the PQR | 9,761,654 | 12,002,495 | 13,183,453 | 14,035,978 | 14,035,978 | | | | | 17,483,967 | 17, | 16 | | | 16,180,195 15,517,239 | | 30 16,180,19 |
| Ia | | Planned Application of REG above the PQR towards RPS Compliance | | • | | | • | | | | | 400,652 | | 378,140 525,000 | | 1,303,792 66 | 662,956 | 835,709 1,011,041 | 11 2,509,70 |
| Ib | | Planned Sales of RECs above the PQR | | | | | | | | | | | | | | | | | |
| 1 | H-Ia-Ib | Net Balance of RECs above the PQR | 9,761,654 | 12,002,495 | 13,183,453 | 14,035,978 | 14,035,978 | | | | | 17,083,334 | | | | | | 14,681,530 13,670,488 | |
| J0 | | Category 0 RECs | 4,672,570 | 5,495,687 | 5,924,757 | 6,226,306 | 22,319,3.20 | | | | | 7,235,467 | | (718 6,803,288 | | | | 6,133,778 5,694,5 | 18,331,58 |
| LÍ. | | Category 1 RECs | 5,089,084 | 6,506,808 | 7,258,696 | 7,809,672 | 26,664,2.60 | | | | | 9,847,867 | 9,656,476 | 476 9,376,907 | 907 28,881,250 | | 9,014,177 8,5 | 8,547,752 7,975,740 | |
| J2 | | Category 2 RECs | | | | | | | | | | | | | | | | | |
| | | Expiring Contracts | | | | | | | | | | | | | | | | | |
| К | | RECs from Expiring RPS Contracts (MWh) | 21,344 | 87,459 | 183,615 | 539 | 292,957 | | | | | 152,963 | | 3,960 | 109 157 | 157,063 | | - 35,483 | 8 |
| | | Net RPS Position (Optimized Net Short) | | | | | | | | | | | | | | | | | |
| La | Ga+Ia-Ib-Hc | Annual Net RPS Position after Bank Optimization (MWh) | 2,716,638 | 2,240,841 | 1,180,958 | 852,525 | 6,990,962 | | | | | | (0) | | | | | | (0) |
| 1P | (F+la-lb-Hc)/A | Annual Net RPS Position after Bank Optimization (%) | 44.4% | 43.9% | 39.3% | 30.0% | 41.7% | | | | | * | | 49.3% 52 | 52.0% | 49.3% | | 57.3% 60 | 50 |

to be input in MWhs are

Appendix 2

Quantitative Information

| San Diego Gas & Electric | 2/17/20/22 |
|--------------------------|-------------|
| LSE Name: | Date Filed: |

No Input Required Input Required

| | Table 1: Cost Quantification (Actual Net Costs, \$) | | (5) | |
|----|---|-----------------|---------------|---------------|
| - | Executed RPS-Ell gible Contracts by Technology Type* (Purchases and Sales) | 2018 | 2019 | 20.20 |
| 2 | Biogas: Digester Gas | | | |
| 3 | Biogas: Landfill Gas | \$12,379,335 | \$12,058,068 | \$9,218,340 |
| 4 | Biodiesel | | | |
| -0 | Biomass | \$21.657,836 | \$16.840.956 | \$0 |
| 9 | Muni Solid Waste | | | |
| ~ | Geothemal | | | |
| ~ | Small Hydro (Non-UOG) | \$135,747 | \$287,597 | \$ 183.923 |
| 6 | Conduit Hydro | | | |
| ₽ | Water Supply / Conveyance | | | |
| ÷ | Ocean Wave | | | |
| 12 | Ocean Thermal | | | |
| 13 | Tidal Current | | | |
| 14 | Solar PV (Non-UOG) | 8373,908,599 | \$381,856,865 | \$376,655,186 |
| 5 | Solar Thermal | | | |
| 16 | PUM | \$2.39, 145,850 | \$222,756,785 | \$213,862,548 |
| 17 | Unbundled RECs (REC Only) | | | |
| 18 | Various (Index Plus REC)*** | | | |
| 19 | Fuel Cell | | | |
| 8 | UOG: Small Hvdro | | | |
| 21 | UOG: Solar PV | \$2,873,174 | \$2,443,924 | \$1.973,831 |
| 2 | UOG: Other | | | |
| 23 | Executed REC Sales (Revenue) | | | |
| 5 | Total RPS-Eligible Procurement and Generation Net Cost | \$650,100,541 | \$636,244,196 | \$601,893,828 |
| 52 | Total Retail Sales (MVh) | 15,036,269 | 14,277,607 | 14,270,248 |
| 8 | Incremental Rate Impact | 4.32 d/kWh | 4.46 d/kWh | 4.22 e/kWh |

| Table 2 | Table 3. Cost Anostification (Economic Costs and Boundarys 6) | | | | Even ast | Error and DDC-Elicible Procuration of Costs and Bauanuas (5) | mant Crete and Bee | annae /£) | | | |
|---------|--|---------------|---------------|---------------|------------------|--|--------------------|-------------------|---------------|---------------|---------------|
| 1 200 | Cost Qualitimization (Forecast Costs and Neverlates, 4) | | | | 10000010 | | ANT DUB PLACE VIAL | fal ennin | | | |
| - | Executed but Not Approved rero-Engline Contracts (Purchases and Sales)** | 2021 | 202.2 | 20.23 | 20.24 | 2 0 2 5 | 2026 | 2027 | 20.28 | 2 0 2 9 | 2 0 3 0 |
| 2 | Biogas: Digester Gas | | | | | | | | | | |
| 9 | Biogas: Landfill Gas | | | | | | | | | | |
| 4 | Biodiesel | | | | | | | | | | |
| Ð | Biomass | | | | | | | | | | |
| 9 | Muni Solid Waste | | | | | | | | | | |
| 2 | Geofremal | | | | | | | | | | |
| 80 C | Small Hydro (Non-UCKs) | | | | | | | | | | |
| n Ş | Mindow Sweddy I Constantion | | | | | | | | | | |
| 2 7 | Constraints of the constraints | | | | | | | | | | |
| | Ocean Themal | | | | | | | | | | |
| 5 | Tidd Current | | | | | | | | | | |
| 5 4 | Solar PV (Non-UOG) | | | | | | | | | | |
| 15 | Solar Thermal | | | | | | | | | | |
| 16 | pum | | | | | | | | | | |
| 17 | Unbundled RECs (REC Only) | | | | | | | | | | |
| 18 | Various (Index Plus REC)*** | | | | | | | | | | |
| 8 | Fuel Cell | | | | | | | | | | |
| 21 | UOG: Small Hydro | | | | | | | | | | |
| 8 | UOG: Solar PV | | | | | | | | | | |
| 23 | UOG: Other | | | | | | | | | | |
| 24 | Executed REC Sales (Revenue) | | | | | | | | | | |
| 25 | Total Executed But Not Approved RPS-Eligible Procurement and Gane ration Cost | 80 | 80 | \$0 | \$0 | 80 | 8 | 8 | \$0 | 8 | 8 |
| 8 | Total Retail Sales (MVh) | | | | | 7,051,483 | 7,045,554 | 7,058,373 | 7,077,135 | 7,103,233 | 7,134,706 |
| 1Z | Incremental Rate Impact | | | | | 0.00 ¢/kWh | 0.00 ¢/kWh | 0.00 ¢/kWh | 0.00 ¢/KWh | 0.00¢/kWh | 0.00 ¢/kWh |
| 28 | Executed RPS-Eligible Contracts (Purchases and Sales Press | 2021 | 202.2 | 2023 | 2024 | 2 0 2 5 | 2026 | 2027 | 2028 | 2 0 2 9 | 2 030 |
| 8 | Biogas: Digester Gas | | | | | | | | | | |
| 8 | Biogas: Landfil Gas | \$8,613,924 | \$7,926,845 | \$4,410,145 | \$2,431,992 | \$2,045,295 | \$2,045,295 | \$2,045,295 | \$2,045,295 | \$2,045,295 | \$2,045,295 |
| 31 | Biodiesel | | | | | | | | | | |
| 8 | Biomass | | | | | | | | | | |
| 33 | Muni Solid Waste | | | | | | | | | | |
| 8 | Geothermal | | | | | | | | | | |
| 98 | Small Hydro (Non-UOG) | \$174,469 | \$174,469 | \$174,469 | \$174,469 | \$174,469 | \$174,469 | \$174,469 | \$174,469 | \$174,469 | \$174,469 |
| 8 | Conduit Hydro | | | | | | | | | | |
| 37 | Water Supply / Conveyance | | | | | | | | | | |
| 8 | Ocean Warre | | | | | | | | | | |
| 89 | Total Crement | | | | | | | | | | |
| 8 14 | Solar PV (Non-UDG) | \$388.634.322 | \$302 517 887 | \$396.966.245 | \$299.848.405 | \$4.01 406 059 | \$402 984 316 | S404 564 803 | \$406.215.509 | \$407.845.716 | \$409.411.870 |
| 7 | Solar Thermal | | | | | | | | | | |
| 43 | puM | \$209,559,646 | \$229,043,752 | \$229,939,976 | \$222,454,894 | \$213,373,723 | \$203,052,293 | \$202,617,393 | \$202,617,393 | \$202,617,393 | \$202,617,393 |
| 44 | Unbundled RECs (REC Only) | | | | | | | | | | |
| 45 | Various (Index Plus REC)*** | | | | | | | | | | |
| 47 | Fuel Cell | | | | | | | | | | |
| 48 | UOG: Small Hydro | | | | | | | | | | |
| 49 | UOG: Solar PV | \$784,621 | \$5.32, 169 | \$498,604 | \$498,892 | \$499,191 | \$499,501 | \$4.96,234 | \$455,323 | \$457,611 | \$459,911 |
| 8 | UOG: Other | | | | | | | | | | |
| 5 | Executed REC Sales (Revenue) | | | | | | | | | | |
| 25 | Iotal Executed and Approved NP'S-Eligible Procurement and Generation Cost | \$607,766,982 | \$630,195,122 | \$631,989,439 | \$62 5,4 08, 653 | \$617,498,737 | \$608,755,874 | \$ 609 ,89 8,1 95 | \$611,507,991 | \$613,140,485 | \$614,708,939 |
| 8 | Total Retail Sales (MWh) | | | | | 7,051,483 | 7,045,554 | 7,058,373 | 7,077,135 | 7,103,233 | 7,134,706 |
| 35 | Incremental Rate Impact | | | | | 8.76¢/kWh | 8.64 ¢/kWh | 8.64 ¢/kWh | 8.64 ¢/ kWh | 8.63¢/kWh | 8.62 ¢/kWh |
| \$8 | Total RPS-Eligible Procurement and Generation Cost | | | | | \$617,498,737 | \$608,755,874 | \$ 609 ,89 8,1 95 | \$611,507,991 | \$613,140,485 | \$614,708,939 |
| 8 | Total Incremental Rate Impact | | | | | 8.76¢/kWh | 8.64 ¢/kWh | 8.64 ¢/kWh | 8.64 ¢/kWh | 8.63¢/kWh | 8.62 ¢KWh |
| | | | | | | | | | | | |

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| (sn Dang Gas & Electric No. 1 Vibri Required N | | | | |
|--|--------------------|---------|------------|---|
| | Diego Gas & Electr | Require | Input Regu | p |
| | | | | |
| | | | | |

| | Table 3: Cost Quantification (Actual Procurement / Generation and Sales, MWh) | Actual RPS-Eligible | Actual RPS-Eligible Procurement / Generation and Sales (MWh) | ion and Sales (MV |
|----|---|---------------------|--|-------------------|
| Ļ | Technology Type* (Procurement / Generation and Sales) | 2018 | 2019 | 2020 |
| 2 | Biogas: Digester Gas | | | |
| 3 | Biogas: Landfill Gas | 142,026 | 138,197 | 111,471 |
| 4 | Biodiesel | | | |
| -0 | Biomass | 182,246 | 141,713 | 0 |
| 9 | Muni Solid Waste | | | |
| 2 | Geofhemal | | | |
| 8 | Small Hydro (Non-UOG) | 1,294 | 4,246 | 2,431 |
| 6 | Conduit Hydro | | | |
| ₽ | Water Supply / Conveyance | | | |
| 11 | Ocean Wave | | | |
| 2 | Ocean Thermal | | | |
| 3 | Tidal Current | | | |
| 4 | Sciar PV (Non-UOG) | 3,086,314 | 2,684,837 | 2,542,561 |
| 15 | Sciar Thermal | | | |
| 16 | PUM | 3,179,484 | 2,628,774 | 2,897,287 |
| 17 | Unbunded RECs (REC Only) | | | |
| 18 | Various (Index Plus REC)*** | | | |
| 19 | Fuel Cell | | | |
| 8 | UDG: Small Hydro | | | |
| 21 | UDG: Solar PV | 10,055 | 9,329 | 8,076 |
| ន | UOG: Ofher | | | |
| 53 | Executed REC Sales (MWh) | | | |
| | | | | |

Forecast RPS-Eligible Procurement / Generation and Sales (MWh)

Table 4: Cost Quantification (Forecast Procurement / Generation and Sales, MWh)

| - | Executed But Not Approved RPS Eligible Contracts (Purchases and Sales) | 2021 | 2022 | 2023 | 2024 | 2026 | 2026 | 2027 | 2028 | 20.29 | 2030 |
|----|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|-----------|
| 2 | Biogas: Digester Gas | | | | | | | | | | |
| 3 | Biogas: Landfill Gas | | | | | | | | | | |
| 4 | Biodiesel | | | | | | | | | | |
| 9 | Biomass | | | | | | | | | | |
| 9 | Muni Solid Waste | | | | | | | | | | |
| 2 | Geothermal | | | | | | | | | | |
| 8 | Small Hydro (Non-UOG) | | | | | | | | | | |
| 6 | Candult Hydro | | | | | | | | | | |
| 9 | Water Supply / Comeyance | | | | | | | | | | |
| £ | Ocean Wave | | | | | | | | | | |
| 12 | Ocean Thermal | | | | | | | | | | |
| 13 | Tidal Current | | | | | | | | | | |
| 14 | Solar PV (Non-UOG) | | | | | | | | | | |
| 15 | Sciar Thermal | | | | | | | | | | |
| 16 | Mnd | | | | | | | | | | |
| 17 | Unbundled RECs (REC Only) | | | | | | | | | | |
| 8 | Various (Index Plus REC)*** | | | | | | | | | | |
| 8 | Fuel Cell | | | | | | | | | | |
| 21 | UOG: Small Hydro | | | | | | | | | | |
| 8 | UOG: Solar PV | | | | | | | | | | |
| 23 | UOG: Offer | | | | | | | | | | |
| 24 | Executed REC Sales (MWn) | | | | | | | | | | |
| 25 | Total Executed But Not Approved RPS-Eligible Procurement | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | Executed and Approved RPS-Eligible Contracts (Purchases and Sales) **** | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 |
| 27 | Biodas: Dioester Gas | | | | | | | | | | |
| 28 | Biogas: Landfill Gas | 104,344 | 93,022 | 44,663 | 21,910 | 17,516 | 17,516 | 17,516 | 17,516 | 17,516 | 17,516 |
| 62 | Biodiesel | | | | | | | | | | |
| 90 | Biomass | | | | | | | | | | |
| 31 | Muni Solid Waste | | | | | | | | | | |
| 33 | Geofhermal | | | | | | | | | | |
| 33 | Small Hydro (Non-UOG) | 2,053 | 2,053 | 2,053 | 2,053 | 2,053 | 2,053 | 2,053 | 2,053 | 2,053 | 2,053 |
| ۶¢ | Conduit Hydro | | | | | | | | | | |
| 35 | Water Supply / Conveyance | | | | | | | | | | |
| 8 | Ocean Wave | | | | | | | | | | |
| 37 | Ocean Thermal | | | | | | | | | | |
| 88 | Tidal Current | | | | | | | | | | |
| 66 | Sdar PV (Non-UOG) | 3,196,733 | 3,247,566 | 3,304,838 | 3,324,383 | 3,324,151 | 3,323,919 | 3,323,687 | 3,323,455 | 3,323,223 | 3,321,575 |
| 40 | Sciar Thermal | | | | | | | | | | |
| 15 | PulM | 2,895,452 | 3,246,182 | 3,260,501 | 2,933,209 | 2,673,015 | 2,499,407 | 2,495,426 | 2,495,426 | 2,495,426 | 2,495,426 |
| 42 | Urbundled RECs (REC Only) | | | | | | | | | | |
| 64 | Various (Index Plus REC)*** | | | | | | | | | | |
| 42 | Fuel Cell | | | | | | | | | | |
| 94 | UDG: Small Hydro | | | | | | | | | | |
| 47 | UDG: Solar PV | 2.748 | 2,290 | 2,229 | 2,229 | 2,229 | 2,229 | 2,220 | 2,111 | 2.111 | 2,111 |
| 48 | UDG: Other | | | | | | | | | | |
| 48 | Executed REC Sales (MWh) | | | | | | | | | | |
| 99 | Total Executed and Approved RPS-Eligible Procurement | 6,201,330 | 6,591,113 | 6,614,285 | 6,283,784 | 6,018,963 | 5,845,123 | 5,840,902 | 5,840,560 | 5,840,328 | 5,838,681 |
| 51 | Total RPS Eligible Procurement (MWh) | 6,201,330 | 6,591,113 | 6,614,285 | 6,283,784 | 6,018,963 | 5,845,123 | 5,840,902 | 5,840,560 | 5,8.40,3.28 | 5,838,681 |

Yuke: Technology deficient are given the PCC Classification Handbook located in the RPS Compliance Reporting section of thep://www.guc.ca.gov/RPS/Compliance/Reporting - Wake: Technology deficient are given to the area from approval. FOC or the financial approximation and easie. - Wake: The Vaccuré Menhology types is to be used in the care of contradate more the previous of the prior and an easient of the care of contradate encountering multiple healings where the given and not. - Wake: The Vaccuré Menhology types is to be used in the care of contradate encountering multiple healings where the given and the rule vacue of contradate encountering multiple healings where the given and not an easier and an easier and contradate encountering multiple healings where the given and the rule vacue. - Wake: The Vaccuré Menhology types is to be used in the care of contradate encountering multiple healings where the given and the vacue. - Wake: The Vaccuré Menhology types is to be used in the care of contradate encountering multiple healings where the given and the vacue. - Wake: The Vaccuré Menhology types is to be used in the care of contradate encountering multiple healings where the given and an earth and an earth of the vacue. - Wake: The Outstand and encountering multiple encountering contradate and an earcount contradate the three week on a given and an earth and an earch of contradate and an earch of the contradate and an earch of the contradate and an earch of contradate and an earch of the contradate and an earch of the contradate and an earch of contradate and an earch of the contradate and an earch of the contradate and an earch of contradate and an earch of the contradate and an earch of th

Appendix 3

TOD Factor Workpapers

Pursuant to D.19-02-007, SDG&E participated in a stakeholder process to develop informationonly Time of Delivery factors ("TODs"), and the Commission approved SDG&E, PG&E's and SCE's May 29, 2019 Joint IOU Information-Only TOD Factor proposal ("TOD Proposal").¹ SDG&E's approved TOD Factors for 2020 and 2024 are within the Commission-approved May 29, 2019 TOD Proposal. Per OP 26 of D.19-12-042, below are workpapers to confirm there is a high correlation between the public information-only TOD factors and SDG&E's confidential forecasts.

¹ D.19-12-042, OP 18.

CONFIDENTIAL TOD WORKPAPERS ARE NOT INCLUDED IN THE PUBLIC VERSION OF THE 2021 FINAL RPS PLAN

Appendix 4

Safety Considerations

A. RPS Power Purchase Agreements

SDG&E's procurement programs and the safety-related contractual provisions included in the contract for each program are described below. For those contracts that are appendices to this Plan, the relevant sections are referenced, for all other contracts, language from the relevant sections is provided. Although the precise wording varies slightly among PPAs related to different programs, each PPA follows the same logic by first defining prudent business practices as those which, given the information available at the time the decision was made, could reasonably be expected to accomplish the desired result consistent with good business practices, reliability and safety. This definition is then referenced throughout the contract. By executing any of the following referenced PPAs, a counterparty agrees to incorporate safety considerations into its decision-making process and operate accordingly.

- i. PPA Provisions Utility Scale RFOs (Long-Term and Short-Term¹ Contracts) and GT RAM²
 - Section 1.1: Good Industry Practice
 - Section 3.1(f)(ii): Annual Capacity Testing
 - Section 3.5(a): General Operation
 - Section 3.5(b): CAISO and WECC Standards
 - Section 3.5(c): Reliability Standards.
 - Section 3.6(a)(i): Testing and Calibration.
 - Section 3.7(a): Planned Outages
 - Exhibit F, Form of Quarterly Progress Report, Section 9.0: Safety and Health Reports

ii. PPA Provisions – CRE and WATER FiT Programs³

- Section 5.4: The Generating Facility shall be operated with all of Producer's Protective Functions in service and in accordance with Prudent Electrical Practices whenever the Generating Facility is operated in parallel with SDG&E's Distribution System. Any deviation from these requirements may occur only when the Parties have agreed to such deviations in writing.
- Appendix F, Item 32: "Operate," "Operating" or "Operation" means to provide (or the provision of) all the operation, engineering, purchasing,

¹ SDG&E's Short-Term PPA is for projects that have already been constructed because it is not likely that a new project would be interested in a term of 5 years or less, as such it does not contain a Milestone Schedule, a Commercial Operations Certificate, or a Form of Quarterly Progress Report.

² D.14-11-042 requires that SDG&E file a short-term RPS PPA and RAM PPA, and D.16-05-006 requires that SDG&E utilize a RAM Rider for its ECR program. The Short-Term RPS PPA is Appendix 6 within this Plan and SDG&E's most recently approved RAM documents can be found in SDG&E AL 3206-E, effective April 28, 2018 at http://regarchive.sdge.com/tm2/pdf/3206-E.pdf. All of these documents are based on SDG&E's Long-Term RPS PPA, attached hereto as Appendix 5, as such the safety provisions and associated references are the same.

³SDG&E's CRE FiT and WATER FiT programs terminated July 24, 2013.

repair, supervision, training, inspection, testing, protection, use, management, improvement, replacement, refurbishment, retirement, and maintenance activities associated with operating the Generating Facility in accordance with Prudent Electrical Practices.

- Appendix F, Item 41: "Prudent Electrical Practices" means those practices, methods and acts that would be implemented and followed by prudent operators of electric energy generating facilities in the Western United States, similar to the Generating Facility, during the relevant time period, which practices, methods and acts, in the exercise of prudent and responsible professional judgment in the light of the facts known at the time the decision was made, could reasonably have been expected to accomplish the desired result consistent with good business practices, reliability and safety.
 - Prudent Electrical Practices shall include, at a minimum, those professionally responsible practices, methods and acts described in the preceding sentence that comply with manufacturers' warranties, restrictions in this Agreement, and the requirements of Governmental Authorities, WECC standards, the ISO and applicable laws.
 - Prudent Electrical Practices shall also include taking reasonable steps to ensure that:
 - Equipment, materials, resources, and supplies, including spare parts inventories, are available to meet the Generating Facility's needs;
 - Sufficient operating personnel are available at all times and are adequately experienced and trained and licensed as necessary to operate the Generating Facility properly and efficiently, and are capable of responding to reasonably foreseeable emergency conditions at the Generating Facility and emergencies whether caused by events on or off the Site;
 - Preventive, routine, and non-routine maintenance and repairs are performed on a basis that ensures reliable, long term and safe operation of the Generating Facility, and are performed by knowledgeable, trained, and experienced personnel utilizing proper equipment and tools;
 - Appropriate monitoring and testing are performed to ensure equipment is functioning as designed;

- Equipment is not operated in a reckless manner, in violation of manufacturer's guidelines or in a manner unsafe to workers, the general public, or SDG&E's electric system or contrary to environmental laws, permits or regulations or without regard to defined limitations such as, flood conditions, safety inspection requirements, operating voltage, current, volt ampere reactive (VAR) loading, frequency, rotational speed, polarity, synchronization, and control system limits; and
- Equipment and components designed and manufactured to meet or exceed the standard of durability that is generally used for electric energy generating facilities operating in the Western United States and will function properly over the full range of ambient temperature and weather conditions reasonably expected to occur at the Site and under both normal and emergency conditions.

iii. PPA Provisions – Re-MAT FiT Program, and BioRAM⁴

- Section 6.4: <u>Standard of Care</u>. Seller shall: (a) maintain and operate the Facility and Interconnection Facilities, except facilities installed by Buyer, in conformance with all Laws and in accordance with Prudent Electrical Practices; (b) obtain any governmental authorizations and permits required for the construction and operation thereof; and (c) generate, schedule and perform transmission services in compliance with all applicable operating policies, criteria, rules, guidelines and tariffs and Prudent Electrical Practices. Seller shall reimburse Buyer for any and all losses, damages, claims, penalties, or liability Buyer incurs as a result of Seller's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of the Facility throughout the Term of this Agreement.
- Section 6.5.2: <u>Access Rights</u>. Buyer, its authorized agents, employees and inspectors may, on reasonable advance notice under the circumstances, visit the Project during normal business hours for purposes reasonably connected with this Agreement or the exercise of any and all rights secured to Buyer by Law, its tariff schedules, and rules on file with the CPUC. Buyer, its authorized agents, employees and inspectors must (a) at all times adhere to all safety and security procedures as may be required by Seller; and (b) not interfere with the operation of the Project. Buyer shall make reasonable efforts to

⁴ SDG&E's Re-MAT FiT Program ended June 30, 2016. Note that SDG&E's BioRAM contract is also based on SDG&E's ReMAT PPA.

coordinate its emergency activities with the Safety and Security Departments, if any, of the Project operator. Seller shall keep Buyer advised of current procedures for contacting the Project operator's Safety and Security Departments.

- Appendix A: "Demonstrated Contract Capacity" means the Facility's total
 rated electric alternating current energy generating capacity which will equal
 the [lesser of (a) the sum of the Inverter Block Unit Capacity of all Inverter
 Block Units in the Facility and (b) the continuous output power rating at the
 expected operating power factor of the step-up transformer that connects
 the Facility to the Transmission/Distribution Owner's system[for solar
 photovoltaic technology]] [the total of the manufacturer's nameplate ratings
 of all installed Wind Turbines, consistent with Prudent Electrical Practices
 and accepted industry standards, as indicated on the nameplates physically
 attached to the individual Wind Turbine generators[for wind technology]]
 [sum of the Metered Amounts for the Demonstration Hour[all other
 technologies]], as determined in accordance with Appendix M.
- Appendix A: "Inverter Block Unit Capacity" means, with respect to each Inverter Block Unit, the total rated electric alternating current energy generating capacity of such Inverter Block Unit, determined as the lesser of:

 (a) The manufacturer's output rating of the Current Inverter included in such Inverter Block Unit, consistent with Prudent Electrical Practices and accepted industry standards, as indicated on the nameplate physically attached to such Current Inverter;
 (b) The sum of the manufacturer's nameplate ratings of all Photovoltaic Modules included in such Inverter Block Unit, consistent with Prudent Electrical Practices and accepted industry standards, as indicated on the nameplates physically attached to such individual Photovoltaic Modules;
- Appendix A: "Prudent Electrical Practices" means those practices, methods and acts that would be implemented and followed by prudent operators of electric energy generating facilities in the Western United States, similar to the Facility, during the relevant time period, which practices, methods and acts, in the exercise of prudent and responsible professional judgment in the light of the facts known at the time the decision was made, could reasonably have been expected to accomplish the desired result consistent with good business practices, reliability and safety. Prudent Electrical Practices shall include, at a minimum, those professionally responsible practices, methods and acts described in the preceding sentence that comply with manufacturers' warranties, restrictions in this Agreement, and the

requirements of Governmental Authorities, WECC standards, the CAISO and Laws. Prudent Electrical Practices also includes taking reasonable steps to ensure that:

- (a) Equipment, materials, resources, and supplies, including spare parts inventories, are available to meet the Facility's needs;
- (b) Sufficient operating personnel are available at all times and are adequately experienced and trained and licensed as necessary to operate the Facility properly and efficiently, and are capable of responding to reasonably foreseeable emergency conditions at the Facility and Emergencies whether caused by events on or off the Site;
- (c) Preventive, routine, and non-routine maintenance and repairs are performed on a basis that ensures reliable, long term and safe operation of the Facility, and are performed by knowledgeable, trained, and experienced personnel utilizing proper equipment and tools;
- (d) Appropriate monitoring and testing are performed to ensure equipment is functioning as designed;
- (e) Equipment is not operated in a reckless manner, in violation of manufacturer's guidelines or in a manner unsafe to workers, the general public, or the Transmission/Distribution Owner's electric system or contrary to environmental laws, permits or regulations or without regard to defined limitations such as, flood conditions, safety inspection requirements, operating voltage, current, volt ampere reactive (VAR) loading, frequency, rotational speed, polarity, synchronization, and control system limits; and
- (f) Equipment and components are designed and manufactured to meet or exceed the standard of durability that is generally used for electric energy generating facilities operating in the Western United States and will function properly over the full range of ambient temperature and weather conditions reasonably expected to occur at the Site and under both normal and emergency conditions.

iv. PPA Provisions – BioMAT FiT Program⁵

 Section 5.4: Standard of Care. Seller shall: (a) maintain and operate the Facility and Interconnection Facilities, except facilities installed by Buyer, in conformance with all Laws and in accordance with Prudent Electrical Practices; (b) obtain any governmental authorizations and permits required

⁵ SDG&E's BioMAT FiT Program began February 1, 2016.

for the construction and operation thereof; and (c) generate, schedule and perform transmission services in compliance with all applicable operating policies, criteria, rules, guidelines and tariffs and Prudent Electrical Practices. Seller shall reimburse Buyer for any and all losses, damages, claims, penalties, or liability Buyer incurs as a result of Seller's failure to obtain or maintain any governmental authorizations and permits required for construction and operation of the Facility throughout the Term of this Agreement.

- Section 5.5.2: Access Rights. Buyer, its authorized agents, employees and inspectors may, on reasonable advance notice under the circumstances, visit the Project during normal business hours for purposes reasonably connected with this Agreement or the exercise of any and all rights secured to Buyer by Law, its tariff schedules, and rules on file with the CPUC. Buyer, its authorized agents, employees and inspectors must (a) at all times adhere to all safety and security procedures as may be required by Seller; and (b) not interfere with the operation of the Project. Buyer shall make reasonable efforts to coordinate its emergency activities with the Safety and Security Departments, if any, of the Project operator. Seller shall keep Buyer advised of current procedures for contacting the Project operator's Safety and Security Departments.
- Section 5.17: Safety Plan. Seller shall provide to Buyer, prior to commencement of any construction activities on the Site, a report from an independent engineer (acceptable to both Buyer and Seller) certifying that Seller has a written plan for the safe construction and operation of the Facility in accordance with Prudent Electrical Practices.
- Appendix A: "Demonstrated Contract Capacity" means the Facility's total rated electric alternating current energy generating capacity which will equal the sum of the metered amounts for the Demonstration Hour, as determined in accordance with Appendix J.
- Appendix A: "Prudent Electrical Practices" means those practices, methods and acts that would be implemented and followed by prudent operators of electric energy generating facilities in the Western United States, similar to the Facility, during the relevant time period, which practices, methods and acts, in the exercise of prudent and responsible professional judgment in the light of the facts known at the time the decision was made, could reasonably have been expected to accomplish the desired result consistent with good business practices, reliability and safety. Prudent Electrical Practices shall include, at a minimum, those professionally responsible practices, methods

and acts described in the preceding sentence that comply with manufacturers' warranties, restrictions in this Agreement, and the requirements of Governmental Authorities, WECC standards, the CAISO and Laws. Prudent Electrical Practices also includes taking reasonable steps to ensure that:

- (a) Equipment, materials, resources, and supplies, including spare parts inventories, are available to meet the Facility's needs;
- (b) Sufficient operating personnel are available at all times and are adequately experienced and trained and licensed as necessary to operate the Facility properly and efficiently, and are capable of responding to reasonably foreseeable emergency conditions at the Facility and Emergencies whether caused by events on or off the Site;
- (c) Preventive, routine, and non-routine maintenance and repairs are performed on a basis that ensures reliable, long term and safe operation of the Facility, and are performed by knowledgeable, trained, and experienced personnel utilizing proper equipment and tools;
- (d) Appropriate monitoring and testing are performed to ensure equipment is functioning as designed;
- (e) Equipment is not operated in a reckless manner, in violation of manufacturer's guidelines or in a manner unsafe to workers, the general public, or the Transmission/Distribution Owner's electric system or contrary to environmental laws, permits or regulations or without regard to defined limitations such as, flood conditions, safety inspection requirements, operating voltage, current, volt ampere reactive (VAR) loading, frequency, rotational speed, polarity, synchronization, and control system limits; and
- (f) Equipment and components are designed and manufactured to meet or exceed the standard of durability that is generally used for electric energy generating facilities operating in the Western United States and will function properly over the full range of ambient temperature and weather conditions reasonably expected to occur at the Site and under both normal and emergency conditions.

B. Renewable Utility-Owned Generation Projects

SDG&E requires all contractors working on the construction of new UOG facilities to observe the following safety-related procedures:

i. Safety Requirements

- The Contractor must comply with all applicable federal, state, regional, municipal, and local laws, ordinances, rules, codes, regulations, and executive orders, including all laws, ordinances, rules, codes, regulations, and executive orders applicable to health and safety, SDG&E's Class 1 Contractor Safety Manual, and all contract terms as set forth in the contract entered into with the Company, and must ensure that all employees and subcontractors working on Contractor's behalf meet or exceed these same requirements. If there is a conflict between SDG&E's Class 1 Contractor Safety Manual, the contract entered into with the Company, or applicable H&S Laws, the more specific standard applies.
- The Contractor must enroll with SDG&E's Third Party Administrator and maintain compliance with SDG&E's Contractor safety program.
- The Contractor must establish, implement, and maintain a complete work scope specific safety program. The Contractor must submit electronic and written copies of this program to SDG&E for review.
- The safety program must include a, Safety Manager at the start of the project and sufficient, qualified support staff for the duration of on-site work. The safety program must follow the applicable laws, ordinances, regulations, and standards for such programs and must include: code of safe practices, fire protection plan, spill prevention plan, worker environmental awareness training, emergency situations response plan and procedures, hazardous material control and training, and other applicable programs. The plan must be coordinated with SDG&E's and local authorities as required.
- The safety program must include sections addressing site environmental protection and a personal protective equipment.
- Safety and Health Orientation:
 - Each new employee (including subcontractors and vendors) must receive a thorough safety and health orientation from the Contractor that gives the employee the basic information about the Contractor's safety program, Federal or State OSHA (the most stringent in any case), and other applicable safety rules and regulations. The Contractor must provide additional safety instructions during the

scope of the normal daily activities for the performance of hazardous or unfamiliar tasks.

- Supervisor's Safety Orientation
 - The Contractor must familiarize all supervisory personnel with the Contractor's safety and health responsibilities by conducting a safety and health orientation with each supervisor. Supervisors must be trained in CPR and First Aid.
- Weekly Toolbox and Daily Safety Meetings
 - The Contractor must conduct weekly toolbox meetings, open to SDG&E's representatives, to provide all on-site employees with up-todate safety and health information. Daily task safety analysis for each planned activity must be performed to help the employees prepare for the hazards associated with each assigned task.
- General Safety Requirements:
 - Barricades: The Contractor must erect and maintain all barricades used to protect personnel from hazardous work operations as required by Federal or State OSHA, whichever is applicable.
 - Safety Signs: The Contractor must post any signs or posters that may be needed to advise employees of unsafe areas or conditions as required by Federal or State OSHA, whichever is applicable.
 - Scaffolds: The Contractor must erect all scaffolds in conformance with applicable Federal or State OSHA standards and maintain a method of communication that daily scaffolding erection inspection has been performed and that the scaffolding is ready for use.
 - Floor and Roof Openings: The Contractor must barricade or cover all floor and roof openings to protect employees from falls as required by Federal or State OSHA.
 - Lock Out and Tag Out: The Contractor must provide an approved procedure for lock out and tag out, including all lock tags, of all applicable equipment.
 - The Contractor must identify in writing a qualified safety representative to administer the Contractor's safety program. All vendor-supplied service organizations must each be required to implement a safety program appropriate for the Work being performed and in compliance with the Contractor's safety program. The Contractor is responsible for all subcontractor compliance with the it's safety program.
- Loss Prevention Requirements:

- o Implementation of an approved safety program
- o Provision of a safe workplace for all employees
- Implementation of a fire prevention program in accordance with NFPA 241: Standard for Safeguarding Construction, Alteration, and Demolition Operations
- Prevention of equipment operation unless the equipment is safe to operate, all protective equipment is in place, and the operators are properly trained and licensed or certified for the particular equipment being operated
- o Identified hazards are addressed/mitigated
- o Implementation of regular safety meetings and training
- Adherence to all applicable Federal or State OSHA, DOT, and other applicable safety requirements
- Occupational Health
 - The Contractor must take all reasonable steps and precautions to protect the health of their employees and other site personnel. The Contractor must conduct occupational health monitoring and sampling as required by Federal or State OSHA, whichever is applicable, to determine the levels of exposure of its employees to hazardous or toxic substances or environmental conditions. Copies of employee sampling results must be provided to SDG&E upon request.
- Fire Protection and Prevention
 - The Contractor must provide fire extinguishers that are adequate for potential fire hazards present during construction, and must provide instruction regarding the proper use of such equipment to all employees. Only carbon dioxide (CO2) fire extinguishers may be used within proximity of the inverters, transformers, switchgear, and communications enclosures to avoid damage to this equipment.
 - The Contractor must ensure the material it proposes to use at the site conforms to appropriate standards for flame-resistance or fireproof characteristics or is adequately protected from fire danger. Specific materials in this category include coatings, plastic-covering materials, construction lumber, scaffold plans, paper, boxes, and crating materials. Flammables, such as fuels and solvents, must be stored in appropriate containers. Fire blankets must be used to protect personnel and permanent project equipment/installations when necessary.
- Crane Safety and Material Handling

 The Contractor must comply with all rules, regulations, and standards associated with crane safety and material handling. No equipment or machinery intended for material or personnel handling is allowed on site without having written proof of a current inspection, insurance, and crane operator certification. All equipment inspection reports must be renewed prior to expiration. All crane equipment must have an inspection checklist signed off by the operator at the beginning of each shift to ensure that any crane used is in safe operating condition. Equipment must have functioning horns of sufficient volume to provide warnings when required. When applicable, crane lift plan(s) will be submitted in advance for SDG&E's review.

ii. Safety Inspections and Reporting

- Inspections
 - The Contractor must conduct safety inspections of all work areas and operations in accordance with the Contractor's safety program. The Contractor must cooperate with any general safety inspections conducted by SDG&E.
 - The Contractor must maintain an inspection program for review of safety compliance for the Contractor's equipment, including power tools, electrical cords, rigging equipment, safety equipment, etc.
- Accident and Incident Reporting
 - The Contractor must immediately notify a SDG&E Representative of all project-related incidents, as required by SDG&E's Class 1 Contractor Safety Manual.
 - The Contractor must analyze any accident or incident (including "near misses") and provide an independent report of the cause and results of the accident or incident to SDG&E, as required by SDG&E's Class 1 Contractor Safety Manual. The Contractors safety program must identify and implement all necessary corrective action to prevent future occurrence of a similar incident.
 - Contractor must immediately notify SDG&E of any governmental agency (OSHA, Fire Dept., Health Dept., etc.) complaint or inspection on any project.
- Recordkeeping
 - The Contractor must maintain all records required by federal and state agencies that pertain to work-related injuries or illness.
- Security

• The Contractor is responsible for providing site security as necessary during construction.

Appendix 5

2021 RPS Long-Term Model PPA

[Form of PPA for As-Available, Baseload, Peaking or Dispatchable Product]

[Standard contract terms and conditions that "may not be modified" per CPUC D.04-06-014 and subsequent decisions are shown in red shaded text and standard contract terms and conditions that may be modified per CPUC D.04-06-014 and subsequent decisions are shown in green shaded text.]

POWER PURCHASE AGREEMENT

Between

SAN DIEGO GAS & ELECTRIC COMPANY (as "Buyer")

and

(as "Seller")

POWER PURCHASE AGREEMENT

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COVER SHEET

This Power Purchase Agreement is made as of the following date: [_____]. This Power Purchase Agreement and all exhibits, schedules, appendices, and any written supplements hereto, any designated collateral, credit support or margin agreement or similar arrangement between the Parties as well as all written and signed amendments and modifications thereto shall be a part of, and shall be referred to as, the "Agreement." The Parties to this Agreement (hereinafter individually a "Party" and collectively the "Parties") are the following:

| Name: | <u>("Seller</u> ") | Name: San Dieg |
|-------------------------------|--------------------|--------------------|
| | | (" <u>Buyer</u> ") |
| All Notices: | | All Notices: |
| Street: | | Street: 8315 Cer |
| City: | Zip: | City: San Diego |
| Attn: Contract Administration | | Attn: Electric & |
| Phone: | | Administr |
| Facsimile: | | Phone: (858) 63 |
| Duns: | | Facsimile: (858) |
| Federal Tax ID Number: | | Duns: 00691145 |
| | | Federal Tax ID |
| Invoices: | | Invoices: |
| | | San Diego G |
| | | 8315 Century |
| | | San Diego, C |
| Attn: | | Attn: Electri |
| Phone: | | Reporting |
| Facsimile: | | Phone: (858) |
| | | Facsimile: (8 |
| Scheduling: | | Scheduling: |
| | | San Diego G |
| | | 8315 Century |
| | | San Diego, C |
| Attn: | | Attn: Transac |
| Phone: | | Phone: (858) |
| Facsimile: | | Facsimile: (8 |

Payments:

| Attn: | |
|----------------|--|
| Phone: | |
| Facsimile: | |
| Wire Transfer: | |
| BNK: | |
| ABA: | |
| ACCT: | |
| Confirmation: | |
| FAX: | |

Credit and Collections:

Attn:

go Gas & Electric Company ntury Park Court , CA Zip: 92123 ¿ Fuel Procurement - Contract ration 36-5536 650-6190 7 Number: 95-1184800 as & Electric Company y Park Ct. California 92123-1593 ic & Fuel Procurement - Invoicing and 650-6187 58) 650-6190 as & Electric Company y Park Ct. California 92123-1593 ction Scheduling Manager 650-6160 Facsimile: (858) 650-6191 **Payments:** San Diego Gas & Electric Company PO Box 25110 Santa Ana, CA 92799-5110 Attn: Mail Payments Phone: (619) 696-4521 Facsimile: (619) 696-4899 Wire Transfer: BNK: Union Bank of California for: San Diego Gas & Electric Company ABA: Routing # 122000496 ACCT: #4430000352 Confirmation: SDG&E, Major Markets FAX:(213) 244-8316 **Credit and Collections:** San Diego Gas & Electric Company, Major Markets 555 W. Fifth Street, ML 18A3 Los Angeles, CA 90013-1011

| Phone: | |
|------------|--|
| Facsimile: | |

With additional Notices of an Event of Default or Potential Event of Default to:

| Attn: | | | | |
|-----------|----|--|--|--|
| Phone: | | | | |
| Facsimile | e: | | | |

Attn.: Major Markets, Credit and Collections Manager Fax No.: (213) 244-8316 Phone: (213) 244-4343 With additional Notices of an Event of Default or Potential Event of Default to: San Diego Gas & Electric Company 8330 Century Park Ct. San Diego, California 92123 Attn: General Counsel Phone: (858) 650-6141 Facsimile: (858) 650-6106

GENERAL TERMS AND CONDITIONS

ARTICLE ONE: GENERAL DEFINITIONS

1.1 <u>General</u>. The following terms shall have the following meaning for purposes of this Agreement.

"[AAA][JAMS]" means [the American Arbitration Association] [JAMS, Inc.].

"Affiliate" means, with respect to any person, any other person (other than an individual) that, directly or indirectly, through one or more intermediaries, controls, or is controlled by, or is under common control with, such person. For this purpose, "control" means the direct or indirect ownership of fifty percent (50%) or more of the outstanding capital stock or other equity interests having ordinary voting power.

"Agreement" has the meaning set forth in the preamble to the Cover Sheet.

"Arbitration" has the meaning set forth in Section 12.3.

[For As-Available Product only: "As-Available" means a Product for which, subject to the terms of this Agreement, Seller is excused from selling and delivering the Product to Buyer, and Seller shall not be liable to Buyer for any damages determined pursuant to Section 3.1(h) of the Agreement, in the event that Seller fails to deliver the Product to Buyer for any of the following reasons:

- (a) if the Project is unavailable as a result of a Forced Outage and such Forced
 Outage is not the result of Seller's negligence or willful misconduct;
- (b) Force Majeure;
- (c) by the Buyer's failure to perform;
- (d) by a Planned Outage of the Project;
- (e) a reduction in output as ordered under Dispatch Down Periods; or
- (f) [the unavailability of landfill gas which was not anticipated as of the Execution Date, which is not within the reasonable control of, or the result of negligence of, Seller or the party supplying such landfill gas to the Project, and which by the exercise of reasonable due diligence, Seller is unable to overcome or avoid or causes to be avoided.] OR [insufficient wind power for the Project to generate energy as determined by the best wind speed and direction standards utilized by other wind producers or purchasers in the vicinity of the Project or if wind speeds exceed the Project's technical specifications.] OR [the unavailability of water or the unavailability of sufficient pressure required for operation of the hydroelectric turbine-generator as reasonably determined by Seller within its operating procedures, neither of which was anticipated as of the

Execution Date, which is not within the reasonable control of, or the result of negligence of, Seller or the party supplying such water to the Project, and which by the exercise of due diligence, such Seller or the party supplying the water is unable to overcome or avoid or causes to be avoided.] OR [insufficient solar power for the Project to generate energy as determined by the best solar standards utilized by other solar producers or purchasers in the vicinity of the Project.]

[For Dispatchable Product only: "Availability Adjustment Factor" has the meaning set forth in Section 4.1(b).*]*

"Availability Incentive Payments" shall mean Availability Incentive Payments as defined in FERC filing ER09-1064 or such other similar term as modified and approved by FERC thereafter to be incorporated in the CAISO Tariff or otherwise applicable to CAISO.

[For Dispatchable Product only: "Availability Notice" has the meaning set forth in Section 3.3([f/g]).]

"Availability Standards" shall mean Availability Standards as defined in FERC filing ER09-1064 or such other similar term as modified and approved by FERC thereafter to be incorporated in the CAISO Tariff or otherwise applicable to CAISO.

"Bankrupt" means with respect to any entity, such entity that (a) files a petition or otherwise commences, authorizes or acquiesces in the commencement of a proceeding or cause of action under any bankruptcy, insolvency, reorganization or similar Law, (b) has any such petition filed or commenced against it which remains unstayed or undismissed for a period of sixty (60) days, (c) makes an assignment or any general arrangement for the benefit of creditors, (d) otherwise becomes bankrupt or insolvent (however evidenced), (e) has a liquidator, administrator, receiver, trustee, conservator or similar official appointed with respect to it or any substantial portion of its property or assets, or (f) is generally unable to pay its debts as they fall due.

[For Baseload Product only: "Baseload" means a Unit Firm Product for which the delivery levels are uniform twenty-four (24) hours per day, seven (7) days per week.]

"Bundled Green Energy" means Energy, Green Attributes, and any other Product, the quantity of which is measured based on the amount of Delivered Energy, in each case, that are produced by or associated with the Project. The quantity of Bundled Green Energy shall be equal to the lesser of the quantity of (i) *[When Seller is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program:* Contract Energy] *[When SDG&E is SC for the Project and Project is in the VER Forecasting Program:* Delivered Energy] (ii) Green Attributes that are delivered to Buyer, and (iii) any other Product that is delivered to Buyer, the quantity of which is measured based on the amount of Delivered Energy. For example, if the quantity of Renewable Energy Credits that are delivered to Buyer is less than the quantity of the *[When SDG&E is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program:* Contract Energy] *[When SDG&E is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program:* Contract Energy] *[When SDG&E is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program:* Contract Energy] *[When SDG&E is SC for the Project and Project is in the VER Forecasting Program:* Delivered Energy], then the quantity of Bundled Green Energy shall be equal to the quantity of Renewable Energy], then the quantity of Bundled Green Energy shall be equal to the quantity of Renewable Energy].

"Business Day" means any day except a Saturday, Sunday, or a Federal Reserve Bank holiday and shall be between the hours of 8:00 a.m. and 5:00 p.m. local time for the relevant Party's principal place of business where the relevant Party, in each instance unless otherwise specified, shall be the Party from whom the Notice, payment or delivery is being sent and by whom the Notice or payment or delivery is to be received.

"Buyer" has the meaning set forth on the Cover Sheet.

"CAISO" means the California Independent System Operator Corporation or any successor entity performing similar functions.

[When SDG&E is the SC for the Project: "CAISO Charges Invoice" has the meaning set forth in Section 3.3([a/b])(iv).*]*

"CAISO Grid" means the system of transmission lines and associated facilities of the Participating Transmission Owners that have been placed under the CAISO's operational control.

"CAISO Tariff" means the CAISO Operating Agreement and Tariff, including the rules, protocols, procedures and standards attached thereto, as the same may be amended or modified from time-to-time and approved by FERC.

"California Renewables Portfolio Standard" means the Renewables Portfolio Standard of California under California Senate Bills 1078 and 107, as codified in California Public Utilities Code Sections 387, 390.1, and Article 16 (commencing with Section 399.11) of Chapter 2.3 of Part 1 of Division 1, as such provisions are amended or supplemented from time to time.

"Capacity Attributes" means any current or future defined characteristic, certificate, tag, credit, or ancillary service attribute, whether general in nature or specific as to the location or any other attribute of the Project intended to value any aspect of the capacity of the Project to produce Energy or ancillary services, including but not limited to any accounting construct so that the Contract Capacity of the Project may be counted toward a Resource Adequacy obligation or similar measure in respect to the capacity of the Project to generate Energy by the CPUC, the CAISO, the FERC, or any other entity vested with the authority under federal or state Law, to require Buyer to procure, or to procure at Buyer's expense, Resource Adequacy or other similar products.

[For Dispatchable Product only: "Capacity Price" has the meaning set forth in Section 4.1(a).]

[For Baseload, Peaking, or Dispatchable Product only: "Capacity Test" shall be the complete capacity testing procedure for the Project that is reasonably acceptable to Buyer that Seller shall develop no later than thirty (30) days prior to the initial capacity testing of the Project prior to the Commercial Operation Date. The capacity testing procedure shall describe in detail the testing standard(s) to be used for the technology of the Project, the conditions under which testing shall take place, the average summer ambient conditions to which the results will be corrected, and the testing procedures. The same capacity testing procedure shall be applied to all subsequent Capacity Tests.]

"CEC" means the California Energy Commission or its successor agency.

"CEC Certification and Verification" means that the CEC has certified (or, with respect to periods before the Project has been constructed, that the CEC has pre-certified) that the Project is an ERR for purposes of the California Renewables Portfolio Standard and that all Energy produced by the Project qualifies as generation from an ERR for purposes of the Agreement.

"Claims" has the meaning set forth in Section 11.2(a).

"Commercial Operation" means that (a) the Project is operating and able to produce and deliver the Product to Buyer pursuant to the terms of this Agreement; (b) Seller shall have satisfied the requirements set forth in the Commercial Operation Certificate in the form attached as Exhibit E; (c) Seller shall have delivered a true, correct, and complete Commercial Operation Certificate from Seller, the Renewable Generation Equipment Supplier, the EPC Contractor, and a Licensed Professional Engineer; (d) Seller shall have delivered to Buyer the Delivery Term Security required under Article 8; (e) Seller has received all local, state and federal Governmental Approvals and other approvals as may be required by Law for the construction, operation and maintenance of the Project, including approvals, if any, required under the California Environmental Quality Act for the Project and related interconnection facilities; *[For Baseload, Peaking, Dispatchable Product only:* and (f) Seller shall have successfully completed the initial Capacity Test as required under Section 3.1(f)].

"Commercial Operation Date" means the date on which Seller achieves Commercial Operation for the Project.

"Conditions Precedent" has the meaning set forth in Section 2.3.

"Construction Period Security" shall mean the Performance Assurance that Seller is required to maintain during the period and as otherwise specified in Section 8.4(a)[(ii)/(iii)] to secure performance of its obligations hereunder.

"Contract Capacity" has the meaning set forth in Section 3.1(f).

[When Seller is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program: "Contract Energy" means the lower of Delivered Energy or Scheduled Energy for any given period in each case net of all Electrical Losses.]

"Contract Quantity" has the meaning set forth in Section 3.1(e).

"Contract Year" means a period of twelve (12) consecutive months (except in the case of the first Contract Year which may be longer) with the first Contract Year commencing on the Commercial Operation Date and each subsequent Contract Year commencing on the anniversary of the first day of the month following the Commercial Operation Date.

"Costs" means, with respect to the Non-Defaulting Party, brokerage fees, commissions and other similar third party transaction costs and expenses reasonably incurred by such Party either in terminating any arrangement pursuant to which it has hedged its obligations or entering into new arrangements which replace a Terminated Transaction; and all reasonable attorneys' fees and expenses incurred by the Non-Defaulting Party in connection with such Terminated Transaction.

"Cover Sheet" means the document that precedes Article 1: General Definitions to this Agreement.

"CP Satisfaction Date" shall mean the date on which all of the Conditions Precedent have been satisfied (or waived in writing by the Party described in Section 2.4).

"CPUC" or "Commission or successor entity" means the California Public Utilities Commission, or successor entity.

"CPUC Approval" means a final and non-appealable order of the CPUC, without conditions or modifications unacceptable to the Parties, or either of them, which contains the following terms:

(a) approves this Agreement in its entirety, including payments to be made by the Buyer, subject to CPUC review of the Buyer's administration of the Agreement; and

(b) finds that any procurement pursuant to this Agreement is procurement from an eligible renewable energy resource for purposes of determining Buyer's compliance with any obligation that it may have to procure eligible renewable energy resources pursuant to the California Renewables Portfolio Standard (Public Utilities Code Section 399.11 *et seq.*), Decision 03-06-071, or other applicable Law.

CPUC Approval will be deemed to have occurred on the date that a CPUC decision containing such findings becomes final and non-appealable. [For Agreements for the purchase and sale of TRECS only, use STC REC-3 instead of the foregoing]

[For Agreements with Delivery Terms greater than two years: "CPUC Approval Date" shall mean the date on which the Conditions Precedent set forth in Section 2.3(a) have been satisfied (or waived in writing by the beneficiary Party described in Section 2.4).]

[For Agreements with Delivery Terms greater than two years: "CPUC Approval Security" shall mean the Performance Assurance that Seller is required to maintain during the period and as otherwise specified in Section 8.4(a)(i) to secure performance of its obligations hereunder.]

"Credit Rating" means, with respect to any entity, the rating then assigned to such entity's unsecured, senior long-term debt obligations (not supported by third party credit enhancements) by S&P or Moody's.

"Daily Delay Damages" means an amount equal to (a) the Construction Period Security amount required hereunder, divided by (b) the number of days in the Project Cure Period.

"Day-Ahead Forecast" has the meaning set forth in Section 3.3([d/e]).

[For As-Available and Baseload Products only: "Deemed Bundled Green Energy" means the amount of Bundled Green Energy that Seller could reasonably have delivered to Buyer but was instructed not to deliver to Buyer by reason of Economic Dispatch Down. The quantity of Deemed Bundled Green Energy shall be equal to [For As-Available Products: (a) the Deemed Delivery Forecast of Energy corresponding to the applicable Economic Dispatch Down periods, whether or not Seller is participating in the VER Forecasting Program during such events, less the amount of Energy scheduled under Economic Dispatch Down as specified in the Dispatch Notice during such periods, and less any amount of Energy that was not delivered associated with any concurrent Planned Outage, Forced Outage, Force Majeure, System Dispatch Down, and/or CAISO fault but only to the extent the Deemed Delivery Forecast does not already reflect the foregoing provided that, if the applicable amount calculated pursuant to this clause (a) is negative, the Deemed Bundled Green Energy shall be zero (0), or (b) if there is no such Deemed Delivery Forecast available during the applicable Economic Dispatch Down periods or if the Bundled Green Energy amount has historically not been determined based on clause (i) of the definition of Bundled Green Energy, the amount of Bundled Green Energy that Seller could reasonably have delivered to Buyer but was instructed not to deliver to Buyer as a result of Economic Dispatch Down as determined by Buyer in a commercially reasonable manner, which amount shall not include any amount of Energy that was not delivered associated with any concurrent Planned Outage, Forced Outage, Force Majeure, System Dispatch Down, and/or CAISO fault.] [For Baseload Products: the amount of Bundled Green Energy that Seller could reasonably have delivered to Buyer but was instructed not to deliver to Buyer during the applicable Economic Dispatch Down periods, as determined by Buyer in a commercially reasonable manner, which amount shall not include any amount of Energy that was not delivered associated with any concurrent Planned Outage, Forced Outage, Force Majeure, System Dispatch Down, and/or CAISO fault.]]

[For As-Available only: "Deemed Delivery Forecast" means the forecast of the Energy to be produced by the Project prepared by the CAISO or its agent in accordance with the VER Forecasting Program and communicated to the Scheduling Coordinator, which forecast is the last such forecast prepared by the CAISO that does not reflect curtailed production as a result of Economic Dispatch Down periods. As of the Execution Date, such Deemed Delivery Forecast is the CAISO forecast generated through its Resource Specific VER Forecast Usage Report].

[Dispatchable Product only: "Default Availability Factor" means, for any period, the amount determined according to the following formula:

Default Availability Factor = (PH - (EDH - EEDH)) / PH

Where:

PH is the number of period hours;

EDH is the number of equivalent derate hours calculated as the sum, for each derate, of the product of the number of hours of full or partial derate hours times the size of the reduction from the initial Contract Capacity (as of the Commercial Operation Date) divided by the initial Contract Capacity. For the purposes of this calculation, a derate includes all outages for any reason, including without limitation, Forced Outages, Force Majeure

events, Dispatch Down Periods, Planned Outages, Buyer's failure to perform, and other times when any portion of the Contract Capacity is not available and when the Delivered Energy of the Project is less than the amount of Energy dispatched by Buyer; and

EEDH is the number of equivalent excused derate hours solely due to either Force Majeure events, Dispatch Down Periods or Buyer's failure to perform (and for no other reason), calculated as the sum, for each excused derate, of the product of the number of hours of full or partial derate hours times the size of the reduction from the initial Contract Capacity, divided by the initial Contract Capacity.]

"Defaulting Party" means the Party that is subject to an Event of Default.

"Default Rate" means for any date, the lesser of (a) the per annum rate of interest equal to the prime lending rate as may from time to time be published in *The Wall Street Journal* under "Money Rates" on such day (or if not published on such day on the most recent preceding day on which published), plus two percent (2%) and (b) the maximum rate permitted by applicable Law.

"Delivered Energy" means all Energy produced from the Project and delivered to Buyer at the Delivery Point as measured in MWh at the CAISO revenue meter of the Project based on a power factor of precisely one (1) and net of all Electrical Losses.

"Delivery Point" means the point at which Buyer receives Seller's Product, as set forth in Section 3.1(d).

"Delivery Term" has the meaning set forth in Section 3.1(c).

"Delivery Term Security" shall mean the Performance Assurance that Seller is required to maintain during the period and as otherwise specified in Section 8.4(a)[(iii)/(iv)] to secure performance of its obligations hereunder.

"Development Period Security" shall mean the Performance Assurance that Seller is required to maintain during the period and as otherwise specified in Section 8.4(a)[(i)/(ii)] to secure performance of its obligations hereunder.

"Disclosing Party" has the meaning set forth in Section 13.1(a).

"Disclosure Order" has the meaning set forth in Section 13.1(a).

"Dispatch Down Period" means the period of curtailment of delivery of Product from the Project resulting from System Dispatch Down *[For all Products other than Dispatchable Product:* or Economic Dispatch Down*]*.

"Dispatch Notice" means the operating instruction, and any subsequent updates given either by Buyer to Seller or by the CAISO to Seller, directing Seller to operate the Project at a specified megawatt output for the period of time set forth in such order. *[For Dispatchable Product only:* "Dispatchable" means a Unit Firm Product for which Seller makes available capacity for Buyer to Schedule and dispatch up or down at Buyer's option in accordance with Section 3.3([g/h]).]

"Distribution Upgrades" has the meaning set forth in the CAISO Tariff.

"DUNS" means the Data Universal Numbering System, which is a unique nine character identification number provided by Dun and Bradstreet.

"Early Termination Date" has the meaning set forth in Section 5.2.

[For all Products other than Dispatchable Product: "Economic Dispatch Down" means curtailment of delivery of Product from the Project that is the result of economic curtailment where Buyer (as the Scheduling Coordinator) or a third party Scheduling Coordinator (in accordance with Buyer's directions) either submits a self-schedule with a binding Product quantity or an economic bid in the applicable CAISO market or fails to submit any such schedule or bid, in either case, that when implemented by the CAISO results in an otherwise available Product quantity not being scheduled or awarded in such CAISO market and such curtailment is not concurrently the result of a Planned Outage, Forced Outage, Force Majeure, System Dispatch Down, and/or CAISO fault.

"Electrical Losses" means all electrical losses associated with the transmission of Product to the Delivery Point, including if applicable, but not limited to, any transmission or transformation losses between the CAISO revenue meter and the Delivery Point.

"Electrical Interconnection Upgrades" means the facilities to which Seller shall be able to interconnect and deliver Energy from the Project to and at the Delivery Point and Buyer shall be able to transmit Energy from the Delivery Point and the facilities that protect the Participating Transmission Owner's, Transmission Provider's, distribution operator's, or other affected system owner's, as applicable, electric system (or other systems to which such electric systems are connected, including the CAISO Grid) and the Participating Transmission Owner's, Transmission Provider's, distribution operator's, or other affected system owner's, as applicable, customers from faults occurring at the Project, including, but not limited to, all network, distribution, connection, transformation, switching, metering, communications, control, and safety equipment, as such equipment may be required pursuant to Good Industry Practices or in accordance with the Participating Transmission Owner's, Transmission Provider's, distribution operator's, or other affected system owner's, as applicable, facility connection requirements. Such Electrical Interconnection Upgrades include all Network Upgrades, Distribution Upgrades, Interconnection Facilities, and other network upgrades, distribution upgrades, or interconnection facilities on any other affected system owner's electrical system that are determined to be necessary by the CAISO, Participating Transmission Owner, other affected system owner, as applicable, to physically and electrically interconnect the Project to the Participating Transmission Owner's electric system so as to allow Seller to deliver Energy from the Project to the Delivery Point and Buyer to be able to transmit Energy from the Delivery Point.

"Eligible Renewable Energy Resource" or "ERR" has the meaning set forth in California Public Utilities Code Section 399.11, *et seq.*, as amended or supplemented from time to time. "Energy" means electric energy measured in MWh and net of Station Service (unless otherwise specified).

"Energy Price" has the meaning set forth in Section 4.[1/2](a).

"EPC Contract" means the Seller's engineering, procurement and construction contract with the EPC Contractor.

"EPC Contractor" means an engineering, procurement, and construction contractor, selected by Seller, with substantial experience in the engineering, procurement, and construction of power plants of the same type of facility as Seller's.

"Equitable Defenses" means any bankruptcy, insolvency, reorganization or other Laws affecting creditors' rights generally and, with regard to equitable remedies, the discretion of the court before which proceedings may be pending to obtain same.

[For Dispatchable Product only: "Equivalent Availability Factor" or "EAF" has the meaning set forth in Section 4.1(b).]

"Event of Default" has the meaning set forth in Section 5.1.

"Execution Date" means the date hereof as set forth in the preamble of the Cover Sheet.

"Executive(s)" has the meaning set forth in Section 12.2(a).

"FERC" means the Federal Energy Regulatory Commission or any successor government agency.

"Force Majeure" means any event or circumstance which wholly or partly prevents or delays the performance of any material obligation arising under this Agreement but only to the extent (1) such event is not within the reasonable control, directly or indirectly, of the Party seeking to have its performance obligation(s) excused thereby, (2) the Party seeking to have its performance obligation(s) excused thereby has taken all reasonable precautions and measures in order to prevent or avoid such event or mitigate the effect of such event on such Party's ability to perform its obligations under this Agreement and which by the exercise of due diligence such Party could not reasonably have been expected to avoid and which by the exercise of due diligence it has been unable to overcome, and (3) such event is not the direct or indirect result of the fault or negligence of the Party seeking to have its performance obligations excused thereby.

(a) Subject to the foregoing, events that could qualify as Force Majeure include, but are not limited to the following:

(i) acts of God, flooding, lightning, landslide, earthquake, fire, drought, explosion, epidemic, quarantine, storm, hurricane, tornado, volcano, other natural disaster or unusual or extreme adverse weather-related events;

(ii) war (declared or undeclared), riot or similar civil disturbance, acts of the public enemy (including acts of terrorism), sabotage, blockade, insurrection, revolution, expropriation or confiscation; or

(iii) except as set forth in subpart (b)(vii) below, strikes, work stoppage or other labor disputes (in which case the affected Party shall have no obligation to settle the strike or labor dispute on terms it deems unreasonable).

(b) Force Majeure shall not be based on:

(i) Buyer's inability economically to use or resell the Product purchased hereunder;

(ii) Seller's ability to sell the Product at a price greater than the price set forth in this Agreement;

(iii) Seller's inability to obtain Governmental Approvals or other approvals of any type for the construction, operation, or maintenance of the Project;

nature;

(iv) a lack of wind, sun or other fuel source of an inherently intermittent

(v) Seller's inability to obtain sufficient labor, equipment, materials, or other resources to build or operate the Project, except to the extent Seller's inability to obtain sufficient labor, equipment, materials, or other resources is caused by an event of Force Majeure of the specific type described in any of subsections (a)(i) through (a)(iii) above;

(vi) Seller's failure to obtain financing or other funds, including funds authorized by a state or the federal government or agencies thereof to supplement the payments made by Buyer pursuant to this Agreement;

(vii) a strike, work stoppage or labor dispute limited only to any one or more of Seller, Seller's Affiliates, the EPC Contractor or subcontractors thereof or any other third party employed by Seller to work on the Project; or

(viii) any equipment failure except if such equipment failure is caused solely by an event of Force Majeure of the specific type described in any of subsections (a)(i) though (a)(iii) above.

"Force Majeure Extension Period" has the meaning set forth in Section 3.9(c)(ii).

"Forced Outage" means any unplanned reduction or suspension of production of Product from the Project or unavailability of the Project in whole or in part that is not a Planned Outage or a willful withholding of Product when the Project is otherwise capable of delivering Product under Good Industry Practices.

"GAAP" has the meaning set forth in Section 13.4.

"Gains" means with respect to any Party, an amount equal to the present value of the economic benefit to it, if any (exclusive of Costs), resulting from the termination of this Agreement for the remaining Delivery Term, determined in a commercially reasonable manner, subject to Section 5.2 hereof. Factors used in determining economic benefit may include, without limitation, reference to information either available to it internally or supplied by one or more third parties, including, without limitation, quotations (either firm or indicative) of relevant rates, prices, yields, yield curves, volatilities, spreads or other relevant market data in the relevant markets market referent prices for renewable power set by the CPUC, comparable transactions, forward price curves based on economic analysis of the relevant markets, settlement prices for comparable transactions at liquid trading hubs (e.g., NYMEX), all of which should be calculated for the remaining term of this Agreement and include the value, if any, of Capacity Attributes, and Green Attributes.

"Good Industry Practice" means those practices, methods and acts that would be implemented and followed by prudent operators of electric transmission facilities (with respect to Buyer) or prudent operators of electric generation facilities similar to the Project (with respect to Seller) in the Western United States during the relevant time period, which practices, methods and acts, in the exercise of prudent and responsible professional judgment in the light of the facts known at the time the decision was made, could reasonably have been expected to accomplish the desired result consistent with good business practices, reliability and safety, and shall include, at a minimum, those professionally responsible practices, methods and acts described in the preceding sentence that comply with manufacturers' warranties, restrictions in this Agreement, and the requirements of Governmental Authorities, WECC standards, the CAISO and applicable Law. Good Industry Practice is not intended to be the optimum practice, method or act to the exclusion of all others, but rather is intended to be any of the practices, methods and/or actions generally accepted in the region.

"Governmental Approval" means all authorizations, consents, approvals, waivers, exceptions, variances, filings, permits, orders, licenses, exemptions and declarations of or with any governmental entity and, with respect to the Seller, shall include those siting and operating permits and licenses, and any of the foregoing under any applicable environmental Law, that are required for the construction, use, and operation of the Project.

"Governmental Authority" means any federal, state, local or municipal government, governmental department, commission, board, bureau, agency, or instrumentality, or any judicial, regulatory or administrative body, having jurisdiction as to the matter in question.

"Governmental Charges" has the meaning set forth in Section 9.2.

"Green Attributes" means, subject to the limitations in the final sentence of this definition, any and all credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, attributable to the generation from the Project, and its avoided emission of pollutants. Green Attributes include but are not limited to Renewable Energy Credits, as well as: (1) any avoided emission of pollutants to the air, soil or water such as sulfur oxides (SOx), nitrogen oxides (NOx), carbon monoxide (CO) and other pollutants; (2) any avoided emissions of carbon dioxide (CO2), methane (CH4), nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride and other greenhouse gases (GHGs) that have been determined by the United Nations

Intergovernmental Panel on Climate Change, or otherwise by Law, to contribute to the actual or potential threat of altering the Earth's climate by trapping heat in the atmosphere;¹ and (3) the reporting rights to these avoided emissions, such as Green Tag Reporting Rights. Green Tag Reporting Rights are the right of a Green Tag Purchaser to report the ownership of accumulated Green Tags in compliance with federal or state Law, if applicable, and to a federal or state agency or any other party at the Green Tag Purchaser's discretion, and include without limitation those Green Tag Reporting Rights accruing under Section 1605(b) of The Energy Policy Act of 1992 and any present or future federal, state, or local Law, regulation or bill, and international or foreign emissions trading program. Green Tags are accumulated on a MWh basis and one Green Tag represents the Green Attributes associated with one (1) MWh of Energy. Green Attributes do not include (i) any energy, capacity, reliability or other power attributes from the Project, (ii) production tax credits associated with the construction or operation of the Project and other financial incentives in the form of credits, reductions, or allowances associated with the Project that are applicable to a state or federal income taxation obligation, (iii) fuel-related subsidies or "tipping fees" that may be paid to Seller to accept certain fuels, or local subsidies received by the generator for the destruction of particular preexisting pollutants or the promotion of local environmental benefits, or (iv) emission reduction credits encumbered or used by the Project for compliance with local, state, or federal operating and/or air quality permits. If the Project is a biomass facility and Seller receives any tradable Green Attributes based on the greenhouse gas reduction benefits or other emission offsets attributed to its fuel usage, it shall provide Buyer with sufficient Green Attributes to ensure that there are zero net emissions associated with the production of electricity from the Project and for all electric generation using biomethane as fuel, Seller shall transfer to Buyer sufficient Green Attributes of biomethane production and capture to ensure that there are zero net emissions associated with the production of electricity from the Project using the biomethane.

"Guaranteed Commercial Operation Date" or "GCOD" means [*insert date*], as may be extended pursuant to Section 3.9(c)(ii).

"Guaranteed Energy Production" has the meaning set forth in Section 3.1(e).

"Guarantor" means, with respect to Seller, any person that (a) does not already have any material credit exposure to Buyer under any other agreements, guarantees, or other arrangements at the time its Guaranty is issued, (b) is an Affiliate of Seller, or other third party reasonably acceptable to Buyer, (c) has a Credit Rating of [____] or better from S&P or a Credit Rating of [___] or better from Moody's, (d) has a tangible net worth of at least [_____], (e) is incorporated or organized in a jurisdiction of the United States and is in good standing in such jurisdiction, and (f) executes and delivers a Guaranty for the benefit of Buyer substantially in the form attached hereto as Exhibit D. *[SDG&E will consider accepting a Guaranty based on the Project, the amount of Performance Assurance, and the identity of the Seller and Guarantor]*

¹ Avoided emissions may or may not have any value for GHG compliance purposes. Although avoided emissions are included in the list of Green Attributes, this inclusion does not create any right to use those avoided emissions to comply with any GHG regulatory program.

"Guaranty" means a guaranty from a Guarantor provided for the benefit of Buyer substantially in the form attached hereto as Exhibit D. [SDG&E will consider accepting a Guaranty based on the Project, the amount of Performance Assurance, and the identity of the Seller and Guarantor]

"Imbalance Energy" means the amount of Energy, in any given settlement interval, by which the amount of Delivered Energy deviates from the amount of Scheduled Energy.

"Initial Negotiation End Date" has the meaning set forth in Section 12.2(a).

"Interconnection Facilities" has the meaning set forth in the CAISO Tariff.

"Interest Amount" means, with respect to an Interest Period, the amount of interest derived from the product of (a) the sum of (i) the principal amount of Performance Assurance in the form of cash held by Buyer during that Interest Period, and (ii) the sum of all accrued and unpaid Interest Amounts accumulated prior to such Interest Period; multiplied by (b) the Interest Rate in effect on the first day of the Interest Period; multiplied by (c) the number of days in that Interest Period; divided by (d) 360.

"Interest Payment Date" means the date on which cash held as Performance Assurance is returned pursuant to the terms of this Agreement.

"Interest Period" means the monthly period beginning on the first day of each month and ending on the last day of each month or the shorter period during which Performance Assurance in the form of cash is held by Buyer.

"Interest Rate" means for any date the rate per annum equal to the Commercial Paper (nonfinancial, 3 months) rate as published the prior month in the Federal Reserve Statistical Release, H.15. Should publication of the interest rate on Commercial Paper (non-financial, 3 months) be discontinued, then the interest rate on commercial paper, which most closely approximates the discontinued rate, published the prior month in the Federal Reserve Statistical Release, H.15, or its successor publication.

"[Large/Small] Generator Interconnection Agreement" has the meaning set forth in the CAISO Tariff.

"Law" means any statute, law, treaty, rule, regulation, ordinance, code, Governmental Approval, enactment, injunction, order, writ, decision, authorization, judgment, decree or other legal or regulatory determination or restriction by a court or Governmental Authority of competent jurisdiction, including any of the foregoing that are enacted, amended, or issued after the Execution Date, and which become effective prior to the end of the Delivery Term; or any binding interpretation of the foregoing by a Governmental Authority.

"Letter(s) of Credit" means one or more irrevocable, standby letters of credit issued by a U.S. commercial bank or a U.S. branch of a foreign bank with such bank having a Credit Rating of at least [A-] with an outlook designation of "stable" from S&P or [A3] with an outlook designation of "stable" from Moody's, in substantially the form as contained in Exhibit C to this Agreement.

"Licensed Professional Engineer" means a person acceptable to Buyer in its reasonable judgment who (a) is licensed to practice engineering in California, (b) has training and experience in the power industry specific to the technology of the Project, (c) has no economic relationship, association, or nexus with Seller or Buyer, other than to meet the obligations of Seller pursuant to this Agreement, (d) is not a representative of a consultant, engineer, contractor, designer or other individual involved in the development of the Project or of a manufacturer or supplier of any equipment installed at the Project, and (e) is licensed in an appropriate engineering discipline for the required certification being made.

"Locational Marginal Price" has the meaning set forth in the CAISO Tariff.

"Losses" means with respect to any Party, an amount equal to the present value of the economic loss to it, if any (exclusive of Costs), resulting from a Terminated Transaction for the remaining term of this Agreement, determined in a commercially reasonable manner. Factors used in determining the loss of economic benefit may include, without limitation, reference to information either available to it internally or supplied by one or more third parties including without limitation, quotations (either firm or indicative) of relevant rates, prices, yields, yield curves, volatilities, spreads or other relevant market data in the relevant markets, market referent prices for renewable power set by the CPUC, comparable transactions, forward price curves based on economic analysis of the relevant markets, settlement prices for comparable transactions at liquid trading hubs (e.g. NYMEX), all of which should be calculated for the remaining term of this Agreement and include the value, if any, of Capacity Attributes, and Green Attributes.

"Manager" has the meaning set forth in Section 12.2(a).

"Milestones" has the meaning set forth in Section 3.9(b)(i).

[For Dispatchable Product only: "Monthly Capacity Payment" has the meaning set forth in Section 4.1(b).]

"Monthly Energy Payment" has the meaning set forth in Section 4.[1/2]([b/c]).

[For Dispatchable Product only: "Monthly Shaping Factor" has the meaning set forth in Section 4.1(b).]

"Moody's" means Moody's Investor Services, Inc., or its successor.

"MWh" means megawatt-hour.

"Negative Imbalance Energy" has the meaning set forth in Section 4.[2/3].

"NERC" means the North American Electric Reliability Corporation or a successor organization that is responsible for establishing reliability criteria and protocols.

"NERC Holiday" means any of the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Three of these days, Memorial Day, Labor Day, and Thanksgiving Day, occur on the same day each year. Memorial Day is the last Monday in May; Labor Day is the first Monday in September; and Thanksgiving Day is the fourth (4th) Thursday in November. New Year's Day, Independence Day, and Christmas Day occur on the same date each year, but in the event any of these holidays occur on a Sunday, the "NERC Holiday" is celebrated on the Monday immediately following that Sunday; and if any of these holidays occur on a Saturday, the "NERC Holiday" remains on that Saturday.

"Network Upgrades" has the meaning set forth in the CAISO Tariff.

"Non-Availability Charges" shall mean Non-Availability Charges as defined in FERC filing ER09-1064 or such other similar term as modified and approved by FERC thereafter to be incorporated in the CAISO Tariff or otherwise applicable to CAISO.

"Non-Defaulting Party" has the meaning set forth in Section 5.2.

"Notice" shall, unless otherwise specified in the Agreement, mean written communications by a Party to be delivered by hand delivery, United States mail, overnight courier service, facsimile or electronic messaging (e-mail).

"Notice to Proceed" or "NTP" means the notice provided by Seller to the EPC Contractor following execution of the EPC Contract between Seller and such EPC Contractor and satisfaction of all conditions precedent to performance of such contract, by which Seller authorizes such EPC Contractor to commence and complete full performance of the work under the EPC Contract without any delay or waiting periods.

"Outage Notification Form" means the completed document from Seller notifying Buyer or the CAISO of an outage of the Project substantially in the form attached hereto as Exhibit G. Buyer reserves the right to reasonably revise or change the form upon Notice to Seller.

[For intermittent As-Available Product: "Participating Intermittent Resource" shall have the meaning set forth in the CAISO Tariff.]

"Participating Transmission Owner" or "Participating TO" means an entity that (a) owns, operates and maintains transmission lines and associated facilities and/or has entitlements to use certain transmission lines and associated facilities that are interconnected to the Delivery Point and (b) has transferred to the CAISO operational control of such facilities and/or entitlements to be made part of the CAISO Grid. As of the Execution Date, the Participating Transmission Owner is *[San Diego Gas & Electric Company]*.

"Party" or "Parties" means the Buyer or Seller individually, or to both collectively.

[For Peaking Product only: "Peaking" means a Unit-Firm Product for which Energy must be delivered during hours ending 1200-1900 (11:00 am to 7:00 pm) on Monday-Friday, excluding NERC Holidays, for the months July through October and during hours ending 1400-2100 (1:00 pm to 9:00 pm) on Monday-Friday, excluding NERC Holidays, for the months November and December.] *[Note: Buyer will consider other firm products such as 6x16:* "6x16 Block" means a Unit-Firm Product for which Energy must be delivered during hours ending 0700-2200 (6:00 am to 10:00 pm) on Monday-Saturday throughout the Delivery Term.]

"Performance Assurance" means collateral provided by Seller to Buyer to secure Seller's obligations hereunder and includes *[For Agreements with Delivery Terms greater than two years:* CPUC Approval Security,] Development Period Security, Construction Period Security, and Delivery Term Security.

[For As-Available, Baseload, Peaking Product: "Performance Measurement Period" has the meaning set forth in Section 3.1(e).]

"Planned Outage" means any planned reduction or suspension of the electrical output from the Project or unavailability of the Project in whole or in part as a result of the inspection, maintenance, or repair of equipment that is scheduled in accordance with Section 3.7(a).

"PNode" has the meaning set forth in the CAISO Tariff.

"Positive Imbalance Energy" has the meaning set forth in Section 4.[2/3].

"Product" has the meaning set forth in Section 3.1(a).

[For Projects receiving PTCs: "Production Tax Credit" or "PTC" means the tax credit for electricity produced from certain renewable generation resources described in Section 45 of the Internal Revenue Code of 1986, as it may be amended from time to time.*J*

"Project" means all of the *[insert technology]* electric generating units, the Site at which the generating facility is located, the utility interconnection facilities up to the point of change in ownership to the applicable utility's facilities, and the other assets, tangible and intangible, that compose the generation facility as more particularly described on Exhibit A.

"Project Cure Period" has the meaning set forth in Section 3.9(c)(i).

"Quarterly Progress Report" means the report similar in form and content attached hereto as Exhibit F, as may be modified from time to time to meet applicable CPUC requirements.

"Recording" has the meaning set forth in Section 13.6.

"Reductions" has the meaning set forth in Section 3.2(c).

"Referral Date" has the meaning set forth in Section 12.2(a).

"Remedial Action Plan" has the meaning provided in Section 3.9(b)(ii).

"Renewable Energy Credit" has the meaning set forth in California Public Utilities Code Section 399.12(h) and CPUC Decision 08-08-028, as each may be amended from time to time or as further defined or supplemented by Law.

"Renewable Generation Equipment Supplier" means the supplier of the [electric generating [wind] [gas] [steam] turbine(s)] [solar electric generating equipment] for the Project, selected by Seller.

"Replacement Price" means the price (in dollars per megawatt hour) at which Buyer, acting in a commercially reasonable manner, purchases for delivery at the Delivery Point (or any other reasonably equivalent delivery point for Buyer) a replacement for any Product (including its associated Green Attributes) that was not Scheduled and delivered by Seller, plus (a) costs (calculated in dollars per megawatt hour) reasonably incurred by Buyer in purchasing such replacement Product and (b) additional transmission charges (calculated in dollars per megawatt hour), if any, reasonably incurred by Buyer for such replacement Product, or absent a purchase, the market price at the Delivery Point (or any other reasonably equivalent delivery point for Buyer) for such replacement Product for the hours impacted by such failure to Schedule or deliver such Product as determined by Buyer in a commercially reasonable manner. The Replacement Price also shall include all CAISO and other charges and penalties calculated in dollars per megawatt hour with respect to the deviation from the Scheduled supply resulting from Seller's failure to Schedule or deliver; provided, however, in no event shall such price include any ratcheted demand or similar charges, nor shall Buyer be required to utilize or change its utilization of its owned or controlled assets or market positions to minimize Seller's liability. For the purposes of this definition, Buyer shall be considered to have purchased replacement Product to the extent Buyer shall have entered into one or more arrangements in a commercially reasonable manner whereby Buyer repurchases its obligation to sell and deliver the Product to another party. If for any reason a Replacement Price is unavailable when Seller fails to deliver or Schedule Product, then the Replacement Price for the hours when a Replacement Price is unavailable shall be the last available Replacement Price together with any charges and penalties allocated to Buyer during such time.

"Resource Adequacy" means the procurement obligation of load serving entities, including Buyer, as such obligations are described in CPUC Decisions 04-01-050, 04-10-035, 05-10-042, 06-04-040, 06-06-064, 06-07-031, 07-06-029, 08-06-031, 09-06-028, 10-06-036, 11-06-022, 12-06-025, 13-06-024, and subsequent CPUC decisions addressing Resource Adequacy issues, as those obligations may be altered from time to time in the CPUC Resource Adequacy Rulemakings (R.) 04-04-003 and (R.) 05-12-013 or by any successor proceeding, and all other Resource Adequacy obligations established by any other entity, including the CAISO.

"Sales Price" means the price (in dollars per megawatt hour) at which Seller, acting in a commercially reasonable manner, resells any Product not Scheduled and received by Buyer, deducting from such proceeds any (a) costs (calculated in dollars per megawatt hour) reasonably incurred by Seller in reselling such Product including all costs charged by CAISO to Schedule and deliver the Product into the CAISO System, and (b) additional transmission charges (calculated in dollars per megawatt hour), if any, reasonably incurred by Seller in Scheduling and delivering such Product to the third party purchasers, or absent a sale despite commercially reasonable efforts to resell the Product, zero. The Sales Price shall also be reduced by all CAISO and other costs, charges and penalties with respect to the deviation from the Scheduled supply, in each case, resulting from Buyer's failure to take Product and calculated in dollars per megawatt hour; provided, however, in no event shall such price include any ratcheted demand or similar charges, nor shall Seller be required to utilize or change its utilization of its owned or controlled assets, including contractual assets, or market positions to minimize Buyer's liability. The Sales Price may be less than zero.

"S&P" means the Standard & Poor's Rating Group (a division of McGraw-Hill, Inc.) or its successor.

"Schedule" means the actions of Seller, Buyer and/or their designated representatives, or Scheduling Coordinators, including each Party's Transmission Providers, if applicable, of notifying, requesting and confirming to each other and the CAISO the quantity and type of Product to be delivered at any given time at a specified Delivery Point.

"Scheduling Coordinator" or "SC" means an entity certified by the CAISO as qualifying as a Scheduling Coordinator pursuant to the CAISO Tariff, for the purposes of undertaking the functions specified in "Responsibilities of a Scheduling Coordinator," of the CAISO Tariff, as amended from time-to-time.

"Scheduled Energy" means the Energy that clears under the applicable CAISO market based on the final Schedule developed in accordance with this Agreement, the operating procedures developed by the Parties pursuant to Section 3.10, and the applicable CAISO Tariff, protocols and Scheduling practices.

"SEC" means the U.S. Securities and Exchange Commission.

"Seller" shall have the meaning set forth on the Cover Sheet.

"Settlement Amount" means, with respect to the Non-Defaulting Party, the Losses or Gains, and Costs, expressed in U.S. Dollars, which such Party incurs as a result of the liquidation of a Terminated Transaction pursuant to Sections 5.2 and 5.3.

"Site" shall mean the location of the Project as described in Exhibit A.

"Station Service" means the electric energy produced by the Project that is used within the Project to power the lights, motors, control systems and other auxiliary electrical loads that are necessary to support the operation of the Project.

"System Dispatch Down" means curtailment of delivery of Product from the Project resulting from (a) curtailment ordered by the CAISO (whether directly or through the Scheduling Coordinator or the Participating Transmission Owner), for any reason, including, but not limited to, an Exceptional Dispatch (as defined in the CAISO Tariff), any system emergency as defined in the CAISO Tariff ("System Emergency"), any warning of an anticipated System Emergency, or any warning of an imminent condition or situation which could jeopardize the CAISO's or Participating Transmission Owner's electric system integrity or the integrity of other systems to which the CAISO or Participating Transmission Owner is connected, any warning, forecast, or anticipated overgeneration conditions, including a request from CAISO to manage over-generation conditions; (b) curtailment ordered by the Participating Transmission Owner or distribution operator (if interconnected to distribution or sub-transmission system) for reasons including, but not limited to, (i) any situation that affects normal function of the electric system including, but not limited to, any abnormal condition that requires action to prevent circumstances such as equipment damage, loss of load, or abnormal voltage conditions, (ii) any warning, forecast or anticipation of conditions or situations that jeopardize the Participating Transmission Owner's electric system integrity or the integrity of other systems to which the Participating Transmission Owner is connected; (c) curtailment ordered by the Participating Transmission Owner or distribution operator (if interconnected to distribution or sub-transmission system) as a result of scheduled or unscheduled maintenance or construction on the Participating Transmission Owner's

transmission facilities or distribution operator's facilities (if interconnected to distribution or subtransmission system) that instructs the Seller not to deliver, or prevents the receipt of Delivered Energy to or at the Delivery Point, (d) curtailment in accordance with Seller's obligations under its interconnection agreement with the Participating Transmission Owner or distribution operator, *[If the Project is located outside of the CAISO:* or (e) curtailment ordered by the Transmission Provider provided, that Seller has contracted for firm transmission with such Transmission Provider for the Product to be delivered to the Delivery Point and such curtailment is due to "force majeure" or "uncontrollable force" or a similar term as defined under the Transmission Provider's tariff]; *[For Dispatchable Product only:* or ([e/f]) curtailment ordered by Buyer pursuant to a Dispatch Notice.*] [For all Products other than Dispatchable:* provided, however, that System Dispatch Down shall not include Economic Dispatch Down].

"Terminated Transaction" means the termination of this Agreement in accordance with Section 5.2 of this Agreement.

"Termination Payment" has the meaning set forth in Section 5.2.

"Transmission Provider" means any entity or entities transmitting or transporting the Product on behalf of Seller or Buyer to or from the Delivery Point.

[For Baseload, Peaking, or Dispatchable Product only: "Unit Firm" means, with respect to a Product, that the Product is intended to be supplied from the Project, and subject to the terms of this Agreement, Seller is excused from selling and delivering the Product to Buyer, and Seller shall not be liable to Buyer for any damages determined pursuant to Section 3.1(h) of the Agreement, in the event that Seller fails to deliver the Product to Buyer for any of the following reason:

- (a) if the Project is unavailable as a result of a Forced Outage and such Forced
 Outage is not the result of Seller's negligence or willful misconduct;
- (b) Force Majeure;
- (c) by the Buyer's failure to perform;
- (d) by a Planned Outage of the Project; or
- (e) a reduction in output as ordered under Dispatch Down Periods.

The following products shall be considered "Unit Firm" products: Peaking, Baseload, and Dispatchable.]

[For an intermittent As-Available Product only: "VER Forecasting Program" means the rules, protocols, procedures and standards for Participating Intermittent Resources under the CAISO's Eligible Intermittent Resource Protocol, as may be amended from time to time, as set forth in the CAISO Tariff.]

"WECC" means the Western Electricity Coordinating Council or successor agency.

"WREGIS" means the Western Renewable Energy Generating Information System or any successor renewable energy tracking program.

1.2 <u>Interpretation</u>. The following rules of interpretation shall apply:

(a) The term "month" shall mean a calendar month unless otherwise indicated, and a "day" shall be a 24-hour period beginning at 12:00:01 a.m. Pacific Prevailing Time and ending at 12:00:00 midnight Pacific Prevailing Time; provided that a "day" may be 23 or 25 hours on those days on which daylight savings time begins and ends.

(b) Unless otherwise specified herein, all references herein to any agreement or other document of any description shall be construed to give effect to amendments, supplements, modifications or any superseding agreement or document as then exist at the applicable time to which such construction applies.

(c) Capitalized terms used in this Agreement, including the appendices hereto, shall have the meaning set forth in Article 1, unless otherwise specified.

(d) Unless otherwise specified herein, references in the singular shall include references in the plural and vice versa, pronouns having masculine or feminine gender will be deemed to include the other, and words denoting natural persons shall include partnerships, firms, companies, corporations, joint ventures, trusts, associations, organizations or other entities (whether or not having a separate legal personality). Other grammatical forms of defined words or phrases have corresponding meanings.

(e) The term "including" when used in this Agreement shall be by way of example only and shall not be considered in any way to be in limitation.

(f) References to a particular article, section, subsection, paragraph, subparagraph, appendix or attachment shall, unless specified otherwise, be a reference to that article, section, subsection, paragraph, subparagraph, appendix or attachment in or to this Agreement.

(g) Any reference in this Agreement to any natural person, Governmental Authority, corporation, partnership or other legal entity includes its permitted successors and assigns or to any natural person, Governmental Authority, corporation, partnership or other legal entity succeeding to its functions.

(h) All references to dollars are to U.S. dollars.

ARTICLE TWO: EFFECTIVENESS OF AGREEMENT; CONDITIONS PRECEDENT

2.1 <u>Effectiveness of Agreement Prior to CP Satisfaction Date</u>. Commencing on the Execution Date until the CP Satisfaction Date, this Agreement shall be in full force and effect, enforceable and binding only to the extent required to give full effect to, and enforce, the rights and obligations of the Parties under this Article 2, including, as it relates to Article 2, the rights and obligations under Articles 1, 5, 7, 8, 9, 10, 11, 12, and 13.

2.2 <u>Obligations of the Parties</u>. The Parties shall cooperate with each other to cause the Conditions Precedent to be satisfied as soon as reasonably practical.

Seller's Obligations. Prior to the CP Satisfaction Date, Seller shall (i) use (a) commercially reasonable efforts to pursue satisfaction of the Conditions Precedent set forth in Sections [], (ii) diligently pursue development of the Project in accordance with Section 3.9, (iii) comply with Section 3.9(b) in achieving the applicable Milestones that have due dates occurring prior to the CP Satisfaction Date, reporting completion of such Milestones, and delivering Remedial Action Plans in respect of missed Milestones as more fully described therein, (iv) deliver the Quarterly Progress Report in accordance with Section 3.9(a), and (v) otherwise comply with its obligations, covenants, representations, and warranties under Articles 7-13. [For Agreements with Delivery Terms greater than two years: Upon an Event of Default of Seller prior to the CPUC Approval Date, Buyer may terminate this Agreement in which case Seller shall owe Buyer liquidated damages in the amount of the CPUC Approval Security.] Upon an Event of Default of Seller *[For Agreements with Delivery Terms greater than two years:* on or after the CPUC Approval Date but] prior to the CP Satisfaction Date, Buyer may terminate this Agreement in which case Seller shall owe Buyer liquidated damages in the amount of the Development Period Security. Buyer may retain such Performance Assurances to pay such liquidated damages. Each Party agrees and acknowledges that (a) the actual damages that Buyer would incur due to an Event of Default of Seller prior to the CP Satisfaction Date would be difficult or impossible to predict with certainty, (b) the liquidated damages set forth in this section are a reasonable and appropriate approximation of such damages, and (c) the liquidated damages set forth in this section are the exclusive remedy for an Event of Default of Seller prior to the CP Satisfaction Date.

Buyer's Obligations. Prior to the CP Satisfaction Date, Buyer shall (i) use (b) commercially reasonable efforts to pursue satisfaction of the Conditions Precedent set forth in Sections 2.3(a), and (ii) otherwise comply with its obligations, covenants, representations, and warranties under Articles 7-13. [For Agreements with Delivery Terms greater than two years: Upon an Event of Default of Buyer prior to the CPUC Approval Date, Seller may terminate this Agreement in which case Buyer shall owe Seller liquidated damages in the amount of the CPUC Approval Security.] Upon an Event of Default of Buyer /For Agreements with Delivery Terms greater than two years: on or after the CPUC Approval Date but] prior to the CP Satisfaction Date, Seller may terminate this Agreement in which case Buyer shall owe Seller liquidated damages in the amount of the Development Period Security. Each Party agrees and acknowledges that (a) the actual damages that Seller would incur due to an Event of Default of Buyer prior to the CP Satisfaction Date would be difficult or impossible to predict with certainty, (b) the liquidated damages set forth in this section are a reasonable and appropriate approximation of such damages, and (c) the liquidated damages set forth in this section are the exclusive remedy for an Event of Default of Buyer prior to the CP Satisfaction Date.

2.3 <u>Conditions Precedent</u>. Subject to Section 2.1, the effectiveness of the remainder of this Agreement is conditioned upon the satisfaction (or waiver by the Party described in Section 2.4) of all of the following conditions precedent ("Conditions Precedent") by the deadline dates set forth below for each Condition Precedent without extension for Force Majeure or any other reason:

(a) <u>CPUC Approval</u>. No later than [_____], Buyer shall have obtained CPUC Approval. Prior to this deadline, should the CPUC issue an order approving this Agreement but with conditions or modifications that materially alter the commercial aspects of this Agreement, the Parties agree to use good faith efforts to renegotiate this Agreement and file the amended agreement with the CPUC seeking CPUC Approval therefor. If, no later than the earlier of (i) sixty (60) days after such order or (ii) the deadline date above, no agreement is reached, either Party may terminate this Agreement upon delivery of Notice to the other Party.

(b) <u>Electrical Interconnection</u>. No later than [_____], Seller shall have entered into a [Large/Small] Generator Interconnection Agreement providing for the construction of the Electrical Interconnection Upgrades necessary to maintain the "[Full Capacity] [Energy Only] Deliverability Status" (as defined in the CAISO Tariff) of the Project and setting forth:

(i) an estimated in-service interconnection date for the "Participating TO's Interconnection Facilities," the "Network Upgrades," and the "Distribution Upgrades" (as each term is defined in the CAISO Tariff) of no later than [_____] months after Seller provides the Participating Transmission Owner with the appropriate security and written authorization to proceed under its [Large/Small] Generator Interconnection Agreement for the Project,

(ii) a refundable cost for "Network Upgrades" (as defined in the CAISO Tariff) that Seller would be obligated to pay and would be entitled to reimbursement from the CAISO, a Participating Transmission Owner, or any other affected transmission provider as provided thereunder not exceeding \$[____], and [*Note: Seller may propose additional provisions whereby Seller can satisfy this Condition Precedent by buying down the Network Upgrade costs that exceed the foregoing cost cap in a manner that is mutually acceptable to the Parties.*]

(iii) a nonrefundable cost that Seller would be obligated to pay thereunder not exceeding \$[_____] (or such greater amount as Seller may approve, in its sole discretion).

(c) [Others, Major Governmental Approvals, Financing, etc.]

2.4 Failure to Meet All Conditions Precedent.

(a) <u>Beneficiary Party</u>.

(i) Both of the Parties are the beneficiaries of the Conditions Precedent set forth in Sections 2.3(a), 2.3(b)(i)-(ii) *[Others]*, and in order for a waiver of non-satisfaction of such Conditions Precedent to be effective, both of the Parties must waive (in their sole discretion) non-satisfaction by the deadline date therefor.

(ii) Buyer shall be the sole beneficiary of the Conditions Precedent set forth in Sections *[List]*, and in order for a waiver of non-satisfaction of such Conditions Precedent to be effective, Buyer alone must waive (in its sole discretion) non-satisfaction by the deadline date therefor.

(iii) Seller shall be the sole beneficiary of the Conditions Precedent set forth in Sections 2.3(b)(iii) *[Others]*, and in order for a waiver of non-satisfaction of such Conditions Precedent to be effective, Seller alone must waive (in its sole discretion) non-satisfaction by the deadline date therefor.

(b) <u>Termination</u>. If any of the Conditions Precedent is not satisfied or waived in writing by the beneficiary Parties thereto on or before the date that is fifteen (15) days after the applicable deadline date therefor, then this Agreement shall automatically terminate with no further obligation to either Party (other than as set forth in Sections 2.4(b)(i)-(ii) below and any other payment obligations which are accrued and payable at the time of termination).

(i) Upon a termination of this Agreement for any reason under Section 2.4 other than as described in Section 2.4(b)(ii) below, Seller shall forfeit to Buyer an amount equal to the Performance Assurance then required to be delivered to Buyer hereunder. Buyer may retain such Performance Assurance to pay such amount.

(ii) Upon a termination of this Agreement under this Section 2.4 as a result of the failure of the Conditions Precedent set forth in Sections 2.3(a) to be satisfied (or waived by both Parties) or as a result of the failure of the Conditions Precedent set forth in Sections 2.3(b)(i)-(ii) to be satisfied or waived by Buyer, Buyer shall return to Seller the Performance Assurances then held by Buyer.

2.5 Effectiveness of Agreement on and after CP Satisfaction Date. This Agreement shall be in full force and effect, enforceable and binding in all respects as of the CP Satisfaction Date until the conclusion of the Delivery Term or earlier termination pursuant to the terms of this Agreement; provided however, that this Agreement shall remain in effect until (i) the Parties have fulfilled all obligations under this Agreement, including payment in full of amounts due for the Product delivered prior to the end of the Delivery Term, the Settlement Amount, indemnification payments or other damages (whether directly or indirectly such as through set-off or netting) and (ii) the undrawn portion of the *[For Agreements with Delivery Terms greater than two years:* CPUC Approval Security,] Development Period Security, Construction Period Security, or Delivery Term Security, as applicable, is released and/or returned as applicable (if any is due). All indemnity rights shall survive the termination or expiration of this Agreement for the longer of twelve (12) months or the expiration of the statute of limitations period of the claim underlying the indemnity obligation.

ARTICLE THREE: OBLIGATIONS AND DELIVERIES

3.1 <u>Transaction</u>.

(a) <u>Product</u>. The "Product" to be delivered and sold by Seller and received and purchased by Buyer under this Agreement is *[Seller to select:* As-Available, Baseload, Peaking, or Dispatchable*]* Energy, Capacity Attributes, Green Attributes, and other ancillary products, services or attributes similar to the foregoing which are or can be produced by or associated with the Project (net of Station Service) in accordance with the terms hereof.

(b) <u>Transaction</u>. Unless specifically excused by the terms of this Agreement during the Delivery Term, Seller shall sell and deliver, or cause to be delivered, and Buyer shall

purchase and receive, or cause to be received, the Product at the Delivery Point, and Buyer shall pay Seller for the Product in accordance with the terms hereof. In no event shall Seller have the right to procure any element of the Product from sources other than the Project for sale or delivery to Buyer under this Agreement *[If the Project is located outside of the CAISO:* except with respect to Imbalance Energy from the Transmission Provider].

(c) <u>Delivery Term</u>. The Parties agree that the period of Product delivery is [___] Contract Years. As used herein, "Delivery Term" shall mean the period of Contract Years specified above beginning on the Commercial Operation Date and continuing until the end of the last Contract Year unless terminated earlier as provided by the terms of this Agreement.

(d) <u>Delivery Point</u>. The Delivery Point shall be [the point of interconnection of the Project to the CAISO Grid] *[Seller may specify another delivery point; for a Project located outside the CAISO Grid, the Delivery Point should be a CAISO Scheduling Point as defined by the CAISO]* and for financial settlement purposes under the applicable CAISO market, the PNode corresponding to such point.

[For Baseload, Peaking, As-Available Product: Contract Quantity and (e) Guaranteed Energy Production. The quantity of Bundled Green Energy that Seller expects to be able to deliver to Buyer during each Contract Year is [____] MWh ("Contract Quantity"). Throughout the Delivery Term, Seller shall be required to deliver to Buyer no less than the Guaranteed Energy Production (as defined below) in any [twelve (12)] [twenty-four (24)] consecutive calendar month period during the Delivery Term ("Performance Measurement Period"). "Guaranteed Energy Production" means an amount of Bundled Green Energy, as measured in MWh, equal to [two times] []% of the Contract Quantity. Notwithstanding the excuses to performance set forth in the definition of the Product type (as such Product type is specified in Section 3.1(a)), Seller shall be excused from achieving the Guaranteed Energy Production during any Performance Measurement Period only to the extent of any Force Majeure events, Buyer's failure to perform, or Dispatch Down Periods. For purposes of determining whether Seller has achieved the Guaranteed Energy Production. Seller shall be deemed to have delivered to Buyer an amount of Bundled Green Energy that it could reasonably have delivered to Buyer but was prevented from delivering to Buyer by reason of any Force Majeure events or Buyer's failure to perform, or was instructed not to deliver to Buyer during Dispatch Down Periods.] /For Dispatchable Product: Contact Quantity. The quantity of Bundled Green Energy that Seller expects to be able to deliver to Buyer during each Contract Year is [] MWh ("Contract Quantity").]

(f) <u>Contract Capacity</u>. The "Contract Capacity" is the full generation capacity of the Project net of all Station Service which shall be *[For As-Available Product:* no less than [___] MW and no greater than [___] MW] *[For Baseload, Peaking, or Dispatchable Product only:* an amount determined periodically pursuant to a Capacity Test as set forth below]. Throughout the Delivery Term, Seller shall sell and Schedule all Product associated with the Contract Capacity of the Project solely to Buyer, except in the case of an Event of Default of Buyer or an unexcused failure by Buyer to Schedule, receive, and pay for Product under Section 3.1(h)(ii) *[If the Project is located outside of the CAISO:* or the sale of Imbalance Energy to the Transmission Provider]. *[For Dispatchable Product:* Throughout the Delivery Term, Seller shall make the Contract Capacity available solely to Buyer at all times, except in the case of an Event

of Default of Buyer or an unexcused failure by Buyer to Schedule, receive, and pay for Product under Section 3.1(h)(ii) *[If the Project is located outside of the CAISO:* or the sale of Imbalance Energy to the Transmission Provider].]

(i) *[For Baseload, Peaking, Dispatchable Product:* Initial Capacity <u>Testing</u>. Upon no less than fourteen (14) days prior Notice to Buyer, Seller shall schedule and complete a Capacity Test prior to the Commercial Operation Date for the Project. Such initial Capacity Test shall establish the Contract Capacity for the Project for the first Contract Year.]

(ii) *[For Baseload, Peaking, Dispatchable Product:* <u>Annual Capacity</u> <u>Testing</u>. Thereafter, at least once per Contract Year within the first quarter of each Contract Year, upon no less than 14 days prior Notice to Buyer, Seller shall schedule and complete a Capacity Test. In addition, Buyer shall have the right to require a retest of the Capacity Test at any time upon five (5) days prior written Notice to Seller if Buyer reasonably believes that the actual Contract Capacity has varied materially from the results of the most recent tests. Seller shall have the right to run a retest of the Capacity Test at any time upon two (2) days prior written Notice to Buyer (or any shorter period reasonably acceptable to Buyer consistent with Good Industry Practices).]

(iii) *[For Baseload, Peaking, Dispatchable Product:* <u>Witness at</u> <u>Capacity Tests.</u> Buyer shall have the right to send one or more representative(s) to witness all Capacity Tests.]

(iv) *[For Baseload, Peaking, Dispatchable Product:* <u>Capacity Test</u> <u>Reporting</u>. No later than fourteen (14) days following any Capacity Test, Seller shall submit a testing report detailing results and findings of the test. The report shall include meter readings and plant log sheets verifying the operating conditions and output of the Project. The Contract Capacity determined pursuant to a Capacity Test shall become the new Contract Capacity at the beginning of the day following the completion of the test for all purposes under this Agreement.]

(v) *[For Baseload, Peaking, Dispatchable Product:* <u>Capacity Test</u> <u>Costs and Payments</u>. Buyer shall pay the [Monthly Energy Payment] in respect of the Product produced during the initial Capacity Test prior to the Commercial Operation Date and each annually scheduled Capacity Test thereafter. In addition, Buyer shall pay the [Monthly Energy Payment] in respect of the Product produced during any other Buyer requested test unless the results of such test demonstrate that the actual Contract Capacity has varied by more than two percent (2%) from the results of the most recent tests, in which case Buyer shall pay the lesser of the [Monthly Energy Payment] in respect of the Product produced during such test and the applicable CAISO real-time hourly average energy price. In addition, Buyer shall pay the lesser of the [Monthly Energy Payment] in respect of the Product produced during any Seller requested test and the applicable CAISO real-time hourly average energy price]. Buyer is responsible for all costs, expenses and fees payable or reimbursable to its representative(s) witnessing Capacity Testing. All other costs of any Capacity Tests shall be borne by Seller.]

(g) <u>Project</u>. All Product provided by Seller pursuant to this Agreement shall be supplied from the Project only *[If the Project is located outside of the CAISO:* except with respect to Imbalance Energy from the Transmission Provider]. Other than maintenance in accordance

with Good Industry Practices, Seller shall not make any alteration or modification to the Project which results in a change to the Contract Capacity of the Project or any other material changes to the Project without Buyer's prior written consent. The Project is further described in Exhibit A.

(h) <u>Performance Excuses</u>.

(i) <u>Seller Excuses</u>. The performance of Seller to Schedule, deliver, and sell the Product shall be excused only for the reasons set forth in the definition of *[Seller to select:* "As-Available" or "Unit Firm"*]*. If Seller fails to Schedule, deliver, or sell all or part of the Product for a period or a series of periods that is cumulatively longer than thirty (30) days, and such failure is not excused as described above, then such failure shall be an Event of Default. If Seller fails to Schedule, deliver, or sell all or part of the Product for any period prior to an Early Termination Date, and such failure is not excused as described above, then Seller shall pay Buyer, on the date payment would otherwise be due in respect of the month in which the failure occurred an amount for such Product deficiency equal to the positive difference, if any, obtained by subtracting (A) the product of the Energy Price times the Product deficiency, from (B) the product of the Replacement Price times the Product deficiency. The invoice for such amount shall include a written statement explaining in reasonable detail the calculation of such amount.

Buyer Excuses. The performance of Buyer to Schedule, receive, (ii) and pay for the Product shall be excused only (A) during periods of Force Majeure, (B) by Seller's failure to perform or (C) during Dispatch Down Periods *[For all Products other than* Dispatchable Product: (except that Buyer shall not be excused from paying for the Product as required under Section 3.4 during periods of Economic Dispatch Down)/. If Buyer fails to Schedule, receive, or purchase all or part of the Product for a period or a series of periods that is cumulatively longer than thirty (30) days and such failure is not excused as described above, then then such failure shall be an Event of Default. If Buyer fails to Schedule, receive, or purchase all or part of the Product for any period prior to an Early Termination Date and such failure is not excused as described above, then Buyer shall pay Seller, on the date payment would otherwise be due in respect of the month in which the failure occurred an amount for such Product deficiency equal to the positive difference, if any, obtained by subtracting (Y) the product of the Sales Price times the Product deficiency from (Z) the product of the Energy Price times the Product deficiency. The invoice for such amount shall include a written statement explaining in reasonable detail the calculation of such amount.

(i) <u>Green Attributes</u>. Seller hereby provides and conveys all Green Attributes associated with all electricity generation from the Project to Buyer as part of the Product being delivered. Seller represents and warrants that Seller holds the rights to all Green Attributes from the Project, and Seller agrees to convey and hereby conveys all such Green Attributes to Buyer as included in the delivery of the Product from the Project. For all electric generation using biomethane as fuel, neither Buyer nor Seller may make a marketing, regulatory, or retail claim that asserts that a procurement contract to which that entity was a party resulted, or will result, in greenhouse gas reductions related to the destruction of methane if the capture and destruction is required by Law. If the capture and destruction of the biomethane is not required by Law, neither Buyer nor Seller may make a marketing, regulatory, or retail claim that asserts that a procurement contract to which that entity was a party result, in greenhouse gas reductions related to the destruction of the biomethane is not required by Law, neither Buyer nor Seller may make a marketing, regulatory, or retail claim that asserts that a procurement contract to which that entity was a party resulted, or will result, in greenhouse gas reductions related to the destruction of methane, unless the environmental attributes associated with the capture and destruction of the biomethane pursuant to that contract are transferred to Buyer and retired on behalf of the retail customers consuming the electricity associated with the use of that biomethane, or unless Seller's procurement contract with the source of biomethane prohibits the source of biomethane from separately marketing the environmental attributes associated with the capture and destruction of the biomethane sold pursuant to that contract, and such attributes have been retired.

(j) <u>Resource Adequacy</u>. During the Delivery Term, Seller grants, pledges, assigns and otherwise commits to Buyer all of the Project's Contract Capacity, including Capacity Attributes, from the Project for Buyer to use in meeting its Resource Adequacy or successor program requirements, as the CPUC, CAISO or other regional entity may prescribe. Seller understands that the CPUC is updates or modifies the requirements for Resource Adequacy from time to time, and these requirements and the implementation thereof are subject to change. Seller agrees that it shall take all commercially reasonable actions and execute any and all documents or instruments reasonably necessary to enable Buyer to use all of the Contract Capacity, including Capacity Attributes, to be committed by Seller to Buyer pursuant to this Agreement for the Resource Adequacy requirements of Buyer. Seller agrees that the Project is subject to the terms of the Availability Standards.

(k) <u>WREGIS</u>. Prior to the initial delivery of Energy to Buyer, Seller shall register the Project in WREGIS, execute a CAISO Qualified Reporting Entity Service Agreement to allow CAISO, on the Seller's behalf, to upload generation information directly into WREGIS, and take all other actions necessary to ensure that the Green Attributes produced from the Project in an amount equal to the amount of Delivered Energy are issued and tracked for purposes of satisfying the requirements of the California Renewable Portfolio Standard and transferred to Buyer, including payment of all fees required to register the facility in WREGIS, issue WREGIS certificates, and transfer such certificates to Buyer. Within seventy-five (75) days after the initial delivery of energy to Buyer, Seller shall provide to Buyer written approval from WREGIS for Seller's generation to be reported to WREGIS. Seller warrants that all necessary steps to allow the Renewable Energy Credits transferred to Buyer to be tracked in WREGIS will be taken prior to the first delivery under the Agreement.

(1) <u>Prevailing Wage</u>. To the extent applicable, Seller shall comply with the prevailing wage requirements of California Public Utilities Code Section 399.13, subdivision (h).

3.2 <u>Transmission</u>.

(a) <u>Seller's Transmission Service Obligations</u>. During the Delivery Term, Seller shall arrange and be responsible for transmission service for delivery of the Product to and at the Delivery Point and bear all risks and costs associated with such transmission service, including, but not limited to, all Transmission Provider costs and charges, electric transmission losses, and any transmission outages or curtailment, except as provided otherwise in this Agreement in respect of Dispatch Down Periods. *[For Projects located outside of CAISO:* Seller shall obtain and maintain during the Delivery Term firm transmission service to deliver the Product from the Site to the Delivery Point from all intermediary Transmission Providers between the Site and the Delivery Point. At Buyer's request, Seller shall provide to Buyer a copy of all firm transmission service agreements and any amendments thereto.] Seller shall fulfill all contractual, metering and applicable interconnection requirements, including those set forth in Participating Transmission Owner's applicable tariffs, the CAISO Tariff and implementing CAISO standards and requirements, including, but not limited to, executing applicable interconnection agreements, Participating Generator Agreement and Meter Service Agreement so as to be able to deliver Energy to the CAISO Grid. Seller shall arrange for any interconnection agreement with the CAISO and such interconnection agreement is separate from and not a part of this Agreement.

(b) <u>Buyer's Transmission Service Obligations</u>. During the Delivery Term, Buyer shall arrange and be responsible for transmission service for delivery of the Product from the Delivery Point and bear all risks and costs associated with such transmission service, including, but not limited to, all Transmission Provider costs and charges, electric transmission losses, and any transmission outages or curtailment, except as provided otherwise in this Agreement in respect of Dispatch Down Periods.

(c) <u>Congestion Charges</u>. Seller shall be responsible for all costs of congestion for transmission of the Product up to and at the Delivery Point. Buyer shall be responsible for all costs of congestion for transmission of the Product from the Delivery Point. To the extent that Seller is reimbursed for or receives any refunds, credits, or benefits from the CAISO for congestion charges or losses in respect of transmission of the Product from the Delivery Point, whether due to differences between the locational marginal pricing at the Delivery Point and Buyer's load aggregation point or any other point downstream of the Delivery Point, or any other hedging instruments associated with the transmission of the Product from the Delivery Point (collectively, any such refunds, credits or benefits are referred to as "Reductions"), then, at Buyer's option, either (i) Seller shall transfer any such Reductions and their related rights to Buyer; or (ii) Buyer shall reduce payments due to Seller under this Agreement in amounts equal to the Reductions and Seller shall retain the Reductions.

3.3 <u>Scheduling</u>.

(a) *[For As-Available intermittent Product only:* <u>VER Forecasting Program</u> <u>Requirements</u>. Seller shall cause the Project to become a Participating Intermittent Resource including executing all necessary documents to become a Participating Intermittent Resource. Seller shall be responsible for all CAISO forecasting fees and related charges associated with the Project becoming a Participating Intermittent Resource and participating in the VER Forecasting Program. Seller and Buyer shall comply with the VER Forecasting Program, and all additional protocols issued by the CAISO relating to Participating Intermittent Resources, including the VER Forecasting Program, for the Delivery Term. Seller shall provide Buyer with a copy of the notice from the CAISO certifying the Project as a Participating Intermittent Resource prior to the Commercial Operation Date. In the event that the VER Forecasting Program or the CAISO Tariff and/or any protocols relating thereto are changed, amended, modified replaced or terminated, Seller and Buyer agree to comply with such revisions and, to the extent practical, to implement such revisions in a manner that maintains the relative economic positions of the Parties as of the date of this Agreement.]

(b) <u>Scheduling Coordinator</u>.

[When Seller is SC for the Project, include the following two paragraphs:

Seller as Scheduling Coordinator for the Project. During the (i) Delivery Term, Seller shall be its own Scheduling Coordinator or designate a qualified third party to provide Scheduling Coordinator services with its Transmission Provider to Schedule and deliver the Product to the Delivery Point and Buyer shall be its own Scheduling Coordinator or designate a qualified third party to provide Scheduling Coordinator services with its Transmission Provider to Schedule and receive the Product at the Delivery Point. Throughout the Delivery Term, Buyer and Seller shall submit inter-SC trades for scheduling all Product from the Project at the Delivery Point (including Energy, Integrated Forward Market Load Uplift Obligations in respect of selfscheduled Energy, and other Product from time to time contemplated under the CAISO Tariff to be subject to inter-SC trades), based on a final Schedule developed in compliance with this Agreement. During the Delivery Term, each Party or each Party's SC shall conduct all Scheduling in accordance with the operating procedures developed by the Parties pursuant to Section 3.10 and in full compliance with the applicable CAISO Tariff, protocols and Scheduling practices for Product on a day-ahead, hour-ahead, or real time basis, as determined by Buyer. [For As-Available intermittent Product only: Whenever the VER Forecasting Program is available, Seller shall submit Schedules and any updates to such Schedules to the CAISO based on the most current forecast of Delivered Energy consistent with the VER Forecasting Program.] In all cases, [For all Products other than Dispatchable: consistent with its Economic Dispatch Down curtailment rights,] Buyer may direct the Scheduling Coordinator to submit, and Seller shall cause the Scheduling Coordinator to submit in accordance with such Buyer's directions, a self-schedule or an economic bid in the applicable CAISO market in order to Schedule the Product with the CAISO. It is the intent of the Parties that neither Party be subject to a double payment or a double charge for Product from the Project through this Agreement and CAISO settlement process and that the more detailed Scheduling and operating procedures developed pursuant to Section 3.10 complement the CAISO settlement process to produce a final economic result between them that is consistent with the fundamental transaction of this Agreement.

CAISO Costs and Revenues. Seller shall be responsible for CAISO (ii) costs (including penalties and other charges) and shall be entitled to all CAISO revenues (including credits and other payments) as the Scheduling Coordinator for the Project, in each case, associated with Imbalance Energy, including all CAISO charges or penalties incurred as a consequence of the Project not being available, the Seller not notifying the CAISO and Buyer of outages in a timely manner (in accordance with the CAISO Tariff and as set forth in Section 3.7), any other failure by Seller to abide by the CAISO Tariff, and any other deviations between Delivered Energy and Scheduled Energy that are attributable to Seller, the Project, or any event, circumstance, act, or incident occurring prior to or at the Delivery Point, including without limitation uninstructed deviation penalties. The Parties agree that any Availability Incentive Payments are for the benefit of the Seller and for Seller's account and that any Non-Availability Charges or other CAISO charges associated with the Project not providing sufficient Resource Adequacy capacity are the responsibility of the Seller and for Seller's account. In addition, if during the Delivery Term, the CAISO implements or has implemented any sanction or penalty related to scheduling, outage reporting, or generator operation, the cost of the sanctions or penalties shall be the Seller's responsibility. Buyer shall be entitled to all credits, payments, or revenues from the CAISO in respect of the Contract Energy, from the Project including revenues associated with CAISO dispatches, inter-SC trade credits, and bid cost recovery.

[When SDG&E is SC for the Project, include the following seven paragraphs:

Buyer as Scheduling Coordinator for the Project. (iii) [During the Delivery Term] [Upon initial synchronization of the Project to the CAISO Grid], Buyer shall be the Scheduling Coordinator or designate a qualified third party to provide Scheduling Coordinator services with the CAISO for the Project for both the delivery and the receipt of the Product at the Delivery Point. At least thirty (30) days prior to the [Commercial Operation Date of the Project] [initial synchronization of the Project to the CAISO Grid], Seller shall take all actions and execute and deliver to Buyer and the CAISO all documents necessary to authorize or designate Buyer as Seller's Scheduling Coordinator for the Project effective as of [the beginning of the Delivery Term] [initial synchronization of the Project to the CAISO Grid]. [During the Delivery Term] [On and after initial synchronization of the Project to the CAISO Grid], Seller shall not authorize or designate any other party to act as Seller's Scheduling Coordinator, nor shall Seller perform for its own benefit the duties of Scheduling Coordinator, and Seller shall not revoke Buyer's authorization to act as Seller's Scheduling Coordinator unless agreed to by Buyer. Buyer (as Seller's SC) shall submit Schedules to the CAISO based on the final Schedule developed in accordance with this Agreement, the operating procedures developed by the Parties pursuant to Section 3.10, and the applicable CAISO Tariff, protocols and Scheduling practices for Product on a day-ahead, hour-ahead, or real time basis, as determined by Buyer. [For As-Available intermittent Product only: Buyer (as Seller's SC) shall submit Schedules and any updates to such Schedules to the CAISO based on the most current forecast of Delivered Energy consistent with the VER Forecasting Program whenever the VER Forecasting Program is available, and consistent with Buyer's best estimate based on the information reasonably available to Buyer including Buyer's forecast whenever the VER Forecasting Program is not available./ In all cases, /For all Products other than Dispatchable: consistent with its Economic Dispatch Down curtailment rights,] Buyer (as the Scheduling Coordinator) may, or may direct the third party Scheduling Coordinator to, submit a self-schedule or an economic bid in the applicable CAISO market in order to Schedule the Product with the CAISO.

(iv) <u>Notices</u>. Buyer (as Seller's SC) shall provide Seller with access to a web based system through which Seller shall submit to Buyer and the CAISO all notices and updates required under the CAISO Tariff regarding the Project's status, including, but not limited to, all outage requests, forced outages, forced outage reports, clearance requests, or must offer waiver forms. In accordance with Section 3.7 and this Section 3.2, Seller will cooperate with Buyer to provide such notices and updates. If the web based system is not available, Seller shall promptly submit such information to Buyer and the CAISO (in order of preference) telephonically, by electronic mail, or facsimile transmission to the personnel designated to receive such information.

(v) <u>CAISO Costs and Revenues</u>. Except as otherwise set forth below, *[For all Products other than Dispatchable Product:* in Section 3.4(c)(ii),*]* and elsewhere in this Agreement, Buyer (as Seller's SC) shall be responsible for CAISO costs (including penalties, *[For As-Available Product VER Forecasting Program Participants only:* Negative Imbalance Energy costs or revenues,*]* and other charges) and shall be entitled to all CAISO revenues (including credits, *[For As-Available Product VER Forecasting Program Participants only:* Positive Imbalance Energy revenues or costs,] and other payments) as the Scheduling Coordinator for the Project, including revenues associated with CAISO dispatches, bid cost recovery, inter-SC trade

credits, or other credits in respect of the Product Scheduled or delivered from the Project; provided, however that during periods when the Project is under curtailment for both System Dispatch Down and Economic Dispatch Down during the same CAISO settlement interval, Imbalance Energy costs and revenues shall be allocated in accordance with Section 3.4(c)(ii). [For As-Available Product VER Forecasting Program Participants only: Seller shall be responsible for all CAISO charges or penalties net of credits and payments (including without limitation all Imbalance Energy costs), in each case, resulting from the Seller not notifying the CAISO and Buyer (as Seller's SC) of outages or other unavailability of Project capacity in a timely manner (in accordance with the CAISO Tariff and as set forth in Section 3.7) or any other failure by Seller to abide by the CAISO Tariff.] [For all Products other than As-Available Product VER Forecasting Program Participants: Seller shall be responsible for all CAISO charges or penalties net of credits and payments, in each case, resulting from the Project not being available, the Seller not notifying the CAISO and Buyer (as Seller's SC) of outages in a timely manner (in accordance with the CAISO Tariff and as set forth in Section 3.7), any other failure by Seller to abide by the CAISO Tariff, and deviations between Delivered Energy and Scheduled Energy that are attributable to Seller, the Project, or any event, circumstance, act, or incident occurring prior to or at the Delivery Point, including without limitation uninstructed deviation penalties./ The Parties agree that any Availability Incentive Payments are for the benefit of the Seller and for Seller's account and that any Non-Availability Charges or other CAISO charges associated with the Project not providing sufficient Resource Adequacy capacity are the responsibility of the Seller and for Seller's account. In addition, if during the Delivery Term, the CAISO implements or has implemented any sanction or penalty related to scheduling, outage reporting, or generator operation, and any such sanctions or penalties are imposed upon the Project or to Buyer as Scheduling Coordinator due to the actions or inactions of Seller, the cost of the sanctions or penalties shall be the Seller's responsibility.

(vi) <u>CAISO Settlements</u>. Buyer (as Seller's SC) shall be responsible for all settlement functions with the CAISO related to the Project. Buyer shall render a separate invoice to Seller for any CAISO charges or penalties ("CAISO Charges Invoice") for which Seller is responsible under this Agreement. CAISO Charges Invoices shall be rendered after settlement information becomes available from the CAISO that identifies any CAISO charges. Notwithstanding the foregoing, Seller acknowledges that the CAISO will issue additional invoices reflecting CAISO adjustments to such CAISO charges. Seller shall pay the amount of CAISO Charges Invoices within ten Business Days of Seller's receipt of the CAISO Charges Invoice. If Seller fails to pay such CAISO Charges Invoice within that period, Buyer may net or offset any amounts owing to it for these CAISO Charges Invoices against any future amounts it may owe to Seller under this Agreement. The obligations under this section with respect to payment of CAISO Charges Invoices shall survive the expiration or termination of this Agreement.

(vii) <u>Dispute Costs</u>. Buyer (as Seller's SC) may be required to dispute CAISO settlements in respect of the Project. Seller agrees to pay Buyer's costs and expenses (including reasonable attorneys' fees, including reasonably allocated costs of in-house counsel of the Buyer) associated with its involvement with such CAISO disputes. In no event shall Buyer (or its third party designee, as Scheduling Coordinator) be liable to Seller for the actions, inactions, errors, or omissions of the CAISO or its agents in the performance of their scheduling functions and/or market operations.

(viii) <u>Terminating Buyer's Designation as Scheduling Coordinator</u>. At least thirty (30) days prior to expiration of this Agreement or as soon as reasonably practicable upon an earlier termination of this Agreement, the Parties will take all actions necessary to terminate the designation of Buyer as Scheduling Coordinator for the Project as of 11:59 p.m. on such expiration date.

(ix) <u>Master File and Resource Data Template</u>. Seller shall provide the data to the CAISO (and to Buyer) that is required for the CAISO's Master File and Resource Data Template (or successor data systems) for this Project consistent with this Agreement. Neither Party shall change such data without the other Party's prior written consent.]

(c) <u>Annual Delivery Schedules</u>. No later than forty-five (45) days before (A) the first day of the first Contract Year of the Delivery Term and (B) the beginning of each calendar year for every subsequent Contract Year during the Delivery Term, Seller shall provide a non-binding forecast of each month's average-day expected Delivered Energy, by hour, for the following calendar year.

(d) <u>Monthly Delivery Schedules</u>. Ten (10) Business Days before the beginning of each month during the Delivery Term, Seller shall provide a non-binding forecast of each day's average expected Delivered Energy, by hour, for the following month ("Monthly Delivery Forecast").

Daily Delivery Schedules. By 5:30 AM Pacific Prevailing Time on the (e) Business Day immediately preceding the date of delivery, Seller shall *[When Seller is SC for the* **Project:** cause its Scheduling Coordinator to] provide Buyer with a *[For As-Available intermittent*] Product only: non-binding VER forecast of the Project's available capacity (or if the VER Forecasting Program is not available for any reason, the expected Delivered Energy)/ [For all Products other than As-Available intermittent: binding forecast of the expected Delivered Energy] for each hour of the immediately succeeding day ("Day-Ahead Forecast") [For all Products other than As-Available intermittent: [When Seller is SC for the Project: concurrent with delivery to the CAISO/ [When SDGE is SC for the Project: and Buyer shall submit a Schedule to the CAISO consistent with such Day-Ahead Forecast], it being understood that, [For all Products other than Dispatchable: consistent with its Economic Dispatch Down curtailment rights, J Buyer (as the Scheduling Coordinator) may, or may direct the third party Scheduling Coordinator to, submit a self-schedule or an economic bid in the applicable CAISO market in order to Schedule the Product with the CAISO]. A Day-Ahead Forecast provided in a day prior to any non-Business Day(s) shall include Schedules for the immediate day, each succeeding non-Business Day and the next Business Day. Each Day-Ahead Forecast shall clearly identify, for each hour, Seller's best estimate of [For As-Available intermittent Product only: the Project's available capacity (or if the VER Forecasting Program is not available for any reason, the expected Delivered Energy)] [For all Products other than As-Available intermittent: the expected Delivered Energy]. Seller may not change such Schedule past the deadlines provided in this section except in the event of a Forced Outage or Schedule change imposed by Buyer or the CAISO, in which case Seller shall promptly provide Buyer with a copy of any and all updates to such Schedule indicating changes from the then-current Schedule. These notices and changes to the Schedules shall be sent to Buyer's on-duty Scheduling Coordinator. If Seller fails to provide Buyer with a Day-Ahead Forecast as required herein, then for such unscheduled delivery period

only Buyer shall rely on the delivery Schedule provided in the Monthly Delivery Forecast or Buyer's best estimate based on information reasonably available to Buyer and Seller shall be liable for Scheduling and delivery based on such Monthly Delivery Forecast or Buyer's best estimate.

(f) <u>Real Time Delivery Schedules</u>. Notwithstanding anything to the contrary herein, in the event Seller makes a change to its Schedule on the actual date of delivery for any reason including Forced Outages (other than a scheduling change imposed by Buyer or CAISO) which results in a change to its deliveries (whether in part or in whole), Seller shall notify Buyer immediately by calling Buyer's on-duty Scheduling Coordinator. Seller shall notify Buyer and the CAISO of Forced Outages in accordance with Section 3.7. Seller shall keep Buyer informed of any developments that will affect either the duration of the outage or the availability of the Project during or after the end of the outage.

(g) *[For Dispatchable Product Only:* <u>Availability Notices</u>. During the Delivery Term, no later than two (2) Business Days before each Schedule day for the day-ahead market in accordance with WECC scheduling practices, Seller shall provide Buyer with an hourly Schedule of the capacity that the Project is expected to have available for each hour of such Schedule day (the "Availability Notice"). Seller will notify Buyer immediately if the available capacity of the Project may change after Buyer's receipt of an Availability Notice. Seller shall accommodate Buyer's reasonable requests for changes in the time of delivery of Availability Notices. Seller shall provide Availability Notices using the form developed by the Parties under Section 3.10 by (in order of preference) electronic mail, facsimile transmission or, telephonically to Buyer personnel designated to receive such communications.*]*

(h) *[For Dispatchable Product Only:* Dispatch Notices. Buyer or the CAISO will have the right to dispatch the Project, seven days per week and 24 hours per day (including holidays), by providing Dispatch Notices and updated Dispatch Notices to Seller electronically, subject to the requirements and limitations set forth in this Agreement, including the system requirements under Section 3.4(b) and the Project operating restrictions set forth in Exhibit H. Each Dispatch Notice will be effective unless and until Buyer modifies such Dispatch Notice by providing Seller with an updated Dispatch Notice. In addition to any other requirements set forth or referred to in this Agreement, all Dispatch Notices and updated Dispatch Notices will be made in accordance with the timelines as specified in the CAISO Tariff.]

3.4 <u>Dispatch Notices</u>.

(a) <u>General</u>. Seller shall adjust delivery amounts as directed by the CAISO, the Participating Transmission Owner, Buyer, or a Transmission Provider during any Dispatch Down Period.

(b) <u>System Requirements</u>. Seller shall acquire, install, and maintain such facilities, communications links and other equipment, and implement such protocols and practices, as necessary (i) for Seller to respond and follow instructions, including an electronic signal conveying real time instructions, to operate the Project as directed by the Buyer and/or the CAISO, including to implement a System Dispatch Down or an Economic Dispatch Down in accordance with the then-current methodology used to transmit such instructions as it may change from time to time, and (ii) for Buyer and/or the CAISO to control the quantity of Product generated by the

Project in order to implement a System Dispatch Down or an Economic Dispatch Down, in each case, in accordance with the then-current methodology used to transmit such instructions as it may change from time to time. As of the Execution Date, the systems required to comply with clause (i) include at a minimum the CAISO's Automatic Dispatch System (as described in the CAISO website) and the systems required to comply with clause (ii) include at a minimum the CAISO'S Application Programming Interfaces (as described in the CAISO website). If at any time during the Delivery Term Seller's facilities, communications links or other equipment, protocols or practices are not in compliance with then-current methodologies, Seller shall take all commercially reasonable steps necessary to become compliant as soon as possible. Seller shall be liable pursuant to Section [For all Products other than Dispatchable Product: 3.4(c)(ii)] [For Dispatchable **Product:** 3.3(b)[(ii)/(iii)]/ for failure to comply with an order directing a Dispatch Down Period, during the time that Seller's facilities, communications links or other equipment, protocols or practices are not in compliance with then-current methodologies. For the avoidance of doubt, an order directing a Dispatch Down Period via such systems and facilities shall have the same force and effect on Seller as any other form of communication. If an electronic submittal is not possible, Buyer and/or the CAISO may provide Dispatch Notices by (in order of preference) electronic mail, telephonically, or facsimile transmission to Seller's personnel designated to receive such communications, as provided by Seller in writing and Seller shall maintain communications systems necessary to permit such transmittal of Dispatch Notices. The Parties shall describe with more specificity the Economic Dispatch Down process (including the automated communication process for Dispatch Notices) in the operating procedures developed by the Parties pursuant to Section 3.10.

(c) [For all Products other than Dispatchable Product: Economic Dispatch Down. [For Projects where SDG&E purchases Test Energy: Before or after the Commercial Operation Date,] each of Buyer and the CAISO has the right to order Seller to curtail deliveries of Energy from the Project to the Delivery Point for Economic Dispatch Down purposes, seven days per week and 24 hours per day (including holidays), by providing Dispatch Notices and updated Dispatch Notices to Seller electronically via the communications systems described in Section 3.4(b), subject to the requirements and limitations set forth in this Agreement, including the Project operating restrictions set forth in Exhibit H. Each Dispatch Notice will be effective unless and until Buyer (or the CAISO) modifies such Dispatch Notice by providing Seller with an updated Dispatch Notice. In addition to any other requirements set forth or referred to in this Agreement, all Dispatch Notices and updated Dispatch Notices will be made in accordance with the timelines as specified in the CAISO Tariff. Seller agrees to adjust the Project's Delivered Energy as set forth in a Dispatch Notice that meets the requirements of Economic Dispatch Down.

(i) <u>Buyer Payments</u>. *[For Projects where SDG&E purchases Test Energy:* On and after the Commercial Operation Date*]*, Buyer shall pay Seller, on the date payment would otherwise be due in respect of the month in which any such Economic Dispatch Down occurred an amount equal to the positive difference, if any, of (Y) the product of the Energy Price, times the amount of Deemed Bundled Green Energy resulting from such Economic Dispatch Down *[For Projects receiving PTCs:* plus the product of the after tax value of any lost PTC benefits (in dollars per megawatt hour) that Seller has not been able to mitigate after use of reasonable efforts, times the amount of Deemed Bundled Green Energy resulting from such Economic Dispatch Down*]*, minus (Z) the product of the positive value of the Sales Price, if received, times the amount of Deemed Bundled Green Energy resulting from such Economic

Dispatch Down. *[For Projects receiving PTCs:* Seller shall provide Buyer with documentation that establishes to Buyer's reasonable satisfaction (A) that Seller would have been entitled to receive PTCs for the Deemed Bundled Green Energy if it had actually been generated; and (B) the after tax value of any lost PTC benefits (in dollars per megawatt hour) due under this Section 3.4(c)(i).J

(ii) <u>Failure to Comply</u>. If Seller fails to comply with a Dispatch Notice that is in compliance with this Agreement, then, for the deviation between the Delivered Energy and the amount set forth in the Dispatch Notice, Seller shall pay Buyer an amount equal to the sum of (A) + (B) + (C), where: (A) is the amount, if any, paid to Seller by Buyer for any Delivered Energy in excess of the amount set forth in the Dispatch Notice, and (B) is all Imbalance Energy costs or charges (excluding any revenues or credits), and (C) is any penalties or other charges resulting from Seller's failure to comply with the Dispatch Notice.

3.5 <u>Standards of Care</u>.

(a) <u>General Operation</u>. Seller shall comply with all applicable requirements of Law, the CAISO, NERC and WECC relating to the Project (including those related to safety, construction, ownership and/or operation of the Project).

(b) <u>CAISO and WECC Standards</u>. Each Party shall perform all generation, scheduling and transmission services in compliance with all applicable (i) operating policies, criteria, rules, guidelines, tariffs and protocols of the CAISO, (ii) WECC scheduling practices and (iii) Good Industry Practices.

(c) <u>Reliability Standard</u>. Seller agrees to abide by all (i) NERC, WECC and CAISO reliability requirements, including all such reliability requirements for generator owners and generator operators, and, if applicable, CPUC General Order No.167, "Enforcement of Maintenance and Operation Standards for Electrical Generating Facilities," and (ii) all applicable requirements regarding interconnection of the Project, including the requirements of the interconnected Transmission Provider.

3.6 <u>Metering</u>.

(a) <u>CAISO Revenue Meter</u>. All output from the Project per the terms of this Agreement must be delivered through a single CAISO revenue meter and that meter must be dedicated exclusively to the Project described herein. All Product purchased under this Agreement must be measured by the Project's CAISO revenue meter to be eligible for payment under this Agreement. Seller shall bear all costs relating to all metering equipment reasonably necessary to accommodate the Project. In addition, Seller hereby agrees to provide all meter data to Buyer in a form acceptable to Buyer, and consents to Buyer obtaining from the CAISO the CAISO meter data applicable to the Project and all inspection, testing and calibration data and reports. Seller shall grant Buyer the right to retrieve the meter reads from the CAISO meter reporting website and/or directly from the CAISO meter(s) at the Project site. If the CAISO makes any adjustment to any CAISO meter data for a given time period, Seller agrees that it shall submit revised monthly invoices, pursuant to Section 6.2, covering the entire applicable time period in order to conform fully such adjustments to the meter data. Seller shall submit any such revised invoice no later than

thirty (30) days from the date on which the CAISO provides to Seller such binding adjustment to the meter data.

(i) <u>Testing and Calibration</u>. Seller shall perform or cause to be performed, at its expense, annual testing and calibration of the electric meters in accordance with Good Industry Practice and the CAISO Tariff. Seller shall give Buyer reasonable advance notice of any inspection, testing or calibration of the electric meters. Buyer shall have the right to have a representative or designee present at such inspection, test or calibration of the electric meters. Buyer shall have the right to require, at Buyer's expense, except as required below, a test of any of the electric meters not more often than two (2) times every twelve (12) months.

(ii) <u>Inaccurate Meters</u>. If any of the electric meters is deemed to be inaccurate under the Meter Service Agreement, deliveries shall be measured by reference to Seller's check-meters, if any are installed and registering accurately, or the meter readings for the period of inaccuracy shall be adjusted as far as can be reasonably ascertained by Seller from the best available data, subject to review and approval by Buyer. If the period of the inaccuracy cannot be ascertained reasonably, any such adjustment shall be for a period equal to one-half of the time elapsed since the preceding test by applying the percentage of inaccuracy so found. Seller shall promptly cause such electric meters to be corrected and, where such inaccuracy was determined pursuant to a test required by Buyer, Seller shall bear the expense of any such test.

(iii) <u>Delivered MWh Adjustments</u>. In the event that, due to correction for inaccurate electric meters deemed to be inaccurate under the Meter Service Agreement, the Delivered Energy is increased or decreased, the revised Delivered Energy shall be used for purposes of calculating payments. If any of such amounts for any period have already been calculated using the previous amount of Delivered Energy, they shall be recalculated using the revised amount of Delivered Energy. If the recalculation changes the amount payable for the period in question, revised payments shall be made by Buyer or Seller, as applicable, in accordance with Section 6.2.

(b) <u>Real Time Telemetry</u>. Seller shall install, activate and maintain metering, communication and telemetry equipment for the Project in a centralized system to which Buyer shall have real time access. Seller shall link its system to Buyer via an approved Buyer communication network, utilizing existing industry standard network protocol, as reasonably approved by Buyer. Seller shall correct any problems with such equipment as soon as practicable.

(c) [The following section is for As-Available Intermittent Products only] Meteorological Station. Seller, at its own expense, shall install and maintain such stand-alone meteorological stations at the Project as may be required under the VER Forecasting Program and the CAISO Tariff to monitor and report weather data to both the CAISO and Buyer's weather station data collection system. Each station shall be equipped with instruments and equipment that meet the specifications of the VER Forecasting Program and shall measure, collect, record, format, and communicate the data required under the VER Forecasting Program. Seller shall submit to Buyer for review and approval, which shall not be unreasonably withheld, its technical specifications for the meteorological station along with a site plan showing the location of the station within the Project. Seller shall correct any problems with such equipment as soon as practicable.

3.7 <u>Outage Notification</u>.

Planned Outages. Seller shall schedule Planned Outages for the Project in (a) accordance with Good Industry Practices and with the prior written consent of Buyer, which consent may not be unreasonably withheld or conditioned. The Parties acknowledge that in all circumstances, Good Industry Practices shall dictate when Planned Outages should occur. Seller shall notify Buyer of its proposed Planned Outage schedule for the Project for the following calendar year by submitting a written Planned Outage schedule no later than October 1st of each year during the Delivery Term. The Planned Outage schedule is subject to Buyer's approval, which approval may not be unreasonably withheld or conditioned. Buyer shall promptly respond with its approval or with reasonable modifications to the Planned Outage schedule and Seller shall use its best efforts in accordance with Good Industry Practices to accommodate Buyer's requested modifications. Notwithstanding the submission of the Planned Outage schedule described above, Seller shall also submit a completed Outage Notification Form to Buyer no later than fourteen (14) days prior to each Planned Outage and all appropriate outage information or requests to the CAISO in accordance with the CAISO Tariff. Seller shall contact Buyer with any requested changes to the Planned Outage schedule if Seller believes the Project must be shut down to conduct maintenance that cannot be delayed until the next scheduled Planned Outage consistent with Good Industry Practices. Seller shall not change its Planned Outage schedule without Buyer's approval, not to be unreasonably withheld or conditioned. Seller shall use its best efforts in accordance with Good Industry Practices not to schedule Planned Outages during the months of July, August, September and October. At Buyer's request, Seller shall use commercially reasonable efforts to reschedule Planned Outage so that it may deliver Product during CAISO declared or threatened emergency periods. Seller shall not substitute Energy from any other source for the output of the Project during a Planned Outage.

(b) <u>Forced Outages</u>. Within *[When Seller is the SC for the Project:* Within two hours of any Forced Outage,] *[When SDG&E is the SC for the Project:* Within one-half of the notification time prescribed under the CAISO Tariff for Forced Outages,] Seller shall submit a completed Outage Notification Form to the Buyer in accordance with the instructions shown on the form and shall submit outage information to the CAISO in accordance with the CAISO Tariff *[When SDG&E is the SC for the Project:* and Section 3.3(b)(ii) above]. Seller shall not substitute Energy from any other source for the output of the Project during a Forced Outage.

(c) <u>Coordination with CAISO</u>. Seller shall be responsible *[When SDG&E is SC for the Project:* in accordance with Section 3.3(b)(ii)] for all outage coordination communications with the CAISO. Buyer shall cooperate with Seller in arranging and coordinating all Project outages with the CAISO.

3.8 Operations Logs and Access Rights.

(a) <u>Operations Logs</u>. Seller shall maintain a complete and accurate log of all material operations and maintenance information on a daily basis. Such log shall include, but not be limited to, information on power production, fuel consumption, efficiency, availability, maintenance performed, outages, results of inspections, manufacturer recommended services, replacements, electrical characteristics of the generators, control settings or adjustments of

equipment and protective devices. Seller shall maintain this information for at least two (2) years and shall provide this information electronically to Buyer within one day of Buyer's request.

(b) <u>Access Rights</u>. Buyer, its authorized agents, employees and inspectors shall have the right of ingress to and egress from the Project during normal business hours upon reasonable advance Notice and for any purposes reasonably connected with this Agreement.

- 3.9 <u>New Generation Facility</u>.
 - (a) <u>Project Development</u>. Seller, at no cost to Buyer, shall:
 - (i) Design and construct the Project.

(ii) Perform all studies, pay all fees, obtain all necessary approvals and execute all necessary agreements with the CAISO and the Participating Transmission Owner for the Electrical Interconnection Upgrades to Schedule and deliver the Product from the Project [*For Projects Providing Resource Adequacy:* under "Full Capacity Deliverability Status" (as defined in the CAISO Tariff)]. Following satisfaction or waiver of the Conditions Precedent set forth in Section 2.3(b), Seller shall not request from the CAISO or the Participating Transmission Owner any changes to its plan of interconnection that are inconsistent with the plan of interconnection that was evaluated in connection with the satisfaction or waiver of the Conditions Precedent in Section 2.3(b) without Buyer's prior written consent.

(iii) Acquire all Governmental Approvals and other approvals necessary for the construction, operation, and maintenance of the Project.

(iv) Complete all environmental impact studies necessary for the construction, operation, and maintenance of the Project, including all environmental analysis required under the California Environmental Quality Act for the Project and related interconnection facilities.

(v) At Buyer's request, provide to Buyer Seller's electrical specifications and design drawings pertaining to the Project.

(vi) Within fifteen (15) days after the close of each calendar quarter following the Execution Date until the Commercial Operation Date, provide to Buyer a Quarterly Progress Report and agree to regularly scheduled meetings between representatives of Buyer and Seller to review such reports and discuss Seller's construction progress. The Quarterly Progress Report shall identify the Milestones and indicate whether Seller has met or is on target to meet such Milestones.

(vii) Provide access to Buyer, its authorized agents, employees and inspectors for purpose of inspecting the Project's construction site or on-site Seller data and information pertaining to the Project during normal business hours upon reasonable advance Notice.

(viii) At Buyer's request, provide information to Buyer relating to Seller's or Seller's contractor's use, during Project construction, of "Women-Owned Businesses" or

"Minority-Owned Businesses" or "Disabled Veteran Business Enterprises" as defined in CPUC General Order 156, and the number of new employees hired by Seller or Seller's contractors and the number of women, minority, and disabled veterans trained or hired by Seller or Seller's contractor's as contemplated under Cal. Public Utilities Code §910(a)(8), as each such group of entities and individuals may be amended from time to time or further defined, supplemented, or superseded by applicable Law or replaced with similar designations or certifications. [Include other covenants related to "women-owned business" or "minority-owned business" as may be applicable to the Seller's RFO bid.]

(b) <u>Construction Milestones</u>.

(i) The Parties agree time is of the essence in regards to this Agreement. As such, the Parties also agree certain milestones for the construction of the Project as set forth in the Milestone schedule attached hereto as Exhibit B ("Milestones") must be achieved in a timely fashion or Buyer will suffer damages.

(ii) Within seven (7) days after completion of each Milestone, Seller shall provide Buyer with Notice along with accompanying documentation (including reasonably redacted copies of applicable agreements, Governmental Approvals, and certificates) to reasonably demonstrate the achievement of such Milestone. If Seller misses the deadline date for three (3) or more Milestones or misses the deadline date for any one Milestone by more than ninety (90) days, Seller shall submit to Buyer, within ten (10) Business Days of such missed Milestone completion date, a remedial action plan ("Remedial Action Plan") that describes in detail a reasonable course of action and plan (including accelerating the work, for example, by using additional shifts, overtime, additional crews or resequencing of the work, as applicable) to achieve the missed Milestones and all subsequent Milestones no later than the Guaranteed Commercial Operation Date (as it may be extended under Section 3.9(c)(i)-(ii)); provided, that delivery of any Remedial Action Plan shall not relieve Seller of its obligation to meet any subsequent Milestones and the Guaranteed Commercial Operation Date.

(c) <u>Daily Delay Damages</u>.

COD. Seller shall cause the Project to achieve the Commercial (i) Operation Date by the Guaranteed Commercial Operation Date; provided, however, that the Commercial Operation Date shall not occur more than [Insert number of days] days prior to the Guaranteed Commercial Operation Date. Seller may elect to extend the Guaranteed Commercial Operation Date for no more than a total of [] days (the "Project Cure Period") by providing Buyer with Notice of its election to extend the Guaranteed Commercial Operation Date by no later than 5:00 p.m. on the Business Day prior to the Guaranteed Commercial Operation Date along with Seller's estimate of the duration of the extension and its payment of Daily Delay Damages for each day or portion of a day that the Guaranteed Commercial Operation Date is extended. Seller may further extend the Guaranteed Commercial Operation Date beyond the already extended Guaranteed Commercial Operation Date subject to the same terms applicable to the original extension; provided, however, that the total of all extensions under this clause (i) shall not exceed the Project Cure Period. The Daily Delay Damages payments are in addition to, and not a part of, the Construction Period Security. Seller will be entitled to a refund (without interest) of any estimated Daily Delay Damages payments paid by Seller that exceed the amount

required to cover the number of days or partial days by which the Commercial Operation Date occurred after the original Guaranteed Commercial Operation Date (where the original Guaranteed Commercial Operation Date excludes any extensions under this Section 3.9(c)(i) but includes any extensions under Section 3.9(c)(ii)). In addition, Seller shall submit a Remedial Action Plan within ten (10) days after each extension of the Guaranteed Commercial Operation Date if the Project has not then achieved the Commercial Operation Date. Each Party agrees and acknowledges that (a) the actual damages that Buyer would incur due to a delay in achieving the Commercial Operation Date on or before the original Guaranteed Commercial Operation Date (where the original Guaranteed Commercial Operation Date excludes any extensions under this Section 3.9(c)(i) but includes any extensions under Section 3.9(c)(ii)) would be difficult or impossible to predict with certainty, (b) the Daily Delay Damages set forth in this section are a reasonable and appropriate approximation of such damages, and (c) the Daily Delay Damages set forth in this section are the exclusive remedy for Seller's delay in achieving the Commercial Operation Date for the length of the extensions paid for in advance by Seller up to the Project Cure Period but shall not otherwise act to limit any of Buyer's rights or remedies arising from any other Event of Default by Seller, including, without limitation, the failure by Seller to achieve the Commercial Operation Date altogether.

(ii) <u>Extensions</u>. The Guaranteed Commercial Operation Date and the deadline dates for Milestone numbers [_____] as set forth in Exhibit B shall be extended on a day for day basis for up to ninety (90) calendar days in the aggregate ("Force Majeure Extension Period") without imposition of any Daily Delay Damages to the extent Seller is actually and demonstrably delayed in its critical path to achieving the Commercial Operation Date by the Guaranteed Commercial Operation Date as a result of Force Majeure; provided, however, any such delay in excess of this period shall be subject to Daily Delay Damages pursuant to Section 3.9(c)(i).

3.10 <u>Operating Procedures</u>. No later than forty-five (45) days before the Commercial Operation Date, and from time to time as reasonably determined necessary by the Parties, the Parties shall meet to address how each Party will perform its respective obligations under this Agreement, including, but not limited to: (1) the method of day-to-day communications; (2) key personnel lists for each Party; (3) procedures for Forced Outage and Planned Outage reporting; (4) procedures for delivery forecasting; (5) procedures for record keeping; (6) Scheduling procedures; and (7) invoicing and payment procedures; <u>provided</u>, that the failure to agree on these operating procedures will not relieve the Parties of their respective obligations under this Agreement, and any failure to agree shall be resolved in accordance with the dispute resolution procedures in Article 12.

ARTICLE FOUR: COMPENSATION; MONTHLY PAYMENTS

4.1 [For Dispatchable Product Only: Capacity Payment.

(a) Capacity Price.

| Contract Year | Capacity Price (\$/KW) |
|------------------|---------------------------|
| 1 | |
| | |

(b) <u>Monthly Capacity Payment</u>. For each month, Buyer shall pay Seller for the Product the amount calculated as follows ("Monthly Capacity Payment"):

 $MCP = CC \times CP \times SF \times AAF$

Where:

MCP is the Monthly Capacity Payment expressed in Dollars for such month of the Delivery Term.

CC is the Contract Capacity, expressed in kW, rounded to the nearest 100 kW.

CP is the Capacity Price expressed in Dollars per kW-year, for the applicable month.

SF is the Monthly Shaping Factor for the applicable month, as set forth in the following table:

| Month | Monthly Shaping Factor (%) |
|-----------|----------------------------|
| January | 6.7 |
| February | 5.0 |
| March | 5.0 |
| April | 5.8 |
| May | 6.3 |
| June | 8.3 |
| July | 15.8 |
| August | 17.5 |
| September | 11.7 |
| October | 5.8 |
| November | 5.8 |
| December | 6.3 |

AAF is the Availability Adjustment Factor for each month, expressed as a three-place decimal and determined as follows:

(a) If the Equivalent Availability Factor ("EAF") for the month is less than or equal to 0.980, then the AAF equals EAF / 0.98.

- (b) If the EAF for the month is greater than 0.980 but less than 0.990, then the AAF equals 1.0.
- (c) If the EAF for the month is greater than or equal to 0.990, then the AAF equals EAF / 0.99.

EAF is the Equivalent Availability Factor for each month determined as follows:

EAF = (PH - (EDH - EEDH)) / PH

Where:

PH is the number of period hours;

EDH is the number of equivalent derate hours calculated as the sum, for each derate, of the product of the number of hours of full or partial derate hours times the size of the reduction from the Contract Capacity divided by the Contract Capacity for the month. For the purposes of this calculation, a derate includes all outages for any reason, including without limitation, Forced Outages, Force Majeure events, Dispatch Down Periods, Planned Outages, Buyer's failure to perform, and other times when any portion of the Contract Capacity is not available and when the Delivered Energy of the Project is less than the amount of Energy dispatched by Buyer; and

EEDH is the number of equivalent excused derate hours solely due to either Dispatch Down Periods or Buyer's failure to perform (and for no other reason), calculated as the sum, for each excused derate, of the product of the number of hours of full or partial derate hours times the size of the reduction from the Contract Capacity, divided by the Contract Capacity for the month.

4.2 <u>Energy Payment</u>.

(a) <u>Energy Price</u>. The price for the Bundled Green Energy and Deemed Bundled Green Energy that is delivered to Buyer in each Contract Year shall be as follows ("Energy Price"):

| Contract Year | Energy Price (\$/MWh) |
|---------------|-----------------------|
| | |
| | |
| | |

provided, however, that:

(i) if Seller delivers Bundled Green Energy in the aggregate for any CAISO settlement interval (not to exceed one hour) in excess of the product of the Contract Capacity times the length of such settlement interval, expressed in hours, then the Energy Price for such excess Bundled Green Energy in such settlement interval shall be reduced to zero dollars (\$0), and if the real time Locational Marginal Price for the Delivery Point during such settlement interval is less than zero dollars (\$0), Seller shall pay to Buyer an amount equal to the absolute value of such negative Locational Marginal Price times such excess Bundled Green Energy;

(ii) if Seller delivers Bundled Green Energy plus Deemed Delivered Energy in the aggregate for any Contract Year during the Delivery Term in excess of one hundred fifteen percent (115%) of the annual Contract Quantity, then the Energy Price for such excess Bundled Green Energy and Deemed Bundled Green Energy, if any, for each settlement interval for the remainder of that Contract Year shall be reduced to zero dollars (\$0) and Seller shall be entitled to the CAISO revenues (including positive Locational Marginal Prices, credits and other payments) in respect of such excess amounts and Seller shall be responsible for the CAISO costs (including negative Locational Marginal Prices, penalties, sanctions and other charges) in respect of such excess amounts.

(iii) Reserved

(b) Reserved

(c) <u>Monthly Energy Payment</u>. For each month, Buyer shall pay Seller for the Product an amount equal to the sum for each hour in the month of the product of the Energy Price times the sum of Bundled Green Energy plus Deemed Bundled Green Energy in each hour ("Monthly Energy Payment").

Monthly Energy Payment = \sum Energy Price x (Bundled Green Energy + Deemed Bundled Green Energy)

For any period where the quantity of Bundled Green Energy is less than the quantity of Delivered Energy and the quantity of Bundled Green Energy cannot practicably be determined for each settlement interval during such period (for example, where WREGIS does not specify in which settlement intervals Renewable Energy Credits were delivered or not delivered), then the quantity of Bundled Green Energy for any settlement interval during the entire period shall be equal to the product of the quantity of Delivered Energy for a settlement interval multiplied by the quotient of the aggregate quantity of Green Attributes that are delivered to Buyer during such entire period divided by the aggregate quantity of Delivered Energy that is delivered to Buyer during such entire period.

4.3 <u>Imbalance Energy</u>. Seller shall use commercially reasonable efforts to deliver Energy in accordance with the Scheduled Energy. Buyer and Seller recognize that from time to time the amount of Delivered Energy will deviate from the amount of Scheduled Energy. When Delivered Energy minus Scheduled Energy is a positive amount, it shall be considered "Positive Imbalance Energy;" when Delivered Energy minus Scheduled Energy is a negative amount, the absolute (i.e., positive) value of that amount shall be considered the "Negative Imbalance Energy." *[When Seller is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program:* Seller shall be responsible for settlement of Imbalance Energy with the CAISO and all fees, liabilities, assessments, or similar charges assessed by the CAISO in connection with Imbalance Energy.] Buyer and Seller shall cooperate to minimize charges and imbalances associated with Imbalance Energy to the extent possible. Seller shall promptly notify Buyer as soon as possible of any material imbalance that is occurring or has occurred. *[When SDG&E is SC for the Project and Project is in the VER Forecasting Program:* Buyer shall receive all Green Attributes for the Positive Imbalance Energy in all settlement intervals.]

[When Seller is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program, include the following two paragraphs:

(a) <u>Positive Imbalance Energy (Over Deliveries</u>). In the event that Delivered Energy for any CAISO settlement interval is equal to or greater than Scheduled Energy for such CAISO settlement interval, Buyer shall have no payment obligation in respect of the Positive Imbalance Energy. Buyer shall receive all Green Attributes for the Positive Imbalance Energy in such CAISO settlement interval regardless as to whether it was sold into the CAISO. Seller shall be entitled to all payments or credits from the CAISO to Seller's SC and Seller shall make all payments to the CAISO in respect of the Positive Imbalance Energy.

(b) <u>Negative Imbalance Energy (Under Deliveries</u>). In the event that Delivered Energy for any CAISO settlement interval is less than Scheduled Energy for such CAISO settlement interval, Buyer shall have no payment obligation in respect of the Negative Imbalance Energy. Seller shall make all payments to the CAISO and Seller shall be entitled to all payments or credits from the CAISO to Seller's SC in respect of the Negative Imbalance Energy required under the CAISO Tariff.]

4.4 <u>Additional Compensation</u>. To the extent not otherwise provided for in this Agreement, in the event that Seller is compensated by a third party for any Product produced by the Project, including, but not limited to, compensation for Resource Adequacy or Green Attributes, Seller shall remit all such compensation directly to Buyer; provided that for avoidance of doubt, nothing herein precludes Seller from retaining credits related to transmission upgrades funded by Seller.

4.5 <u>Energy Sales Prior to Commercial Operation Date</u>. For each month prior to the Commercial Operation Date, as compensation for the Product delivered to Buyer, (i) Buyer shall pay Seller for the Product an amount equal to the product of [*SDG&E to insert REC value amount in \$/MWh*] times the total Bundled Green Energy delivered to Buyer in such month, and (ii) Seller shall be entitled to all CAISO revenues (including credits, Imbalance Energy revenues, and other payments), including revenues associated with CAISO dispatches, bid cost recovery, inter-SC trade credits, or other credits in respect of the Product Scheduled or delivered from the Project, and Seller shall be responsible for all CAISO costs (including penalties, Imbalance Energy costs, and other charges) including all CAISO charges or penalties, in each case, resulting from the Project not being available, the Seller not notifying the CAISO of outages in a timely manner, and any other failure by Seller to abide by the CAISO Tariff, including without limitation uninstructed

deviation penalties. *[When Buyer is SC for the Project, include the following:* Each month, Buyer (as the SC for the Project) shall deliver an invoice to Seller including a statement of all such CAISO revenues and charges within thirty (30) days after the CAISO final settlement data is available to Buyer for such deliveries.]

ARTICLE FIVE: EVENTS OF DEFAULT; FORCE MAJEURE

5.1 <u>Events of Default</u>. An "Event of Default" shall mean,

(a) with respect to a Party that is subject to the Event of Default the occurrence of any of the following:

(i) the failure by such Party to make, when due, any payment required pursuant to this Agreement and such failure is not remedied within five (5) Business Days after Notice thereof;

(ii) any representation or warranty made by such Party herein is false or misleading in any material respect when made or when deemed made or repeated, and such default is not remedied within thirty (30) days after Notice thereof;

(iii) the failure by such Party to perform any material covenant or obligation set forth in this Agreement (except to the extent constituting a separate Event of Default, and except for such Party's unexcused failure to perform its obligations to Schedule, deliver, or receive (as applicable), or sell or purchase (as applicable) the Product for a period or a series of periods that is cumulatively no longer than thirty (30) days, the exclusive remedy for which is provided in Section 3.1(h)) and such failure is not remedied within thirty (30) days after Notice thereof;

(iv) the failure by such Party to perform its obligations to Schedule, deliver or receive (as applicable), or sell or purchase (as applicable) the Product for a period or a series of periods that is cumulatively longer than thirty (30) days and such failure is not excused as described in Section 3.1(h);

(v) such Party becomes Bankrupt;

(vi) such Party assigns this Agreement or any of its rights hereunder other than in compliance with Section 13.2; or

(vii) such Party consolidates or amalgamates with, or merges with or into, or transfers all or substantially all of its assets to, another entity and, at the time of such consolidation, amalgamation, merger or transfer, the resulting, surviving or transferee entity fails to assume all the obligations of such Party under this Agreement to which it or its predecessor was a party by operation of Law or pursuant to an agreement reasonably satisfactory to the other Party.

(b) with respect to Seller as the Defaulting Party, the occurrence of any of the following:

(i) if at any time, Seller delivers or attempts to deliver to the Delivery Point for sale under this Agreement Energy that was not generated by the Project *[If the Project is located outside of the CAISO:* other than Imbalance Energy from the Transmission Provider];

(ii) the failure by Seller to achieve the Commercial Operation Date no later than the Guaranteed Commercial Operation Date unless otherwise excused under the terms of this Agreement;

(iii) *[For Baseload, Peaking, Dispatchable Product:* the Contract Capacity at the Commercial Operation Date or at any other time pursuant to a Capacity Test is less than [____] MW and such default is not remedied within thirty (30) days after Notice thereof;]

(iv) **[For Baseload, Peaking, As-Available Product:** the failure by Seller to achieve the Guaranteed Energy Production requirement during any Performance Measurement Period as set forth in Section 3.1(e) of this Agreement] **[For Dispatchable Product:** the Default Availability Factor of the Project is less than [____] percent for any rolling twelve (12) consecutive calendar month period];

(v) the failure by Seller to deliver a Remedial Action Plan that reasonably demonstrates in detail how Seller will achieve the Commercial Operation Date no later than the Guaranteed Commercial Operation Date, if such failure is not remedied within ten (10) days after Notice;

(vi) failure by Seller to satisfy the collateral requirements pursuant to Sections 8.3 or 8.4 of this Agreement;

(vii) with respect to any Guaranty provided for the benefit of Buyer, the failure by Seller to provide for the benefit of Buyer either (1) cash, (2) a replacement Guaranty from a different Guarantor meeting the criteria set forth in the definition of Guarantor, or (3) a replacement Letter of Credit from an issuer meeting the criteria set forth in the definition of Letter of Credit, in each case, in the amount required hereunder within five (5) Business Days after Seller receives Notice of the occurrence of any of the following events:

(A) if any representation or warranty made by the Guarantor in connection with this Agreement is false or misleading in any material respect when made or when deemed made or repeated, and such default is not remedied within thirty (30) days after Notice thereof;

(B) the failure of the Guarantor to make any payment required or to perform any other material covenant or obligation in any Guaranty;

(C) the Guarantor becomes Bankrupt;

(D) the Guarantor shall fail to meet the criteria for an acceptable Guarantor as set forth in the definition of Guarantor;

(E) the failure of the Guaranty to be in full force and effect (other than in accordance with its terms) prior to the indefeasible satisfaction of all obligations of Seller hereunder; or

(F) the Guarantor shall repudiate, disaffirm, disclaim, or reject, in whole or in part, or challenge the validity of any Guaranty; or

(viii) with respect to any outstanding Letter of Credit provided for the benefit of Buyer that is not then required under this Agreement to be canceled or returned, the failure by Seller to provide for the benefit of Buyer either (1) cash, or (2) a substitute Letter of Credit from a different issuer meeting the criteria set forth in the definition of Letter of Credit, in each case, in the amount required hereunder within five (5) Business Days after Seller receives Notice of the occurrence of any of the following events:

(A) the issuer of the outstanding Letter of Credit shall fail to maintain a Credit Rating of at least "A-" by S&P or "A3" by Moody's;

(B) the issuer of such Letter of Credit becomes Bankrupt;

(C) the issuer of the outstanding Letter of Credit shall fail to comply with or perform its obligations under such Letter of Credit and such failure shall be continuing after the lapse of any applicable grace period permitted under such Letter of Credit;

(D) the issuer of the outstanding Letter of Credit shall fail to honor a properly documented request to draw on such Letter of Credit;

(E) the issuer of the outstanding Letter of Credit shall disaffirm, disclaim, repudiate or reject, in whole or in part, or challenge the validity of, such Letter of Credit;

(F) such Letter of Credit fails or ceases to be in full force and effect at any time; or

(G) Seller shall fail to renew or cause the renewal of each outstanding Letter of Credit on a timely basis as provided in the relevant Letter of Credit and as provided in accordance with this Agreement, and in no event less than sixty (60) days prior to the expiration of the outstanding Letter of Credit.

5.2 <u>Remedies</u>; <u>Declaration of Early Termination Date</u>. If an Event of Default with respect to a Defaulting Party shall have occurred and be continuing, the other Party ("Non-Defaulting Party") shall have the right (a) to send Notice, designating a day, no earlier than the day such Notice is deemed to be received and no later than twenty (20) days after such Notice is deemed to be received, as an early termination date of this Agreement ("Early Termination Date") that terminates this Agreement and ends the Delivery Term effective as of the Early Termination Date, to accelerate all amounts owing between the Parties, and to collect liquidated damages calculated in accordance with Section 5.3 below ("Termination Payment"); (b) to withhold any

payments due to the Defaulting Party under this Agreement; (c) to suspend performance; and (d) to exercise any other right or remedy available at law or in equity, including specific performance or injunctive relief, except to the extent such remedies are expressly limited under this Agreement.

5.3 Termination Payment. The Termination Payment for a Terminated Transaction shall be the aggregate of all Settlement Amounts plus any and all other amounts due to the Non-Defaulting Party netted into a single amount. Except in the case of a termination of this Agreement by the Non-Defaulting Party solely as a result of an Event of Default by the Defaulting Party under Section 5.1(a)(iv) [Bankruptcy], if the Non-Defaulting Party's aggregate Gains exceed its aggregate Losses and Costs, if any, resulting from the termination of this Agreement, the Termination Payment shall be zero. The Non-Defaulting Party shall calculate, in a commercially reasonable manner, a Settlement Amount for the Terminated Transaction as of the Early Termination Date. Third parties supplying information for purposes of the calculation of Gains or Losses may include, without limitation, dealers in the relevant markets, end-users of the relevant product, information vendors and other sources of market information. The Settlement Amount shall not include consequential, incidental, punitive, exemplary, indirect or business interruption damages; provided, however, that any lost Capacity Attributes and Green Attributes shall be deemed direct damages covered by this Agreement. Without prejudice to the Non-Defaulting Party's duty to mitigate, the Non-Defaulting Party shall not have to enter into replacement transactions to establish a Settlement Amount. Each Party agrees and acknowledges that (a) the actual damages that the Non-Defaulting Party would incur in connection with a Terminated Transaction would be difficult or impossible to predict with certainty, (b) the Termination Payment described in this section is a reasonable and appropriate approximation of such damages, and (c) the Termination Payment described in this section is the exclusive remedy of the Non-Defaulting Party in connection with a Terminated Transaction but shall not otherwise act to limit any of the Non-Defaulting Party's rights or remedies if the Non-Defaulting Party does not elect a Terminated Transaction as its remedy for an Event of Default by the Defaulting Party.

5.4 <u>Notice of Payment of Termination Payment</u>. As soon as practicable after a Terminated Transaction, Notice shall be given by the Non-Defaulting Party to the Defaulting Party of the amount of the Termination Payment and whether the Termination Payment is due to the Non-Defaulting Party. The Notice shall include a written statement explaining in reasonable detail the calculation of such amount and the sources for such calculation. The Termination Payment shall be made to the Non-Defaulting Party, as applicable, within ten (10) Business Days after such Notice is effective.

5.5 <u>Disputes With Respect to Termination Payment</u>. If the Defaulting Party disputes the Non-Defaulting Party's calculation of the Termination Payment, in whole or in part, the Defaulting Party shall, within five (5) Business Days of receipt of the Non-Defaulting Party's calculation of the Termination Payment, provide to the Non-Defaulting Party a detailed written explanation of the basis for such dispute. Disputes regarding the Termination Payment shall be determined in accordance with Article 12.

5.6 <u>Rights And Remedies Are Cumulative</u>. Except where liquidated damages are provided as the exclusive remedy, the rights and remedies of a Party pursuant to this Article 5 shall be cumulative and in addition to the rights of the Parties otherwise provided in this Agreement.

5.7 <u>Mitigation</u>. Any Non-Defaulting Party shall be obligated to mitigate its Costs, losses and damages resulting from any Event of Default of the other Party under this Agreement.

5.8 Force Majeure. To the extent either Party is prevented by Force Majeure from carrying out, in whole or part, its obligations under this Agreement and such Party gives Notice and details of the Force Majeure to the other Party as detailed below, then, the Party impacted by Force Majeure shall be excused from the performance of its obligations to the extent impacted. Within forty-eight (48) hours of commencement of an event of Force Majeure, the non-performing Party shall provide the other Party with oral notice of the event of Force Majeure, and within two (2) weeks of the commencement of an event of Force Majeure the non-performing Party shall provide the other Party with Notice in the form of a letter describing in detail the particulars of the occurrence giving rise to the Force Majeure claim. Seller shall not substitute Product from any other source for the output of the Project during an outage resulting from Force Majeure. The suspension of performance due to a claim of Force Majeure must be of no greater scope and of no longer duration than is required by the Force Majeure. Buyer shall not be required to make any payments for any Product that Seller fails to Schedule, deliver or provide as a result of Force Majeure during the term of a Force Majeure. This Agreement may be terminated by the nonclaiming Party with no further obligation to the Force-Majeure-claiming Party if a Force Majeure event prevents the performance of a material portion of the obligations of the Force-Majeureclaiming Party hereunder and such Force Majeure event is not resolved within eight (8) months after the commencement of such Force Majeure event. In addition to the foregoing, prior to the Commercial Operation Date, this Agreement may be terminated by Buyer with no further obligation to Seller if one or more Force Majeure events prevents Seller from achieving the Commercial Operation Date by the end of the Force Majeure Extension Period; provided, however, that Buyer shall not have the right under this section to terminate this Agreement until the Guaranteed Commercial Operation Date if Seller is paying delay liquidated damages to Buyer as required under Section 3.9(c)(i) during the Project Cure Period (it being acknowledged, that Seller may elect to pay Daily Delay Damages during periods of Force Majeure up to the expiration of any remaining unclaimed portion of the Project Cure Period in lieu of claiming Force Majeure relief hereunder).

ARTICLE SIX: PAYMENT

6.1 <u>Billing and Payment</u>. On or about the tenth (10th) day of each month beginning with the second month of the first Contract Year and every month thereafter, and continuing through and including the first month following the end of the Delivery Term, Seller shall provide to Buyer (a) records of metered data, including CAISO metering and transaction data sufficient to document and verify the generation of Product by the Project for any CAISO settlement time interval during the preceding months, (b) access to any records, including invoices or settlement data from CAISO, necessary to verify the invoice; and (c) an invoice, in a format reasonably specified by Buyer, covering the services provided in the preceding month determined in accordance with Article 4 (which may include preceding months), with all component charges and unit prices identified and all calculations used to arrive at invoices on or before thirty (30) days after receipt of the invoice. If either the invoice date or payment date is not a Business Day, then such invoice or payment shall be provided on the next following Business Day. Each Party will make payments by electronic funds transfer, or by other mutually agreeable method(s), to the

account designated by the other Party. Any undisputed amounts not paid by the due date will be deemed delinquent and will accrue interest at the Default Rate, such interest to be calculated from and including the due date to but excluding the date the delinquent amount is paid in full. Invoices should be compiled in the form of an Excel spreadsheet or other electronic form acceptable to Buyer and may be sent by facsimile or e-mail.

Disputes and Adjustments of Invoices. A Party may, in good faith, dispute the 6.2 correctness of any invoice or any adjustment to an invoice, rendered under this Agreement or adjust any invoice for any arithmetic or computational error within twelve (12) months of the date the invoice, or adjustment to an invoice, was rendered. In the event an invoice or portion thereof, or any other claim or adjustment arising hereunder, is disputed, payment of the undisputed portion of the invoice shall be required to be made when due. Any invoice dispute or invoice adjustment shall be in writing and shall state the basis for the dispute or adjustment. Payment of the disputed amount shall not be required until the dispute is resolved. Upon resolution of the dispute, any required payment shall be made within two (2) Business Days of such resolution along with interest accrued at the Default Rate from and including the original due date to but excluding the date paid. Inadvertent overpayments shall be returned upon request or deducted by the Party receiving such overpayment from subsequent payments, with interest accrued at the Interest Rate from and including the date of such overpayment to but excluding the date repaid or deducted by the Party receiving such overpayment. Any dispute with respect to an invoice is waived if the other Party is not notified in accordance with this Section 6.2 within twelve (12) months after the invoice is rendered or subsequently adjusted, except to the extent any misinformation was from a third party not Affiliated with any Party and such third party corrects its information after the twelve-month period. If an invoice is not rendered within twelve (12) months after the close of the month during which performance occurred, the right to payment for such performance is waived.

6.3 <u>Netting of Payments</u>. The Parties hereby agree that they shall discharge mutual debts and payment obligations due and owing to each other on the same date through netting, in which case all amounts owed by each Party to the other Party for the purchase and sale of Product during the monthly billing period under this Agreement, including any related damages calculated pursuant to Section 3.1(h), interest, and payments or credits, shall be netted so that only the excess amount remaining due shall be paid by the Party who owes it.

ARTICLE SEVEN: LIMITATIONS

7.1 Limitation of Remedies, Liability and Damages. EXCEPT AS SET FORTH HEREIN, THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ANY AND ALL IMPLIED WARRANTIES ARE DISCLAIMED. THE PARTIES CONFIRM THAT THE EXPRESS REMEDIES AND MEASURES OF DAMAGES PROVIDED IN THIS AGREEMENT SATISFY THE ESSENTIAL PURPOSES HEREOF. FOR BREACH OF ANY PROVISION FOR WHICH AN EXPRESS REMEDY OR MEASURE OF DAMAGES IS PROVIDED, SUCH EXPRESS REMEDY OR MEASURE OF DAMAGES SHALL BE THE SOLE AND EXCLUSIVE REMEDY, THE OBLIGOR'S LIABILITY SHALL BE LIMITED AS SET FORTH IN SUCH PROVISION AND ALL OTHER REMEDIES OR DAMAGES AT LAW OR IN EQUITY ARE WAIVED, UNLESS THE PROVISION IN QUESTION PROVIDES THAT THE EXPRESS

REMEDIES ARE IN ADDITION TO OTHER REMEDIES THAT MAY BE AVAILABLE. EXCEPT FOR A PARTY'S INDEMNITY OBLIGATION IN RESPECT OF THIRD PARTY CLAIMS OR AS OTHERWISE EXPRESSLY HEREIN PROVIDED, NEITHER PARTY SHALL BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR INDIRECT DAMAGES, LOST PROFITS OR OTHER BUSINESS INTERRUPTION DAMAGES, BY STATUTE, IN TORT OR CONTRACT, UNDER ANY INDEMNITY PROVISION OR OTHERWISE. UNLESS EXPRESSLY HEREIN PROVIDED, AND SUBJECT TO THE PROVISIONS OF SECTION 11.2 (INDEMNITIES), IT IS THE INTENT OF THE PARTIES THAT THE LIMITATIONS HEREIN IMPOSED ON REMEDIES AND THE MEASURE OF DAMAGES BE WITHOUT REGARD TO THE CAUSE OR CAUSES RELATED THERETO, INCLUDING THE NEGLIGENCE OF ANY PARTY, WHETHER SUCH NEGLIGENCE BE SOLE, JOINT OR CONCURRENT, OR ACTIVE OR PASSIVE. TO THE EXTENT ANY DAMAGES REQUIRED TO BE PAID HEREUNDER ARE LIQUIDATED, THE PARTIES ACKNOWLEDGE THAT THE DAMAGES ARE DIFFICULT OR IMPOSSIBLE TO DETERMINE, OR OTHERWISE OBTAINING AN ADEQUATE REMEDY IS INCONVENIENT AND THE DAMAGES CALCULATED HEREUNDER CONSTITUTE A REASONABLE APPROXIMATION OF THE HARM OR LOSS.

ARTICLE EIGHT: CREDIT AND COLLATERAL REQUIREMENTS

8.1 <u>Buyer Financial Information</u>. If requested by Seller, Buyer shall deliver (i) within one hundred twenty (120) days following the end of each fiscal year, a copy of Buyer's annual report containing audited consolidated financial statements for such fiscal year and (ii) within sixty (60) days after the end of each of its first three fiscal quarters of each fiscal year, a copy of Buyer's quarterly report containing unaudited consolidated financial statements for such fiscal quarter. In all cases the statements shall be for the most recent accounting period and prepared in accordance with generally accepted accounting principles; provided, however, that should any such statements not be available on a timely basis due to a delay in preparation or certification, such delay shall not be an Event of Default so long as Buyer diligently pursues the preparation, certification and delivery of the statements. Buyer shall be deemed to have satisfied such delivery requirement if the applicable report is publicly available.

8.2 <u>Seller Financial Information</u>. Seller shall provide the following financial information:

(a) If requested by Buyer, Seller shall deliver (i) within one hundred twenty (120) days following the end of each fiscal year, a copy of Seller's annual report containing audited consolidated financial statements for such fiscal year and (ii) within sixty (60) days after the end of each of its first three fiscal quarters of each fiscal year, a copy of Seller's quarterly report containing unaudited consolidated financial statements for such fiscal year, a copy of Seller's quarterly report containing unaudited consolidated financial statements for such fiscal quarter. In all cases the statements shall be for the most recent accounting period and prepared in accordance with generally accepted accounting principles; provided, however, that should any such statements not be available on a timely basis due to a delay in preparation or certification, such delay shall not be an Event of Default so long as Seller diligently pursues the preparation, certification and delivery of the statements.

(b) *[If a Guaranty may be provided:* If a Guaranty is provided and if requested by Buyer, Seller shall deliver (i) within one hundred twenty (120) days following the end of each fiscal year, a copy of Guarantor's annual report containing audited consolidated financial statements for such fiscal year and (ii) within sixty (60) days after the end of each of its first three fiscal quarters of each fiscal year, a copy of Guarantor's quarterly report containing unaudited consolidated financial statements for such fiscal quarter certified by an officer of Guarantor. In all cases the statements shall be for the most recent accounting period and prepared in accordance with generally accepted accounting principles; provided, however, that should any such statements not be available on a timely basis due to a delay in preparation or certification, such delay shall not be an Event of Default so long as Guarantor diligently pursues the preparation, certification and delivery of the statements. Seller shall be deemed to have satisfied such delivery requirement if the applicable report is publicly available.]

Grant of Security Interest/Remedies. To secure its obligations under this 8.3 Agreement and to the extent Seller delivers Performance Assurance hereunder, Seller hereby grants to Buyer a present and continuing first priority security interest in, and lien on (and right of setoff against), and assignment of, all cash collateral and cash equivalent collateral and any and all proceeds resulting therefrom or the liquidation thereof, whether now or hereafter held by, on behalf of, or for the benefit of, Buyer, and each Party agrees to take such action as the other Party reasonably requires in order to perfect the Buyer's first-priority security interest in, and lien on (and right of setoff against), such collateral and any and all proceeds resulting therefrom or from the liquidation thereof. Upon or any time after the occurrence and during the continuation of an Event of Default by Seller or an Early Termination Date as a result thereof, Buyer may do any one or more of the following: (i) exercise any of the rights and remedies of a secured party with respect to all Performance Assurance, including any such rights and remedies under Law then in effect; (ii) exercise its rights of setoff against such collateral and any and all proceeds resulting therefrom or from the liquidation thereof; (iii) draw on any outstanding Letter of Credit issued for its benefit; and (iv) liquidate all or any portion of any Performance Assurance then held by or for the benefit of Buyer free from any claim or right of any nature whatsoever of Seller, including any equity or right of purchase or redemption by Seller. Buyer shall apply the proceeds of the collateral realized upon the exercise of any such rights or remedies to reduce the Seller's obligations under the Agreement (Seller remaining liable for any amounts owing to Buyer after such application), subject to Buyer's obligation to return any surplus proceeds remaining after such obligations are satisfied in full.

8.4 <u>Performance Assurance</u>.

(a) *[For Agreements with Delivery Terms greater than two years:* <u>CPUC</u> <u>Approval Security,] Development Period Security, Construction Period Security, Delivery Term</u> <u>Security</u>. To secure its obligations under this Agreement Seller agrees to deliver to Buyer and maintain in full force and effect for the period set forth below, the following Performance Assurance:

(i) *[For Agreements with Delivery Terms greater than two years:* CPUC Approval Security, in the amount of [_____] in the form of cash or a Letter of Credit [or a Guaranty] from the Execution Date of this Agreement until the return date specified in Section 8.4(b)(i) below;]

(ii) Development Period Security in the amount of [_____] in the form of cash or a Letter of Credit [or a Guaranty] from *[For Agreements with Delivery Terms greater than two years:* the CPUC Approval Date] *[For all other Agreements:* the Execution Date of this Agreement] until the return date specified in Section 8.4(b)[(i)/(ii)] below;

(iii) Construction Period Security in the amount of [____] in the form of cash or a Letter of Credit [or a Guaranty] from the CP Satisfaction Date until the return date specified in Section 8.4(b)[(ii)/(iii)] below; and

(iv) Delivery Term Security in the amount of [____] in the form of cash or a Letter of Credit [or a Guaranty] from the commencement of the Delivery Term until the return date specified in Section 8.4(b)[(iii)/(iv)] below.

Except as set forth in Section 2.2 as it pertains to [*For Agreements with Delivery Terms greater than two years:* the CPUC Approval Security and] the Development Period Security, any such Performance Assurance shall not be deemed a limitation of damages.

(b) <u>Return of Performance Assurance</u>.

(i) *[For Agreements with Delivery Terms greater than two years:* Buyer shall promptly return to Seller the unused portion of the CPUC Approval Security after the earlier of (A) the date on which Seller has delivered the Development Period Security or the Construction Period Security, as applicable, and (B) termination of the Agreement under Section 2.4(b)(ii).

(ii) Buyer shall promptly return to Seller the unused portion of the Development Period Security after the earlier of (A) the date on which Seller has delivered the Construction Period Security, and (B) termination of the Agreement under Section 2.4(b)(ii).

(iii) Buyer shall promptly return to Seller the unused portion of the Construction Period Security after the earlier of (A) the date on which Seller has delivered the Delivery Term Security, and (B) the date that all payment obligations of the Seller arising under this Agreement, including compensation for penalties, Termination Payment, indemnification payments or other damages are paid in full (whether directly or indirectly such as through set-off or netting) after an Early Termination Date.

(iv) Buyer shall promptly return to Seller the unused portion of the Delivery Term Security after the following have occurred: (A) the Delivery Term has expired or terminated early; and (B) all payment obligations of the Seller arising under this Agreement, including compensation for penalties, Termination Payment, indemnification payments or other damages are paid in full (whether directly or indirectly such as through set-off or netting).

8.5 <u>Interest on Cash</u>. If Seller provides Performance Assurance in the form of cash, Buyer shall pay interest on such cash held as *[For Agreements with Delivery Terms greater than two years:* CPUC Approval Security,] Development Period Security, Construction Period Security, or Delivery Term Security, as applicable, at the Interest Rate. On or before each Interest Payment Date, Buyer shall transfer the sum of all accrued and unpaid Interest Amounts due to Seller for such security in the form of cash by wire transfer to the bank account specified under "Wire Transfer" in the Cover Sheet.

8.6 <u>Costs of Letter of Credit</u>. If Seller provides Performance Assurance in the form of a Letter of Credit, in all cases, the reasonable costs and expenses of (including but not limited to the reasonable costs, expenses, and attorneys' fees, including reasonably allocated costs of inhouse counsel of the Buyer) establishing, renewing, substituting, canceling, increasing and reducing the amount of (as the case may be) one or more Letters of Credit shall be borne by the Seller.

ARTICLE NINE: GOVERNMENTAL CHARGES

9.1 <u>Cooperation</u>. Each Party shall use reasonable efforts to implement the provisions of and to administer this Agreement in accordance with the intent of the Parties to minimize all taxes, so long as neither Party is materially adversely affected by such efforts.

9.2 <u>Governmental Charges</u>. Seller shall pay or cause to be paid all taxes imposed by any governmental authority ("Governmental Charges") on or with respect to the Product or the transaction under this Agreement arising prior to and at the Delivery Point, including, but not limited to, ad valorem taxes and other taxes attributable to the Project, land, land rights or interests in land for the Project. Buyer shall pay or cause to be paid all Governmental Charges on or with respect to the Product or the transaction under this Agreement from the Delivery Point. In the event Seller is required by Law or regulation to remit or pay Governmental Charges which are Buyer's responsibility hereunder, Buyer shall promptly reimburse Seller for such Governmental Charges. If Buyer is required by Law or regulation to remit or pay Governmental Charges which are Seller's responsibility hereunder, Buyer may deduct such amounts from payments to Seller with respect to payments under the Agreement; if Buyer elects not to deduct such amounts from Seller's payments, Seller shall promptly reimburse Buyer for such amounts upon request. Nothing shall obligate or cause a Party to pay or be liable to pay any Governmental Charges for which it is exempt under the Law.

ARTICLE TEN: REPRESENTATIONS AND WARRANTIES; COVENANTS

10.1 <u>General Representations and Warranties</u>. On the Execution Date and the CP Satisfaction Date, each Party represents and warrants to the other Party that:

(a) it is duly organized, validly existing and in good standing under the Laws of the jurisdiction of its formation;

(b) it has all Governmental Approvals necessary for it to perform its obligations under this Agreement, except for as of the Execution Date (i) CPUC Approval in the case of Buyer, and (ii) all Governmental Approvals necessary to construct, operate and maintain the Project and related interconnection facilities in the case of Seller;

(c) the execution, delivery and performance of this Agreement is within its powers, have been duly authorized by all necessary action and do not violate any of the terms and conditions in its governing documents, any contracts to which it is a party or any applicable Law;

(d) this Agreement and each other document executed and delivered in accordance with this Agreement constitutes a legally valid and binding obligation enforceable against it in accordance with its terms, subject to any Equitable Defenses;

(e) it is not Bankrupt and there are no proceedings pending or being contemplated by it or, to its knowledge, threatened against it which would result in it being or becoming Bankrupt;

(f) except as may be set forth in its reports filed with the SEC, there is not pending or, to its knowledge, threatened against it or any of its Affiliates any legal proceedings that could materially adversely affect its ability to perform its obligations under this Agreement;

(g) no Event of Default with respect to it has occurred and is continuing and no such event or circumstance would occur as a result of its entering into or performing its obligations under this Agreement;

(h) it is acting for its own account, has made its own independent decision to enter into this Agreement and as to whether this Agreement is appropriate or proper for it based upon its own judgment, is not relying upon the advice or recommendations of the other Party in so doing, and is capable of assessing the merits of and understanding, and understands and accepts, the terms, conditions and risks of this Agreement; and

(i) it has entered into this Agreement in connection with the conduct of its business and it has the capacity or the ability to make or take delivery of the Product as provided in this Agreement.

10.2 <u>Seller Representations and Warranties</u>.

(a) Seller, and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement that: (i) the Project qualifies and is certified by the CEC as an Eligible Renewable Energy Resource ("ERR") as such term is defined in Public Utilities Code Section 399.12 or Section 399.16; and (ii) the Project's output delivered to Buyer qualifies under the requirements of the California Renewables Portfolio Standard. To the extent a change in Law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in Law.

(b) Seller and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement the Renewable Energy Credits transferred to Buyer conform to the definition and attributes required for compliance with the California Renewables Portfolio Standard, as set forth in CPUC Decision 08-08-028, and as may be modified by subsequent decision of the CPUC or by subsequent legislation. To the extent a change in Law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in Law.

(c) [Include other appropriate representations, warranties, and covenants to satisfy the California RPS content category requirements.]

10.3 <u>Covenants</u>.

(a) <u>General Covenants</u>. Each Party covenants that throughout the Delivery Term:

(i) it shall continue to be duly organized, validly existing and in good standing under the Laws of the jurisdiction of its formation;

(ii) it shall maintain (or obtain from time to time as required, including through renewal, as applicable) all Governmental Approvals necessary for it to legally perform its obligations under this Agreement;

(iii) it shall perform its obligations under this Agreement in a manner that does not violate any of the terms and conditions in its governing documents, any contracts to which it is a party or any applicable Law; and

(iv) it shall not dispute its status as a "forward contract merchant" within the meaning of the United States Bankruptcy Code.

(b) <u>Seller Covenants</u>.

(i) Seller covenants throughout the Delivery Term that it, or its permitted successors or assigns, shall maintain ownership of a fee, easement, long-term leasehold interest, or other similar asset ownership interest in the Project.

(ii) Seller covenants throughout the Delivery Term that it shall maintain market based rate authority from the FERC to sell Product to Buyer under the terms of this Agreement.

(iii) If at any time during the Delivery Term, Seller's representations and warranties set forth in Section 10.2 become materially false or misleading, Seller covenants that it shall provide prompt Notice to Buyer describing such default along with a description of its efforts to cure such default.

(iv) [Include other appropriate representations, warranties, and covenants to satisfy the California RPS content category requirements.]

(v) [Include other appropriate covenants regarding the use of contractors that may be diverse business enterprises.]

ARTICLE ELEVEN: TITLE, RISK OF LOSS, INDEMNITIES

11.1 <u>Title and Risk of Loss</u>. Title to and risk of loss related to the Product shall transfer from Seller to Buyer at the Delivery Point. Seller warrants that it will deliver to Buyer the Product free and clear of all liens, security interests, claims and encumbrances or any interest therein or thereto by any person arising prior to or at the Delivery Point.

11.2 <u>Indemnities</u>.

Indemnity by Seller. Seller shall release, indemnify, defend, and hold (a) harmless Buyer, its Affiliates, and its and their directors, officers, employees, agents, and representatives against and from any and all actions, suits, losses, costs, damages, injuries, liabilities, claims, demands, penalties and interest, including reasonable costs and attorneys' fees ("Claims") resulting from, or arising out of or in any way connected with (i) any event, circumstance, act, or incident relating to the Product delivered under this Agreement up to and at the Delivery Point, (ii) Seller's development, permitting, construction, ownership, operation and/or maintenance of the Project, (iii) the failure by Seller or the failure of the Project to comply with applicable Law, including without limitation the CAISO Tariff, (iv) any Governmental Charges for which Seller is responsible hereunder, or (v) any liens, security interests, encumbrances, or other adverse claims against the Product delivered hereunder made by, under, or through Seller, in all cases including, without limitation, any Claim for or on account of injury, bodily or otherwise, to or death of persons, or for damage to or destruction of property belonging to Buyer, Seller, or others, excepting only such Claim to the extent caused by the willful misconduct or gross negligence of Buyer, its Affiliates, and its and their directors, officers, employees, agents, and representatives.

(b) <u>Indemnity by Buyer</u>. Buyer shall release, indemnify, defend, and hold harmless Seller, its Affiliates, and its and their directors, officers, employees, agents, and representatives against and from any and all Claims resulting from, or arising out of or in any way connected with (i) any event, circumstance, act, or incident relating to the Product received by Buyer under this Agreement after the Delivery Point, (ii) the failure by Buyer to comply with applicable Law, including without limitation the CAISO Tariff, or (iii) any Governmental Charges for which Buyer is responsible hereunder, in all cases including, without limitation, any Claim for or on account of injury, bodily or otherwise, to or death of persons, or for damage to or destruction of property belonging to Buyer, Seller, or others, excepting only such Claim to the extent caused by the willful misconduct or gross negligence of Seller, its Affiliates, and its and their directors, officers, employees, agents, and representatives.

ARTICLE TWELVE: DISPUTE RESOLUTION

12.1 <u>Intent of the Parties</u>. Except as provided in the next sentence, the sole procedure to resolve any claim arising out of or relating to this Agreement or any related agreement is the dispute resolution procedure set forth in this Article 12. Either Party may seek a preliminary injunction or other provisional judicial remedy if such action is necessary to prevent irreparable harm or preserve the status quo, in which case both Parties nonetheless will continue to pursue resolution of the dispute by means of the dispute resolution procedure set forth in this Article 12.

12.2 Management Negotiations.

(a) The Parties will attempt in good faith to resolve any controversy or claim arising out of or relating to this Agreement or any related agreements by prompt negotiations between each Party's authorized representative designated in writing as a representative of the Party (each a "Manager"). Either Manager may, by Notice to the other Party, request a meeting to initiate negotiations to be held within ten (10) Business Days of the other Party's receipt of such request, at a mutually agreed time and place (either in person or telephonically). If the matter is not resolved within fifteen (15) Business Days of their first meeting ("Initial Negotiation End Date"), the Managers shall refer the matter to the designated senior officers of their respective companies that have authority to settle the dispute ("Executive(s)"). Within five (5) Business Days of the Initial Negotiation End Date ("Referral Date"), each Party shall provide one another Notice confirming the referral and identifying the name and title of the Executive who will represent the Party.

(b) Within five (5) Business Days of the Referral Date, the Executives shall establish a mutually acceptable location and date, which date shall not be greater than thirty (30) days from the Referral Date, to meet. After the initial meeting date, the Executives shall meet, as often as they reasonably deem necessary, to exchange relevant information and to attempt to resolve the dispute.

(c) All communication and writing exchanged between the Parties in connection with these negotiations shall be confidential and shall not be used or referred to in any subsequent binding adjudicatory process between the Parties.

(d) If the matter is not resolved within forty-five (45) days of the Referral Date, or if the Party receiving the Notice to meet, pursuant to Section 12.2(a) above, refuses or does not meet within the ten (10) Business Day period specified in Section 12.2(a) above, either Party may initiate arbitration of the controversy or claim by providing Notice of a demand for binding arbitration at any time thereafter.

12.3 <u>Arbitration</u>. Any dispute that cannot be resolved by management negotiations as set forth in Section 12.2 above shall be resolved through binding arbitration by a retired judge or justice from the [AAA][JAMS] panel conducted in San Diego, California, administered by and in accordance with [AAA's Commercial Arbitration Rules] [JAMS [Comprehensive][Streamlined] Arbitration Rules and Procedures] ("Arbitration").

(a) Any arbitrator shall have no affiliation with, financial or other interest in, or prior employment with either Party and shall be knowledgeable in the field of the dispute. The Parties shall cooperate with one another in selecting the arbitrator within sixty (60) days after Notice of the demand for arbitration. If, notwithstanding their good faith efforts, the Parties are unable to agree upon a mutually-acceptable arbitrator, the arbitrator shall be appointed as provided for in [AAA's Commercial Arbitration Rules] [JAMS [Comprehensive][Streamlined] Arbitration Rules and Procedures].

(b) At the request of a Party, the arbitrator shall have the discretion to order depositions of witnesses to the extent the arbitrator deems such discovery relevant and appropriate. Depositions shall be limited to a maximum of three (3) per Party and shall be held within thirty (30) days of the making of a request. Additional depositions may be scheduled only with the permission of the arbitrator, and for good cause shown. Each deposition shall be limited to a maximum of six (6) hours duration unless otherwise permitted by the arbitrator for good cause shown. All objections are reserved for the Arbitration hearing except for objections based on privilege and proprietary and confidential information. The arbitrator shall also have discretion to order the Parties to exchange relevant documents. The arbitrator shall also have discretion to order the Parties to answer interrogatories, upon good cause shown.

(c) The arbitrator shall have no authority to award punitive or exemplary damages or any other damages other than direct and actual damages and the other remedies contemplated by this Agreement.

(d) The arbitrator shall prepare in writing and provide to the Parties an award including factual findings and the reasons on which their decision is based.

(e) The arbitrator's award shall be made within nine (9) months of the filing of the notice of intention to arbitrate (demand) and the arbitrator shall agree to comply with this schedule before accepting appointment. However, this time limit may be extended by agreement of the Parties or by the arbitrator, if necessary.

(f) Judgment on the award may be entered in any court having jurisdiction.

(g) The prevailing Party in this dispute resolution process is entitled to recover its costs. Until such award is made, however, the Parties shall share equally in paying the costs of the Arbitration.

(h) The arbitrator shall have the authority to grant dispositive motions prior to the commencement of or following the completion of discovery if the arbitrator concludes that there is no material issue of fact pending before the arbitrator.

(i) The existence, content, and results of any Arbitration hereunder is confidential information that is subject to the provisions of Section 13.1.

ARTICLE THIRTEEN: MISCELLANEOUS

13.1 <u>Confidentiality</u>.

General. Neither Party shall disclose the non-public terms or conditions of (a) this Agreement or any transaction hereunder to a third party, other than (i) the Party's Affiliates and its and their officers, directors, employees, lenders, counsel, accountants or advisors who have a need to know such information and have agreed to keep such terms confidential, (ii) for disclosure to the Buyer's Procurement Review Group, as defined in CPUC Decision (D) 02-08-071, subject to a confidentiality agreement, (iii) to the CPUC under seal for purposes of review, (iv) disclosure of terms specified in and pursuant to Section 13.1(b) of this Agreement; (v) in order to comply with any applicable Law, regulation, or any exchange, control area or CAISO rule, or order issued by a court or entity with competent jurisdiction over the disclosing Party ("Disclosing Party"), other than to those entities set forth in subsection (vi); or (vi) in order to comply with any applicable regulation, rule, or order of the CPUC, CEC, or the Federal Energy Regulatory Commission. In connection with requests made pursuant to clause (v) of this Section 13.1(a) ("Disclosure Order") each Party shall, to the extent practicable, use reasonable efforts to prevent or limit such disclosure. After using such reasonable efforts, the Disclosing Party shall not be: (i) prohibited from complying with a Disclosure Order or (ii) liable to the other Party for monetary or other damages incurred in connection with the disclosure of the confidential information. Except as provided in the preceding sentence, the Parties shall be entitled to all remedies available at law or in equity to enforce, or seek relief in connection with, this confidentiality obligation.

(b) <u>RPS Confidentiality</u>. Notwithstanding Section 13.1(a) of this Agreement, at any time on or after the date on which the Buyer makes its filing seeking CPUC Approval for this Agreement, either Party shall be permitted to disclose the following terms with respect to this Agreement: Party names, resource type, Delivery Term, Project location, Contract Capacity, anticipated Commercial Operation Date, Contract Quantity, and Delivery Point.

(c) <u>Publicity</u>. Except as otherwise agreed to in this Section 13.1 above, no announcement, publicity, advertising, press release, promotional or marketing materials regarding the arrangement contemplated under this Agreement, including the existence hereof, shall be made by either Party without the prior written approval of the other Party which approval shall not be unreasonably withheld or delayed.

Assignment. Neither Party shall assign this Agreement or its rights hereunder 13.2 without the prior written consent of the other Party, which consent shall not be unreasonably withheld. For purposes hereof, the transfer of more than fifty percent (50%) of the equity ownership or voting interest of Seller (or any parent entity holding directly or indirectly at least fifty percent (50%) of the equity ownership or voting interest of Seller if such interest constitutes more than twenty percent (20%) of the fair market value of the assets of such parent entity) to a person that is not an Affiliate of Seller shall also constitute an assignment of this Agreement requiring Buyer's prior written consent. Notwithstanding the foregoing, either Party may, without the consent of the other Party (and without relieving itself from liability hereunder), transfer, sell, pledge, encumber, or assign this Agreement or the accounts, revenues or proceeds hereof to its financing providers. In connection with any financing or refinancing of the Project by Seller, Buyer shall in good faith negotiate and agree upon a consent to collateral assignment of this Agreement in a form that is commercially reasonable and customary in the industry. Notwithstanding the foregoing, Buyer may, without the consent of the Seller (and therefor relieving itself from liability hereunder), assign this Agreement to a Qualified Assignee. Qualified Assignee shall mean: any community choice aggregation entity or joint powers authority formed in the State of California or any legal entity that is established by statute or by the CPUC to serve load as a central procurement entity. Notwithstanding the foregoing, Buyer may, without the consent of the Seller (and thereby relieving itself from liability hereunder), assign this Agreement to a Qualified Assignee. Qualified Assignee shall mean: any community choice aggregation entity or joint powers authority formed in the State of California or any legal entity that is established by statute or by the CPUC to serve load as a central procurement entity. Any assignment in violation of this Section 13.2 shall be null and void.

13.3 <u>Audit</u>. Each Party has the right, at its sole expense and during normal working hours, to examine the records of the other Party to the extent reasonably necessary to verify the accuracy of any statement, charge or computation made pursuant to this Agreement including amounts of Delivered Energy or Scheduled Energy. If any such examination reveals any inaccuracy in any statement, the necessary adjustments in such statement and the payments thereof will be made promptly and shall bear interest calculated at the Default Rate from the date the overpayment or underpayment was made until paid; provided, however, that no adjustment for any statement or payment will be made unless objection to the accuracy thereof was made prior to the lapse of twelve (12) months from the rendition thereof, and thereafter any objection shall be deemed waived except to the extent any misinformation was from a third party not Affiliated with any Party and such third party corrects its information after such twelve-month period. In addition,

Buyer shall have the right, at its sole expense and during normal working hours, to examine the records of Seller to the extent reasonably necessary to verify Seller's compliance with its representations and warranties set forth in Section 10.2.

13.4 <u>Sarbanes-Oxley and SEC Requirements</u>. The Parties acknowledge that accounting principles generally accepted in the United States of America ("GAAP") and SEC rules require Buyer and its independent auditor to evaluate whether Buyer must consolidate Seller's financial information (but not financial information of Seller's constituent members unless deemed to be included in the entity under GAAP). Buyer may require access to information concerning Seller's organizational structure, including its debt/capital structure, as well as to personnel of Seller to determine if consolidated financial reporting is required. If Buyer and its independent auditor determine at any time that the Buyer must consolidate the Seller's financial statements to comply with GAAP and/or SEC rules regarding consolidated financial reporting, then:

(a) Buyer shall require from Seller and Seller agrees to provide to Buyer the following during the Term of this Agreement:

(i) Unaudited financial statements of the Seller prepared in accordance with GAAP as of the end of the quarterly period. The financial statements should include quarter to date and year to date information and are to be provided within fifteen (15) calendar days of the end of the applicable reporting period (or the Business Day thereafter);

(ii) Unaudited financial schedules of the Seller, as deemed necessary for Buyer to prepare its consolidated financial statements and related footnotes to the financial statements in accordance with GAAP as of the end of the quarterly period. The financial schedules should include quarter to date and year to date information underlying the financial statements and footnotes to the financial statements and are to be provided within fifteen (15) calendar days of the end of the applicable reporting period (or the Business Day thereafter);

(iii) Access to Seller's accounting and other records, and accounting and management personnel as reasonably determined by both Buyer and Seller so that (A) Buyer's independent auditor or its internal auditors may conduct financial audits (in accordance with the standards of the Public Company Accounting Oversight Board (United States)) as well as internal control audits (in accordance with Section 404 of the Sarbanes-Oxley Act of 2002) and (B) Buyer can be provided analytical information, as needed, to enable Buyer to meet its SEC filing requirements, including but not limited to those under Item 2 on Form 10-Q, and Item 7 on Form 10-K, "Management's Discussion and Analysis of Financial Condition and Results of Operations;"

(iv) Upon the request of Buyer, such certifications by a duly authorized representative(s) of Seller as may be reasonably requested by Buyer (which certifications shall presumptively be reasonable if the certifications are substantially identical to those required by Buyer or its parent of business units of Buyer or its parent); and

(v) As reasonably requested by Buyer, such information or schedules, similar to the items noted in clauses (i)-(iv) above, to enable Buyer to prepare consolidated financial statements and schedules as may be required for Buyer to obtain financing or to prepare

other reports as required by regulatory bodies, such as the SEC, for periods other than as of the end of the monthly, quarterly or year to date periods then ended.

(b) If Buyer (i) in its sole discretion determines that the financial statements of the Seller would be considered material to the Buyer or its parent company's financial statements, financial condition, or internal controls over financial reporting, and (ii) reasonably determines Seller's internal controls over financial reporting are not operating effectively or have resulted in a control deficiency, Buyer shall provide Notice to Seller. Upon receipt of such Notice, Seller will have thirty (30) days to remediate any deficiency in Seller's internal controls over financial reporting identified by the Buyer, which Buyer and Buyer's independent auditor deem to be necessary to ensure Seller's internal controls over financial reporting are adequate, during or as a result of the audits permitted under Section 13.4(a)(iii) or any other provision of this Agreement.

(c) As soon as possible, but in no event later than two (2) Business Days following any occurrence that would affect Seller in any material way, Seller shall provide to Buyer a Notice describing such occurrence in sufficient detail to permit the Buyer to file a report on SEC Form 8-K. Such occurrences include all reportable events on the then current Form 8-K that applies to Buyer and its parent company at such time, including but not limited to a material acquisition or disposition of assets, a material direct financial obligation or off-balance sheet financing arrangement, material litigation, and the execution or termination of a material contract.

(d) Any information provided to Buyer shall be treated as confidential except that it may be disclosed in connection with the preparation, review, certification and publication of Buyer's financial statements.

(e) Seller shall notify Buyer at any time during the term of this Agreement of any services provided or proposed to be provided to Seller by Buyer's independent auditor. Seller, and any of Seller's Affiliates, are prohibited from engaging Buyer's independent auditor for any services or in any consulting agreement without the express written consent of partner in charge of Buyer's independent audit.

13.5 <u>Entire Agreement</u>. This Agreement, together with the Cover Sheet and each and every appendix, attachment, amendment, schedule and any written supplements hereto, if any, between the Parties constitutes the entire agreement between the Parties.

13.6 <u>Recording</u>. Unless a Party expressly objects to a Recording (defined below) at the beginning of a telephone conversation, each Party consents to the creation of a tape or electronic recording ("Recording") of all telephone conversations between the Parties to this Agreement, and that any such Recordings will be retained in confidence, secured from improper access, and may be submitted in evidence in any proceeding or action relating to this Agreement. Each Party waives any further notice of such monitoring or recording, and agrees to notify its officers and employees of such monitoring or recording and to obtain any necessary consent of such officers and employees.

13.7 <u>Forward Contract</u>. The Parties acknowledge and agree that this Agreement constitutes a "forward contract" within the meaning of the United States Bankruptcy Code.

13.8 <u>Governing Law</u>. THIS AGREEMENT AND THE RIGHTS AND DUTIES OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY AND CONSTRUED, ENFORCED AND PERFORMED IN ACCORDANCE WITH THE LAWS OF THE STATE OF CALIFORNIA, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW. TO THE EXTENT ENFORCEABLE AT SUCH TIME, EACH PARTY WAIVES ITS RESPECTIVE RIGHT TO ANY JURY TRIAL WITH RESPECT TO ANY LITIGATION ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

13.9 <u>Attorneys' Fees</u>. In any proceeding brought to enforce this Agreement or because of the breach by any Party of any covenant or condition herein contained, the prevailing Party shall be entitled to reasonable attorneys' fees (including reasonably allocated fees of in-house counsel) in addition to court costs and any and all other costs recoverable in said action.

13.10 <u>General</u>. This Agreement shall be considered for all purposes as prepared through the joint efforts of the Parties and shall not be construed against one Party or the other as a result of the preparation, substitution, submission or other event of negotiation, drafting or execution hereof. Except to the extent provided for herein, no amendment or modification to this Agreement shall be enforceable unless reduced to writing and executed by both Parties. This Agreement shall not impart any rights enforceable by any third party (other than a permitted successor or assignee bound to this Agreement). Waiver by a Party of any default by the other Party shall not be construed as a waiver of any other default. The headings used herein are for convenience and reference purposes only. This Agreement shall be binding on each Party's successors and permitted assigns.

13.11 <u>Severability</u>. If any provision in this Agreement is determined to be invalid, void or unenforceable by any court having jurisdiction, such determination shall not invalidate, void, or make unenforceable any other provision, agreement or covenant of this Agreement and the Parties shall use their best efforts to modify this Agreement to give effect to the original intention of the Parties.

13.12 <u>Counterparts</u>. This Agreement may be executed in one or more counterparts each of which shall be deemed an original and all of which shall be deemed one and the same Agreement. Delivery of an executed counterpart of this Agreement by fax will be deemed as effective as delivery of an originally executed counterpart. Any Party delivering an executed counterpart of this Agreement by facsimile will also deliver an originally executed counterpart, but the failure of any Party to deliver an originally executed counterpart of this Agreement will not affect the validity or effectiveness of this Agreement.

13.13 <u>Notices</u>. Whenever this Agreement requires or permits delivery of a "Notice" (or requires a Party to "notify"), the Party with such right or obligation shall provide a written communication delivered personally, by a nationally recognized overnight courier, mailed by registered or certified mail (return receipt requested), or by facsimile or e-mail (if facsimile numbers or e-mail addresses are identified on the Cover Sheet or by subsequent Notice) to the receiving Party at the addresses identified on the Cover Sheet (or at such other addresses as such receiving Party shall identify by like Notice to the other Party); provided, however, that notices of Outages or other Scheduling or dispatch information or requests, shall be provided in accordance with the terms set forth in the relevant section of this Agreement. Invoices may be sent by

facsimile or e-mail (if facsimile numbers or e-mail addresses are identified on the Cover Sheet or by subsequent Notice). A Notice delivered in accordance herewith shall be deemed received (i) on the date of delivery, if hand delivered, (ii) two Business Days after the date of sending, if sent by a nationally recognized overnight courier, or at such earlier time as is confirmed by the receiving Party, (iii) three Business Days after the date of mailing, if mailed by registered or certified mail, return receipt requested, or at such earlier time as is confirmed by the receiving Party, and (iv) on the Business Day on which such Notice was transmitted by facsimile transmission or e-mail (where permitted); provided, however, that a Notice delivered in accordance with this Section but received on any day other than a Business Day. Each Party shall provide Notice to the other Party of the persons authorized to nominate and/or agree to a Schedule or Dispatch Order for the delivery or acceptance of the Product or make other Notices on behalf of such Party and specify the scope of their individual authority and responsibilities, and may change its designation of such persons from time to time in its sole discretion by providing Notice.

13.14 <u>Mobile Sierra</u>. Notwithstanding any provision of this Agreement, neither Party shall seek, nor shall they support any third party in seeking, to prospectively or retroactively revise the rates, terms or conditions of service of this Agreement through application or complaint to FERC pursuant to the provisions of Section 205, 206 or 306 of the Federal Power Act, or any other provisions of the Federal Power Act, absent prior written agreement of the Parties. Further, absent the prior agreement in writing by both Parties, the standard of review for changes to the rates, terms or conditions of service of this Agreement proposed by a Party, a non-Party or the FERC acting *sua sponte* shall be the "public interest" application of the "just and reasonable" standard of review set forth in United Gas Pipe Line Co. v. Mobile Gas Service Corp., 350 US 332 (1956) and Federal Power Commission v. Sierra Pacific Power Co., 350 US 348 (1956) and clarified by Morgan Stanley Capital Group Inc. v. Pub. Util. Dist. No. 1 of Snohomish County, 128 S. Ct. 2733 (2008).

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed as of the date first above written.

| [|] |
|-----|---|
| a [|] |

SAN DIEGO GAS & ELECTRIC COMPANY a California corporation

By:

Name:______ Title:_____

By:

| Name: | |
|--------|--|
| Title: | |

Exhibit A

PROJECT DESCRIPTION INCLUDING DESCRIPTION OF SITE

PROJECT DESCRIPTION

Project name _____

Project Site name: _____

Project physical address:

Total number of electric generating units at the Project (committed and not committed to Buyer)

Technology Type:

Substation:

The term "Site" as defined in the Agreement means the following parcel description upon which the Project is located:

Latitude and Longitude of Project:______.

The nameplate capacity of the Project is _____.

The electric generating units utilized as generation assets as part of the Project are described below:

[INSERT MAP]

Exhibit B

MILESTONE SCHEDULE

| | Date | Project Name |
|-----|------|--|
| 1. | | Obtains control of all lands and rights-of-way comprising the Site. |
| 2. | | Files a CEC Pre-Certification and Verification application. |
| 3. | | Receives a completed [Phase I Interconnection Study Report] [interconnection feasibility study] and CAISO Deliverability Assessment Study Report. [<i>Omit if addressed by a Condition Precedent</i>] |
| 4. | | Receives a completed [Phase II Interconnection Study Report] [interconnection system impact study] and CAISO Deliverability Assessmen Study report [<i>Omit if addressed by a Condition Precedent</i>] |
| 5. | | Files CEQA/NEPA application with appropriate agency(ies). |
| 6. | | Executes interconnection agreement and/or transmission agreement and receives FERC approval. |
| 7. | | Receives CEQA/NEPA approval/permit |
| 8. | | Executes a supply contract. |
| 9. | | Executes an Engineering, Procurement and Construction ("EPC") contract. |
| 10. | | Delivers full NTP under EPC contract and begins construction of the Project |
| 11. | | Executes Meter Service Agreement and Participating Generator Agreement. |
| 12. | | Delivers Energy to the Transmission Provider to which the Project is physically interconnected. |
| 13. | | Receives all Governmental Approvals necessary to achieve COD. |
| 14. | | Receives CEC Certification and Verification. |

Exhibit C

FORM OF LETTER OF CREDIT

[DATE]

To: San Diego Gas & Electric Company 555 W. Fifth Street Mail Code: ML 18A3 Los Angeles, CA 90013

Re: Our Irrevocable Standby Letter of Credit No._____ In the Amount of US_____

Ladies and Gentlemen:

We hereby open our irrevocable standby Letter of Credit Number _____ in favor of [name of Beneficiary] ("Beneficiary"), by order and for account of [name of Applicant] ("Applicant"), [address of Applicant], available at sight upon demand at our counters, at [location] for an amount of US\$ _____ [amount spelled out and xx/100 U.S. Dollars] against presentation one of the following documents:

1- Statement signed by a person purported to be an authorized representative of Beneficiary stating that: "[name of Applicant] ("Applicant") is in default under the Power Purchase Agreement between Beneficiary and Applicant dated or under any transaction contemplated thereby (whether by failure to perform or pay any obligation thereunder or by occurrence of a "default", "event of default" or similar term as defined in such agreement, any other agreement between Beneficiary and Applicant, or otherwise). The amount due to Beneficiary is U.S. \$..."

or

2- Statement signed by a person purported to be an authorized representative of Beneficiary stating that: "[name of Applicant] ("Applicant") has forfeited all or part of its *[For Agreements with Delivery Terms greater than two years:* CPUC Approval Security or] Development Period Security as set forth and defined in the Power Purchase Agreement between Beneficiary and Applicant dated ______. The amount due to Beneficiary, whether or not a default has occurred, is U.S. \$_____."

or

3- Statement signed by a person purported to be an authorized representative of Beneficiary stating that: "as of the close of business on [insert date, which is less than 60 days prior to the expiration date of the Letter of Credit] you have provided written

notice to us indicating your election not to permit extension of this Letter of Credit beyond its current expiry date. The amount due to Beneficiary, whether or not a default has occurred, is U.S. \$_____."

Special Conditions:

- All costs and banking charges pertaining to this Letter of Credit are for the account of Applicant.

- Partial and multiple drawings are permitted.
- Fax of Document 1 or 2 or 3 above is acceptable. Notwithstanding anything to the contrary herein, any drawing hereunder may be requested by transmitting the requisite documents as described above to us by facsimile at ______ or such other number as specified from time to time by us. The facsimile transmittal shall be deemed delivered when received. It is understood that drawings made by facsimile transmittal are deemed to be the operative instrument without the need of originally signed documents.

This Letter of Credit expires on ______ at our counters.

We hereby engage with Beneficiary that upon presentation of a document as specified under and in compliance with the terms of this Letter of Credit, this Letter of Credit will be duly honored in the amount stated in Document 1, 2, or 3 above. If a document is so presented by 1:00 pm on any New York banking day, we will honor the same in full in immediately available New York funds on that day and, if so presented after 1:00 pm on a New York banking day, we will honor the same in full in immediately available New York banking day.

It is a condition of this Letter of Credit that it shall be deemed automatically extended without an amendment for a one year period beginning on the present expiry date hereof and upon each anniversary of such date, unless at least ninety (90) days prior to any such expiry date we have sent you written notice by regular and registered mail or courier service that we elect not to permit this Letter of Credit to be so extended beyond, and will expire on its then current expiry date. No presentation made under this Letter of Credit after such expiry date will be honored.

We agree that if this Letter of Credit would otherwise expire during, or within 30 days after, an interruption of our business caused by an act of god, riot, civil commotion, insurrection, act of terrorism, war or any other cause beyond our control or by any strike or lockout, then this Letter of Credit shall expire on the 30th day following the day on which we resume our business after the cause of such interruption has been removed or eliminated and any drawing on this Letter of Credit which could properly have been made but for such interruption shall be permitted during such extended period.

This Letter of Credit is subject to the Uniform Customs and Practice for Documentary Credits (2007 Revision) International Chamber of Commerce, Publication No. 600 ("UCP"), except to the extent that the terms hereof are inconsistent with the provisions of the UCP, including but not limited to Articles 14(b) and 36 of the UCP, in which case the terms of this Letter of Credit shall

govern. Matters not covered by the UCP shall be governed and construed in accordance with the laws of the State of California.

[Name of Bank]

Authorized Signature(s)

Exhibit D

FORM OF GUARANTY

GUARANTY

In consideration of San Diego Gas & Electric Company ("Company") entering into a power purchase agreement with [NAME OF COUNTERPARTY] (hereinafter referred to as "Applicant"), [NAME OF GUARANTOR], a [TYPE OF LEGAL ENTITY i.e. California corporation], (hereinafter referred to as "Guarantor") agrees with Company as follows:

1. The term "Obligations" shall mean all obligations, liabilities and indebtedness of any kind whatsoever arising in connection with _______ or arising in connection with or under any security agreement or other agreement between the Company and Applicant. The amount of Obligations existing from time to time shall be calculated after giving effect to all contractual netting arrangements between Applicant and the Company.

2. Guarantor unconditionally and irrevocably guarantees to Company the full, prompt and faithful payment and performance when due of each and all of the Obligations.

3. This is a continuing guaranty relating to the Obligations. Guarantor acknowledges that there is a continuing consideration to Guarantor for this Guaranty and therefore Guarantor waives and relinquishes the right to revoke or terminate this Guaranty as provided in California Civil Code Section 2815.

4. Any of the Obligations may be amended, modified, waived, or increased (whether or not beyond any dollar limitation hereunder), further agreements may be entered into between Company and Applicant, Company may provide additional goods or services or credit to Applicant or increase or decrease the dollar value of such goods, services or credit, and further obligations (including, without limitation, the provision or pledging of security to Company for any obligation), indebtedness and liabilities may be entered into or incurred from time to time by Applicant and without further authorization from or notice to Guarantor and no such action shall terminate, release, impair, reduce, discharge, diminish or in any way affect any of the obligations of Guarantor hereunder or any security furnished by Guarantor or give Guarantor any recourse or defense against Company. Company need not inquire into the power of Applicant or the authority of its officers, directors, partners or agents acting or purporting to act in its behalf.

5. With respect to all Obligations, this is a guaranty of payment and performance and not of collection, and Guarantor waives and agrees not to assert or take advantage of:

(a) any right to require Company to proceed against Applicant or any other person or to resort to, proceed against or exhaust any security held by it at any time or to pursue any other remedy in its power before proceeding against any Guarantor;

(b) demand, presentment, protest and notice of any kind including, without limiting the generality of the foregoing, notice of nonperformance, protest, dishonor and acceptance of this Guaranty, notice under Section 9611 of the California Commercial Code, and

notice of the existence, creation or incurring of any new or additional indebtedness or obligation or of any action or non-action on the part of Applicant, Company, a guarantor under this or any other instrument, or creditor of Applicant or any other person whomsoever, in connection with any of the Obligations or any collateral for any of the Obligations or in connection with any of the Obligations; and

any suretyship defenses and suretyship rights of every nature otherwise (c) available under California law and the laws of any other state or jurisdiction, including, without limitation, all defenses and rights arising under Sections 2787 through 2855 of the California Civil Code (the "Suretyship Provisions") and any successor provisions to those Sections. Without limiting the generality of the foregoing, Guarantor acknowledges his, her or its understanding that the Suretyship Provisions provide various partial or complete defenses to the recovery by Company from Guarantor and/or grant Guarantor rights the enforcement of which could reduce or eliminate entirely Guarantor's liability hereunder to Company. Among the defenses and rights contained in the Suretyship Provisions are the following: (1) Section 2809 of the Civil Code, which provides, in part, that the obligation of a surety must not be either larger in amount or in other respects more burdensome than that of the principal; (2) Section 2810 of the Civil Code, which provides, in part, that a surety is not liable if for any reason other than the mere personal disability of the principal there is no liability upon the part of the principal at the time of execution of the contract, or the liability of the principal thereafter ceases; (3) Section 2819 of the Civil Code, which provides, in part, that a surety is exonerated if the creditor alters the original obligation of the principal without the consent of the surety; (4) Section 2845 of the Civil Code, which provides, in part, that a surety is exonerated to the extent that the creditor fails to proceed against the principal, or to pursue any other remedy in the creditor's power which the surety cannot pursue and which would lighten the surety's burden; (5) Section 2846 of the Civil Code, which provides that a surety may compel his principal to perform the obligation when due; (6) Section 2847 of the Civil Code, which provides, in part, that if a surety satisfies the principal obligation, or any part thereof, the principal is obligated to reimburse the surety for the amounts paid by the surety; (7) Section 2848 of the Civil Code, which provides, in part, that a surety, upon satisfaction of the obligation of the principal is entitled to enforce remedies which the creditor then has against the principal; (8) Section 2849 of the Civil Code, which provides, in part, that a surety is entitled to the benefit of security held by the creditor for the performance of the principal obligation held by the creditor; (9) Section 2850 of the Civil Code, which provides, in part, that whenever the property of a surety is hypothecated with property of the principal, the surety is entitled to have the property of the principal first applied to the discharge of the obligation; and (10) Section 2822 of the Civil Code, which provides, in part, for a right to have the principal designate the portion of any obligation to be satisfied by the surety in the event that the principal provides partial satisfaction of such obligation.

6. All existing and future indebtedness of Applicant to Guarantor ("Intercompany Obligations") is subordinated to all Obligations hereby guaranteed. All of Guarantor's right, title and interest in and to the Intercompany Obligations and rights to receive any payments of the Intercompany Obligations are hereby granted and assigned to Company as continuing security for the Obligations hereby guaranteed, and, in the event of any default in the payment of any of the Obligations when due and until the Obligations guaranteed hereby have been paid in full (a) at the Company's request, Applicant shall forthwith pay to the Company all or any part of such Intercompany Obligations and any capital which Guarantor is entitled to withdraw until all of the

Obligations guaranteed hereby have been paid in full, and (b) Guarantor shall pay to Company immediately any payments of such Intercompany Obligations received by Guarantor.

7. Guarantor agrees to pay all attorneys' fees (including without limitation, reasonably allocated fees of in-house counsel) and all other costs and expenses which may be incurred by Company in the enforcement of this Guaranty against Guarantor.

8. This Guaranty is not assignable by Guarantor without Company's consent. This Guaranty shall inure to the benefit of Company and its successors and assigns, including the assignees of any Obligations, and bind the heirs, executors, administrators, successors and permitted (if any) assigns of Guarantor. This Guaranty is assignable by Company with respect to all or any portion of the Obligations, and when so assigned Guarantor shall be liable to the assignees under this Guaranty without in any manner affecting the liability of Guarantor hereunder with respect to any Obligations retained by Company.

9. This Guaranty shall be governed by and construed in accordance with the laws of the State of California, without reference to its choice of law provisions. Guarantor hereby irrevocably and unconditionally agrees that any legal action or proceeding against Guarantor or any of Guarantor's property with respect to this Guaranty may be brought in the courts of the State of California in the County of San Diego or the courts of the United States in the County of San Diego, as Company may elect, and by executing and delivering this Guaranty Guarantor hereby submits to and accepts with regard to any such action or proceeding for himself, herself or itself and in respect of his, her or its property, generally, irrevocably and unconditionally, the jurisdiction of the above mentioned courts. Guarantor hereby irrevocably appoints the Secretary of State of the State of California as his, her or its agent for service of process in any suit or proceeding if the Guarantor is located outside the State of California at the time of service or cannot reasonably be located by Company. The foregoing, however, shall not limit the right of Company as it may elect to bring any legal action or proceeding or to obtain execution of judgment in any other appropriate jurisdiction including but not limited to any other jurisdiction in which Guarantor or his, her or its property is located.

10. Except as provided in any other written agreement now or at any time hereafter in force between Company and Guarantor, this Guaranty shall constitute the entire agreement of Guarantor with Company with respect to the subject matter hereof and no representation, understanding, promise or condition concerning the subject matter hereof shall be binding upon Company unless expressed herein.

11. All notices, demands, requests and other communications required or permitted hereunder shall be in writing and shall be given personally, by certified or registered mail, postage prepaid, return receipt requested, or by reliable overnight courier to the address of the Company set forth below (or to such new address as Company may designate hereafter in a notice to Guarantor) in the case of a communication to the Company and to the address appearing next to Guarantor's signature on this Guaranty (or to such new address as Guarantor may designate hereafter in a notice to Company) in the case of a communication to Guarantor. Any notice served personally shall be deemed delivered upon receipt, and any notice served by certified or registered mail or by reliable overnight courier shall be deemed delivered on the date of receipt as shown on

the addressee's registry or certification of receipt or on the date receipt is refused as shown on the records or manifest of the U.S. Postal Service or such courier.

San Diego Gas & Electric Company 555 W. Fifth Street Attn: Major Markets 18A3, Credit Manager Los Angeles, CA 90013 Fax No.: (213) 244-8316

12. Until all of the Obligations guaranteed hereby have been satisfied in full, Guarantor shall have no right of subrogation or reimbursement from the Applicant which Guarantor may have as a result of any payment by Guarantor under this Guaranty, and waives any right to enforce any remedy which Company now has or may hereafter have against the Applicant as a result of such payment by Guarantor under this Guaranty and waives any right under section 2849 of the California Civil Code and any other benefit of or right to participate in any security now or hereafter held by Company.

13. All amounts payable by Guarantor hereunder shall be paid without set-off or counterclaim and without any deduction or withholding whatsoever unless and to the extent that Guarantor shall be prohibited by law from doing so, in which case Guarantor shall pay to Company such additional amount as shall be necessary to ensure that Company receives the full amount it would have received if no such deduction or withholding had been made.

14. If any portion of this Guaranty is held to be unenforceable by a court of competent jurisdiction, the remainder of this Guaranty shall remain in full force and effect.

IN WITNESS WHEREOF, the undersigned Guarantor has executed this Guaranty on [MONTH AND DAY], [YEAR].

GUARANTOR: [NAME OF GUARANTOR]

Signature

Title

Printed Name of Person Signing for Guarantor Guarantor's Address

City, State, Zip

Guarantor's Phone No.

Exhibit E

COMMERCIAL OPERATION CERTIFICATE

The undersigned, _____ ("EPC Contractor"), _____ ("Renewable Generation Equipment Supplier"), _____ ("Licensed Professional Engineer") and [_____] ("Owner") make the following certifications to San Diego Gas & Electric Company ("SDG&E"), dated as of ______. All capitalized terms not otherwise defined herein shall have the meaning given to them in the Power Purchase Agreement dated ______ between Owner and SDG&E (the "Agreement").

Renewable Generation Equipment Supplier hereby certifies that:

- 1. The [_____] comprising the Project have been erected and installed at the project site and have been commissioned as required under the Supply and Installation Agreement ("[____] Supply Agreement") dated as of _____, by and between Renewable Generation Equipment Supplier and Owner and each such [____] has passed the performance testing required to be performed pursuant to the [____] Supply Agreement.
- 2. The Warranty Period under the Warranty Agreement ("Warranty Agreement") dated as of ______, by and between Renewable Generation Equipment Supplier and Owner has commenced.

EPC Contractor hereby certifies that:

All requirements necessary to achieve [Commercial Operation/Substantial Completion] as set forth in the agreement between the EPC Contractor and Owner dated ______("EPC Contract") have been completed and the Project has successfully passed all performance tests at a level that demonstrates satisfaction of at least the [minimum performance guarantees].

Owner hereby certifies that:

- 1. Except for punch list items that would not materially affect the performance, reliability or safe operation of the Project, the Project has been completed in accordance with all applicable specifications and is ready for continuous commercial operation in compliance with all applicable laws and governmental approvals. The Project has successfully passed all performance tests at a level that demonstrates satisfaction of at least the [insert minimum performance guarantees], and complete test reports have been submitted to Buyer.
- 2. The Operation and Maintenance Agreement (O&M Agreement), by and between Owner and ______ dated as of ______ has commenced.

- 3. Owner has a valid leasehold or real property interest in the Project Site for a term of at least [___] years from the Commercial Operation date.
- 4. The interconnection facilities have been completed in accordance with applicable specifications, tariffs, laws and governmental approvals to enable power generated by the Project to be received at the Delivery Point.
- 5. Owner has obtained all governmental approvals necessary for the continuous commercial operation of the Project and the Project is in compliance with all such governmental approvals and all other applicable laws.
- 6. The Contract Capacity of the Project is [__] MWac and [__] MWdc at [___] conditions.

Licensed Professional Engineer certifies that:

- 1. We have read the Agreement, the [_____] Supply Contract, and the EPC Contract and we understand the requirements for Commercial Operation under the Agreement, the specifications and performance testing requirements under the [____] Supply Contract, and the requirements for [Commercial Operation/Substantial Completion] under the EPC Contract.
- 2. We have reviewed the material and data made available to us by the Owner, the Renewable Generation Equipment Supplier, and the EPC Contractor for the Project.
- 3. To the extent practical, we have reviewed the engineering, procurement, construction and performance testing for the Project and in the course of this review we have not discovered any material errors or omissions in the work performed to date.
- 4. We have reviewed the certificates of Owner, Renewable Generation Equipment Supplier, and EPC Contractor above, and find the representations provided to be correct in all material respects.
- 5. We have reviewed all Governmental Approvals and permits identified by the Owner as being required for the construction and operation of the Project and are of the opinion that the Project as completed is in compliance in all material respects with the environmental and technical requirements contained therein.
- 6. Based on our review of the aforementioned information and of information provided to us by others which we have not independently verified, we are of the opinion that, as of, Commercial Operation has occurred as defined in the Agreement.

Executed this ____ day of ____, 200_

RENEWABLE GENERATION EQUIPMENT SUPPLIER

[Name of Renewable Generation Equipment Supplier]

a _____ corporation

By:_____

Name: Title:

EPC CONTRACTOR

[Name of EPC Contractor]

a _____ corporation

By:_____

Name: Title:

OWNER

[*Name of Owner*] a _____ limited liability company

By:_____

Name: Title:

LICENSED PROFESSIONAL ENGINEER: [*Name of* Licensed Professional Engineer] a _____

By:_____

Name: Title:

ACCEPTED BY SAN DIEGO GAS & ELECTRIC COMPANY

By:

| Name | : | |
|--------|---|--|
| Title: | | |
| Date: | | |

E-4

Exhibit F

FORM OF QUARTERLY PROGRESS REPORT

Quarterly Progress Report of

("Seller")

provided to San Diego Gas & Electric Company

[Date]

Table of Contents

[Insert Table of Contents]

1.0 Instructions.

All capitalized terms used in this report shall have the meanings set forth below and any capitalized terms used in this report which are not defined below shall have the meanings ascribed thereto in the Power Purchase Agreement by and between ______ ("Seller") and San Diego Gas & Electric Company dated ______, ___ (the "<u>Agreement</u>").

Seller shall review the status of each significant element of the Project schedule and Seller shall identify such matters referenced in clauses (i)-(v) below as known to Seller and which in Seller's reasonable judgment are expected to adversely affect the Project or the Project schedule, and with respect to any such matters, shall state the actions which Seller intends to take to ensure that Conditions Precedent and the Milestones will be attained by their required dates. Such matters may include, but shall not be limited to:

(i) Any material matter or issue arising in connection with a Governmental Approval, or compliance therewith, with respect to which there is an actual or threatened dispute over the interpretation of a law or regulation, actual or threatened opposition to the granting of a necessary Governmental Approval, any organized public opposition, any action or expenditure required for compliance or obtaining approval that Seller is unwilling to take or make, or in each case which could reasonably be expected to materially threaten or prevent financing of the Project, attaining any Condition or Milestone, or obtaining any contemplated agreements with other parties which are necessary for attaining any Condition or Milestone or which otherwise reasonably could be expected to materially threaten Seller's ability to attain any Condition or Milestone;

(ii) Any development or event in the financial markets or the independent power industry, any change in taxation or accounting standards or practices or in Seller's business or prospects which reasonably could be expected to materially threaten financing of the Project, attainment of any Condition or Milestone or materially threaten any contemplated agreements with other parties which are necessary for attaining any Condition or Milestone or could otherwise reasonably be expected to materially threaten Seller's ability to attain any Condition or Milestone;

(iii) A change in, or discovery by Seller of, any legal or regulatory requirement which would reasonably be expected to materially threaten Seller's ability to attain any Condition or Milestone;

(iv) Any material change in the Seller's schedule for initiating or completing any material aspect of Project;

(v) The status of any matter or issue identified as outstanding in any prior Quarterly Report and any material change in the Seller's proposed actions to remedy or overcome such matter or issue.

Seller shall complete, certify, and deliver this form Quarter Quarterly Progress Report to [_____], together with all attachments and exhibits, with [3] copies of the Report delivered to [_____] and [____].

2.0 Executive Summary.

2.1 Major activities to be performed for each aspect of the Project during the current calendar quarter.

Please provide a brief summary of the Major² activities to be performed for each of the following aspects of the Project during the current calendar quarter:

- 2.1.1 Design
- 2.1.2 Engineering
- 2.1.3 Major Equipment procurement
- 2.1.4 Construction
- 2.1.5 Milestone report
- 2.1.6 Permitting (See Section 3.0)

2.2 Major activities scheduled to be performed in the previous calendar quarter but not completed as scheduled.

Please provide a brief summary of the Major activities which were scheduled to be performed in the previous calendar quarter and their status, including those activities that were not completed as scheduled:

- 2.2.1 Design
- 2.2.2 Engineering
- 2.2.3 Major Equipment procurement
- 2.2.4 Construction
- 2.2.5 Milestone report
- 2.2.6 Permitting

² For Purposes of this Report, "Major" shall mean any activity, event, or occurrence which may have a material adverse impact on the construction of the Facility or completion of the Project on a timely basis if such activity, event, or occurrence occurs or if such activity, event, or occurrence fails to occur as anticipated or scheduled, which material adverse impact includes, but is not limited to, Seller's inability to achieve a Milestone Date.

3.0 Permitting.

The following describes each of the major Governmental Approvals required for the construction of the Project and the status of each:

3.1 State and/or federal Governmental Approvals.

Please describe each of the Major state and/or federal Governmental Approval (including the Permit to Construct issued by the San Diego County Air Pollution Control District) to be obtained by Seller (or EPC Contractor) and the status of each.

| DESCRIPTION | STATUS |
|-------------|--------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

3.2 Local and/or county Governmental Approvals.

Please describe each of the Major local and/or county Governmental Approvals to be obtained by Seller and the status of each.

| DESCRIPTION | STATUS |
|-------------|--------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

3.3 Permitting activities which occurred during the previous calendar quarter.

Please list all permitting activities which occurred during the previous calendar quarter.

3.4 Permitting activities occurring during the current calendar quarter.

Please list all permitting activities which are expected to occur during the current calendar quarter.

3.5 **Permitting Notices received from EPC Contractor.**

Please attach to this Quarterly Progress Report copies of any notices related to permitting activities received from EPC Contractor during the previous calendar quarter.

4.0 Design Activities.

4.1 Table of design schedule to be followed by Seller and its subcontractors.

The following table lists the design schedule to be followed by Seller and its subcontractors.

| CONTRACTOR/ SUBCONTRACTOR | SCHEDULED COMPLETION DATE | ACTUAL COMPLETION DATE |
|------------------------------|---------------------------------|------------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | SUBCONTRACTOR COMPLETION |

4.2 Design activities to be performed during the current calendar quarter.

Please explain in detail the design activities which are expected to be performed during the current calendar quarter.

4.3 Table of design activities completed during the previous calendar quarter.

Please explain in detail the design activities which were completed during the previous calendar quarter.

5.0 Engineering Activities.

5.1 Table of engineering schedule to be followed by Seller and its subcontractors.

The following table lists the engineering schedule to be followed by Seller and its subcontractors:

| ACTIVITY | CONTRACTOR/ SUBCONTRACTOR | SCHEDULED COMPLETION DATE | ACTUAL COMPLETION DATE |
|----------|------------------------------|---------------------------------|------------------------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

5.2 Engineering activities to be performed during the current calendar quarter.

Please explain in detail the engineering activities which are expected to be performed during the current calendar quarter.

5.3 Engineering activities completed during the previous calendar month.

Please explain in detail the engineering activities which were completed during the previous calendar quarter.

5.4 Three-month look-ahead engineering schedule.

Please provide a three-month look ahead engineering schedule.

6.0 Major Equipment Procurement.

6.1 Table of major equipment to be procured by Seller and its subcontractors.

The following table lists major equipment to be procured by Seller and its subcontractors:

| EQUIPMENT DESCRIPTION | MANUFACTURER | MODEL | CONTRACTED DELIVERY DATE | ACTUAL DELIVERY DATE | PROJECTED INSTALLATION DATE | ACTUAL INSTALLATION DATE |
|--------------------------|--------------|-------|--------------------------------|----------------------------|-----------------------------------|--------------------------------|
| | | | | | | |
| | | | | | | |

6.2 Major Equipment procurement activities to be performed during the current calendar quarter.

Please explain in detail the major equipment procurement activities which are expected to be performed during the current calendar quarter.

6.3 Major Equipment procurement activities completed during the previous calendar quarter.

Please explain in detail the major equipment procurement activities which were completed during the previous calendar quarter.

7.0 Construction Activities.

7.1 Table of construction activities to be performed by Seller and its subcontractors.

The following tables lists construction activities to be performed by Seller and its subcontractors:

| ACTIVITY | CONTRACTOR/ SUBCONTRACTOR | SCHEDULED COMPLETION DATE | ACTUAL COMPLETION DATE |
|---------------------|------------------------------|---------------------------------|------------------------------|
| Civil Progress | | | |
| Structural Progress | | | |
| [Steam] Generator | | | |
| Progress | | | |
| Piping Progress | | | |
| IC and Electrical | | | |
| Progress | | | |
| Subcontractor | | | |
| Progress | | | |

7.2 Construction activities to be performed during the current calendar quarter.

Please explain in detail the construction activities which are expected to be performed during the current calendar quarter.

7.3 Construction activities completed during the previous calendar quarter.

Please explain in detail the construction activities which are expected to be performed during the previous calendar quarter.

7.4 EPC Contractor Monthly Progress Report.

Please attach a copy of the Monthly Progress Reports received during the previous calendar quarter from the EPC Contractor pursuant to the EPC Contract, certified by the EPC Contractor as being true and correct as of the date issued.

7.5 Three-month look-ahead construction schedule.

Please provide a three-month look ahead construction schedule.

8.0 Milestones.

8.1 Milestone schedule.

Please state the status and progress of each Milestone and identify any completed Milestone(s) for the previous calendar quarter.

8.2 Remedial Action Plan (applicable if Seller fails to achieve Milestone by the Milestone Date).

Please explain in detail each of the following aspects of Seller's remedial action plan:

- 8.2.1 Missed Milestone
- 8.2.2 Plans to achieve missed Milestone
- 8.2.3 Plans to achieve subsequent Milestone
- 8.2.4 Delays in engineering schedule

Please explain in detail any delays beyond the scheduled Milestone Dates stated in <u>Section 5.1</u>, any impact from the delays on the engineering schedule, and Seller's plans to remedy such impact.

8.2.5 Delays in Major Equipment procurement

Please explain in detail any delays beyond the contracted delivery date and/or the projected installation date stated in <u>Section 6.1</u>, any impact from the delays on Major Equipment procurement schedule, and Seller's plans to remedy such impact.

8.2.6 Delays in construction schedule

Please explain in detail any delays beyond the scheduled completion dates stated in <u>Section 7.1</u>, any impact from the delays on the construction schedule, and Seller's plans to remedy such impact.

9.0 Safety and Health Reports

9.1 Please list all accidents from the previous calendar quarter:

9.2 Any work stoppage from the previous calendar quarter:

9.3 Work stoppage impact on construction of the Project:

I, _____, on behalf of and as an authorized representative of, do hereby certify that any and all information contained in the attached Seller's Quarterly Progress Report is true and accurate, and reflects, to the best of my knowledge, the current status of the construction of the Project as of the date specified below.

By:_____

Name:_____

Title:_____

Date:

RPS Project Development Status Report

Project Name Date

| Date of Latest Construction Progress Report from C | Counterparty: | |
|--|---------------------------|--|
| Project Owner/Counterparty: | | |
| Technology: | | |
| Capacity (MW): | Annual Energy (GWh/year): | |
| On-Line Date: | Term/Duration (years): | |
| Construction Start Date: Point of Delivery: | | |
| Location: | | |

Status At-A-Glance

The below to be filled in w/ either: Completed, Acceptable, Unknown, or Concern. See Section B for a description of milestones. When the answer is "Concern" the milestone should be flagged with a notation number where additional detail is provided in Section A.

| Milestones | Status | Initial Completion Date | Projected Completion Date |
|---------------------------------------|--------|----------------------------|------------------------------|
| Fuel/Resource Supply: | | | |
| Financing: | | | |
| Corporate Financing | | | |
| Project Financing | | | |
| Site Control (100%): | | | |
| Permitting: | | | |
| Engineering: | | | |
| Major Equipment Procurement: | | | |
| Construction: | | | |
| Startup Testing and Commissioning: | | | |
| Transmission: | | | |
| Transmission - Detail (see Section C) | | | |
| Dependent Transmission Upgrade(s): | | | |
| Scheduled Completion: | | | |
| Point of Interconnection: | | | |
| Early Interconnection: | | | |
| Gen-Tie Length: | | | |
| Gen-Tie Voltage: | | | |
| ISO Queue Position: | | | |
| Feasibility Study (FS): | | | |
| System Impact Study (SIS): | | | |
| Facilities Study (FAS): | | | |
| Remedial Action Plan: | | | |
| Additional Comments: | | | |
| Date of Preparation: | | | |

Exhibit G

OUTAGE NOTIFICATION FORM

| Doquest Tupo: | | - Previous Notificati | on (if applicable) |
|--|--|--|---------------------------------------|
| Request Type: | | | |
| New Scheduled Maintenance | e Outage 🔍 🔻 | Date Sent: Time Sent: | mm/dd/yyyy hh:mm |
| enerator Name: | | Time Sent. | 101.1000 |
| Location Code: | | | (For times, use 24hr format) |
| Address: | | Today's Date: | mm/dd/yyyy |
| | | Current Time: | hh:mm |
| | | Outage Start Date: | mm/dd/yyyy |
| Contact Name: | | Outage Start Time: | |
| Phone Number: | | | |
| Email: | | Outage End Date: Outage End Time: | mm/dd/yyyy hh:mm |
| Iternate Name: | | | 101.1001 |
| arnoto Numbor: | 5 | Outage Duration: | |
| Emoil | | MW Available Durin | ng Outage: |
| | | | |
| System (Select One) | | MW Unavailable Durir R | ng Outage: MR Unit? Yes/No |
| System (Select One) Boiler Codes 0010-1999 | Generator Codes 4500-4899 | R | MR Unit? Yes/No Safety, Environmental |
| Boiler | | Regulatory, Codes 9504-97 | MR Unit? Yes/No Safety, Environmental |
| Boiler Codes 0010-1999 Balance of Plant | Codes 4500-4899 | R Regulatory, Codes 9504-97. pment Others | MR Unit? Yes/No Safety, Environmental |
| Boiler Codes 0010-1999 Balance of Plant Codes 3110-3999 Steam Turbine | Codes 4500-4899 Codes 4500-4899 Codes 8000-8835 External Codes 9000-9040 | Regulatory, Codes 9504-97. pment Others Codes 9900-99 | MR Unit? Yes/No Safety, Environmental |
| Boiler Codes 0010-1999 Balance of Plant Codes 3110-3999 Steam Turbine Codes 4000-4499 | Codes 4500-4899 Codes 4500-4899 Codes 8000-8835 External Codes 9000-9040 | Regulatory, Codes 9504-97. pment Others Codes 9900-99 | MR Unit? Yes/No Safety, Environmental |
| Boiler Codes 0010-1999 Balance of Plant Codes 3110-3999 Steam Turbine Codes 4000-4499 Cause Code Range | Codes 4500-4899 Codes 4500-4899 Codes 8000-8835 External Codes 9000-9040 Codes 9000-9040 | Regulatory, Codes 9504-97. pment Others Codes 9900-99 | MR Unit? Yes/No Safety, Environmental |
| Boiler Codes 0010-1999 Balance of Plant Codes 3110-3999 Steam Turbine Codes 4000-4499 Cause Code Rang (Select One) | Codes 4500-4899 Codes 4500-4899 Codes 8000-8835 External Codes 9000-9040 Codes 9000-9040 | Regulatory, Codes 9504-97. pment Others Codes 9900-99 | MR Unit? Yes/No Safety, Environmental |
| Boiler Codes 0010-1999 Balance of Plant Codes 3110-3999 Steam Turbine Codes 4000-4499 Cause Code Range (Select One) Cause Code / Con | Codes 4500-4899 Codes 4500-4899 Codes 8000-8835 External Codes 9000-9040 Codes 9000-9040 | Regulatory, Codes 9504-97. pment Others Codes 9900-99 | MR Unit? Yes/No Safety, Environmental |

Exhibit H

PROJECT OPERATING RESTRICTIONS

Operational characteristics of the Project must be equal to or greater than the resource flexibility reflected in the resource Master File, as such term is defined in the CAISO Tariff. Buyer may request that CAISO modify the Master File for the Project to reflect the findings of a CAISO audit of the Project and to ensure that the information provided by Seller is true and accurate. Seller agrees to coordinate with Buyer and any third party Scheduling Coordinator to ensure all information provided to the CAISO regarding the operational and technical constraints in the Master File for the Project are accurate and are actually based on physical characteristics of the resource. The Parties agree to make reasonable modifications to this Exhibit H to modify existing operating restrictions or add additional operating restrictions that may be necessary to address changes in the CAISO Tariff or applicable Law applicable to the Products provided from this Project.

- Nameplate capacity of the Project: _____MW
- Minimum operating capacity: ____MW
- Advance notification required for a Dispatch Notice: ______
- Ramp Rate: _____MW/minute

Appendix 6

2021 RPS Short-Term Model PPA

[Form of PPA for As-Available, Baseload, Peaking or Dispatchable Product for a Project that is already constructed]

[Standard contract terms and conditions that "may not be modified" per CPUC D.04-06-014 and subsequent decisions are shown in red shaded text and standard contract terms and conditions that may be modified per CPUC D.04-06-014 and subsequent decisions are shown in green shaded text.]

POWER PURCHASE AGREEMENT

Between

SAN DIEGO GAS & ELECTRIC COMPANY (as "Buyer")

and

(as "Seller")

POWER PURCHASE AGREEMENT

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COVER SHEET

This Power Purchase Agreement is made as of the following date: [_____]. This Power Purchase Agreement and all exhibits, schedules, appendices, and any written supplements hereto, any designated collateral, credit support or margin agreement or similar arrangement between the Parties as well as all written and signed amendments and modifications thereto shall be a part of, and shall be referred to as, the "Agreement." The Parties to this Agreement (hereinafter individually a "Party" and collectively the "Parties") are the following:

| Name:("S | <u>eller</u> ") Name: San Dieg |
|-------------------------------|--------------------------------|
| | (" <u>Buyer</u> ") |
| All Notices: | All Notices: |
| Street: | Street: 8315 Cen |
| City: Zip: Zip: | City: San Diego, |
| Attn: Contract Administration | Attn: Electric & |
| Phone: | |
| Facsimile: | Phone: (858) 63 |
| Duns: | Facsimile: (858) |
| Federal Tax ID Number: | Duns: 00691145′ |
| | Federal Tax ID N |
| Invoices: | Invoices: |
| | San Diego Ga |
| | 8315 Century |
| | San Diego, C |
| Attn: | Attn: Electric |
| Phone: | Reporting |
| Facsimile: | Phone: (858) |
| | Facsimile: (85 |
| Scheduling: | Scheduling: |
| | San Diego Ga |
| | 8315 Century |
| | San Diego, C |
| Attn: | Attn: Transac |
| Phone: | Phone: (858) |
| Facsimile: | Facsimile: (85 |
| Payments: | Payments: |
| | |

| Attn: | |
|----------------|--|
| Phone: | |
| | |
| Wire Transfer: | |
| BNK: | |
| | |
| ACCT: | |
| | |
| FAX: | |

Credit and Collections:

Attn:

o Gas & Electric Company tury Park Court CA Zip: 92123 Fuel Procurement - Contract ation 6-5536 650-6190 7 Number: 95-1184800 as & Electric Company Park Ct. alifornia 92123-1593 c & Fuel Procurement - Invoicing and 650-6187 58) 650-6190 as & Electric Company Park Ct. alifornia 92123-1593 tion Scheduling Manager 650-6160 58) 650-6191 San Diego Gas & Electric Company PO Box 25110 Santa Ana, CA 92799-5110 Attn: Mail Payments Phone: (619) 696-4521 Facsimile: (619) 696-4899 Wire Transfer: BNK: Union Bank of California for: San Diego Gas & Electric Company ABA: Routing # 122000496 ACCT: #4430000352 Confirmation: SDG&E, Major Markets FAX:(213) 244-8316 **Credit and Collections:** San Diego Gas & Electric Company, Major Markets 555 W. Fifth Street, ML 18A3 Los Angeles, CA 90013-1011

| Phone: | |
|------------|--|
| Facsimile: | |

With additional Notices of an Event of Default or Potential Event of Default to:

| Attn: | | | | |
|-----------|----|--|--|--|
| Phone: | | | | |
| Facsimile | e: | | | |

Attn.: Major Markets, Credit and Collections Manager Fax No.: (213) 244-8316 Phone: (213) 244-4343 With additional Notices of an Event of Default or Potential Event of Default to: San Diego Gas & Electric Company 8330 Century Park Ct. San Diego, California 92123 Attn: General Counsel Phone: (858) 650-6141 Facsimile: (858) 650-6106

GENERAL TERMS AND CONDITIONS

ARTICLE ONE: GENERAL DEFINITIONS

1.1 <u>General</u>. The following terms shall have the following meaning for purposes of this Agreement.

"[AAA][JAMS]" means [the American Arbitration Association] [JAMS, Inc.].

"Affiliate" means, with respect to any person, any other person (other than an individual) that, directly or indirectly, through one or more intermediaries, controls, or is controlled by, or is under common control with, such person. For this purpose, "control" means the direct or indirect ownership of fifty percent (50%) or more of the outstanding capital stock or other equity interests having ordinary voting power.

"Agreement" has the meaning set forth in the preamble to the Cover Sheet.

"Arbitration" has the meaning set forth in Section 12.3.

[For As-Available Product only: "As-Available" means a Product for which, subject to the terms of this Agreement, Seller is excused from selling and delivering the Product to Buyer, and Seller shall not be liable to Buyer for any damages determined pursuant to Section 3.1(h) of the Agreement, in the event that Seller fails to deliver the Product to Buyer for any of the following reasons:

- (a) if the Project is unavailable as a result of a Forced Outage and such Forced
 Outage is not the result of Seller's negligence or willful misconduct;
- (b) Force Majeure;
- (c) by the Buyer's failure to perform;
- (d) by a Planned Outage of the Project;
- (e) a reduction in output as ordered under Dispatch Down Periods; or
- (f) [the unavailability of landfill gas which was not anticipated as of the Execution Date, which is not within the reasonable control of, or the result of negligence of, Seller or the party supplying such landfill gas to the Project, and which by the exercise of reasonable due diligence, Seller is unable to overcome or avoid or causes to be avoided.] OR [insufficient wind power for the Project to generate energy as determined by the best wind speed and direction standards utilized by other wind producers or purchasers in the vicinity of the Project or if wind speeds exceed the Project's technical specifications.] OR [the unavailability of water or the unavailability of sufficient pressure required for operation of the hydroelectric turbine-generator as reasonably determined by Seller within its operating procedures, neither of which was anticipated as of the

Execution Date, which is not within the reasonable control of, or the result of negligence of, Seller or the party supplying such water to the Project, and which by the exercise of due diligence, such Seller or the party supplying the water is unable to overcome or avoid or causes to be avoided.] OR [insufficient solar power for the Project to generate energy as determined by the best solar standards utilized by other solar producers or purchasers in the vicinity of the Project.]

[For Dispatchable Product only: "Availability Adjustment Factor" has the meaning set forth in Section 4.1(b).*]*

"Availability Incentive Payments" shall mean Availability Incentive Payments as defined in FERC filing ER09-1064 or such other similar term as modified and approved by FERC thereafter to be incorporated in the CAISO Tariff or otherwise applicable to CAISO.

[For Dispatchable Product only: "Availability Notice" has the meaning set forth in Section 3.3([f/g]).]

"Availability Standards" shall mean Availability Standards as defined in FERC filing ER09-1064 or such other similar term as modified and approved by FERC thereafter to be incorporated in the CAISO Tariff or otherwise applicable to CAISO.

"Bankrupt" means with respect to any entity, such entity that (a) files a petition or otherwise commences, authorizes or acquiesces in the commencement of a proceeding or cause of action under any bankruptcy, insolvency, reorganization or similar Law, (b) has any such petition filed or commenced against it which remains unstayed or undismissed for a period of sixty (60) days, (c) makes an assignment or any general arrangement for the benefit of creditors, (d) otherwise becomes bankrupt or insolvent (however evidenced), (e) has a liquidator, administrator, receiver, trustee, conservator or similar official appointed with respect to it or any substantial portion of its property or assets, or (f) is generally unable to pay its debts as they fall due.

[For Baseload Product only: "Baseload" means a Unit Firm Product for which the delivery levels are uniform twenty-four (24) hours per day, seven (7) days per week.]

"Bundled Green Energy" means Energy, Green Attributes, and any other Product, the quantity of which is measured based on the amount of Delivered Energy, in each case, that are produced by or associated with the Project. The quantity of Bundled Green Energy shall be equal to the lesser of the quantity of (i) *[When Seller is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program:* Contract Energy] *[When SDG&E is SC for the Project and Project is in the VER Forecasting Program:* Delivered Energy] (ii) Green Attributes that are delivered to Buyer, and (iii) any other Product that is delivered to Buyer, the quantity of which is measured based on the amount of Delivered Energy. For example, if the quantity of Renewable Energy Credits that are delivered to Buyer is less than the quantity of the *[When SDG&E is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program:* Contract Energy] *[When SDG&E is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program:* Contract Energy] *[When SDG&E is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program:* Contract Energy] *[When SDG&E is SC for the Project and Project is in the VER Forecasting Program:* Delivered Energy], then the quantity of Bundled Green Energy shall be equal to the quantity of Renewable Energy], then the quantity of Bundled Green Energy shall be equal to the quantity of Renewable Energy].

"Business Day" means any day except a Saturday, Sunday, or a Federal Reserve Bank holiday and shall be between the hours of 8:00 a.m. and 5:00 p.m. local time for the relevant Party's principal place of business where the relevant Party, in each instance unless otherwise specified, shall be the Party from whom the Notice, payment or delivery is being sent and by whom the Notice or payment or delivery is to be received.

"Buyer" has the meaning set forth on the Cover Sheet.

"CAISO" means the California Independent System Operator Corporation or any successor entity performing similar functions.

[When SDG&E is the SC for the Project: "CAISO Charges Invoice" has the meaning set forth in Section 3.3([a/b])(iv).*]*

"CAISO Grid" means the system of transmission lines and associated facilities of the Participating Transmission Owners that have been placed under the CAISO's operational control.

"CAISO Tariff" means the CAISO Operating Agreement and Tariff, including the rules, protocols, procedures and standards attached thereto, as the same may be amended or modified from time-to-time and approved by FERC.

"California Renewables Portfolio Standard" means the Renewables Portfolio Standard of California under California Senate Bills 1078 and 107, as codified in California Public Utilities Code Sections 387, 390.1, and Article 16 (commencing with Section 399.11) of Chapter 2.3 of Part 1 of Division 1, as such provisions are amended or supplemented from time to time.

"Capacity Attributes" means any current or future defined characteristic, certificate, tag, credit, or ancillary service attribute, whether general in nature or specific as to the location or any other attribute of the Project intended to value any aspect of the capacity of the Project to produce Energy or ancillary services, including but not limited to any accounting construct so that the Contract Capacity of the Project may be counted toward a Resource Adequacy obligation or similar measure in respect to the capacity of the Project to generate Energy by the CPUC, the CAISO, the FERC, or any other entity vested with the authority under federal or state Law, to require Buyer to procure, or to procure at Buyer's expense, Resource Adequacy or other similar products.

[For Dispatchable Product only: "Capacity Price" has the meaning set forth in Section 4.1(a).]

[For Baseload, Peaking, or Dispatchable Product only: "Capacity Test" shall be the complete capacity testing procedure for the Project that is reasonably acceptable to Buyer that Seller shall develop no later than thirty (30) days prior to the initial capacity testing of the Project prior to the Initial Delivery Date. The capacity testing procedure shall describe in detail the testing standard(s) to be used for the technology of the Project, the conditions under which testing shall take place, the average summer ambient conditions to which the results will be corrected, and the testing procedures. The same capacity testing procedure shall be applied to all subsequent Capacity Tests.]

"CEC" means the California Energy Commission or its successor agency.

"CEC Certification and Verification" means that the CEC has certified (or, with respect to periods before the Project has been constructed, that the CEC has pre-certified) that the Project is an ERR for purposes of the California Renewables Portfolio Standard and that all Energy produced by the Project qualifies as generation from an ERR for purposes of the Agreement.

"Claims" has the meaning set forth in Section 11.2(a).

"Conditions Precedent" has the meaning set forth in Section 2.3.

"Contract Capacity" has the meaning set forth in Section 3.1(f).

[When Seller is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program: "Contract Energy" means the lower of Delivered Energy or Scheduled Energy for any given period in each case net of all Electrical Losses.]

"Contract Quantity" has the meaning set forth in Section 3.1(e).

"Contract Year" means a period of twelve (12) consecutive months (except in the case of the first Contract Year which may be longer) with the first Contract Year commencing on the Initial Delivery Date and each subsequent Contract Year commencing on the anniversary of the first day of the month following the Initial Delivery Date.

"Costs" means, with respect to the Non-Defaulting Party, brokerage fees, commissions and other similar third party transaction costs and expenses reasonably incurred by such Party either in terminating any arrangement pursuant to which it has hedged its obligations or entering into new arrangements which replace a Terminated Transaction; and all reasonable attorneys' fees and expenses incurred by the Non-Defaulting Party in connection with such Terminated Transaction.

"Cover Sheet" means the document that precedes Article 1: General Definitions to this Agreement.

"CP Satisfaction Date" shall mean the date on which all of the Conditions Precedent have been satisfied (or waived in writing by the Party described in Section 2.4).

"CPUC" or "Commission or successor entity" means the California Public Utilities Commission, or successor entity.

"CPUC Approval" means a final and non-appealable order of the CPUC, without conditions or modifications unacceptable to the Parties, or either of them, which contains the following terms:

(a) approves this Agreement in its entirety, including payments to be made by the Buyer, subject to CPUC review of the Buyer's administration of the Agreement; and

(b) finds that any procurement pursuant to this Agreement is procurement from an eligible renewable energy resource for purposes of determining Buyer's compliance with any obligation that it may have to procure eligible renewable energy resources pursuant to the California Renewables Portfolio Standard (Public Utilities Code Section 399.11 *et seq.*), Decision 03-06-071, or other applicable Law.

CPUC Approval will be deemed to have occurred on the date that a CPUC decision containing such findings becomes final and non-appealable. [For Agreements for the purchase and sale of TRECS only, use STC REC-3 instead of the foregoing]

[For Agreements with Delivery Terms greater than two years: "CPUC Approval Date" shall mean the date on which the Conditions Precedent set forth in Section 2.3(a) have been satisfied (or waived in writing by the beneficiary Party described in Section 2.4).]

[For Agreements with Delivery Terms greater than two years: "CPUC Approval Security" shall mean the Performance Assurance that Seller is required to maintain during the period and as otherwise specified in Section 8.4(a)(i) to secure performance of its obligations hereunder.]

"Credit Rating" means, with respect to any entity, the rating then assigned to such entity's unsecured, senior long-term debt obligations (not supported by third party credit enhancements) by S&P or Moody's.

"Day-Ahead Forecast" has the meaning set forth in Section 3.3([d/e]).

[For As-Available and Baseload Products only: "Deemed Bundled Green Energy" means the amount of Bundled Green Energy that Seller could reasonably have delivered to Buyer but was instructed not to deliver to Buyer by reason of Economic Dispatch Down. The quantity of Deemed Bundled Green Energy shall be equal to [For As-Available Products: (a) the Deemed Delivery Forecast of Energy corresponding to the applicable Economic Dispatch Down periods, whether or not Seller is participating in the VER Forecasting Program during such events, less the amount of Energy scheduled under Economic Dispatch Down as specified in the Dispatch Notice during such periods, and less any amount of Energy that was not delivered associated with any concurrent Planned Outage, Forced Outage, Force Majeure, System Dispatch Down, and/or CAISO fault but only to the extent the Deemed Delivery Forecast does not already reflect the foregoing provided that, if the applicable amount calculated pursuant to this clause (a) is negative, the Deemed Bundled Green Energy shall be zero (0), or (b) if there is no such Deemed Delivery Forecast available during the applicable Economic Dispatch Down periods or if the Bundled Green Energy amount has historically not been determined based on clause (i) of the definition of Bundled Green Energy, the amount of Bundled Green Energy that Seller could reasonably have delivered to Buyer but was instructed not to deliver to Buyer as a result of Economic Dispatch Down as determined by Buyer in a commercially reasonable manner, which amount shall not include any amount of Energy that was not delivered associated with any concurrent Planned Outage, Forced Outage, Force Majeure, System Dispatch Down, and/or CAISO fault.] [For Baseload Products: the amount of Bundled Green Energy that Seller could reasonably have delivered to Buyer but was instructed not to deliver to Buyer during the applicable Economic Dispatch Down periods, as determined by Buyer in a commercially reasonable manner, which amount shall not include any amount of Energy that was not delivered associated with any concurrent Planned Outage, Forced Outage, Force Majeure, System Dispatch Down, and/or CAISO fault.]]

[For As-Available only: "Deemed Delivery Forecast" means the forecast of the Energy to be produced by the Project prepared by the CAISO or its agent in accordance with the VER Forecasting Program and communicated to the Scheduling Coordinator, which forecast is the last such forecast prepared by the CAISO that does not reflect curtailed production as a result of Economic Dispatch Down periods. As of the Execution Date, such Deemed Delivery Forecast is the CAISO forecast generated through its Resource Specific VER Forecast Usage Report].

[Dispatchable Product only: "Default Availability Factor" means, for any period, the amount determined according to the following formula:

Default Availability Factor = (PH - (EDH - EEDH)) / PH

Where:

PH is the number of period hours;

EDH is the number of equivalent derate hours calculated as the sum, for each derate, of the product of the number of hours of full or partial derate hours times the size of the reduction from the initial Contract Capacity (as of the Initial Delivery Date) divided by the initial Contract Capacity. For the purposes of this calculation, a derate includes all outages for any reason, including without limitation, Forced Outages, Force Majeure events, Dispatch Down Periods, Planned Outages, Buyer's failure to perform, and other times when any portion of the Contract Capacity is not available and when the Delivered Energy of the Project is less than the amount of Energy dispatched by Buyer; and

EEDH is the number of equivalent excused derate hours solely due to either Force Majeure events, Dispatch Down Periods or Buyer's failure to perform (and for no other reason), calculated as the sum, for each excused derate, of the product of the number of hours of full or partial derate hours times the size of the reduction from the initial Contract Capacity, divided by the initial Contract Capacity.]

"Defaulting Party" means the Party that is subject to an Event of Default.

"Default Rate" means for any date, the lesser of (a) the per annum rate of interest equal to the prime lending rate as may from time to time be published in *The Wall Street Journal* under "Money Rates" on such day (or if not published on such day on the most recent preceding day on which published), plus two percent (2%) and (b) the maximum rate permitted by applicable Law.

"Delivered Energy" means all Energy produced from the Project and delivered to Buyer at the Delivery Point as measured in MWh at the CAISO revenue meter of the Project based on a power factor of precisely one (1) and net of all Electrical Losses.

"Delivery Point" means the point at which Buyer receives Seller's Product, as set forth in Section 3.1(d).

"Delivery Term" has the meaning set forth in Section 3.1(c).

"Delivery Term Security" shall mean the Performance Assurance that Seller is required to maintain during the period and as otherwise specified in Section 8.4(a)[(ii)/(iii)] to secure performance of its obligations hereunder.

"Disclosing Party" has the meaning set forth in Section 13.1(a).

"Disclosure Order" has the meaning set forth in Section 13.1(a).

"Dispatch Down Period" means the period of curtailment of delivery of Product from the Project resulting from System Dispatch Down *[For all Products other than Dispatchable Product:* or Economic Dispatch Down*]*.

"Dispatch Notice" means the operating instruction, and any subsequent updates given either by Buyer to Seller or by the CAISO to Seller, directing Seller to operate the Project at a specified megawatt output for the period of time set forth in such order.

[For Dispatchable Product only: "Dispatchable" means a Unit Firm Product for which Seller makes available capacity for Buyer to Schedule and dispatch up or down at Buyer's option in accordance with Section 3.3([g/h]).]

"Distribution Upgrades" has the meaning set forth in the CAISO Tariff.

"DUNS" means the Data Universal Numbering System, which is a unique nine character identification number provided by Dun and Bradstreet.

"Early Termination Date" has the meaning set forth in Section 5.2.

[For all Products other than Dispatchable Product: "Economic Dispatch Down" means curtailment of delivery of Product from the Project that is the result of economic curtailment where Buyer (as the Scheduling Coordinator) or a third party Scheduling Coordinator (in accordance with Buyer's directions) either submits a self-schedule with a binding Product quantity or an economic bid in the applicable CAISO market or fails to submit any such schedule or bid, in either case, that when implemented by the CAISO results in an otherwise available Product quantity not being scheduled or awarded in such CAISO market and such curtailment is not concurrently the result of a Planned Outage, Forced Outage, Force Majeure, System Dispatch Down, and/or CAISO fault.

"Electrical Losses" means all electrical losses associated with the transmission of Product to the Delivery Point, including if applicable, but not limited to, any transmission or transformation losses between the CAISO revenue meter and the Delivery Point.

"Eligible Renewable Energy Resource" or "ERR" has the meaning set forth in California Public Utilities Code Section 399.11, *et seq.*, as amended or supplemented from time to time.

"Energy" means electric energy measured in MWh and net of Station Service (unless otherwise specified).

"Energy Price" has the meaning set forth in Section 4.[1/2](a).

"Equitable Defenses" means any bankruptcy, insolvency, reorganization or other Laws affecting creditors' rights generally and, with regard to equitable remedies, the discretion of the court before which proceedings may be pending to obtain same.

[For Dispatchable Product only: "Equivalent Availability Factor" or "EAF" has the meaning set forth in Section 4.1(b).]

"Event of Default" has the meaning set forth in Section 5.1.

"Execution Date" means the date hereof as set forth in the preamble of the Cover Sheet.

"Executive(s)" has the meaning set forth in Section 12.2(a).

"FERC" means the Federal Energy Regulatory Commission or any successor government agency.

"Force Majeure" means any event or circumstance which wholly or partly prevents or delays the performance of any material obligation arising under this Agreement but only to the extent (1) such event is not within the reasonable control, directly or indirectly, of the Party seeking to have its performance obligation(s) excused thereby, (2) the Party seeking to have its performance obligation(s) excused thereby has taken all reasonable precautions and measures in order to prevent or avoid such event or mitigate the effect of such event on such Party's ability to perform its obligations under this Agreement and which by the exercise of due diligence such Party could not reasonably have been expected to avoid and which by the exercise of due diligence it has been unable to overcome, and (3) such event is not the direct or indirect result of the fault or negligence of the Party seeking to have its performance obligations excused thereby.

(a) Subject to the foregoing, events that could qualify as Force Majeure include, but are not limited to the following:

(i) acts of God, flooding, lightning, landslide, earthquake, fire, drought, explosion, epidemic, quarantine, storm, hurricane, tornado, volcano, other natural disaster or unusual or extreme adverse weather-related events;

(ii) war (declared or undeclared), riot or similar civil disturbance, acts of the public enemy (including acts of terrorism), sabotage, blockade, insurrection, revolution, expropriation or confiscation; or

(iii) except as set forth in subpart (b)(vii) below, strikes, work stoppage or other labor disputes (in which case the affected Party shall have no obligation to settle the strike or labor dispute on terms it deems unreasonable).

(b) Force Majeure shall not be based on:

(i) Buyer's inability economically to use or resell the Product purchased hereunder;

(ii) Seller's ability to sell the Product at a price greater than the price set forth in this Agreement;

(iii) Seller's inability to obtain Governmental Approvals or other approvals of any type for the construction, operation, or maintenance of the Project;

(iv) a lack of wind, sun or other fuel source of an inherently intermittent

nature;

(v) Seller's inability to obtain sufficient labor, equipment, materials, or other resources to build or operate the Project, except to the extent Seller's inability to obtain sufficient labor, equipment, materials, or other resources is caused by an event of Force Majeure of the specific type described in any of subsections (a)(i) through (a)(iii) above;

(vi) Seller's failure to obtain financing or other funds, including funds authorized by a state or the federal government or agencies thereof to supplement the payments made by Buyer pursuant to this Agreement;

(vii) a strike, work stoppage or labor dispute limited only to any one or more of Seller, Seller's Affiliates, the EPC Contractor or subcontractors thereof or any other third party employed by Seller to work on the Project; or

(viii) any equipment failure except if such equipment failure is caused solely by an event of Force Majeure of the specific type described in any of subsections (a)(i) though (a)(iii) above.

"Forced Outage" means any unplanned reduction or suspension of production of Product from the Project or unavailability of the Project in whole or in part that is not a Planned Outage or a willful withholding of Product when the Project is otherwise capable of delivering Product under Good Industry Practices.

"GAAP" has the meaning set forth in Section 13.4.

"Gains" means with respect to any Party, an amount equal to the present value of the economic benefit to it, if any (exclusive of Costs), resulting from the termination of this Agreement for the remaining Delivery Term, determined in a commercially reasonable manner, subject to Section 5.2 hereof. Factors used in determining economic benefit may include, without limitation, reference to information either available to it internally or supplied by one or more third parties, including, without limitation, quotations (either firm or indicative) of relevant rates, prices, yields, yield curves, volatilities, spreads or other relevant market data in the relevant markets market referent prices for renewable power set by the CPUC, comparable transactions, forward price curves based on economic analysis of the relevant markets, settlement prices for comparable transactions at liquid trading hubs (e.g., NYMEX), all of which should be calculated for the remaining term of this Agreement and include the value, if any, of Capacity Attributes, and Green Attributes.

"Good Industry Practice" means those practices, methods and acts that would be implemented and followed by prudent operators of electric transmission facilities (with respect to Buyer) or prudent operators of electric generation facilities similar to the Project (with respect to Seller) in the Western United States during the relevant time period, which practices, methods and acts, in the exercise of prudent and responsible professional judgment in the light of the facts known at the time the decision was made, could reasonably have been expected to accomplish the desired result consistent with good business practices, reliability and safety, and shall include, at a minimum, those professionally responsible practices, methods and acts described in the preceding sentence that comply with manufacturers' warranties, restrictions in this Agreement, and the requirements of Governmental Authorities, WECC standards, the CAISO and applicable Law. Good Industry Practice is not intended to be the optimum practice, method or act to the exclusion of all others, but rather is intended to be any of the practices, methods and/or actions generally accepted in the region.

"Governmental Approval" means all authorizations, consents, approvals, waivers, exceptions, variances, filings, permits, orders, licenses, exemptions and declarations of or with any governmental entity and, with respect to the Seller, shall include those siting and operating permits and licenses, and any of the foregoing under any applicable environmental Law, that are required for the construction, use, and operation of the Project.

"Governmental Authority" means any federal, state, local or municipal government, governmental department, commission, board, bureau, agency, or instrumentality, or any judicial, regulatory or administrative body, having jurisdiction as to the matter in question.

"Governmental Charges" has the meaning set forth in Section 9.2.

"Green Attributes" means, subject to the limitations in the final sentence of this definition, any and all credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, attributable to the generation from the Project, and its avoided emission of pollutants. Green Attributes include but are not limited to Renewable Energy Credits, as well as: (1) any avoided emission of pollutants to the air, soil or water such as sulfur oxides (SOx), nitrogen oxides (NOx), carbon monoxide (CO) and other pollutants; (2) any avoided emissions of carbon dioxide (CO2), methane (CH4), nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride and other greenhouse gases (GHGs) that have been determined by the United Nations Intergovernmental Panel on Climate Change, or otherwise by Law, to contribute to the actual or potential threat of altering the Earth's climate by trapping heat in the atmosphere;¹ and (3) the reporting rights to these avoided emissions, such as Green Tag Reporting Rights. Green Tag Reporting Rights are the right of a Green Tag Purchaser to report the ownership of accumulated Green Tags in compliance with federal or state Law, if applicable, and to a federal or state agency or any other party at the Green Tag Purchaser's discretion, and include without limitation those Green Tag Reporting Rights accruing under Section 1605(b) of The Energy Policy Act of 1992 and any present or future federal, state, or local Law, regulation or bill, and international or foreign emissions trading program. Green Tags are accumulated on a MWh basis and one Green Tag represents the Green Attributes associated with one (1) MWh of Energy. Green Attributes do not

¹ Avoided emissions may or may not have any value for GHG compliance purposes. Although avoided emissions are included in the list of Green Attributes, this inclusion does not create any right to use those avoided emissions to comply with any GHG regulatory program.

include (i) any energy, capacity, reliability or other power attributes from the Project, (ii) production tax credits associated with the construction or operation of the Project and other financial incentives in the form of credits, reductions, or allowances associated with the Project that are applicable to a state or federal income taxation obligation, (iii) fuel-related subsidies or "tipping fees" that may be paid to Seller to accept certain fuels, or local subsidies received by the generator for the destruction of particular preexisting pollutants or the promotion of local environmental benefits, or (iv) emission reduction credits encumbered or used by the Project for compliance with local, state, or federal operating and/or air quality permits. If the Project is a biomass facility and Seller receives any tradable Green Attributes based on the greenhouse gas reduction benefits or other emission offsets attributed to its fuel usage, it shall provide Buyer with sufficient Green Attributes to ensure that there are zero net emissions associated with the production of electricity from the Project and for all electric generation using biomethane as fuel, Seller shall transfer to Buyer sufficient Green Attributes of biomethane production and capture to ensure that there are zero net emissions associated with the Project using the biomethane.

"Guaranteed Energy Production" has the meaning set forth in Section 3.1(e).

"Guarantor" means, with respect to Seller, any person that (a) does not already have any material credit exposure to Buyer under any other agreements, guarantees, or other arrangements at the time its Guaranty is issued, (b) is an Affiliate of Seller, or other third party reasonably acceptable to Buyer, (c) has a Credit Rating of [____] or better from S&P or a Credit Rating of [___] or better from Moody's, (d) has a tangible net worth of at least [_____], (e) is incorporated or organized in a jurisdiction of the United States and is in good standing in such jurisdiction, and (f) executes and delivers a Guaranty for the benefit of Buyer substantially in the form attached hereto as Exhibit C. *[SDG&E will consider accepting a Guaranty based on the Project, the amount of Performance Assurance, and the identity of the Seller and Guarantor]*

"Guaranty" means a guaranty from a Guarantor provided for the benefit of Buyer substantially in the form attached hereto as Exhibit C. [SDG&E will consider accepting a Guaranty based on the Project, the amount of Performance Assurance, and the identity of the Seller and Guarantor]

"Imbalance Energy" means the amount of Energy, in any given settlement interval, by which the amount of Delivered Energy deviates from the amount of Scheduled Energy.

"Initial Delivery Date" means [_____, 20_].

"Initial Negotiation End Date" has the meaning set forth in Section 12.2(a).

"Interest Amount" means, with respect to an Interest Period, the amount of interest derived from the product of (a) the sum of (i) the principal amount of Performance Assurance in the form of cash held by Buyer during that Interest Period, and (ii) the sum of all accrued and unpaid Interest Amounts accumulated prior to such Interest Period; multiplied by (b) the Interest Rate in effect on the first day of the Interest Period; multiplied by (c) the number of days in that Interest Period; divided by (d) 360. "Interest Payment Date" means the date on which cash held as Performance Assurance is returned pursuant to the terms of this Agreement.

"Interest Period" means the monthly period beginning on the first day of each month and ending on the last day of each month or the shorter period during which Performance Assurance in the form of cash is held by Buyer.

"Interest Rate" means for any date the rate per annum equal to the Commercial Paper (nonfinancial, 3 months) rate as published the prior month in the Federal Reserve Statistical Release, H.15. Should publication of the interest rate on Commercial Paper (non-financial, 3 months) be discontinued, then the interest rate on commercial paper, which most closely approximates the discontinued rate, published the prior month in the Federal Reserve Statistical Release, H.15, or its successor publication.

"Law" means any statute, law, treaty, rule, regulation, ordinance, code, Governmental Approval, enactment, injunction, order, writ, decision, authorization, judgment, decree or other legal or regulatory determination or restriction by a court or Governmental Authority of competent jurisdiction, including any of the foregoing that are enacted, amended, or issued after the Execution Date, and which become effective prior to the end of the Delivery Term; or any binding interpretation of the foregoing by a Governmental Authority.

"Letter(s) of Credit" means one or more irrevocable, standby letters of credit issued by a U.S. commercial bank or a U.S. branch of a foreign bank with with such bank having a Credit Rating of at least [A-] with an outlook designation of "stable" from S&P or [A3] with an outlook designation of "stable" from Moody's, in substantially the form as contained in Exhibit B to this Agreement.

"Locational Marginal Price" has the meaning set forth in the CAISO Tariff.

"Losses" means with respect to any Party, an amount equal to the present value of the economic loss to it, if any (exclusive of Costs), resulting from a Terminated Transaction for the remaining term of this Agreement, determined in a commercially reasonable manner. Factors used in determining the loss of economic benefit may include, without limitation, reference to information either available to it internally or supplied by one or more third parties including without limitation, quotations (either firm or indicative) of relevant rates, prices, yields, yield curves, volatilities, spreads or other relevant market data in the relevant markets, market referent prices for renewable power set by the CPUC, comparable transactions, forward price curves based on economic analysis of the relevant markets, settlement prices for comparable transactions at liquid trading hubs (e.g. NYMEX), all of which should be calculated for the remaining term of this Agreement and include the value, if any, of Capacity Attributes, and Green Attributes.

"Manager" has the meaning set forth in Section 12.2(a).

[For Dispatchable Product only: "Monthly Capacity Payment" has the meaning set forth in Section 4.1(b).]

"Monthly Energy Payment" has the meaning set forth in Section 4.[1/2]([b/c]).

[For Dispatchable Product only: "Monthly Shaping Factor" has the meaning set forth in Section 4.1(b).]

"Moody's" means Moody's Investor Services, Inc., or its successor.

"MWh" means megawatt-hour.

"Negative Imbalance Energy" has the meaning set forth in Section 4.[2/3].

"NERC" means the North American Electric Reliability Corporation or a successor organization that is responsible for establishing reliability criteria and protocols.

"NERC Holiday" means any of the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Three of these days, Memorial Day, Labor Day, and Thanksgiving Day, occur on the same day each year. Memorial Day is the last Monday in May; Labor Day is the first Monday in September; and Thanksgiving Day is the fourth (4th) Thursday in November. New Year's Day, Independence Day, and Christmas Day occur on the same date each year, but in the event any of these holidays occur on a Sunday, the "NERC Holiday" is celebrated on the Monday immediately following that Sunday; and if any of these holidays occur on a Saturday, the "NERC Holiday" remains on that Saturday.

"Non-Availability Charges" shall mean Non-Availability Charges as defined in FERC filing ER09-1064 or such other similar term as modified and approved by FERC thereafter to be incorporated in the CAISO Tariff or otherwise applicable to CAISO.

"Non-Defaulting Party" has the meaning set forth in Section 5.2.

"Notice" shall, unless otherwise specified in the Agreement, mean written communications by a Party to be delivered by hand delivery, United States mail, overnight courier service, facsimile or electronic messaging (e-mail).

"Outage Notification Form" means the completed document from Seller notifying Buyer or the CAISO of an outage of the Project substantially in the form attached hereto as Exhibit D. Buyer reserves the right to reasonably revise or change the form upon Notice to Seller.

[For intermittent As-Available Product: "Participating Intermittent Resource" shall have the meaning set forth in the CAISO Tariff.]

"Participating Transmission Owner" or "Participating TO" means an entity that (a) owns, operates and maintains transmission lines and associated facilities and/or has entitlements to use certain transmission lines and associated facilities that are interconnected to the Delivery Point and (b) has transferred to the CAISO operational control of such facilities and/or entitlements to be made part of the CAISO Grid. As of the Execution Date, the Participating Transmission Owner is *[San Diego Gas & Electric Company].*

"Party" or "Parties" means the Buyer or Seller individually, or to both collectively.

[For Peaking Product only: "Peaking" means a Unit-Firm Product for which Energy must be delivered during hours ending 1200-1900 (11:00 am to 7:00 pm) on Monday-Friday, excluding NERC Holidays, for the months July through October and during hours ending 1400-2100 (1:00 pm to 9:00 pm) on Monday-Friday, excluding NERC Holidays, for the months November and December.] *[Note: Buyer will consider other firm products such as 6x16:* "6x16 Block" means a Unit-Firm Product for which Energy must be delivered during hours ending 0700-2200 (6:00 am to 10:00 pm) on Monday-Saturday throughout the Delivery Term.]

"Performance Assurance" means collateral provided by Seller to Buyer to secure Seller's obligations hereunder and includes *[For Agreements with Delivery Terms greater than two years:* CPUC Approval Security,] Pre-Delivery Term Security, and Delivery Term Security.

[For As-Available, Baseload, Peaking Product: "Performance Measurement Period" has the meaning set forth in Section 3.1(e).]

"Planned Outage" means any planned reduction or suspension of the electrical output from the Project or unavailability of the Project in whole or in part as a result of the inspection, maintenance, or repair of equipment that is scheduled in accordance with Section 3.7(a).

"PNode" has the meaning set forth in the CAISO Tariff.

"Positive Imbalance Energy" has the meaning set forth in Section 4.[2/3].

"Pre-Delivery Term Security" shall mean the Performance Assurance that Seller is required to maintain during the period and as otherwise specified in Section 8.4(a)[(i)/(ii)] to secure performance of its obligations hereunder.

"Product" has the meaning set forth in Section 3.1(a).

[For Projects receiving PTCs: "Production Tax Credit" or "PTC" means the tax credit for electricity produced from certain renewable generation resources described in Section 45 of the Internal Revenue Code of 1986, as it may be amended from time to time.*J*

"Project" means all of the *[insert technology]* electric generating units, the Site at which the generating facility is located, the utility interconnection facilities up to the point of change in ownership to the applicable utility's facilities, and the other assets, tangible and intangible, that compose the generation facility as more particularly described on Exhibit A.

"Recording" has the meaning set forth in Section 13.6.

"Reductions" has the meaning set forth in Section 3.2(c).

"Referral Date" has the meaning set forth in Section 12.2(a).

"Renewable Energy Credit" has the meaning set forth in California Public Utilities Code Section 399.12(h) and CPUC Decision 08-08-028, as each may be amended from time to time or as further defined or supplemented by Law.

"Replacement Price" means the price (in dollars per megawatt hour) at which Buyer, acting in a commercially reasonable manner, purchases for delivery at the Delivery Point (or any other reasonably equivalent delivery point for Buyer) a replacement for any Product (including its associated Green Attributes) that was not Scheduled and delivered by Seller, plus (a) costs (calculated in dollars per megawatt hour) reasonably incurred by Buyer in purchasing such replacement Product and (b) additional transmission charges (calculated in dollars per megawatt hour), if any, reasonably incurred by Buyer for such replacement Product, or absent a purchase, the market price at the Delivery Point (or any other reasonably equivalent delivery point for Buyer) for such replacement Product for the hours impacted by such failure to Schedule or deliver such Product as determined by Buyer in a commercially reasonable manner. The Replacement Price also shall include all CAISO and other charges and penalties calculated in dollars per megawatt hour with respect to the deviation from the Scheduled supply resulting from Seller's failure to Schedule or deliver; provided, however, in no event shall such price include any ratcheted demand or similar charges, nor shall Buyer be required to utilize or change its utilization of its owned or controlled assets or market positions to minimize Seller's liability. For the purposes of this definition, Buyer shall be considered to have purchased replacement Product to the extent Buyer shall have entered into one or more arrangements in a commercially reasonable manner whereby Buyer repurchases its obligation to sell and deliver the Product to another party. If for any reason a Replacement Price is unavailable when Seller fails to deliver or Schedule Product, then the Replacement Price for the hours when a Replacement Price is unavailable shall be the last available Replacement Price together with any charges and penalties allocated to Buyer during such time.

"Resource Adequacy" means the procurement obligation of load serving entities, including Buyer, as such obligations are described in CPUC Decisions 04-01-050, 04-10-035, 05-10-042, 06-04-040, 06-06-064, 06-07-031, 07-06-029, 08-06-031, 09-06-028, 10-06-036, 11-06-022, 12-06-025, 13-06-024, and subsequent CPUC decisions addressing Resource Adequacy issues, as those obligations may be altered from time to time in the CPUC Resource Adequacy Rulemakings (R.) 04-04-003 and (R.) 05-12-013 or by any successor proceeding, and all other Resource Adequacy obligations established by any other entity, including the CAISO.

"Sales Price" means the price (in dollars per megawatt hour) at which Seller, acting in a commercially reasonable manner, resells any Product not Scheduled and received by Buyer, deducting from such proceeds any (a) costs (calculated in dollars per megawatt hour) reasonably incurred by Seller in reselling such Product including all costs charged by CAISO to Schedule and deliver the Product into the CAISO System, and (b) additional transmission charges (calculated in dollars per megawatt hour), if any, reasonably incurred by Seller in Scheduling and delivering such Product to the third party purchasers, or absent a sale despite commercially reasonable efforts to resell the Product, zero. The Sales Price shall also be reduced by all CAISO and other costs, charges and penalties with respect to the deviation from the Scheduled supply, in each case, resulting from Buyer's failure to take Product and calculated in dollars per megawatt hour; provided, however, in no event shall such price include any ratcheted demand or similar charges, nor shall Seller be required to utilize or change its utilization of its owned or controlled assets, including contractual assets, or market positions to minimize Buyer's liability. The Sales Price may be less than zero.

"S&P" means the Standard & Poor's Rating Group (a division of McGraw-Hill, Inc.) or its successor.

"Schedule" means the actions of Seller, Buyer and/or their designated representatives, or Scheduling Coordinators, including each Party's Transmission Providers, if applicable, of notifying, requesting and confirming to each other and the CAISO the quantity and type of Product to be delivered at any given time at a specified Delivery Point.

"Scheduling Coordinator" or "SC" means an entity certified by the CAISO as qualifying as a Scheduling Coordinator pursuant to the CAISO Tariff, for the purposes of undertaking the functions specified in "Responsibilities of a Scheduling Coordinator," of the CAISO Tariff, as amended from time-to-time.

"Scheduled Energy" means the Energy that clears under the applicable CAISO market based on the final Schedule developed in accordance with this Agreement, the operating procedures developed by the Parties pursuant to Section 3.9, and the applicable CAISO Tariff, protocols and Scheduling practices.

"SEC" means the U.S. Securities and Exchange Commission.

"Seller" shall have the meaning set forth on the Cover Sheet.

"Settlement Amount" means, with respect to the Non-Defaulting Party, the Losses or Gains, and Costs, expressed in U.S. Dollars, which such Party incurs as a result of the liquidation of a Terminated Transaction pursuant to Sections 5.2 and 5.3.

"Site" shall mean the location of the Project as described in Exhibit A.

"Station Service" means the electric energy produced by the Project that is used within the Project to power the lights, motors, control systems and other auxiliary electrical loads that are necessary to support the operation of the Project.

"System Dispatch Down" means curtailment of delivery of Product from the Project resulting from (a) curtailment ordered by the CAISO (whether directly or through the Scheduling Coordinator or the Participating Transmission Owner), for any reason, including, but not limited to, an Exceptional Dispatch (as defined in the CAISO Tariff), any system emergency as defined in the CAISO Tariff ("System Emergency"), any warning of an anticipated System Emergency, or any warning of an imminent condition or situation which could jeopardize the CAISO's or Participating Transmission Owner's electric system integrity or the integrity of other systems to which the CAISO or Participating Transmission Owner is connected, any warning, forecast, or anticipated overgeneration conditions, including a request from CAISO to manage over-generation conditions; (b) curtailment ordered by the Participating Transmission Owner or distribution operator (if interconnected to distribution or sub-transmission system) for reasons including, but not limited to, (i) any situation that affects normal function of the electric system including, but not limited to, any abnormal condition that requires action to prevent circumstances such as equipment damage, loss of load, or abnormal voltage conditions, (ii) any warning, forecast or anticipation of conditions or situations that jeopardize the Participating Transmission Owner's electric system integrity or the integrity of other systems to which the Participating Transmission Owner is connected; (c) curtailment ordered by the Participating Transmission Owner or distribution operator (if interconnected to distribution or sub-transmission system) as a result of scheduled or unscheduled maintenance or construction on the Participating Transmission Owner's

transmission facilities or distribution operator's facilities (if interconnected to distribution or subtransmission system) that instructs the Seller not to deliver, or prevents the receipt of Delivered Energy to or at the Delivery Point, (d) curtailment in accordance with Seller's obligations under its interconnection agreement with the Participating Transmission Owner or distribution operator, *[If the Project is located outside of the CAISO:* or (e) curtailment ordered by the Transmission Provider provided, that Seller has contracted for firm transmission with such Transmission Provider for the Product to be delivered to the Delivery Point and such curtailment is due to "force majeure" or "uncontrollable force" or a similar term as defined under the Transmission Provider's tariff]; *[For Dispatchable Product only:* or ([e/f]) curtailment ordered by Buyer pursuant to a Dispatch Notice.*] [For all Products other than Dispatchable:* provided, however, that System Dispatch Down shall not include Economic Dispatch Down].

"Terminated Transaction" means the termination of this Agreement in accordance with Section 5.2 of this Agreement.

"Termination Payment" has the meaning set forth in Section 5.2.

"Transmission Provider" means any entity or entities transmitting or transporting the Product on behalf of Seller or Buyer to or from the Delivery Point.

[For Baseload, Peaking, or Dispatchable Product only: "Unit Firm" means, with respect to a Product, that the Product is intended to be supplied from the Project, and subject to the terms of this Agreement, Seller is excused from selling and delivering the Product to Buyer, and Seller shall not be liable to Buyer for any damages determined pursuant to Section 3.1(h) of the Agreement, in the event that Seller fails to deliver the Product to Buyer for any of the following reason:

- (a) if the Project is unavailable as a result of a Forced Outage and such Forced
 Outage is not the result of Seller's negligence or willful misconduct;
- (b) Force Majeure;
- (c) by the Buyer's failure to perform;
- (d) by a Planned Outage of the Project; or
- (e) a reduction in output as ordered under Dispatch Down Periods.

The following products shall be considered "Unit Firm" products: Peaking, Baseload, and Dispatchable.]

[For an intermittent As-Available Product only: "VER Forecasting Program" means the rules, protocols, procedures and standards for Participating Intermittent Resources under the CAISO's Eligible Intermittent Resource Protocol, as may be amended from time to time, as set forth in the CAISO Tariff.]

"WECC" means the Western Electricity Coordinating Council or successor agency.

"WREGIS" means the Western Renewable Energy Generating Information System or any successor renewable energy tracking program.

1.2 <u>Interpretation</u>. The following rules of interpretation shall apply:

(a) The term "month" shall mean a calendar month unless otherwise indicated, and a "day" shall be a 24-hour period beginning at 12:00:01 a.m. Pacific Prevailing Time and ending at 12:00:00 midnight Pacific Prevailing Time; provided that a "day" may be 23 or 25 hours on those days on which daylight savings time begins and ends.

(b) Unless otherwise specified herein, all references herein to any agreement or other document of any description shall be construed to give effect to amendments, supplements, modifications or any superseding agreement or document as then exist at the applicable time to which such construction applies.

(c) Capitalized terms used in this Agreement, including the appendices hereto, shall have the meaning set forth in Article 1, unless otherwise specified.

(d) Unless otherwise specified herein, references in the singular shall include references in the plural and vice versa, pronouns having masculine or feminine gender will be deemed to include the other, and words denoting natural persons shall include partnerships, firms, companies, corporations, joint ventures, trusts, associations, organizations or other entities (whether or not having a separate legal personality). Other grammatical forms of defined words or phrases have corresponding meanings.

(e) The term "including" when used in this Agreement shall be by way of example only and shall not be considered in any way to be in limitation.

(f) References to a particular article, section, subsection, paragraph, subparagraph, appendix or attachment shall, unless specified otherwise, be a reference to that article, section, subsection, paragraph, subparagraph, appendix or attachment in or to this Agreement.

(g) Any reference in this Agreement to any natural person, Governmental Authority, corporation, partnership or other legal entity includes its permitted successors and assigns or to any natural person, Governmental Authority, corporation, partnership or other legal entity succeeding to its functions.

(h) All references to dollars are to U.S. dollars.

ARTICLE TWO: EFFECTIVENESS OF AGREEMENT; CONDITIONS PRECEDENT

2.1 <u>Effectiveness of Agreement Prior to CP Satisfaction Date</u>. Commencing on the Execution Date until the CP Satisfaction Date, this Agreement shall be in full force and effect, enforceable and binding only to the extent required to give full effect to, and enforce, the rights and obligations of the Parties under this Article 2, including, as it relates to Article 2, the rights and obligations under Articles 1, 5, 7, 8, 9, 10, 11, 12, and 13.

2.2 <u>Obligations of the Parties</u>. The Parties shall cooperate with each other to cause the Conditions Precedent to be satisfied as soon as reasonably practical.

Seller's Obligations. Prior to the CP Satisfaction Date, Seller shall (i) use (a) commercially reasonable efforts to pursue satisfaction of the Conditions Precedent set forth in Sections [], and (ii) otherwise comply with its obligations, covenants, representations, and warranties under Articles 7-13. [For Agreements with Delivery Terms greater than two years: Upon an Event of Default of Seller prior to the CPUC Approval Date, Buyer may terminate this Agreement in which case Seller shall owe Buyer liquidated damages in the amount of the CPUC Approval Security.] Upon an Event of Default of Seller *[For Agreements with Delivery Terms* greater than two years: on or after the CPUC Approval Date but] prior to the CP Satisfaction Date, Buyer may terminate this Agreement in which case Seller shall owe Buyer liquidated damages in the amount of the Pre-Delivery Term Security. Buyer may retain such Performance Assurances to pay such liquidated damages. Each Party agrees and acknowledges that (a) the actual damages that Buyer would incur due to an Event of Default of Seller prior to the CP Satisfaction Date would be difficult or impossible to predict with certainty, (b) the liquidated damages set forth in this section are a reasonable and appropriate approximation of such damages, and (c) the liquidated damages set forth in this section are the exclusive remedy for an Event of Default of Seller prior to the CP Satisfaction Date.

Buyer's Obligations. Prior to the CP Satisfaction Date, Buyer shall (i) use (b) commercially reasonable efforts to pursue satisfaction of the Conditions Precedent set forth in Sections 2.3(a), and (ii) otherwise comply with its obligations, covenants, representations, and warranties under Articles 7-13. [For Agreements with Delivery Terms greater than two years: Upon an Event of Default of Buyer prior to the CPUC Approval Date, Seller may terminate this Agreement in which case Buyer shall owe Seller liquidated damages in the amount of the CPUC Approval Security.] Upon an Event of Default of Buyer /For Agreements with Delivery Terms greater than two years: on or after the CPUC Approval Date but] prior to the CP Satisfaction Date, Seller may terminate this Agreement in which case Buyer shall owe Seller liquidated damages in the amount of the Pre-Delivery Term Security. Each Party agrees and acknowledges that (a) the actual damages that Seller would incur due to an Event of Default of Buyer prior to the CP Satisfaction Date would be difficult or impossible to predict with certainty, (b) the liquidated damages set forth in this section are a reasonable and appropriate approximation of such damages, and (c) the liquidated damages set forth in this section are the exclusive remedy for an Event of Default of Buyer prior to the CP Satisfaction Date.

2.3 <u>Conditions Precedent</u>. Subject to Section 2.1, the effectiveness of the remainder of this Agreement is conditioned upon the satisfaction (or waiver by the Party described in Section 2.4) of all of the following conditions precedent ("Conditions Precedent") by the deadline dates set forth below for each Condition Precedent without extension for Force Majeure or any other reason:

(a) <u>CPUC Approval</u>. No later than [_____], Buyer shall have obtained CPUC Approval. Prior to this deadline, should the CPUC issue an order approving this Agreement but with conditions or modifications that materially alter the commercial aspects of this Agreement, the Parties agree to use good faith efforts to renegotiate this Agreement and file the amended agreement with the CPUC seeking CPUC Approval therefor. If, no later than the

earlier of (i) sixty (60) days after such order or (ii) the deadline date above, no agreement is reached, either Party may terminate this Agreement upon delivery of Notice to the other Party.

(b) [Others, Major Governmental Approvals, Financing, etc.]

2.4 Failure to Meet All Conditions Precedent.

(a) <u>Beneficiary Party</u>.

(i) Both of the Parties are the beneficiaries of the Conditions Precedent set forth in Sections 2.3(a), *[Others]*, and in order for a waiver of non-satisfaction of such Conditions Precedent to be effective, both of the Parties must waive (in their sole discretion) non-satisfaction by the deadline date therefor.

(ii) Buyer shall be the sole beneficiary of the Conditions Precedent set forth in Sections *[List]*, and in order for a waiver of non-satisfaction of such Conditions Precedent to be effective, Buyer alone must waive (in its sole discretion) non-satisfaction by the deadline date therefor.

(iii) Seller shall be the sole beneficiary of the Conditions Precedent set forth in Sections *[Others]*, and in order for a waiver of non-satisfaction of such Conditions Precedent to be effective, Seller alone must waive (in its sole discretion) non-satisfaction by the deadline date therefor.

(b) <u>Termination</u>. If any of the Conditions Precedent is not satisfied or waived in writing by the beneficiary Parties thereto on or before the date that is fifteen (15) days after the applicable deadline date therefor, then this Agreement shall automatically terminate with no further obligation to either Party (other than as set forth in Sections 2.4(b)(i)-(ii) below and any other payment obligations which are accrued and payable at the time of termination).

(i) Upon a termination of this Agreement for any reason under Section 2.4 other than as described in Section 2.4(b)(ii) below, Seller shall forfeit to Buyer an amount equal to the Performance Assurance then required to be delivered to Buyer hereunder. Buyer may retain such Performance Assurance to pay such amount.

(ii) Upon a termination of this Agreement under this Section 2.4 as a result of the failure of the Conditions Precedent set forth in Sections 2.3(a) to be satisfied (or waived by both Parties) or as a result of the failure of the Conditions Precedent set forth in Sections [*Others*] to be satisfied or waived by Buyer, Buyer shall return to Seller the Performance Assurances then held by Buyer.

2.5 <u>Effectiveness of Agreement on and after CP Satisfaction Date</u>. This Agreement shall be in full force and effect, enforceable and binding in all respects as of the CP Satisfaction Date until the conclusion of the Delivery Term or earlier termination pursuant to the terms of this Agreement; provided however, that this Agreement shall remain in effect until (i) the Parties have fulfilled all obligations under this Agreement, including payment in full of amounts due for the Product delivered prior to the end of the Delivery Term, the Settlement Amount, indemnification payments or other damages (whether directly or indirectly such as through set-off or netting) and

(ii) the undrawn portion of the *[For Agreements with Delivery Terms greater than two years:* CPUC Approval Security,] Pre-Delivery Term Security, or Delivery Term Security, as applicable, is released and/or returned as applicable (if any is due). All indemnity rights shall survive the termination or expiration of this Agreement for the longer of twelve (12) months or the expiration of the statute of limitations period of the claim underlying the indemnity obligation.

ARTICLE THREE: OBLIGATIONS AND DELIVERIES

3.1 <u>Transaction</u>.

(a) <u>Product</u>. The "Product" to be delivered and sold by Seller and received and purchased by Buyer under this Agreement is *[Seller to select:* As-Available, Baseload, Peaking, or Dispatchable/ Energy, Capacity Attributes, Green Attributes, and other ancillary products, services or attributes similar to the foregoing which are or can be produced by or associated with the Project (net of Station Service) in accordance with the terms hereof.

(b) <u>Transaction</u>. Unless specifically excused by the terms of this Agreement during the Delivery Term, Seller shall sell and deliver, or cause to be delivered, and Buyer shall purchase and receive, or cause to be received, the Product at the Delivery Point, and Buyer shall pay Seller for the Product in accordance with the terms hereof. In no event shall Seller have the right to procure any element of the Product from sources other than the Project for sale or delivery to Buyer under this Agreement *[If the Project is located outside of the CAISO:* except with respect to Imbalance Energy from the Transmission Provider].

(c) <u>Delivery Term</u>. The Parties agree that the period of Product delivery is [___] Contract Years. As used herein, "Delivery Term" shall mean the period of Contract Years specified above beginning on the Initial Delivery Date and continuing until the end of the last Contract Year unless terminated earlier as provided by the terms of this Agreement.

(d) <u>Delivery Point</u>. The Delivery Point shall be [the point of interconnection of the Project to the CAISO Grid] *[Seller may specify another delivery point; for a Project located outside the CAISO Grid, the Delivery Point should be a CAISO Scheduling Point as defined by the CAISO]* and for financial settlement purposes under the applicable CAISO market, the PNode corresponding to such point.

(e) *[For Baseload, Peaking, As-Available Product:* <u>Contract Quantity and</u> <u>Guaranteed Energy Production</u>. The quantity of Bundled Green Energy that Seller expects to be able to deliver to Buyer during each Contract Year is [____] MWh ("Contract Quantity"). Throughout the Delivery Term, Seller shall be required to deliver to Buyer no less than the Guaranteed Energy Production (as defined below) in any [twelve (12)] [twenty-four (24)] consecutive calendar month period during the Delivery Term ("Performance Measurement Period"). "Guaranteed Energy Production" means an amount of Bundled Green Energy, as measured in MWh, equal to [two times] [____]% of the Contract Quantity. Notwithstanding the excuses to performance set forth in the definition of the Product type (as such Product type is specified in Section 3.1(a)), Seller shall be excused from achieving the Guaranteed Energy Production during any Performance Measurement Period only to the extent of any Force Majeure events, Buyer's failure to perform, or Dispatch Down Periods. For purposes of determining

whether Seller has achieved the Guaranteed Energy Production, Seller shall be deemed to have delivered to Buyer an amount of Bundled Green Energy that it could reasonably have delivered to Buyer but was prevented from delivering to Buyer by reason of any Force Majeure events or Buyer's failure to perform, or was instructed not to deliver Dispatch Down Periods.] *[For Dispatchable Product:* Contact Quantity. The quantity of Bundled Green Energy that Seller expects to be able to deliver to Buyer during each Contract Year is [____] MWh ("Contract Quantity").]

(f) <u>Contract Capacity</u>. The "Contract Capacity" is the full generation capacity of the Project net of all Station Service which shall be *[For As-Available Product:* no less than [___] MW and no greater than [___] MW] *[For Baseload, Peaking, or Dispatchable Product only:* an amount determined periodically pursuant to a Capacity Test as set forth below]. Throughout the Delivery Term, Seller shall sell and Schedule all Product associated with the Contract Capacity of the Project solely to Buyer, except in the case of an Event of Default of Buyer or an unexcused failure by Buyer to Schedule, receive, and pay for Product under Section 3.1(h)(ii) *[If the Project is located outside of the CAISO:* or the sale of Imbalance Energy to the Transmission Provider]. *[For Dispatchable Product:* Throughout the Delivery Term, Seller shall make the Contract Capacity available solely to Buyer at all times, except in the case of an Event of Default of Default of Buyer or an unexcused failure by Buyer to Schedule, receive, and pay for Product under Section 3.1(h)(ii) *[If the Project is located outside of the CAISO:* or the sale of Imbalance Energy to the Transmission Provider]. *[For Dispatchable Product:* Throughout the Delivery Term, Seller shall make the Contract Capacity available solely to Buyer at all times, except in the case of an Event of Default of Buyer or an unexcused failure by Buyer to Schedule, receive, and pay for Product under Section 3.1(h)(ii) *[If the Project is located outside of the CAISO:* or the sale of Imbalance Energy to the Transmission Provider].]

(i) *[For Baseload, Peaking, Dispatchable Product:* <u>Initial Capacity</u> <u>Testing</u>. Upon no less than fourteen (14) days prior Notice to Buyer, Seller shall schedule and complete a Capacity Test prior to the Initial Delivery Date for the Project. Such initial Capacity Test shall establish the Contract Capacity for the Project for the first Contract Year.]

(ii) *[For Baseload, Peaking, Dispatchable Product:* <u>Annual Capacity</u> <u>Testing</u>. Thereafter, at least once per Contract Year within the first quarter of each Contract Year, upon no less than 14 days prior Notice to Buyer, Seller shall schedule and complete a Capacity Test. In addition, Buyer shall have the right to require a retest of the Capacity Test at any time upon five (5) days prior written Notice to Seller if Buyer reasonably believes that the actual Contract Capacity has varied materially from the results of the most recent tests. Seller shall have the right to run a retest of the Capacity Test at any time upon two (2) days prior written Notice to Buyer (or any shorter period reasonably acceptable to Buyer consistent with Good Industry Practices).]

(iii) *[For Baseload, Peaking, Dispatchable Product:* <u>Witness at</u> <u>Capacity Tests.</u> Buyer shall have the right to send one or more representative(s) to witness all Capacity Tests.]

(iv) *[For Baseload, Peaking, Dispatchable Product:* <u>Capacity Test</u> <u>Reporting</u>. No later than fourteen (14) days following any Capacity Test, Seller shall submit a testing report detailing results and findings of the test. The report shall include meter readings and plant log sheets verifying the operating conditions and output of the Project. The Contract Capacity determined pursuant to a Capacity Test shall become the new Contract Capacity at the beginning of the day following the completion of the test for all purposes under this Agreement.] (v) *[For Baseload, Peaking, Dispatchable Product:* <u>Capacity Test</u> <u>Costs and Payments</u>. Buyer shall pay the [Monthly Energy Payment] in respect of the Product produced during the initial Capacity Test prior to the Initial Delivery Date and each annually scheduled Capacity Test thereafter. In addition, Buyer shall pay the [Monthly Energy Payment] in respect of the Product produced during any other Buyer requested test unless the results of such test demonstrate that the actual Contract Capacity has varied by more than two percent (2%) from the results of the most recent tests, in which case Buyer shall pay the lesser of the [Monthly Energy Payment] in respect of the Product produced during such test and the applicable CAISO real-time hourly average energy price. In addition, Buyer shall pay the lesser of the [Monthly Energy Payment] in respect of the Product produced during any Seller requested test and the applicable CAISO real-time hourly average energy price]. Buyer is responsible for all costs, expenses and fees payable or reimbursable to its representative(s) witnessing Capacity Testing. All other costs of any Capacity Tests shall be borne by Seller.]

(g) <u>Project</u>. All Product provided by Seller pursuant to this Agreement shall be supplied from the Project only *[If the Project is located outside of the CAISO:* except with respect to Imbalance Energy from the Transmission Provider]. Other than maintenance in accordance with Good Industry Practices, Seller shall not make any alteration or modification to the Project which results in a change to the Contract Capacity of the Project or any other material changes to the Project without Buyer's prior written consent. The Project is further described in Exhibit A.

(h) <u>Performance Excuses</u>.

(i) <u>Seller Excuses</u>. The performance of Seller to Schedule, deliver, and sell the Product shall be excused only for the reasons set forth in the definition of *[Seller to select:* "As-Available" or "Unit Firm"]. If Seller fails to Schedule, deliver, or sell all or part of the Product, for a period or a series of periods that is cumulatively longer than thirty (30) days, and such failure is not excused as described above, then such failure shall be an Event of Default. If Seller fails to Schedule, deliver, or sell all or part of the Product for any period prior to an Early Termination Date, and such failure is not excused as described above, then Seller shall pay Buyer, on the date payment would otherwise be due in respect of the month in which the failure occurred an amount for such Product deficiency equal to the positive difference, if any, obtained by subtracting (A) the product of the Energy Price times the Product deficiency, from (B) the product of the Replacement Price times the Product deficiency. The invoice for such amount shall include a written statement explaining in reasonable detail the calculation of such amount.

(ii) <u>Buyer Excuses</u>. The performance of Buyer to Schedule, receive, and pay for the Product shall be excused only (A) during periods of Force Majeure, (B) by Seller's failure to perform or (C) during Dispatch Down Periods *[For all Products other than Dispatchable Product:* (except that Buyer shall not be excused from paying for the Product as required under Section 3.4 during periods of Economic Dispatch Down)*J*. If Buyer fails to Schedule, receive, or purchase all or part of the Product for a period or a series of periods that is cumulatively longer than thirty (30) days and such failure is not excused as described above, then then such failure shall be an Event of Default. If Buyer fails to Schedule, receive, or purchase all or part of the Product for any period prior to an Early Termination Date and such failure is not excused as described above, then Buyer shall pay Seller, on the date payment would otherwise be due in respect of the month in which the failure occurred an amount for such Product deficiency equal to the positive difference, if any, obtained by subtracting (Y) the product of the Sales Price times the Product deficiency from (Z) the product of the Energy Price times the Product deficiency. The invoice for such amount shall include a written statement explaining in reasonable detail the calculation of such amount.

Green Attributes. Seller hereby provides and conveys all Green Attributes (i) associated with all electricity generation from the Project to Buyer as part of the Product being delivered. Seller represents and warrants that Seller holds the rights to all Green Attributes from the Project, and Seller agrees to convey and hereby conveys all such Green Attributes to Buyer as included in the delivery of the Product from the Project. For all electric generation using biomethane as fuel, neither Buyer nor Seller may make a marketing, regulatory, or retail claim that asserts that a procurement contract to which that entity was a party resulted, or will result, in greenhouse gas reductions related to the destruction of methane if the capture and destruction is required by Law. If the capture and destruction of the biomethane is not required by Law, neither Buyer nor Seller may make a marketing, regulatory, or retail claim that asserts that a procurement contract to which that entity was a party resulted, or will result, in greenhouse gas reductions related to the destruction of methane, unless the environmental attributes associated with the capture and destruction of the biomethane pursuant to that contract are transferred to Buyer and retired on behalf of the retail customers consuming the electricity associated with the use of that biomethane, or unless Seller's procurement contract with the source of biomethane prohibits the source of biomethane from separately marketing the environmental attributes associated with the capture and destruction of the biomethane sold pursuant to that contract, and such attributes have been retired.

(j) <u>Resource Adequacy</u>. During the Delivery Term, Seller grants, pledges, assigns and otherwise commits to Buyer all of the Project's Contract Capacity, including Capacity Attributes, from the Project for Buyer to use in meeting its Resource Adequacy or successor program requirements, as the CPUC, CAISO or other regional entity may prescribe. Seller understands that the CPUC is updates or modifies the requirements for Resource Adequacy from time to time, and these requirements and the implementation thereof are subject to change. Seller agrees that it shall take all commercially reasonable actions and execute any and all documents or instruments reasonably necessary to enable Buyer to use all of the Contract Capacity, including Capacity Attributes, to be committed by Seller to Buyer pursuant to this Agreement for the Resource Adequacy requirements of Buyer. Seller agrees that the Project is subject to the terms of the Availability Standards.

(k) <u>WREGIS</u>. Prior to the initial delivery of Energy to Buyer, Seller shall register the Project in WREGIS, execute a CAISO Qualified Reporting Entity Service Agreement to allow CAISO, on the Seller's behalf, to upload generation information directly into WREGIS, and take all other actions necessary to ensure that the Green Attributes produced from the Project in an amount equal to the amount of Delivered Energy are issued and tracked for purposes of satisfying the requirements of the California Renewable Portfolio Standard and transferred to Buyer, including payment of all fees required to register the facility in WREGIS, issue WREGIS certificates, and transfer such certificates to Buyer. Within seventy-five (75) days after the initial delivery of energy to Buyer, Seller shall provide to Buyer written approval from WREGIS for Seller's generation to be reported to WREGIS. Seller warrants that all necessary steps to allow

the Renewable Energy Credits transferred to Buyer to be tracked in WREGIS will be taken prior to the first delivery under the Agreement.

(1) <u>Prevailing Wage</u>. To the extent applicable, Seller shall comply with the prevailing wage requirements of California Public Utilities Code Section 399.13, subdivision (h).

3.2 <u>Transmission</u>.

Seller's Transmission Service Obligations. During the Delivery Term, (a) Seller shall arrange and be responsible for transmission service for delivery of the Product to and at the Delivery Point and bear all risks and costs associated with such transmission service, including, but not limited to, all Transmission Provider costs and charges, electric transmission losses, and any transmission outages or curtailment, except as provided otherwise in this Agreement in respect of Dispatch Down Periods. [For Projects located outside of CAISO: Seller shall obtain and maintain during the Delivery Term firm transmission service to deliver the Product from the Site to the Delivery Point from all intermediary Transmission Providers between the Site and the Delivery Point. At Buyer's request, Seller shall provide to Buyer a copy of all firm transmission service agreements and any amendments thereto.] Seller shall fulfill all contractual, metering and applicable interconnection requirements, including those set forth in Participating Transmission Owner's applicable tariffs, the CAISO Tariff and implementing CAISO standards and requirements, including, but not limited to, executing applicable interconnection agreements, Participating Generator Agreement and Meter Service Agreement so as to be able to deliver Energy to the CAISO Grid. Seller shall arrange for any interconnection agreement with the CAISO and such interconnection agreement is separate from and not a part of this Agreement.

(b) <u>Buyer's Transmission Service Obligations</u>. During the Delivery Term, Buyer shall arrange and be responsible for transmission service for delivery of the Product from the Delivery Point and bear all risks and costs associated with such transmission service, including, but not limited to, all Transmission Provider costs and charges, electric transmission losses, and any transmission outages or curtailment, except as provided otherwise in this Agreement in respect of Dispatch Down Periods.

(c) <u>Congestion Charges</u>. Seller shall be responsible for all costs of congestion for transmission of the Product up to and at the Delivery Point. Buyer shall be responsible for all costs of congestion for transmission of the Product from the Delivery Point. To the extent that Seller is reimbursed for or receives any refunds, credits, or benefits from the CAISO for congestion charges or losses in respect of transmission of the Product from the Delivery Point, whether due to differences between the locational marginal pricing at the Delivery Point and Buyer's load aggregation point or any other point downstream of the Delivery Point, or any other hedging instruments associated with the transmission of the Product from the Delivery Point (collectively, any such refunds, credits or benefits are referred to as "Reductions"), then, at Buyer's option, either (i) Seller shall transfer any such Reductions and their related rights to Buyer; or (ii) Buyer shall reduce payments due to Seller under this Agreement in amounts equal to the Reductions and Seller shall retain the Reductions.

3.3 <u>Scheduling</u>.

(a) *[For As-Available intermittent Product only:* <u>VER Forecasting Program</u> <u>Requirements</u>. Seller shall cause the Project to become a Participating Intermittent Resource including executing all necessary documents to become a Participating Intermittent Resource. Seller shall be responsible for all CAISO forecasting fees and related charges associated with the Project becoming a Participating Intermittent Resource and participating in the VER Forecasting Program. Seller and Buyer shall comply with the VER Forecasting Program, and all additional protocols issued by the CAISO relating to Participating Intermittent Resources, including the VER Forecasting Program, for the Delivery Term. Seller shall provide Buyer with a copy of the notice from the CAISO certifying the Project as a Participating Intermittent Resource prior to the Initial Delivery Date. In the event that the VER Forecasting Program or the CAISO Tariff and/or any protocols relating thereto are changed, amended, modified replaced or terminated, Seller and Buyer agree to comply with such revisions and, to the extent practical, to implement such revisions in a manner that maintains the relative economic positions of the Parties as of the date of this Agreement.]

(b) <u>Scheduling Coordinator</u>.

[When Seller is SC for the Project, include the following two paragraphs:

Seller as Scheduling Coordinator for the Project. During the (i) Delivery Term, Seller shall be its own Scheduling Coordinator or designate a qualified third party to provide Scheduling Coordinator services with its Transmission Provider to Schedule and deliver the Product to the Delivery Point and Buyer shall be its own Scheduling Coordinator or designate a qualified third party to provide Scheduling Coordinator services with its Transmission Provider to Schedule and receive the Product at the Delivery Point. Throughout the Delivery Term, Buyer and Seller shall submit inter-SC trades for scheduling all Product from the Project at the Delivery Point (including Energy, Integrated Forward Market Load Uplift Obligations in respect of selfscheduled Energy, and other Product from time to time contemplated under the CAISO Tariff to be subject to inter-SC trades), based on a final Schedule developed in compliance with this Agreement. During the Delivery Term, each Party or each Party's SC shall conduct all Scheduling in accordance with the operating procedures developed by the Parties pursuant to Section 3.9 and in full compliance with the applicable CAISO Tariff, protocols and Scheduling practices for Product on a day-ahead, hour-ahead, or real time basis, as determined by Buyer. [For As-Available intermittent Product only: Whenever the VER Forecasting Program is available, Seller shall submit Schedules and any updates to such Schedules to the CAISO based on the most current forecast of Delivered Energy consistent with the VER Forecasting Program.] In all cases, [For all Products other than Dispatchable: consistent with its Economic Dispatch Down curtailment rights,] Buyer may direct the Scheduling Coordinator to submit, and Seller shall cause the Scheduling Coordinator to submit in accordance with such Buyer's directions, a self-schedule or an economic bid in the applicable CAISO market in order to Schedule the Product with the CAISO. It is the intent of the Parties that neither Party be subject to a double payment or a double charge for Product from the Project through this Agreement and CAISO settlement process and that the more detailed Scheduling and operating procedures developed pursuant to Section 3.9 complement the CAISO settlement process to produce a final economic result between them that is consistent with the fundamental transaction of this Agreement.

CAISO Costs and Revenues. Seller shall be responsible for CAISO (ii) costs (including penalties and other charges) and shall be entitled to all CAISO revenues (including credits and other payments) as the Scheduling Coordinator for the Project, in each case, associated with Imbalance Energy, including all CAISO charges or penalties incurred as a consequence of the Project not being available, the Seller not notifying the CAISO and Buyer of outages in a timely manner (in accordance with the CAISO Tariff and as set forth in Section 3.7), any other failure by Seller to abide by the CAISO Tariff, and any other deviations between Delivered Energy and Scheduled Energy that are attributable to Seller, the Project, or any event, circumstance, act, or incident occurring prior to or at the Delivery Point, including without limitation uninstructed deviation penalties. The Parties agree that any Availability Incentive Payments are for the benefit of the Seller and for Seller's account and that any Non-Availability Charges or other CAISO charges associated with the Project not providing sufficient Resource Adequacy capacity are the responsibility of the Seller and for Seller's account. In addition, if during the Delivery Term, the CAISO implements or has implemented any sanction or penalty related to scheduling, outage reporting, or generator operation, the cost of the sanctions or penalties shall be the Seller's responsibility. Buyer shall be entitled to all credits, payments, or revenues from the CAISO in respect of the Contract Energy from the Project, including revenues associated with CAISO dispatches, inter-SC trade credits, and bid cost recovery.

[When SDG&E is SC for the Project, include the following seven paragraphs:

Buyer as Scheduling Coordinator for the Project. [During the (iii) Delivery Term], Buyer shall be the Scheduling Coordinator or designate a qualified third party to provide Scheduling Coordinator services with the CAISO for the Project for both the delivery and the receipt of the Product at the Delivery Point. At least thirty (30) days prior to the [Initial Delivery Date of the Project], Seller shall take all actions and execute and deliver to Buyer and the CAISO all documents necessary to authorize or designate Buyer as Seller's Scheduling Coordinator for the Project effective as of [the beginning of the Delivery Term]. [During the Delivery Term], Seller shall not authorize or designate any other party to act as Seller's Scheduling Coordinator, nor shall Seller perform for its own benefit the duties of Scheduling Coordinator, and Seller shall not revoke Buyer's authorization to act as Seller's Scheduling Coordinator unless agreed to by Buyer. Buyer (as Seller's SC) shall submit Schedules to the CAISO based on the final Schedule developed in accordance with this Agreement, the operating procedures developed by the Parties pursuant to Section 3.9, and the applicable CAISO Tariff, protocols and Scheduling practices for Product on a day-ahead, hour-ahead, or real time basis, as determined by Buyer. [For As-Available intermittent Product only: Buyer (as Seller's SC) shall submit Schedules and any updates to such Schedules to the CAISO based on the most current forecast of Delivered Energy consistent with the VER Forecasting Program whenever the VER Forecasting Program is available, and consistent with Buyer's best estimate based on the information reasonably available to Buyer including Buyer's forecast whenever the VER Forecasting Program is not available.] In all cases, /For all Products other than Dispatchable: consistent with its Economic Dispatch Down curtailment rights,] Buyer (as the Scheduling Coordinator) may, or may direct the third party Scheduling Coordinator to, submit a self-schedule or an economic bid in the applicable CAISO market in order to Schedule the Product with the CAISO.

(iv) <u>Notices</u>. Buyer (as Seller's SC) shall provide Seller with access to a web based system through which Seller shall submit to Buyer and the CAISO all notices and

updates required under the CAISO Tariff regarding the Project's status, including, but not limited to, all outage requests, forced outages, forced outage reports, clearance requests, or must offer waiver forms. In accordance with Section 3.7 and this Section 3.2, Seller will cooperate with Buyer to provide such notices and updates. If the web based system is not available, Seller shall promptly submit such information to Buyer and the CAISO (in order of preference) telephonically, by electronic mail, or facsimile transmission to the personnel designated to receive such information.

(v) CAISO Costs and Revenues. Except as otherwise set forth below, [For all Products other than Dispatchable Product: in Section 3.4(c)(ii),] and elsewhere in this Agreement, Buyer (as Seller's SC) shall be responsible for CAISO costs (including penalties, *[For* As-Available Product VER Forecasting Program Participants only: Negative Imbalance Energy costs or revenues,] and other charges) and shall be entitled to all CAISO revenues (including credits, [For As-Available Product VER Forecasting Program Participants only: Positive Imbalance Energy revenues or costs,] and other payments) as the Scheduling Coordinator for the Project, including revenues associated with CAISO dispatches, bid cost recovery, inter-SC trade credits, or other credits in respect of the Product Scheduled or delivered from the Project; provided, however that during periods when the Project is under curtailment for both System Dispatch Down and Economic Dispatch Down during the same CAISO settlement interval, Imbalance Energy costs and revenues shall be allocated in accordance with Section 3.4(c)(ii). [For As-Available Product VER Forecasting Program Participants only: Seller shall be responsible for all CAISO charges or penalties net of credits and payments (including without limitation all Imbalance Energy costs), in each case, resulting from the Seller not notifying the CAISO and Buyer (as Seller's SC) of outages or other unavailability of Project capacity in a timely manner (in accordance with the CAISO Tariff and as set forth in Section 3.7) or any other failure by Seller to abide by the CAISO Tariff.] [For all Products other than As-Available Product VER Forecasting Program Participants: Seller shall be responsible for all CAISO charges or penalties net of credits and payments, in each case, resulting from the Project not being available, the Seller not notifying the CAISO and Buyer (as Seller's SC) of outages in a timely manner (in accordance with the CAISO Tariff and as set forth in Section 3.7), any other failure by Seller to abide by the CAISO Tariff, and deviations between Delivered Energy and Scheduled Energy that are attributable to Seller, the Project, or any event, circumstance, act, or incident occurring prior to or at the Delivery Point, including without limitation uninstructed deviation penalties.] The Parties agree that any Availability Incentive Payments are for the benefit of the Seller and for Seller's account and that any Non-Availability Charges or other CAISO charges associated with the Project not providing sufficient Resource Adequacy capacity are the responsibility of the Seller and for Seller's account. In addition, if during the Delivery Term, the CAISO implements or has implemented any sanction or penalty related to scheduling, outage reporting, or generator operation, and any such sanctions or penalties are imposed upon the Project or to Buyer as Scheduling Coordinator due to the actions or inactions of Seller, the cost of the sanctions or penalties shall be the Seller's responsibility.

(vi) <u>CAISO Settlements</u>. Buyer (as Seller's SC) shall be responsible for all settlement functions with the CAISO related to the Project. Buyer shall render a separate invoice to Seller for any CAISO charges or penalties ("CAISO Charges Invoice") for which Seller is responsible under this Agreement. CAISO Charges Invoices shall be rendered after settlement information becomes available from the CAISO that identifies any CAISO charges. Notwithstanding the foregoing, Seller acknowledges that the CAISO will issue additional invoices reflecting CAISO adjustments to such CAISO charges. Seller shall pay the amount of CAISO Charges Invoices within ten Business Days of Seller's receipt of the CAISO Charges Invoice. If Seller fails to pay such CAISO Charges Invoice within that period, Buyer may net or offset any amounts owing to it for these CAISO Charges Invoices against any future amounts it may owe to Seller under this Agreement. The obligations under this section with respect to payment of CAISO Charges Invoices shall survive the expiration or termination of this Agreement.

(vii) <u>Dispute Costs</u>. Buyer (as Seller's SC) may be required to dispute CAISO settlements in respect of the Project. Seller agrees to pay Buyer's costs and expenses (including reasonable attorneys' fees, including reasonably allocated costs of in-house counsel of the Buyer) associated with its involvement with such CAISO disputes. In no event shall Buyer (or its third party designee, as Scheduling Coordinator) be liable to Seller for the actions, inactions, errors, or omissions of the CAISO or its agents in the performance of their scheduling functions and/or market operations.

(viii) <u>Terminating Buyer's Designation as Scheduling Coordinator</u>. At least thirty (30) days prior to expiration of this Agreement or as soon as reasonably practicable upon an earlier termination of this Agreement, the Parties will take all actions necessary to terminate the designation of Buyer as Scheduling Coordinator for the Project as of 11:59 p.m. on such expiration date.

(ix) <u>Master File and Resource Data Template</u>. Seller shall provide the data to the CAISO (and to Buyer) that is required for the CAISO's Master File and Resource Data Template (or successor data systems) for this Project consistent with this Agreement. Neither Party shall change such data without the other Party's prior written consent.]

(c) <u>Annual Delivery Schedules</u>. No later than forty-five (45) days before (A) the first day of the first Contract Year of the Delivery Term and (B) the beginning of each calendar year for every subsequent Contract Year during the Delivery Term, Seller shall provide a non-binding forecast of each month's average-day expected Delivered Energy, by hour, for the following calendar year.

(d) <u>Monthly Delivery Schedules</u>. Ten (10) Business Days before the beginning of each month during the Delivery Term, Seller shall provide a non-binding forecast of each day's average expected Delivered Energy, by hour, for the following month ("Monthly Delivery Forecast").

(e) <u>Daily Delivery Schedules</u>. By 5:30 AM Pacific Prevailing Time on the Business Day immediately preceding the date of delivery, Seller shall *[When Seller is SC for the Project:* cause its Scheduling Coordinator to] provide Buyer with a *[For As-Available intermittent Product only:* non-binding VER forecast of the Project's available capacity (or if the VER Forecasting Program is not available for any reason, the expected Delivered Energy)] *[For all Products other than As-Available intermittent:* binding forecast of the expected Delivered Energy] for each hour of the immediately succeeding day ("Day-Ahead Forecast") *[For all Products other than As-Available intermittent: [When Seller is SC for the Project:* concurrent with delivery to the CAISO] *[When SDGE is SC for the Project:* and Buyer shall submit a Schedule to the CAISO consistent with such Day-Ahead Forecast], it being understood that, *[For*

all Products other than Dispatchable: consistent with its Economic Dispatch Down curtailment rights,] Buyer (as the Scheduling Coordinator) may, or may direct the third party Scheduling Coordinator to, submit a self-schedule or an economic bid in the applicable CAISO market in order to Schedule the Product with the CAISO]. A Day-Ahead Forecast provided in a day prior to any non-Business Day(s) shall include Schedules for the immediate day, each succeeding non-Business Day and the next Business Day. Each Day-Ahead Forecast shall clearly identify, for each hour, Seller's best estimate of [For As-Available intermittent Product only: the Project's available capacity (or if the VER Forecasting Program is not available for any reason, the expected Delivered Energy)] [For all Products other than As-Available intermittent: the expected Delivered Energy]. Seller may not change such Schedule past the deadlines provided in this section except in the event of a Forced Outage or Schedule change imposed by Buyer or the CAISO, in which case Seller shall promptly provide Buyer with a copy of any and all updates to such Schedule indicating changes from the then-current Schedule. These notices and changes to the Schedules shall be sent to Buyer's on-duty Scheduling Coordinator. If Seller fails to provide Buyer with a Day-Ahead Forecast as required herein, then for such unscheduled delivery period only Buyer shall rely on the delivery Schedule provided in the Monthly Delivery Forecast or Buyer's best estimate based on information reasonably available to Buyer and Seller shall be liable for Scheduling and delivery based on such Monthly Delivery Forecast or Buyer's best estimate.

(f) <u>Real Time Delivery Schedules</u>. Notwithstanding anything to the contrary herein, in the event Seller makes a change to its Schedule on the actual date of delivery for any reason including Forced Outages (other than a scheduling change imposed by Buyer or CAISO) which results in a change to its deliveries (whether in part or in whole), Seller shall notify Buyer immediately by calling Buyer's on-duty Scheduling Coordinator. Seller shall notify Buyer and the CAISO of Forced Outages in accordance with Section 3.7. Seller shall keep Buyer informed of any developments that will affect either the duration of the outage or the availability of the Project during or after the end of the outage.

(g) *[For Dispatchable Product Only:* <u>Availability Notices</u>. During the Delivery Term, no later than two (2) Business Days before each Schedule day for the day-ahead market in accordance with WECC scheduling practices, Seller shall provide Buyer with an hourly Schedule of the capacity that the Project is expected to have available for each hour of such Schedule day (the "Availability Notice"). Seller will notify Buyer immediately if the available capacity of the Project may change after Buyer's receipt of an Availability Notice. Seller shall accommodate Buyer's reasonable requests for changes in the time of delivery of Availability Notices. Seller shall provide Availability Notices using the form developed by the Parties under Section 3.9 by (in order of preference) electronic mail, facsimile transmission or, telephonically to Buyer personnel designated to receive such communications.]

(h) *[For Dispatchable Product Only:* Dispatch Notices. Buyer or the CAISO will have the right to dispatch the Project, seven days per week and 24 hours per day (including holidays), by providing Dispatch Notices and updated Dispatch Notices to Seller electronically, subject to the requirements and limitations set forth in this Agreement, including the system requirements under Section 3.4(b) and the Project operating restrictions set forth in Exhibit E. Each Dispatch Notice will be effective unless and until Buyer modifies such Dispatch Notice by providing Seller with an updated Dispatch Notice. In addition to any other requirements set forth

or referred to in this Agreement, all Dispatch Notices and updated Dispatch Notices will be made in accordance with the timelines as specified in the CAISO Tariff.]

3.4 <u>Dispatch Notices</u>.

(a) <u>General</u>. Seller shall adjust delivery amounts as directed by the CAISO, the Participating Transmission Owner, Buyer, or a Transmission Provider during any Dispatch Down Period.

System Requirements. Seller shall acquire, install, and maintain such (b) facilities, communications links and other equipment, and implement such protocols and practices, as necessary (i) for Seller to respond and follow instructions, including an electronic signal conveying real time instructions, to operate the Project as directed by the Buyer and/or the CAISO, including to implement a System Dispatch Down or an Economic Dispatch Down in accordance with the then-current methodology used to transmit such instructions as it may change from time to time, and (ii) for Buyer and/or the CAISO to control the quantity of Product generated by the Project in order to implement a System Dispatch Down or an Economic Dispatch Down, in each case, in accordance with the then-current methodology used to transmit such instructions as it may change from time to time. As of the Execution Date, the systems required to comply with clause (i) include at a minimum the CAISO's Automatic Dispatch System (as described in the CAISO website) and the systems required to comply with clause (ii) include at a minimum the CAISO'S Application Programming Interfaces (as described in the CAISO website). If at any time during the Delivery Term Seller's facilities, communications links or other equipment, protocols or practices are not in compliance with then-current methodologies, Seller shall take all commercially reasonable steps necessary to become compliant as soon as possible. Seller shall be liable pursuant to Section [For all Products other than Dispatchable Product: 3.4(c)(ii)] [For Dispatchable **Product:** 3.3(b)[(ii)/(iii)]/ for failure to comply with an order directing a Dispatch Down Period, during the time that Seller's facilities, communications links or other equipment, protocols or practices are not in compliance with then-current methodologies. For the avoidance of doubt, an order directing a Dispatch Down Period via such systems and facilities shall have the same force and effect on Seller as any other form of communication. If an electronic submittal is not possible, Buyer and/or the CAISO may provide Dispatch Notices by (in order of preference) electronic mail, telephonically, or facsimile transmission to Seller's personnel designated to receive such communications, as provided by Seller in writing and Seller shall maintain communications systems necessary to permit such transmittal of Dispatch Notices. The Parties shall describe with more specificity the Economic Dispatch Down process (including the automated communication process for Dispatch Notices) in the operating procedures developed by the Parties pursuant to Section 3.9.

(c) *[For all Products other than Dispatchable Product:* Economic Dispatch Down. Each of Buyer and the CAISO has the right to order Seller to curtail deliveries of Energy from the Project to the Delivery Point for Economic Dispatch Down purposes, seven days per week and 24 hours per day (including holidays), by providing Dispatch Notices and updated Dispatch Notices to Seller electronically via the communications systems described in Section 3.4(b), subject to the requirements and limitations set forth in this Agreement, including the Project operating restrictions set forth in Exhibit E. Each Dispatch Notice will be effective unless and until Buyer (or the CAISO) modifies such Dispatch Notice by providing Seller with an updated

Dispatch Notice. In addition to any other requirements set forth or referred to in this Agreement, all Dispatch Notices and updated Dispatch Notices will be made in accordance with the timelines as specified in the CAISO Tariff. Seller agrees to adjust the Project's Delivered Energy as set forth in a Dispatch Notice that meets the requirements of Economic Dispatch Down.]

Buyer Payments. Buyer shall pay Seller, on the date payment (i) would otherwise be due in respect of the month in which any such Economic Dispatch Down occurred an amount equal to the positive difference, if any, of (Y) the product of the Energy Price, times the amount of Deemed Bundled Green Energy resulting from such Economic Dispatch Down /For Projects receiving PTCs: plus the product of the after tax value of any lost PTC benefits (in dollars per megawatt hour) that Seller has not been able to mitigate after use of reasonable efforts, times the amount of Deemed Bundled Green Energy resulting from such Economic Dispatch Down], minus (Z) the product of the positive value of the Sales Price, if received, times the amount of Deemed Bundled Green Energy resulting from such Economic Dispatch Down. [For Projects receiving PTCs: Seller shall provide Buyer with documentation that establishes to Buyer's reasonable satisfaction (A) that Seller would have been entitled to receive PTCs for the Deemed Bundled Green Energy if it had actually been generated; and (B) the after tax value of any lost PTC benefits (in dollars per megawatt hour) due under this Section 3.4(c)(i).]]

(ii) [Failure to Comply. If Seller fails to comply with a Dispatch Notice that is in compliance with this Agreement, then, for the deviation between the Delivered Energy and the amount set forth in the Dispatch Notice, Seller shall pay Buyer an amount equal to the sum of (A) + (B) + (C), where: (A) is the amount, if any, paid to Seller by Buyer for any Delivered Energy in excess of the amount set forth in the Dispatch Notice, and (B) is all Imbalance Energy costs or charges (excluding any revenues or credits), and (C) is any penalties or other charges resulting from Seller's failure to comply with the Dispatch Notice.]

3.5 <u>Standards of Care</u>.

(a) <u>General Operation</u>. Seller shall comply with all applicable requirements of Law, the CAISO, NERC and WECC relating to the Project (including those related to safety, construction, ownership and/or operation of the Project).

(b) <u>CAISO and WECC Standards</u>. Each Party shall perform all generation, scheduling and transmission services in compliance with all applicable (i) operating policies, criteria, rules, guidelines, tariffs and protocols of the CAISO, (ii) WECC scheduling practices and (iii) Good Industry Practices.

(c) <u>Reliability Standard</u>. Seller agrees to abide by all (i) NERC, WECC and CAISO reliability requirements, including all such reliability requirements for generator owners and generator operators, and, if applicable, CPUC General Order No.167, "Enforcement of Maintenance and Operation Standards for Electrical Generating Facilities," and (ii) all applicable requirements regarding interconnection of the Project, including the requirements of the interconnected Transmission Provider.

(d) <u>CAISO Interconnection</u>. Seller shall perform all studies, pay all fees, obtain all necessary approvals and execute all necessary agreements with the CAISO and the Participating Transmission Owner to Schedule and deliver the Product from the Project to the Delivery Point [*For Projects Providing Resource Adequacy:* under "Full Capacity Deliverability Status" (as defined in the CAISO Tariff)].

(e) <u>Permitting</u>. Seller shall maintain all Governmental Approvals and other approvals necessary for the construction, operation, and maintenance of the Project.

(f) <u>Diverse Business Entities</u>. At Buyer's request, Seller shall provide information to Buyer relating to Seller's or Seller's contractor's use, during Project construction or operation, of "Women-Owned Businesses" or "Minority-Owned Businesses" or "Disabled Veteran Business Enterprises" as defined in CPUC General Order 156, and the number of new employees hired by Seller or Seller's contractors and the number of women, minority, and disabled veterans trained or hired by Seller or Seller's contractor's as contemplated under Cal. Public Utilities Code §910(a)(8), as each such group of entities and individuals may be amended from time to time or further defined, supplemented, or superseded by applicable Law or replaced with similar designations or certifications. [*Include other covenants related to "women-owned business" or "minority-owned business" as may be applicable to the Seller's RFO bid.*]

3.6 <u>Metering</u>.

CAISO Revenue Meter. All output from the Project per the terms of this (a) Agreement must be delivered through a single CAISO revenue meter and that meter must be dedicated exclusively to the Project described herein. All Product purchased under this Agreement must be measured by the Project's CAISO revenue meter to be eligible for payment under this Agreement. Seller shall bear all costs relating to all metering equipment reasonably necessary to accommodate the Project. In addition, Seller hereby agrees to provide all meter data to Buyer in a form acceptable to Buyer, and consents to Buyer obtaining from the CAISO the CAISO meter data applicable to the Project and all inspection, testing and calibration data and reports. Seller shall grant Buyer the right to retrieve the meter reads from the CAISO meter reporting website and/or directly from the CAISO meter(s) at the Project site. If the CAISO makes any adjustment to any CAISO meter data for a given time period, Seller agrees that it shall submit revised monthly invoices, pursuant to Section 6.2, covering the entire applicable time period in order to conform fully such adjustments to the meter data. Seller shall submit any such revised invoice no later than thirty (30) days from the date on which the CAISO provides to Seller such binding adjustment to the meter data.

(i) <u>Testing and Calibration</u>. Seller shall perform or cause to be performed, at its expense, annual testing and calibration of the electric meters in accordance with Good Industry Practice and the CAISO Tariff. Seller shall give Buyer reasonable advance notice of any inspection, testing or calibration of the electric meters. Buyer shall have the right to have a representative or designee present at such inspection, test or calibration of the electric meters. Buyer shall have the right to require, at Buyer's expense, except as required below, a test of any of the electric meters not more often than two (2) times every twelve (12) months.

(ii) <u>Inaccurate Meters</u>. If any of the electric meters is deemed to be inaccurate under the Meter Service Agreement, deliveries shall be measured by reference to Seller's check-meters, if any are installed and registering accurately, or the meter readings for the period of inaccuracy shall be adjusted as far as can be reasonably ascertained by Seller from the best available data, subject to review and approval by Buyer. If the period of the inaccuracy cannot be ascertained reasonably, any such adjustment shall be for a period equal to one-half of the time elapsed since the preceding test by applying the percentage of inaccuracy so found. Seller shall promptly cause such electric meters to be corrected and, where such inaccuracy was determined pursuant to a test required by Buyer, Seller shall bear the expense of any such test.

(iii) <u>Delivered MWh Adjustments</u>. In the event that, due to correction for inaccurate electric meters deemed to be inaccurate under the Meter Service Agreement, the Delivered Energy is increased or decreased, the revised Delivered Energy shall be used for purposes of calculating payments. If any of such amounts for any period have already been calculated using the previous amount of Delivered Energy, they shall be recalculated using the revised amount of Delivered Energy. If the recalculation changes the amount payable for the period in question, revised payments shall be made by Buyer or Seller, as applicable, in accordance with Section 6.2.

(b) <u>Real Time Telemetry</u>. Seller shall install, activate and maintain metering, communication and telemetry equipment for the Project in a centralized system to which Buyer shall have real time access. Seller shall link its system to Buyer via an approved Buyer communication network, utilizing existing industry standard network protocol, as reasonably approved by Buyer. Seller shall correct any problems with such equipment as soon as practicable.

(c) [The following section is for As-Available Intermittent Products only] Meteorological Station. Seller, at its own expense, shall install and maintain such stand-alone meteorological stations at the Project as may be required under the VER Forecasting Program and the CAISO Tariff to monitor and report weather data to both the CAISO and Buyer's weather station data collection system. Each station shall be equipped with instruments and equipment that meet the specifications of the VER Forecasting Program and shall measure, collect, record, format, and communicate the data required under the VER Forecasting Program. Seller shall submit to Buyer for review and approval, which shall not be unreasonably withheld, its technical specifications for the meteorological station along with a site plan showing the location of the station within the Project. Seller shall correct any problems with such equipment as soon as practicable.

3.7 <u>Outage Notification</u>.

(a) <u>Planned Outages</u>. Seller shall schedule Planned Outages for the Project in accordance with Good Industry Practices and with the prior written consent of Buyer, which consent may not be unreasonably withheld or conditioned. The Parties acknowledge that in all circumstances, Good Industry Practices shall dictate when Planned Outages should occur. Seller shall notify Buyer of its proposed Planned Outage schedule for the Project for the following calendar year by submitting a written Planned Outage schedule no later than October 1st of each year during the Delivery Term. The Planned Outage schedule is subject to Buyer's approval, which approval may not be unreasonably withheld or conditioned. Buyer shall promptly respond

with its approval or with reasonable modifications to the Planned Outage schedule and Seller shall use its best efforts in accordance with Good Industry Practices to accommodate Buyer's requested modifications. Notwithstanding the submission of the Planned Outage schedule described above, Seller shall also submit a completed Outage Notification Form to Buyer no later than fourteen (14) days prior to each Planned Outage and all appropriate outage information or requests to the CAISO in accordance with the CAISO Tariff. Seller shall contact Buyer with any requested changes to the Planned Outage schedule if Seller believes the Project must be shut down to conduct maintenance that cannot be delayed until the next scheduled Planned Outage consistent with Good Industry Practices. Seller shall not change its Planned Outage schedule without Buyer's approval, not to be unreasonably withheld or conditioned. Seller shall use its best efforts in accordance with Good Industry Practices not to schedule Planned Outages during the months of July, August, September and October. At Buyer's request, Seller shall use commercially reasonable efforts to reschedule Planned Outage so that it may deliver Product during CAISO declared or threatened emergency periods. Seller shall not substitute Energy from any other source for the output of the Project during a Planned Outage.

(b) <u>Forced Outages</u>. Within *[When Seller is the SC for the Project:* Within two hours of any Forced Outage,] *[When SDG&E is the SC for the Project:* Within one-half of the notification time prescribed under the CAISO Tariff for Forced Outages,] Seller shall submit a completed Outage Notification Form to the Buyer in accordance with the instructions shown on the form and shall submit outage information to the CAISO in accordance with the CAISO Tariff *[When SDG&E is the SC for the Project:* and Section 3.3(b)(ii) above]. Seller shall not substitute Energy from any other source for the output of the Project during a Forced Outage.

(c) <u>Coordination with CAISO</u>. Seller shall be responsible *[When SDG&E is SC for the Project:* in accordance with Section 3.3(b)(ii)] for all outage coordination communications with the CAISO. Buyer shall cooperate with Seller in arranging and coordinating all Project outages with the CAISO.

3.8 Operations Logs and Access Rights.

(a) <u>Operations Logs</u>. Seller shall maintain a complete and accurate log of all material operations and maintenance information on a daily basis. Such log shall include, but not be limited to, information on power production, fuel consumption, efficiency, availability, maintenance performed, outages, results of inspections, manufacturer recommended services, replacements, electrical characteristics of the generators, control settings or adjustments of equipment and protective devices. Seller shall maintain this information for at least two (2) years and shall provide this information electronically to Buyer within one day of Buyer's request.

(b) <u>Access Rights</u>. Buyer, its authorized agents, employees and inspectors shall have the right of ingress to and egress from the Project during normal business hours upon reasonable advance Notice and for any purposes reasonably connected with this Agreement.

3.9 <u>Operating Procedures</u>. No later than forty-five (45) days before the Initial Delivery Date, and from time to time as reasonably determined necessary by the Parties, the Parties shall meet to address how each Party will perform its respective obligations under this Agreement, including, but not limited to: (1) the method of day-to-day communications; (2) key personnel lists

for each Party; (3) procedures for Forced Outage and Planned Outage reporting; (4) procedures for delivery forecasting; (5) procedures for record keeping; (6) Scheduling procedures; and (7) invoicing and payment procedures; provided, that the failure to agree on these operating procedures will not relieve the Parties of their respective obligations under this Agreement, and any failure to agree shall be resolved in accordance with the dispute resolution procedures in Article 12.

ARTICLE FOUR: COMPENSATION; MONTHLY PAYMENTS

4.1 [For Dispatchable Product Only: Capacity Payment.

(a) <u>Capacity Price</u>.

| Contract Year | Capacity Price (\$/KW) |
|------------------|---------------------------|
| 1 | |
| | |
| | |
| | |
| | |

(b) <u>Monthly Capacity Payment</u>. For each month, Buyer shall pay Seller for the Product the amount calculated as follows ("Monthly Capacity Payment"):

 $MCP = CC \times CP \times SF \times AAF$

Where:

MCP is the Monthly Capacity Payment expressed in Dollars for such month of the Delivery Term.

CC is the Contract Capacity, expressed in kW, rounded to the nearest 100 kW.

CP is the Capacity Price expressed in Dollars per kW-year, for the applicable month.

SF is the Monthly Shaping Factor for the applicable month, as set forth in the following table:

| Month | Monthly Shaping Factor (%) | |
|----------|----------------------------|--|
| January | 6.7 | |
| February | 5.0 | |
| March | 5.0 | |
| April | 5.8 | |
| May | 6.3 | |

| Month | Monthly Shaping Factor (%) |
|-----------|----------------------------|
| June | 8.3 |
| July | 15.8 |
| August | 17.5 |
| September | 11.7 |
| October | 5.8 |
| November | 5.8 |
| December | 6.3 |

AAF is the Availability Adjustment Factor for each month, expressed as a three-place decimal and determined as follows:

- (a) If the Equivalent Availability Factor ("EAF") for the month is less than or equal to 0.980, then the AAF equals EAF / 0.98.
- (b) If the EAF for the month is greater than 0.980 but less than 0.990, then the AAF equals 1.0.
- (c) If the EAF for the month is greater than or equal to 0.990, then the AAF equals EAF / 0.99.

EAF is the Equivalent Availability Factor for each month determined as follows:

EAF = (PH - (EDH - EEDH)) / PH

Where:

PH is the number of period hours;

EDH is the number of equivalent derate hours calculated as the sum, for each derate, of the product of the number of hours of full or partial derate hours times the size of the reduction from the Contract Capacity divided by the Contract Capacity for the month. For the purposes of this calculation, a derate includes all outages for any reason, including without limitation, Forced Outages, Force Majeure events, Dispatch Down Periods, Planned Outages, Buyer's failure to perform, and other times when any portion of the Contract Capacity is not available and when the Delivered Energy of the Project is less than the amount of Energy dispatched by Buyer; and

EEDH is the number of equivalent excused derate hours solely due to either Dispatch Down Periods or Buyer's

failure to perform (and for no other reason), calculated as the sum, for each excused derate, of the product of the number of hours of full or partial derate hours times the size of the reduction from the Contract Capacity, divided by the Contract Capacity for the month.

4.2 Energy Payment.

(a) <u>Energy Price</u>. The price for the Bundled Green Energy and Deemed Bundled Green Energy that is delivered to Buyer in each Contract Year shall be as follows ("Energy Price"):

| Contract Year | Energy Price (\$/MWh) |
|---------------|-----------------------|
| | |
| | |
| | |

provided, however, that:

(i) if Seller delivers Bundled Green Energy in the aggregate for any CAISO settlement interval (not to exceed one hour) in excess of the product of the Contract Capacity times the length of such settlement interval, expressed in hours, then the Energy Price for such excess Bundled Green Energy in such settlement interval shall be reduced to zero dollars (\$0), and if the real time Locational Marginal Price for the Delivery Point during such settlement interval is less than zero dollars (\$0), Seller shall pay to Buyer an amount equal to the absolute value of such negative Locational Marginal Price times such excess Bundled Green Energy;

(ii) if Seller delivers Bundled Green Energy plus Deemed Bundled Green Energy in the aggregate for any Contract Year during the Delivery Term in excess of one hundred fifteen percent (115%) of the annual Contract Quantity, then the Energy Price for such excess Bundled Green Energy and Deemed Bundled Green Energy, if any, for each settlement interval for the remainder of that Contract Year shall be reduced to zero dollars (\$0) and Seller shall be entitled to the CAISO revenues (including positive Locational Marginal Prices, credits and other payments) in respect of such excess amounts and Seller shall be responsible for the CAISO costs (including negative Locational Marginal Prices, penalties, sanctions and other charges) in respect of such excess amounts.

(iii) Reserved

(b) Reserved

(c) <u>Monthly Energy Payment</u>. For each month, Buyer shall pay Seller for the Product an amount equal to the sum for each hour in the month of the product of the Energy Price times the sum of Bundled Green Energy plus Deemed Bundled Green Energy in each hour ("Monthly Energy Payment").

Monthly Energy Payment = \sum Energy Price x (Bundled Green Energy + Deemed Bundled Green Energy)

For any period where the quantity of Bundled Green Energy is less than the quantity of Delivered Energy and the quantity of Bundled Green Energy cannot practicably be determined for each settlement interval during such period (for example, where WREGIS does not specify in which settlement intervals Renewable Energy Credits were delivered or not delivered), then the quantity of Bundled Green Energy for any settlement interval during the entire period shall be equal to the product of the quantity of Delivered Energy for a settlement interval multiplied by the quotient of the aggregate quantity of Green Attributes that are delivered to Buyer during such entire period divided by the aggregate quantity of Delivered Energy that is delivered to Buyer during such entire period.

4.3 <u>Imbalance Energy</u>. Seller shall use commercially reasonable efforts to deliver Energy in accordance with the Scheduled Energy. Buyer and Seller recognize that from time to time the amount of Delivered Energy will deviate from the amount of Scheduled Energy. When Delivered Energy minus Scheduled Energy is a positive amount, it shall be considered "Positive Imbalance Energy;" when Delivered Energy minus Scheduled Energy is a negative amount, the absolute (i.e., positive) value of that amount shall be considered the "Negative Imbalance Energy." *[When Seller is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program:* Seller shall be responsible for settlement of Imbalance Energy with the CAISO and all fees, liabilities, assessments, or similar charges assessed by the CAISO in connection with Imbalance Energy.] Buyer and Seller shall cooperate to minimize charges and imbalances associated with Imbalance Energy to the extent possible. Seller shall promptly notify Buyer as soon as possible of any material imbalance that is occurring or has occurred. *[When SDG&E is SC for the Project and Project is in the VER Forecasting Program:* Buyer shall receive all Green Attributes for the Positive Imbalance Energy in all settlement intervals.]

[When Seller is SC for the Project or when Buyer is SC but Project is not in the VER Forecasting Program, include the following two paragraphs:

(a) <u>Positive Imbalance Energy (Over Deliveries</u>). In the event that Delivered Energy for any CAISO settlement interval is equal to or greater than Scheduled Energy for such CAISO settlement interval, Buyer shall have no payment obligation in respect of the Positive Imbalance Energy. Buyer shall receive all Green Attributes for the Positive Imbalance Energy in such CAISO settlement interval regardless as to whether it was sold into the CAISO. Seller shall be entitled to all payments or credits from the CAISO to Seller's SC and Seller shall make all payments to the CAISO in respect of the Positive Imbalance Energy.

(b) <u>Negative Imbalance Energy (Under Deliveries</u>). In the event that Delivered Energy for any CAISO settlement interval is less than Scheduled Energy for such CAISO settlement interval, Buyer shall have no payment obligation in respect of the Negative Imbalance Energy. Seller shall make all payments to the CAISO and Seller shall be entitled to all payments or credits from the CAISO to Seller's SC in respect of the Negative Imbalance Energy required under the CAISO Tariff.]

4.4 <u>Additional Compensation</u>. To the extent not otherwise provided for in this Agreement, in the event that Seller is compensated by a third party for any Product produced by the Project, including, but not limited to, compensation for Resource Adequacy or Green Attributes, Seller shall remit all such compensation directly to Buyer; provided that for avoidance of doubt, nothing herein precludes Seller from retaining credits related to transmission upgrades funded by Seller.

ARTICLE FIVE: EVENTS OF DEFAULT; FORCE MAJEURE

5.1 <u>Events of Default</u>. An "Event of Default" shall mean,

(a) with respect to a Party that is subject to the Event of Default the occurrence of any of the following:

(i) the failure by such Party to make, when due, any payment required pursuant to this Agreement and such failure is not remedied within five (5) Business Days after Notice thereof;

(ii) any representation or warranty made by such Party herein is false or misleading in any material respect when made or when deemed made or repeated, and such default is not remedied within thirty (30) days after Notice thereof;

(iii) the failure by such Party to perform any material covenant or obligation set forth in this Agreement (except to the extent constituting a separate Event of Default, and except for such Party's unexcused failure to perform its obligations to Schedule, deliver, or receive (as applicable), or sell or purchase (as applicable) the Product for a period or a series of periods that is cumulatively no longer than thirty (30) days, the exclusive remedy for which is provided in Section 3.1(h)) and such failure is not remedied within thirty (30) days after Notice thereof;

(iv) the failure by such Party to perform its obligations to Schedule, deliver or receive (as applicable), or sell or purchase (as applicable) the Product for a period or a series of periods that is cumulatively longer than thirty (30) days and such failure is not excused as described in Section 3.1(h);

(v) such Party becomes Bankrupt;

(vi) such Party assigns this Agreement or any of its rights hereunder other than in compliance with Section 13.2; or

(vii) such Party consolidates or amalgamates with, or merges with or into, or transfers all or substantially all of its assets to, another entity and, at the time of such consolidation, amalgamation, merger or transfer, the resulting, surviving or transferee entity fails to assume all the obligations of such Party under this Agreement to which it or its predecessor was a party by operation of Law or pursuant to an agreement reasonably satisfactory to the other Party.

(b) with respect to Seller as the Defaulting Party, the occurrence of any of the following:

(i) if at any time, Seller delivers or attempts to deliver to the Delivery Point for sale under this Agreement Energy that was not generated by the Project *[If the Project is located outside of the CAISO:* other than Imbalance Energy from the Transmission Provider];

(ii) [For Baseload, Peaking, Dispatchable Product: the Contract Capacity at the Initial Delivery Date or at any other time pursuant to a Capacity Test is less than [] MW and such default is not remedied within thirty (30) days after Notice thereof;]

(iii) **[For Baseload, Peaking, As-Available Product:** the failure by Seller to achieve the Guaranteed Energy Production requirement during any Performance Measurement Period as set forth in Section 3.1(e) of this Agreement] **[For Dispatchable Product:** the Default Availability Factor of the Project is less than [____] percent for any rolling twelve (12) consecutive calendar month period];

(iv) failure by Seller to satisfy the collateral requirements pursuant to Sections 8.3 or 8.4 of this Agreement;

(v) with respect to any Guaranty provided for the benefit of Buyer, the failure by Seller to provide for the benefit of Buyer either (1) cash, (2) a replacement Guaranty from a different Guarantor meeting the criteria set forth in the definition of Guarantor, or (3) a replacement Letter of Credit from an issuer meeting the criteria set forth in the definition of Letter of Credit, in each case, in the amount required hereunder within five (5) Business Days after Seller receives Notice of the occurrence of any of the following events:

(A) if any representation or warranty made by the Guarantor in connection with this Agreement is false or misleading in any material respect when made or when deemed made or repeated, and such default is not remedied within thirty (30) days after Notice thereof;

(B) the failure of the Guarantor to make any payment required or to perform any other material covenant or obligation in any Guaranty;

(C) the Guarantor becomes Bankrupt;

(D) the Guarantor shall fail to meet the criteria for an acceptable Guarantor as set forth in the definition of Guarantor;

(E) the failure of the Guaranty to be in full force and effect (other than in accordance with its terms) prior to the indefeasible satisfaction of all obligations of Seller hereunder; or

(F) the Guarantor shall repudiate, disaffirm, disclaim, or reject, in whole or in part, or challenge the validity of any Guaranty; or

(vi) with respect to any outstanding Letter of Credit provided for the benefit of Buyer that is not then required under this Agreement to be canceled or returned, the failure by Seller to provide for the benefit of Buyer either (1) cash, or (2) a substitute Letter of Credit from a different issuer meeting the criteria set forth in the definition of Letter of Credit, in each case, in the amount required hereunder within five (5) Business Days after Seller receives Notice of the occurrence of any of the following events:

(A) the issuer of the outstanding Letter of Credit shall fail to maintain a Credit Rating of at least "A-" by S&P or "A3" by Moody's;

(B) the issuer of such Letter of Credit becomes Bankrupt;

(C) the issuer of the outstanding Letter of Credit shall fail to comply with or perform its obligations under such Letter of Credit and such failure shall be continuing after the lapse of any applicable grace period permitted under such Letter of Credit;

(D) the issuer of the outstanding Letter of Credit shall fail to honor a properly documented request to draw on such Letter of Credit;

(E) the issuer of the outstanding Letter of Credit shall disaffirm, disclaim, repudiate or reject, in whole or in part, or challenge the validity of, such Letter of Credit;

(F) such Letter of Credit fails or ceases to be in full force and effect at any time; or

(G) Seller shall fail to renew or cause the renewal of each outstanding Letter of Credit on a timely basis as provided in the relevant Letter of Credit and as provided in accordance with this Agreement, and in no event less than sixty (60) days prior to the expiration of the outstanding Letter of Credit.

5.2 <u>Remedies</u>; <u>Declaration of Early Termination Date</u>. If an Event of Default with respect to a Defaulting Party shall have occurred and be continuing, the other Party ("Non-Defaulting Party") shall have the right (a) to send Notice, designating a day, no earlier than the day such Notice is deemed to be received and no later than twenty (20) days after such Notice is deemed to be received, as an early termination date of this Agreement ("Early Termination Date") that terminates this Agreement and ends the Delivery Term effective as of the Early Termination Date, to accelerate all amounts owing between the Parties, and to collect liquidated damages calculated in accordance with Section 5.3 below ("Termination Payment"); (b) to withhold any payments due to the Defaulting Party under this Agreement; (c) to suspend performance; and (d) to exercise any other right or remedy available at law or in equity, including specific performance or injunctive relief, except to the extent such remedies are expressly limited under this Agreement.

5.3 Termination Payment. The Termination Payment for a Terminated Transaction shall be the aggregate of all Settlement Amounts plus any and all other amounts due to the Non-Defaulting Party netted into a single amount. Except in the case of a termination of this Agreement by the Non-Defaulting Party solely as a result of an Event of Default by the Defaulting Party under Section 5.1(a)(iv) [Bankruptcy], if the Non-Defaulting Party's aggregate Gains exceed its aggregate Losses and Costs, if any, resulting from the termination of this Agreement, the Termination Payment shall be zero. The Non-Defaulting Party shall calculate, in a commercially reasonable manner, a Settlement Amount for the Terminated Transaction as of the Early Termination Date. Third parties supplying information for purposes of the calculation of Gains or Losses may include, without limitation, dealers in the relevant markets, end-users of the relevant product, information vendors and other sources of market information. The Settlement Amount shall not include consequential, incidental, punitive, exemplary, indirect or business interruption damages; provided, however, that any lost Capacity Attributes and Green Attributes shall be deemed direct damages covered by this Agreement. Without prejudice to the Non-Defaulting Party's duty to mitigate, the Non-Defaulting Party shall not have to enter into replacement transactions to establish a Settlement Amount. Each Party agrees and acknowledges that (a) the actual damages that the Non-Defaulting Party would incur in connection with a Terminated Transaction would be difficult or impossible to predict with certainty, (b) the Termination Payment described in this section is a reasonable and appropriate approximation of such damages, and (c) the Termination Payment described in this section is the exclusive remedy of the Non-Defaulting Party in connection with a Terminated Transaction but shall not otherwise act to limit any of the Non-Defaulting Party's rights or remedies if the Non-Defaulting Party does not elect a Terminated Transaction as its remedy for an Event of Default by the Defaulting Party.

5.4 <u>Notice of Payment of Termination Payment</u>. As soon as practicable after a Terminated Transaction, Notice shall be given by the Non-Defaulting Party to the Defaulting Party of the amount of the Termination Payment and whether the Termination Payment is due to the Non-Defaulting Party. The Notice shall include a written statement explaining in reasonable detail the calculation of such amount and the sources for such calculation. The Termination Payment shall be made to the Non-Defaulting Party, as applicable, within ten (10) Business Days after such Notice is effective.

5.5 <u>Disputes With Respect to Termination Payment</u>. If the Defaulting Party disputes the Non-Defaulting Party's calculation of the Termination Payment, in whole or in part, the Defaulting Party shall, within five (5) Business Days of receipt of the Non-Defaulting Party's calculation of the Termination Payment, provide to the Non-Defaulting Party a detailed written explanation of the basis for such dispute. Disputes regarding the Termination Payment shall be determined in accordance with Article 12.

5.6 <u>Rights And Remedies Are Cumulative</u>. Except where liquidated damages are provided as the exclusive remedy, the rights and remedies of a Party pursuant to this Article 5 shall be cumulative and in addition to the rights of the Parties otherwise provided in this Agreement.

5.7 <u>Mitigation</u>. Any Non-Defaulting Party shall be obligated to mitigate its Costs, losses and damages resulting from any Event of Default of the other Party under this Agreement.

Force Majeure. To the extent either Party is prevented by Force Majeure from 5.8 carrying out, in whole or part, its obligations under this Agreement and such Party gives Notice and details of the Force Majeure to the other Party as detailed below, then, the Party impacted by Force Majeure shall be excused from the performance of its obligations to the extent impacted. Within forty-eight (48) hours of commencement of an event of Force Majeure, the non-performing Party shall provide the other Party with oral notice of the event of Force Majeure, and within two (2) weeks of the commencement of an event of Force Majeure the non-performing Party shall provide the other Party with Notice in the form of a letter describing in detail the particulars of the occurrence giving rise to the Force Majeure claim. Seller shall not substitute Product from any other source for the output of the Project during an outage resulting from Force Majeure. The suspension of performance due to a claim of Force Majeure must be of no greater scope and of no longer duration than is required by the Force Majeure. Buyer shall not be required to make any payments for any Product that Seller fails to Schedule, deliver or provide as a result of Force Majeure during the term of a Force Majeure. This Agreement may be terminated by the nonclaiming Party with no further obligation to the Force-Majeure-claiming Party if a Force Majeure event prevents the performance of a material portion of the obligations of the Force-Majeureclaiming Party hereunder and such Force Majeure event is not resolved within eight (8) months after the commencement of such Force Majeure event.

ARTICLE SIX: PAYMENT

Billing and Payment. On or about the tenth (10th) day of each month beginning 6.1 with the second month of the first Contract Year and every month thereafter, and continuing through and including the first month following the end of the Delivery Term, Seller shall provide to Buyer (a) records of metered data, including CAISO metering and transaction data sufficient to document and verify the generation of Product by the Project for any CAISO settlement time interval during the preceding months, (b) access to any records, including invoices or settlement data from CAISO, necessary to verify the invoice; and (c) an invoice, in a format reasonably specified by Buyer, covering the services provided in the preceding month determined in accordance with Article 4 (which may include preceding months), with all component charges and unit prices identified and all calculations used to arrive at invoiced amounts described in reasonable detail. Buyer shall pay the undisputed amount of such invoices on or before thirty (30) days after receipt of the invoice. If either the invoice date or payment date is not a Business Day, then such invoice or payment shall be provided on the next following Business Day. Each Party will make payments by electronic funds transfer, or by other mutually agreeable method(s), to the account designated by the other Party. Any undisputed amounts not paid by the due date will be deemed delinquent and will accrue interest at the Default Rate, such interest to be calculated from and including the due date to but excluding the date the delinquent amount is paid in full. Invoices should be compiled in the form of an Excel spreadsheet or other electronic form acceptable to Buyer and may be sent by facsimile or e-mail.

6.2 Disputes and Adjustments of Invoices. A Party may, in good faith, dispute the correctness of any invoice or any adjustment to an invoice, rendered under this Agreement or adjust any invoice for any arithmetic or computational error within twelve (12) months of the date the invoice, or adjustment to an invoice, was rendered. In the event an invoice or portion thereof, or any other claim or adjustment arising hereunder, is disputed, payment of the undisputed portion of the invoice shall be required to be made when due. Any invoice dispute or invoice adjustment shall be in writing and shall state the basis for the dispute or adjustment. Payment of the disputed amount shall not be required until the dispute is resolved. Upon resolution of the dispute, any required payment shall be made within two (2) Business Days of such resolution along with interest accrued at the Default Rate from and including the original due date to but excluding the date paid. Inadvertent overpayments shall be returned upon request or deducted by the Party receiving such overpayment from subsequent payments, with interest accrued at the Interest Rate from and including the date of such overpayment to but excluding the date repaid or deducted by the Party receiving such overpayment. Any dispute with respect to an invoice is waived if the other Party is not notified in accordance with this Section 6.2 within twelve (12) months after the invoice is rendered or subsequently adjusted, except to the extent any misinformation was from a third party not Affiliated with any Party and such third party corrects its information after the twelve-month period. If an invoice is not rendered within twelve (12) months after the close of the month during which performance occurred, the right to payment for such performance is waived.

6.3 <u>Netting of Payments</u>. The Parties hereby agree that they shall discharge mutual debts and payment obligations due and owing to each other on the same date through netting, in which case all amounts owed by each Party to the other Party for the purchase and sale of Product during the monthly billing period under this Agreement, including any related damages calculated

pursuant to Section 3.1(h), interest, and payments or credits, shall be netted so that only the excess amount remaining due shall be paid by the Party who owes it.

ARTICLE SEVEN: LIMITATIONS

Limitation of Remedies, Liability and Damages. EXCEPT AS SET FORTH 7.1 HEREIN, THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ANY AND ALL IMPLIED WARRANTIES ARE DISCLAIMED. THE PARTIES CONFIRM THAT THE EXPRESS REMEDIES AND MEASURES OF DAMAGES PROVIDED IN THIS AGREEMENT SATISFY THE ESSENTIAL PURPOSES HEREOF. FOR BREACH OF ANY PROVISION FOR WHICH AN EXPRESS REMEDY OR MEASURE OF DAMAGES IS PROVIDED, SUCH EXPRESS REMEDY OR MEASURE OF DAMAGES SHALL BE THE SOLE AND EXCLUSIVE REMEDY, THE OBLIGOR'S LIABILITY SHALL BE LIMITED AS SET FORTH IN SUCH PROVISION AND ALL OTHER REMEDIES OR DAMAGES AT LAW OR IN EQUITY ARE WAIVED, UNLESS THE PROVISION IN QUESTION PROVIDES THAT THE EXPRESS REMEDIES ARE IN ADDITION TO OTHER REMEDIES THAT MAY BE AVAILABLE. EXCEPT FOR A PARTY'S INDEMNITY OBLIGATION IN RESPECT OF THIRD PARTY CLAIMS OR AS OTHERWISE EXPRESSLY HEREIN PROVIDED, NEITHER PARTY SHALL BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR INDIRECT DAMAGES, LOST PROFITS OR OTHER BUSINESS INTERRUPTION DAMAGES, BY STATUTE, IN TORT OR CONTRACT, UNDER ANY INDEMNITY PROVISION OR OTHERWISE. UNLESS EXPRESSLY HEREIN PROVIDED, AND SUBJECT TO THE PROVISIONS OF SECTION 11.2 (INDEMNITIES), IT IS THE INTENT OF THE PARTIES THAT THE LIMITATIONS HEREIN IMPOSED ON REMEDIES AND THE MEASURE OF DAMAGES BE WITHOUT REGARD TO THE CAUSE OR CAUSES RELATED THERETO, INCLUDING THE NEGLIGENCE OF ANY PARTY, WHETHER SUCH NEGLIGENCE BE SOLE, JOINT OR CONCURRENT, OR ACTIVE OR PASSIVE. TO THE EXTENT ANY DAMAGES REQUIRED TO BE PAID HEREUNDER ARE LIQUIDATED, THE PARTIES ACKNOWLEDGE THAT THE DAMAGES ARE DIFFICULT OR IMPOSSIBLE TO DETERMINE, OR OTHERWISE OBTAINING AN ADEQUATE REMEDY IS INCONVENIENT AND THE DAMAGES CALCULATED HEREUNDER CONSTITUTE A REASONABLE APPROXIMATION OF THE HARM OR LOSS.

ARTICLE EIGHT: CREDIT AND COLLATERAL REQUIREMENTS

8.1 <u>Buyer Financial Information</u>. If requested by Seller, Buyer shall deliver (i) within one hundred twenty (120) days following the end of each fiscal year, a copy of Buyer's annual report containing audited consolidated financial statements for such fiscal year and (ii) within sixty (60) days after the end of each of its first three fiscal quarters of each fiscal year, a copy of Buyer's quarterly report containing unaudited consolidated financial statements for such fiscal quarter. In all cases the statements shall be for the most recent accounting period and prepared in accordance with generally accepted accounting principles; provided, however, that should any such statements not be available on a timely basis due to a delay in preparation or certification, such delay shall not be an Event of Default so long as Buyer diligently pursues the preparation, certification and delivery of the statements. Buyer shall be deemed to have satisfied such delivery requirement if the applicable report is publicly available. 8.2 <u>Seller Financial Information</u>. Seller shall provide the following financial information:

(a) If requested by Buyer, Seller shall deliver (i) within one hundred twenty (120) days following the end of each fiscal year, a copy of Seller's annual report containing audited consolidated financial statements for such fiscal year and (ii) within sixty (60) days after the end of each of its first three fiscal quarters of each fiscal year, a copy of Seller's quarterly report containing unaudited consolidated financial statements for such fiscal quarter. In all cases the statements shall be for the most recent accounting period and prepared in accordance with generally accepted accounting principles; provided, however, that should any such statements not be available on a timely basis due to a delay in preparation or certification, such delay shall not be an Event of Default so long as Seller diligently pursues the preparation, certification and delivery of the statements.

(b) **[If a Guaranty may be provided:** If a Guaranty is provided and if requested by Buyer, Seller shall deliver (i) within one hundred twenty (120) days following the end of each fiscal year, a copy of Guarantor's annual report containing audited consolidated financial statements for such fiscal year and (ii) within sixty (60) days after the end of each of its first three fiscal quarters of each fiscal year, a copy of Guarantor's quarterly report containing unaudited consolidated financial statements for such fiscal quarter certified by an officer of Guarantor. In all cases the statements shall be for the most recent accounting period and prepared in accordance with generally accepted accounting principles; provided, however, that should any such statements not be available on a timely basis due to a delay in preparation or certification, such delay shall not be an Event of Default so long as Guarantor diligently pursues the preparation, certification and delivery of the statements. Seller shall be deemed to have satisfied such delivery requirement if the applicable report is publicly available.]

Grant of Security Interest/Remedies. To secure its obligations under this 8.3 Agreement and to the extent Seller delivers Performance Assurance hereunder, Seller hereby grants to Buyer a present and continuing first priority security interest in, and lien on (and right of setoff against), and assignment of, all cash collateral and cash equivalent collateral and any and all proceeds resulting therefrom or the liquidation thereof, whether now or hereafter held by, on behalf of, or for the benefit of, Buyer, and each Party agrees to take such action as the other Party reasonably requires in order to perfect the Buyer's first-priority security interest in, and lien on (and right of setoff against), such collateral and any and all proceeds resulting therefrom or from the liquidation thereof. Upon or any time after the occurrence and during the continuation of an Event of Default by Seller or an Early Termination Date as a result thereof, Buyer may do any one or more of the following: (i) exercise any of the rights and remedies of a secured party with respect to all Performance Assurance, including any such rights and remedies under Law then in effect; (ii) exercise its rights of setoff against such collateral and any and all proceeds resulting therefrom or from the liquidation thereof; (iii) draw on any outstanding Letter of Credit issued for its benefit; and (iv) liquidate all or any portion of any Performance Assurance then held by or for the benefit of Buyer free from any claim or right of any nature whatsoever of Seller, including any equity or right of purchase or redemption by Seller. Buyer shall apply the proceeds of the collateral realized upon the exercise of any such rights or remedies to reduce the Seller's obligations under the Agreement (Seller remaining liable for any amounts owing to Buyer after such application),

subject to Buyer's obligation to return any surplus proceeds remaining after such obligations are satisfied in full.

8.4 <u>Performance Assurance</u>.

(a) *[For Agreements with Delivery Terms greater than two years:* <u>CPUC</u> <u>Approval Security,]</u> Pre-Delivery Term <u>Security, Delivery Term Security</u>. To secure its obligations under this Agreement Seller agrees to deliver to Buyer and maintain in full force and effect for the period set forth below, the following Performance Assurance:

(i) *[For Agreements with Delivery Terms greater than two years:* CPUC Approval Security, in the amount of [_____] in the form of cash or a Letter of Credit [or a Guaranty] from the Execution Date of this Agreement until the return date specified in Section 8.4(b)(i) below;]

(ii) Pre-Delivery Term Security in the amount of [____] in the form of cash or a Letter of Credit [or a Guaranty] from *[For Agreements with Delivery Terms greater than two years:* the CPUC Approval Date] *[For all other Agreements:* the Execution Date of this Agreement] until the return date specified in Section 8.4(b)[(i)/(ii)] below;

(iii) Delivery Term Security in the amount of [____] in the form of cash or a Letter of Credit [or a Guaranty] from the commencement of the Delivery Term until the return date specified in Section 8.4(b)[(ii)/(iii)] below.

Except as set forth in Section 2.2 as it pertains to [*For Agreements with Delivery Terms greater than two years:* the CPUC Approval Security and] the Pre-Delivery Term Security, any such Performance Assurance shall not be deemed a limitation of damages.

(b) <u>Return of Performance Assurance</u>.

(i) *[For Agreements with Delivery Terms greater than two years:* Buyer shall promptly return to Seller the unused portion of the CPUC Approval Security after the earlier of (A) the date on which Seller has delivered the Pre-Delivery Term Security or the Delivery Term Security, as applicable, and (B) termination of the Agreement under Section 2.4(b)(ii).

(ii) Buyer shall promptly return to Seller the unused portion of the Pre-Delivery Term Security after the earlier of (A) the date on which Seller has delivered the Delivery Term Security, (B) termination of the Agreement under Section 2.4(b)(ii), and (C) the date that all payment obligations of the Seller arising under this Agreement, including compensation for penalties, Termination Payment, indemnification payments or other damages are paid in full (whether directly or indirectly such as through set-off or netting) after an Early Termination Date.

(iii) Buyer shall promptly return to Seller the unused portion of the Delivery Term Security after the following have occurred: (A) the Delivery Term has expired or terminated early; and (B) all payment obligations of the Seller arising under this Agreement, including compensation for penalties, Termination Payment, indemnification payments or other damages are paid in full (whether directly or indirectly such as through set-off or netting).

8.5 <u>Interest on Cash</u>. If Seller provides Performance Assurance in the form of cash, Buyer shall pay interest on such cash held as *[For Agreements with Delivery Terms greater than two years:* CPUC Approval Security,] Pre-Delivery Term Security, or Delivery Term Security, as applicable, at the Interest Rate. On or before each Interest Payment Date, Buyer shall transfer the sum of all accrued and unpaid Interest Amounts due to Seller for such security in the form of cash by wire transfer to the bank account specified under "Wire Transfer" in the Cover Sheet.

8.6 <u>Costs of Letter of Credit</u>. If Seller provides Performance Assurance in the form of a Letter of Credit, in all cases, the reasonable costs and expenses of (including but not limited to the reasonable costs, expenses, and attorneys' fees, including reasonably allocated costs of inhouse counsel of the Buyer) establishing, renewing, substituting, canceling, increasing and reducing the amount of (as the case may be) one or more Letters of Credit shall be borne by the Seller.

ARTICLE NINE: GOVERNMENTAL CHARGES

9.1 <u>Cooperation</u>. Each Party shall use reasonable efforts to implement the provisions of and to administer this Agreement in accordance with the intent of the Parties to minimize all taxes, so long as neither Party is materially adversely affected by such efforts.

9.2 <u>Governmental Charges</u>. Seller shall pay or cause to be paid all taxes imposed by any governmental authority ("Governmental Charges") on or with respect to the Product or the transaction under this Agreement arising prior to and at the Delivery Point, including, but not limited to, ad valorem taxes and other taxes attributable to the Project, land, land rights or interests in land for the Project. Buyer shall pay or cause to be paid all Governmental Charges on or with respect to the Product or the transaction under this Agreement from the Delivery Point. In the event Seller is required by Law or regulation to remit or pay Governmental Charges which are Buyer's responsibility hereunder, Buyer shall promptly reimburse Seller for such Governmental Charges. If Buyer is required by Law or regulation to remit or pay Governmental Charges which are Seller's responsibility hereunder, Buyer may deduct such amounts from payments to Seller with respect to payments under the Agreement; if Buyer elects not to deduct such amounts from Seller's payments, Seller shall promptly reimburse Buyer for such amounts upon request. Nothing shall obligate or cause a Party to pay or be liable to pay any Governmental Charges for which it is exempt under the Law.

ARTICLE TEN: REPRESENTATIONS AND WARRANTIES; COVENANTS

10.1 <u>General Representations and Warranties</u>. On the Execution Date and the CP Satisfaction Date, each Party represents and warrants to the other Party that:

(a) it is duly organized, validly existing and in good standing under the Laws of the jurisdiction of its formation;

(b) it has all Governmental Approvals necessary for it to perform its obligations under this Agreement, except for as of the Execution Date (i) CPUC Approval in the case of Buyer, and (ii) all Governmental Approvals necessary to construct, operate and maintain the Project and related interconnection facilities in the case of Seller; (c) the execution, delivery and performance of this Agreement is within its powers, have been duly authorized by all necessary action and do not violate any of the terms and conditions in its governing documents, any contracts to which it is a party or any applicable Law;

(d) this Agreement and each other document executed and delivered in accordance with this Agreement constitutes a legally valid and binding obligation enforceable against it in accordance with its terms, subject to any Equitable Defenses;

(e) it is not Bankrupt and there are no proceedings pending or being contemplated by it or, to its knowledge, threatened against it which would result in it being or becoming Bankrupt;

(f) except as may be set forth in its reports filed with the SEC, there is not pending or, to its knowledge, threatened against it or any of its Affiliates any legal proceedings that could materially adversely affect its ability to perform its obligations under this Agreement;

(g) no Event of Default with respect to it has occurred and is continuing and no such event or circumstance would occur as a result of its entering into or performing its obligations under this Agreement;

(h) it is acting for its own account, has made its own independent decision to enter into this Agreement and as to whether this Agreement is appropriate or proper for it based upon its own judgment, is not relying upon the advice or recommendations of the other Party in so doing, and is capable of assessing the merits of and understanding, and understands and accepts, the terms, conditions and risks of this Agreement; and

(i) it has entered into this Agreement in connection with the conduct of its business and it has the capacity or the ability to make or take delivery of the Product as provided in this Agreement.

10.2 Seller Representations and Warranties.

(a) Seller, and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement that: (i) the Project qualifies and is certified by the CEC as an Eligible Renewable Energy Resource ("ERR") as such term is defined in Public Utilities Code Section 399.12 or Section 399.16; and (ii) the Project's output delivered to Buyer qualifies under the requirements of the California Renewables Portfolio Standard. To the extent a change in Law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in Law.

(b) Seller and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement the Renewable Energy Credits transferred to Buyer conform to the definition and attributes required for compliance with the California Renewables Portfolio Standard, as set forth in CPUC Decision 08-08-028, and as may be modified by subsequent decision of the CPUC or by subsequent legislation. To the extent a change in Law occurs after execution of this Agreement that causes this representation and warranty to be

materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in Law.

(c) [Include other appropriate representations, warranties, and covenants to satisfy the California RPS content category requirements.]

10.3 <u>Covenants</u>.

(a) <u>General Covenants</u>. Each Party covenants that throughout the Delivery Term:

(i) it shall continue to be duly organized, validly existing and in good standing under the Laws of the jurisdiction of its formation;

(ii) it shall maintain (or obtain from time to time as required, including through renewal, as applicable) all Governmental Approvals necessary for it to legally perform its obligations under this Agreement;

(iii) it shall perform its obligations under this Agreement in a manner that does not violate any of the terms and conditions in its governing documents, any contracts to which it is a party or any applicable Law; and

(iv) it shall not dispute its status as a "forward contract merchant" within the meaning of the United States Bankruptcy Code.

(b) <u>Seller Covenants</u>.

(i) Seller covenants throughout the Delivery Term that it, or its permitted successors or assigns, shall maintain ownership of a fee, easement, long-term leasehold interest, or other similar asset ownership interest in the Project.

(ii) Seller covenants throughout the Delivery Term that it shall maintain market based rate authority from the FERC to sell Product to Buyer under the terms of this Agreement.

(iii) If at any time during the Delivery Term, Seller's representations and warranties set forth in Section 10.2 become materially false or misleading, Seller covenants that it shall provide prompt Notice to Buyer describing such default along with a description of its efforts to cure such default.

(iv) [Include other appropriate representations, warranties, and covenants to satisfy the California RPS content category requirements.]

(v) [Include other appropriate covenants regarding the use of contractors that may be diverse business enterprises.]

ARTICLE ELEVEN: TITLE, RISK OF LOSS, INDEMNITIES

11.1 <u>Title and Risk of Loss</u>. Title to and risk of loss related to the Product shall transfer from Seller to Buyer at the Delivery Point. Seller warrants that it will deliver to Buyer the Product free and clear of all liens, security interests, claims and encumbrances or any interest therein or thereto by any person arising prior to or at the Delivery Point.

11.2 <u>Indemnities</u>.

Indemnity by Seller. Seller shall release, indemnify, defend, and hold (a) harmless Buyer, its Affiliates, and its and their directors, officers, employees, agents, and representatives against and from any and all actions, suits, losses, costs, damages, injuries, liabilities, claims, demands, penalties and interest, including reasonable costs and attorneys' fees ("Claims") resulting from, or arising out of or in any way connected with (i) any event, circumstance, act, or incident relating to the Product delivered under this Agreement up to and at the Delivery Point, (ii) Seller's development, permitting, construction, ownership, operation and/or maintenance of the Project, (iii) the failure by Seller or the failure of the Project to comply with applicable Law, including without limitation the CAISO Tariff, (iv) any Governmental Charges for which Seller is responsible hereunder, or (v) any liens, security interests, encumbrances, or other adverse claims against the Product delivered hereunder made by, under, or through Seller, in all cases including, without limitation, any Claim for or on account of injury, bodily or otherwise, to or death of persons, or for damage to or destruction of property belonging to Buyer, Seller, or others, excepting only such Claim to the extent caused by the willful misconduct or gross negligence of Buyer, its Affiliates, and its and their directors, officers, employees, agents, and representatives.

(b) <u>Indemnity by Buyer</u>. Buyer shall release, indemnify, defend, and hold harmless Seller, its Affiliates, and its and their directors, officers, employees, agents, and representatives against and from any and all Claims resulting from, or arising out of or in any way connected with (i) any event, circumstance, act, or incident relating to the Product received by Buyer under this Agreement after the Delivery Point, (ii) the failure by Buyer to comply with applicable Law, including without limitation the CAISO Tariff, or (iii) any Governmental Charges for which Buyer is responsible hereunder, in all cases including, without limitation, any Claim for or on account of injury, bodily or otherwise, to or death of persons, or for damage to or destruction of property belonging to Buyer, Seller, or others, excepting only such Claim to the extent caused by the willful misconduct or gross negligence of Seller, its Affiliates, and its and their directors, officers, employees, agents, and representatives.

ARTICLE TWELVE: DISPUTE RESOLUTION

12.1 <u>Intent of the Parties</u>. Except as provided in the next sentence, the sole procedure to resolve any claim arising out of or relating to this Agreement or any related agreement is the dispute resolution procedure set forth in this Article 12. Either Party may seek a preliminary injunction or other provisional judicial remedy if such action is necessary to prevent irreparable harm or preserve the status quo, in which case both Parties nonetheless will continue to pursue resolution of the dispute by means of the dispute resolution procedure set forth in this Article 12.

12.2 <u>Management Negotiations</u>.

(a) The Parties will attempt in good faith to resolve any controversy or claim arising out of or relating to this Agreement or any related agreements by prompt negotiations between each Party's authorized representative designated in writing as a representative of the Party (each a "Manager"). Either Manager may, by Notice to the other Party, request a meeting to initiate negotiations to be held within ten (10) Business Days of the other Party's receipt of such request, at a mutually agreed time and place (either in person or telephonically). If the matter is not resolved within fifteen (15) Business Days of their first meeting ("Initial Negotiation End Date"), the Managers shall refer the matter to the designated senior officers of their respective companies that have authority to settle the dispute ("Executive(s)"). Within five (5) Business Days of the Initial Negotiation End Date ("Referral Date"), each Party shall provide one another Notice confirming the referral and identifying the name and title of the Executive who will represent the Party.

(b) Within five (5) Business Days of the Referral Date, the Executives shall establish a mutually acceptable location and date, which date shall not be greater than thirty (30) days from the Referral Date, to meet. After the initial meeting date, the Executives shall meet, as often as they reasonably deem necessary, to exchange relevant information and to attempt to resolve the dispute.

(c) All communication and writing exchanged between the Parties in connection with these negotiations shall be confidential and shall not be used or referred to in any subsequent binding adjudicatory process between the Parties.

(d) If the matter is not resolved within forty-five (45) days of the Referral Date, or if the Party receiving the Notice to meet, pursuant to Section 12.2(a) above, refuses or does not meet within the ten (10) Business Day period specified in Section 12.2(a) above, either Party may initiate arbitration of the controversy or claim by providing Notice of a demand for binding arbitration at any time thereafter.

12.3 <u>Arbitration</u>. Any dispute that cannot be resolved by management negotiations as set forth in Section 12.2 above shall be resolved through binding arbitration by a retired judge or justice from the [AAA][JAMS] panel conducted in San Diego, California, administered by and in accordance with [AAA's Commercial Arbitration Rules] [JAMS [Comprehensive][Streamlined] Arbitration Rules and Procedures] ("Arbitration").

(a) Any arbitrator shall have no affiliation with, financial or other interest in, or prior employment with either Party and shall be knowledgeable in the field of the dispute. The Parties shall cooperate with one another in selecting the arbitrator within sixty (60) days after Notice of the demand for arbitration. If, notwithstanding their good faith efforts, the Parties are unable to agree upon a mutually-acceptable arbitrator, the arbitrator shall be appointed as provided for in [AAA's Commercial Arbitration Rules] [JAMS [Comprehensive][Streamlined] Arbitration Rules and Procedures].

(b) At the request of a Party, the arbitrator shall have the discretion to order depositions of witnesses to the extent the arbitrator deems such discovery relevant and appropriate.

Depositions shall be limited to a maximum of three (3) per Party and shall be held within thirty (30) days of the making of a request. Additional depositions may be scheduled only with the permission of the arbitrator, and for good cause shown. Each deposition shall be limited to a maximum of six (6) hours duration unless otherwise permitted by the arbitrator for good cause shown. All objections are reserved for the Arbitration hearing except for objections based on privilege and proprietary and confidential information. The arbitrator shall also have discretion to order the Parties to exchange relevant documents. The arbitrator shall also have discretion to order the Parties to answer interrogatories, upon good cause shown.

(c) The arbitrator shall have no authority to award punitive or exemplary damages or any other damages other than direct and actual damages and the other remedies contemplated by this Agreement.

(d) The arbitrator shall prepare in writing and provide to the Parties an award including factual findings and the reasons on which their decision is based.

(e) The arbitrator's award shall be made within nine (9) months of the filing of the notice of intention to arbitrate (demand) and the arbitrator shall agree to comply with this schedule before accepting appointment. However, this time limit may be extended by agreement of the Parties or by the arbitrator, if necessary.

(f) Judgment on the award may be entered in any court having jurisdiction.

(g) The prevailing Party in this dispute resolution process is entitled to recover its costs. Until such award is made, however, the Parties shall share equally in paying the costs of the Arbitration.

(h) The arbitrator shall have the authority to grant dispositive motions prior to the commencement of or following the completion of discovery if the arbitrator concludes that there is no material issue of fact pending before the arbitrator.

(i) The existence, content, and results of any Arbitration hereunder is confidential information that is subject to the provisions of Section 13.1.

ARTICLE THIRTEEN: MISCELLANEOUS

13.1 <u>Confidentiality</u>.

(a) <u>General</u>. Neither Party shall disclose the non-public terms or conditions of this Agreement or any transaction hereunder to a third party, other than (i) the Party's Affiliates and its and their officers, directors, employees, lenders, counsel, accountants or advisors who have a need to know such information and have agreed to keep such terms confidential, (ii) for disclosure to the Buyer's Procurement Review Group, as defined in CPUC Decision (D) 02-08-071, subject to a confidentiality agreement, (iii) to the CPUC under seal for purposes of review, (iv) disclosure of terms specified in and pursuant to Section 13.1(b) of this Agreement; (v) in order to comply with any applicable Law, regulation, or any exchange, control area or CAISO rule, or order issued by a court or entity with competent jurisdiction over the disclosing Party ("Disclosing Party"), other than to those entities set forth in subsection (vi); or (vi) in order to comply with any

applicable regulation, rule, or order of the CPUC, CEC, or the Federal Energy Regulatory Commission. In connection with requests made pursuant to clause (v) of this Section 13.1(a) ("Disclosure Order") each Party shall, to the extent practicable, use reasonable efforts to prevent or limit such disclosure. After using such reasonable efforts, the Disclosing Party shall not be: (i) prohibited from complying with a Disclosure Order or (ii) liable to the other Party for monetary or other damages incurred in connection with the disclosure of the confidential information. Except as provided in the preceding sentence, the Parties shall be entitled to all remedies available at law or in equity to enforce, or seek relief in connection with, this confidentiality obligation.

(b) <u>RPS Confidentiality</u>. Notwithstanding Section 13.1(a) of this Agreement, at any time on or after the date on which the Buyer makes its filing seeking CPUC Approval for this Agreement, either Party shall be permitted to disclose the following terms with respect to this Agreement: Party names, resource type, Delivery Term, Project location, Contract Capacity, anticipated Initial Delivery Date, Contract Quantity, and Delivery Point.

(c) <u>Publicity</u>. Except as otherwise agreed to in this Section 13.1 above, no announcement, publicity, advertising, press release, promotional or marketing materials regarding the arrangement contemplated under this Agreement, including the existence hereof, shall be made by either Party without the prior written approval of the other Party which approval shall not be unreasonably withheld or delayed.

Assignment. Neither Party shall assign this Agreement or its rights hereunder 13.2 without the prior written consent of the other Party, which consent shall not be unreasonably withheld. For purposes hereof, the transfer of more than fifty percent (50%) of the equity ownership or voting interest of Seller (or any parent entity holding directly or indirectly at least fifty percent (50%) of the equity ownership or voting interest of Seller if such interest constitutes more than twenty percent (20%) of the fair market value of the assets of such parent entity) to a person that is not an Affiliate of Seller shall also constitute an assignment of this Agreement requiring Buyer's prior written consent. Notwithstanding the foregoing, either Party may, without the consent of the other Party (and without relieving itself from liability hereunder), transfer, sell, pledge, encumber, or assign this Agreement or the accounts, revenues or proceeds hereof to its financing providers. In connection with any financing or refinancing of the Project by Seller, Buyer shall in good faith negotiate and agree upon a consent to collateral assignment of this Agreement in a form that is commercially reasonable and customary in the industry. Notwithstanding the foregoing, Buyer may, without the consent of the Seller (and therefor relieving itself from liability hereunder), assign this Agreement to a Qualified Assignee. Qualified Assignee shall mean: any community choice aggregation entity or joint powers authority formed in the State of California or any legal entity that is established by statute or by the CPUC to serve load as a central procurement entity. Notwithstanding the foregoing, Buyer may, without the consent of the Seller (and thereby relieving itself from liability hereunder), assign this Agreement to a Qualified Assignee. Qualified Assignee shall mean: any community choice aggregation entity or joint powers authority formed in the State of California or any legal entity that is established by statute or by the CPUC to serve load as a central procurement entity. Any assignment in violation of this Section 25.5 shall be null and void.

13.3 <u>Audit</u>. Each Party has the right, at its sole expense and during normal working hours, to examine the records of the other Party to the extent reasonably necessary to verify the

accuracy of any statement, charge or computation made pursuant to this Agreement including amounts of Delivered Energy or Scheduled Energy. If any such examination reveals any inaccuracy in any statement, the necessary adjustments in such statement and the payments thereof will be made promptly and shall bear interest calculated at the Default Rate from the date the overpayment or underpayment was made until paid; provided, however, that no adjustment for any statement or payment will be made unless objection to the accuracy thereof was made prior to the lapse of twelve (12) months from the rendition thereof, and thereafter any objection shall be deemed waived except to the extent any misinformation was from a third party not Affiliated with any Party and such third party corrects its information after such twelve-month period. In addition, Buyer shall have the right, at its sole expense and during normal working hours, to examine the records of Seller to the extent reasonably necessary to verify Seller's compliance with its representations and warranties set forth in Section 10.2.

13.4 <u>Sarbanes-Oxley and SEC Requirements</u>. The Parties acknowledge that accounting principles generally accepted in the United States of America ("GAAP") and SEC rules require Buyer and its independent auditor to evaluate whether Buyer must consolidate Seller's financial information (but not financial information of Seller's constituent members unless deemed to be included in the entity under GAAP). Buyer may require access to information concerning Seller's organizational structure, including its debt/capital structure, as well as to personnel of Seller to determine if consolidated financial reporting is required. If Buyer and its independent auditor determine at any time that the Buyer must consolidate the Seller's financial statements to comply with GAAP and/or SEC rules regarding consolidated financial reporting, then:

(a) Buyer shall require from Seller and Seller agrees to provide to Buyer the following during the Term of this Agreement:

(i) Unaudited financial statements of the Seller prepared in accordance with GAAP as of the end of the quarterly period. The financial statements should include quarter to date and year to date information and are to be provided within fifteen (15) calendar days of the end of the applicable reporting period (or the Business Day thereafter);

(ii) Unaudited financial schedules of the Seller, as deemed necessary for Buyer to prepare its consolidated financial statements and related footnotes to the financial statements in accordance with GAAP as of the end of the quarterly period. The financial schedules should include quarter to date and year to date information underlying the financial statements and footnotes to the financial statements and are to be provided within fifteen (15) calendar days of the end of the applicable reporting period (or the Business Day thereafter);

(iii) Access to Seller's accounting and other records, and accounting and management personnel as reasonably determined by both Buyer and Seller so that (A) Buyer's independent auditor or its internal auditors may conduct financial audits (in accordance with the standards of the Public Company Accounting Oversight Board (United States)) as well as internal control audits (in accordance with Section 404 of the Sarbanes-Oxley Act of 2002) and (B) Buyer can be provided analytical information, as needed, to enable Buyer to meet its SEC filing requirements, including but not limited to those under Item 2 on Form 10-Q, and Item 7 on Form 10-K, "Management's Discussion and Analysis of Financial Condition and Results of Operations;"

(iv) Upon the request of Buyer, such certifications by a duly authorized representative(s) of Seller as may be reasonably requested by Buyer (which certifications shall presumptively be reasonable if the certifications are substantially identical to those required by Buyer or its parent of business units of Buyer or its parent); and

(v) As reasonably requested by Buyer, such information or schedules, similar to the items noted in clauses (i)-(iv) above, to enable Buyer to prepare consolidated financial statements and schedules as may be required for Buyer to obtain financing or to prepare other reports as required by regulatory bodies, such as the SEC, for periods other than as of the end of the monthly, quarterly or year to date periods then ended.

(b) If Buyer (i) in its sole discretion determines that the financial statements of the Seller would be considered material to the Buyer or its parent company's financial statements, financial condition, or internal controls over financial reporting, and (ii) reasonably determines Seller's internal controls over financial reporting are not operating effectively or have resulted in a control deficiency, Buyer shall provide Notice to Seller. Upon receipt of such Notice, Seller will have thirty (30) days to remediate any deficiency in Seller's internal controls over financial reporting identified by the Buyer, which Buyer and Buyer's independent auditor deem to be necessary to ensure Seller's internal controls over financial reporting are adequate, during or as a result of the audits permitted under Section 13.4(a)(iii) or any other provision of this Agreement.

(c) As soon as possible, but in no event later than two (2) Business Days following any occurrence that would affect Seller in any material way, Seller shall provide to Buyer a Notice describing such occurrence in sufficient detail to permit the Buyer to file a report on SEC Form 8-K. Such occurrences include all reportable events on the then current Form 8-K that applies to Buyer and its parent company at such time, including but not limited to a material acquisition or disposition of assets, a material direct financial obligation or off-balance sheet financing arrangement, material litigation, and the execution or termination of a material contract.

(d) Any information provided to Buyer shall be treated as confidential except that it may be disclosed in connection with the preparation, review, certification and publication of Buyer's financial statements.

(e) Seller shall notify Buyer at any time during the term of this Agreement of any services provided or proposed to be provided to Seller by Buyer's independent auditor. Seller, and any of Seller's Affiliates, are prohibited from engaging Buyer's independent auditor for any services or in any consulting agreement without the express written consent of partner in charge of Buyer's independent audit.

13.5 <u>Entire Agreement</u>. This Agreement, together with the Cover Sheet and each and every appendix, attachment, amendment, schedule and any written supplements hereto, if any, between the Parties constitutes the entire agreement between the Parties.

13.6 <u>Recording</u>. Unless a Party expressly objects to a Recording (defined below) at the beginning of a telephone conversation, each Party consents to the creation of a tape or electronic recording ("Recording") of all telephone conversations between the Parties to this Agreement, and that any such Recordings will be retained in confidence, secured from improper access, and may

be submitted in evidence in any proceeding or action relating to this Agreement. Each Party waives any further notice of such monitoring or recording, and agrees to notify its officers and employees of such monitoring or recording and to obtain any necessary consent of such officers and employees.

13.7 <u>Forward Contract</u>. The Parties acknowledge and agree that this Agreement constitutes a "forward contract" within the meaning of the United States Bankruptcy Code.

13.8 <u>Governing Law</u>. THIS AGREEMENT AND THE RIGHTS AND DUTIES OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY AND CONSTRUED, ENFORCED AND PERFORMED IN ACCORDANCE WITH THE LAWS OF THE STATE OF CALIFORNIA, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW. TO THE EXTENT ENFORCEABLE AT SUCH TIME, EACH PARTY WAIVES ITS RESPECTIVE RIGHT TO ANY JURY TRIAL WITH RESPECT TO ANY LITIGATION ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

13.9 <u>Attorneys' Fees</u>. In any proceeding brought to enforce this Agreement or because of the breach by any Party of any covenant or condition herein contained, the prevailing Party shall be entitled to reasonable attorneys' fees (including reasonably allocated fees of in-house counsel) in addition to court costs and any and all other costs recoverable in said action.

13.10 <u>General</u>. This Agreement shall be considered for all purposes as prepared through the joint efforts of the Parties and shall not be construed against one Party or the other as a result of the preparation, substitution, submission or other event of negotiation, drafting or execution hereof. Except to the extent provided for herein, no amendment or modification to this Agreement shall be enforceable unless reduced to writing and executed by both Parties. This Agreement shall not impart any rights enforceable by any third party (other than a permitted successor or assignee bound to this Agreement). Waiver by a Party of any default by the other Party shall not be construed as a waiver of any other default. The headings used herein are for convenience and reference purposes only. This Agreement shall be binding on each Party's successors and permitted assigns.

13.11 <u>Severability</u>. If any provision in this Agreement is determined to be invalid, void or unenforceable by any court having jurisdiction, such determination shall not invalidate, void, or make unenforceable any other provision, agreement or covenant of this Agreement and the Parties shall use their best efforts to modify this Agreement to give effect to the original intention of the Parties.

13.12 <u>Counterparts</u>. This Agreement may be executed in one or more counterparts each of which shall be deemed an original and all of which shall be deemed one and the same Agreement. Delivery of an executed counterpart of this Agreement by fax will be deemed as effective as delivery of an originally executed counterpart. Any Party delivering an executed counterpart of this Agreement by facsimile will also deliver an originally executed counterpart, but the failure of any Party to deliver an originally executed counterpart of this Agreement will not affect the validity or effectiveness of this Agreement.

13.13 Notices. Whenever this Agreement requires or permits delivery of a "Notice" (or requires a Party to "notify"), the Party with such right or obligation shall provide a written communication delivered personally, by a nationally recognized overnight courier, mailed by registered or certified mail (return receipt requested), or by facsimile or e-mail (if facsimile numbers or e-mail addresses are identified on the Cover Sheet or by subsequent Notice) to the receiving Party at the addresses identified on the Cover Sheet (or at such other addresses as such receiving Party shall identify by like Notice to the other Party); provided, however, that notices of Outages or other Scheduling or dispatch information or requests, shall be provided in accordance with the terms set forth in the relevant section of this Agreement. Invoices may be sent by facsimile or e-mail (if facsimile numbers or e-mail addresses are identified on the Cover Sheet or by subsequent Notice). A Notice delivered in accordance herewith shall be deemed received (i) on the date of delivery, if hand delivered, (ii) two Business Days after the date of sending, if sent by a nationally recognized overnight courier, or at such earlier time as is confirmed by the receiving Party, (iii) three Business Days after the date of mailing, if mailed by registered or certified mail, return receipt requested, or at such earlier time as is confirmed by the receiving Party, and (iv) on the Business Day on which such Notice was transmitted by facsimile transmission or e-mail (where permitted); provided, however, that a Notice delivered in accordance with this Section but received on any day other than a Business Day or after 5:00 p.m. in the place of receipt will be deemed received on the next Business Day. Each Party shall provide Notice to the other Party of the persons authorized to nominate and/or agree to a Schedule or Dispatch Order for the delivery or acceptance of the Product or make other Notices on behalf of such Party and specify the scope of their individual authority and responsibilities, and may change its designation of such persons from time to time in its sole discretion by providing Notice.

13.14 <u>Mobile Sierra</u>. Notwithstanding any provision of this Agreement, neither Party shall seek, nor shall they support any third party in seeking, to prospectively or retroactively revise the rates, terms or conditions of service of this Agreement through application or complaint to FERC pursuant to the provisions of Section 205, 206 or 306 of the Federal Power Act, or any other provisions of the Federal Power Act, absent prior written agreement of the Parties. Further, absent the prior agreement in writing by both Parties, the standard of review for changes to the rates, terms or conditions of service of this Agreement proposed by a Party, a non-Party or the FERC acting *sua sponte* shall be the "public interest" application of the "just and reasonable" standard of review set forth in United Gas Pipe Line Co. v. Mobile Gas Service Corp., 350 US 332 (1956) and Federal Power Commission v. Sierra Pacific Power Co., 350 US 348 (1956) and clarified by Morgan Stanley Capital Group Inc. v. Pub. Util. Dist. No. 1 of Snohomish County, 128 S. Ct. 2733 (2008).

IN WITNESS WHEREOF, the Parties have caused this Agreement to be duly executed as of the date first above written.

| [|] |
|---|---|
| a | 1 |

SAN DIEGO GAS & ELECTRIC COMPANY a California corporation

By:

Name:______ Title:_____

By:

| Name: | |
|--------|--|
| Title: | |

Exhibit A

PROJECT DESCRIPTION INCLUDING DESCRIPTION OF SITE

PROJECT DESCRIPTION

Project name _____

Project Site name: _____

Project physical address:

Total number of electric generating units at the Project (committed and not committed to Buyer)

Technology Type:

Substation:

The term "Site" as defined in the Agreement means the following parcel description upon which the Project is located:

Latitude and Longitude of Project:______.

The nameplate capacity of the Project is _____.

The electric generating units utilized as generation assets as part of the Project are described below:

[INSERT MAP]

Exhibit B

FORM OF LETTER OF CREDIT

[DATE]

To: San Diego Gas & Electric Company 555 W. Fifth Street Mail Code: ML 18A3 Los Angeles, CA 90013

Re: Our Irrevocable Standby Letter of Credit No._____ In the Amount of US_____

Ladies and Gentlemen:

We hereby open our irrevocable standby Letter of Credit Number _____ in favor of [name of Beneficiary] ("Beneficiary"), by order and for account of [name of Applicant] ("Applicant"), [address of Applicant], available at sight upon demand at our counters, at [location] for an amount of US\$ _____ [amount spelled out and xx/100 U.S. Dollars] against presentation one of the following documents:

1- Statement signed by a person purported to be an authorized representative of Beneficiary stating that: "[name of Applicant] ("Applicant") is in default under the Power Purchase Agreement between Beneficiary and Applicant dated or under any transaction contemplated thereby (whether by failure to perform or pay any obligation thereunder or by occurrence of a "default", "event of default" or similar term as defined in such agreement, any other agreement between Beneficiary and Applicant, or otherwise). The amount due to Beneficiary is U.S. \$."

or

2- Statement signed by a person purported to be an authorized representative of Beneficiary stating that: "[name of Applicant] ("Applicant") has forfeited all or part of its *[For Agreements with Delivery Terms greater than two years:* CPUC Approval Security or] Pre-Delivery Term Security as set forth and defined in the Power Purchase Agreement between Beneficiary and Applicant dated ______. The amount due to Beneficiary, whether or not a default has occurred, is U.S. \$_____."

or

3- Statement signed by a person purported to be an authorized representative of Beneficiary stating that: "as of the close of business on [insert date, which is less than 60 days prior to the expiration date of the Letter of Credit] you have provided written

notice to us indicating your election not to permit extension of this Letter of Credit beyond its current expiry date. The amount due to Beneficiary, whether or not a default has occurred, is U.S. \$_____."

Special Conditions:

- All costs and banking charges pertaining to this Letter of Credit are for the account of Applicant.

- Partial and multiple drawings are permitted.
- Fax of Document 1 or 2 or 3 above is acceptable. Notwithstanding anything to the contrary herein, any drawing hereunder may be requested by transmitting the requisite documents as described above to us by facsimile at ______ or such other number as specified from time to time by us. The facsimile transmittal shall be deemed delivered when received. It is understood that drawings made by facsimile transmittal are deemed to be the operative instrument without the need of originally signed documents.

This Letter of Credit expires on ______ at our counters.

We hereby engage with Beneficiary that upon presentation of a document as specified under and in compliance with the terms of this Letter of Credit, this Letter of Credit will be duly honored in the amount stated in Document 1, 2, or 3 above. If a document is so presented by 1:00 pm on any New York banking day, we will honor the same in full in immediately available New York funds on that day and, if so presented after 1:00 pm on a New York banking day, we will honor the same in full in immediately available New York banking day.

It is a condition of this Letter of Credit that it shall be deemed automatically extended without an amendment for a one year period beginning on the present expiry date hereof and upon each anniversary of such date, unless at least ninety (90) days prior to any such expiry date we have sent you written notice by regular and registered mail or courier service that we elect not to permit this Letter of Credit to be so extended beyond, and will expire on its then current expiry date. No presentation made under this Letter of Credit after such expiry date will be honored.

We agree that if this Letter of Credit would otherwise expire during, or within 30 days after, an interruption of our business caused by an act of god, riot, civil commotion, insurrection, act of terrorism, war or any other cause beyond our control or by any strike or lockout, then this Letter of Credit shall expire on the 30th day following the day on which we resume our business after the cause of such interruption has been removed or eliminated and any drawing on this Letter of Credit which could properly have been made but for such interruption shall be permitted during such extended period.

This Letter of Credit is subject to the Uniform Customs and Practice for Documentary Credits (2007 Revision) International Chamber of Commerce, Publication No. 600 ("UCP"), except to the extent that the terms hereof are inconsistent with the provisions of the UCP, including but not limited to Articles 14(b) and 36 of the UCP, in which case the terms of this Letter of Credit shall

govern. Matters not covered by the UCP shall be governed and construed in accordance with the laws of the State of California.

[Name of Bank]

Authorized Signature(s)

Exhibit C

FORM OF GUARANTY

GUARANTY

In consideration of San Diego Gas & Electric Company ("Company") entering into a power purchase agreement with [NAME OF COUNTERPARTY] (hereinafter referred to as "Applicant"), [NAME OF GUARANTOR], a [TYPE OF LEGAL ENTITY i.e. California corporation], (hereinafter referred to as "Guarantor") agrees with Company as follows:

1. The term "Obligations" shall mean all obligations, liabilities and indebtedness of any kind whatsoever arising in connection with _______ or arising in connection with or under any security agreement or other agreement between the Company and Applicant. The amount of Obligations existing from time to time shall be calculated after giving effect to all contractual netting arrangements between Applicant and the Company.

2. Guarantor unconditionally and irrevocably guarantees to Company the full, prompt and faithful payment and performance when due of each and all of the Obligations.

3. This is a continuing guaranty relating to the Obligations. Guarantor acknowledges that there is a continuing consideration to Guarantor for this Guaranty and therefore Guarantor waives and relinquishes the right to revoke or terminate this Guaranty as provided in California Civil Code Section 2815.

4. Any of the Obligations may be amended, modified, waived, or increased (whether or not beyond any dollar limitation hereunder), further agreements may be entered into between Company and Applicant, Company may provide additional goods or services or credit to Applicant or increase or decrease the dollar value of such goods, services or credit, and further obligations (including, without limitation, the provision or pledging of security to Company for any obligation), indebtedness and liabilities may be entered into or incurred from time to time by Applicant and without further authorization from or notice to Guarantor and no such action shall terminate, release, impair, reduce, discharge, diminish or in any way affect any of the obligations of Guarantor hereunder or any security furnished by Guarantor or give Guarantor any recourse or defense against Company. Company need not inquire into the power of Applicant or the authority of its officers, directors, partners or agents acting or purporting to act in its behalf.

5. With respect to all Obligations, this is a guaranty of payment and performance and not of collection, and Guarantor waives and agrees not to assert or take advantage of:

(a) any right to require Company to proceed against Applicant or any other person or to resort to, proceed against or exhaust any security held by it at any time or to pursue any other remedy in its power before proceeding against any Guarantor;

(b) demand, presentment, protest and notice of any kind including, without limiting the generality of the foregoing, notice of nonperformance, protest, dishonor and acceptance of this Guaranty, notice under Section 9611 of the California Commercial Code, and

notice of the existence, creation or incurring of any new or additional indebtedness or obligation or of any action or non-action on the part of Applicant, Company, a guarantor under this or any other instrument, or creditor of Applicant or any other person whomsoever, in connection with any of the Obligations or any collateral for any of the Obligations or in connection with any of the Obligations; and

any suretyship defenses and suretyship rights of every nature otherwise (c) available under California law and the laws of any other state or jurisdiction, including, without limitation, all defenses and rights arising under Sections 2787 through 2855 of the California Civil Code (the "Suretyship Provisions") and any successor provisions to those Sections. Without limiting the generality of the foregoing, Guarantor acknowledges his, her or its understanding that the Suretyship Provisions provide various partial or complete defenses to the recovery by Company from Guarantor and/or grant Guarantor rights the enforcement of which could reduce or eliminate entirely Guarantor's liability hereunder to Company. Among the defenses and rights contained in the Suretyship Provisions are the following: (1) Section 2809 of the Civil Code, which provides, in part, that the obligation of a surety must not be either larger in amount or in other respects more burdensome than that of the principal; (2) Section 2810 of the Civil Code, which provides, in part, that a surety is not liable if for any reason other than the mere personal disability of the principal there is no liability upon the part of the principal at the time of execution of the contract, or the liability of the principal thereafter ceases; (3) Section 2819 of the Civil Code, which provides, in part, that a surety is exonerated if the creditor alters the original obligation of the principal without the consent of the surety; (4) Section 2845 of the Civil Code, which provides, in part, that a surety is exonerated to the extent that the creditor fails to proceed against the principal, or to pursue any other remedy in the creditor's power which the surety cannot pursue and which would lighten the surety's burden; (5) Section 2846 of the Civil Code, which provides that a surety may compel his principal to perform the obligation when due; (6) Section 2847 of the Civil Code, which provides, in part, that if a surety satisfies the principal obligation, or any part thereof, the principal is obligated to reimburse the surety for the amounts paid by the surety; (7) Section 2848 of the Civil Code, which provides, in part, that a surety, upon satisfaction of the obligation of the principal is entitled to enforce remedies which the creditor then has against the principal; (8) Section 2849 of the Civil Code, which provides, in part, that a surety is entitled to the benefit of security held by the creditor for the performance of the principal obligation held by the creditor; (9) Section 2850 of the Civil Code, which provides, in part, that whenever the property of a surety is hypothecated with property of the principal, the surety is entitled to have the property of the principal first applied to the discharge of the obligation; and (10) Section 2822 of the Civil Code, which provides, in part, for a right to have the principal designate the portion of any obligation to be satisfied by the surety in the event that the principal provides partial satisfaction of such obligation.

6. All existing and future indebtedness of Applicant to Guarantor ("Intercompany Obligations") is subordinated to all Obligations hereby guaranteed. All of Guarantor's right, title and interest in and to the Intercompany Obligations and rights to receive any payments of the Intercompany Obligations are hereby granted and assigned to Company as continuing security for the Obligations hereby guaranteed, and, in the event of any default in the payment of any of the Obligations when due and until the Obligations guaranteed hereby have been paid in full (a) at the Company's request, Applicant shall forthwith pay to the Company all or any part of such Intercompany Obligations and any capital which Guarantor is entitled to withdraw until all of the

Obligations guaranteed hereby have been paid in full, and (b) Guarantor shall pay to Company immediately any payments of such Intercompany Obligations received by Guarantor.

7. Guarantor agrees to pay all attorneys' fees (including without limitation, reasonably allocated fees of in-house counsel) and all other costs and expenses which may be incurred by Company in the enforcement of this Guaranty against Guarantor.

8. This Guaranty is not assignable by Guarantor without Company's consent. This Guaranty shall inure to the benefit of Company and its successors and assigns, including the assignees of any Obligations, and bind the heirs, executors, administrators, successors and permitted (if any) assigns of Guarantor. This Guaranty is assignable by Company with respect to all or any portion of the Obligations, and when so assigned Guarantor shall be liable to the assignees under this Guaranty without in any manner affecting the liability of Guarantor hereunder with respect to any Obligations retained by Company.

9. This Guaranty shall be governed by and construed in accordance with the laws of the State of California, without reference to its choice of law provisions. Guarantor hereby irrevocably and unconditionally agrees that any legal action or proceeding against Guarantor or any of Guarantor's property with respect to this Guaranty may be brought in the courts of the State of California in the County of San Diego or the courts of the United States in the County of San Diego, as Company may elect, and by executing and delivering this Guaranty Guarantor hereby submits to and accepts with regard to any such action or proceeding for himself, herself or itself and in respect of his, her or its property, generally, irrevocably and unconditionally, the jurisdiction of the above mentioned courts. Guarantor hereby irrevocably appoints the Secretary of State of the State of California as his, her or its agent for service of process in any suit or proceeding if the Guarantor is located outside the State of California at the time of service or cannot reasonably be located by Company. The foregoing, however, shall not limit the right of Company as it may elect to bring any legal action or proceeding or to obtain execution of judgment in any other appropriate jurisdiction including but not limited to any other jurisdiction in which Guarantor or his, her or its property is located.

10. Except as provided in any other written agreement now or at any time hereafter in force between Company and Guarantor, this Guaranty shall constitute the entire agreement of Guarantor with Company with respect to the subject matter hereof and no representation, understanding, promise or condition concerning the subject matter hereof shall be binding upon Company unless expressed herein.

11. All notices, demands, requests and other communications required or permitted hereunder shall be in writing and shall be given personally, by certified or registered mail, postage prepaid, return receipt requested, or by reliable overnight courier to the address of the Company set forth below (or to such new address as Company may designate hereafter in a notice to Guarantor) in the case of a communication to the Company and to the address appearing next to Guarantor's signature on this Guaranty (or to such new address as Guarantor may designate hereafter in a notice to Company) in the case of a communication to Guarantor. Any notice served personally shall be deemed delivered upon receipt, and any notice served by certified or registered mail or by reliable overnight courier shall be deemed delivered on the date of receipt as shown on

the addressee's registry or certification of receipt or on the date receipt is refused as shown on the records or manifest of the U.S. Postal Service or such courier.

San Diego Gas & Electric Company 555 W. Fifth Street Attn: Major Markets 18A3, Credit Manager Los Angeles, CA 90013 Fax No.: (213) 244-8316

12. Until all of the Obligations guaranteed hereby have been satisfied in full, Guarantor shall have no right of subrogation or reimbursement from the Applicant which Guarantor may have as a result of any payment by Guarantor under this Guaranty, and waives any right to enforce any remedy which Company now has or may hereafter have against the Applicant as a result of such payment by Guarantor under this Guaranty and waives any right under section 2849 of the California Civil Code and any other benefit of or right to participate in any security now or hereafter held by Company.

13. All amounts payable by Guarantor hereunder shall be paid without set-off or counterclaim and without any deduction or withholding whatsoever unless and to the extent that Guarantor shall be prohibited by law from doing so, in which case Guarantor shall pay to Company such additional amount as shall be necessary to ensure that Company receives the full amount it would have received if no such deduction or withholding had been made.

14. If any portion of this Guaranty is held to be unenforceable by a court of competent jurisdiction, the remainder of this Guaranty shall remain in full force and effect.

IN WITNESS WHEREOF, the undersigned Guarantor has executed this Guaranty on [MONTH AND DAY], [YEAR].

GUARANTOR: [NAME OF GUARANTOR]

Signature

Title

Printed Name of Person Signing for Guarantor

Guarantor's Address

City, State, Zip

Guarantor's Phone No.

Exhibit D

OUTAGE NOTIFICATION FORM

| Request Type: | | Previous Notificati | on (if applicable) |
|---|--|--|--|
| New Scheduled Maintenance | e Outage 🗸 🔻 | Date Sent: | mm/dd/yyyy |
| | | Time Sent: | hh:mm |
| enerator Name: | | | |
| Location Code: Address | | Today's Date: | (For times, use 24hr format) mm/dd/yyyy |
| /////////////////////////////////////// | | Current Time: | hh:mm |
| | | | |
| Contact Name: | | Outage Start Date: | |
| Contact Name: Phone Number: | | Outage Start Time: | hh:mm |
| Email: | | Outage End Date: | mm/dd/yyyy |
| | | Outage End Time: | hh:mm |
| | | Outons Duration: | |
| Email | | Outage Duration: MW Available Durin | n Outane: |
| | | MW Unavailable Durin | |
| Boiler Codes 0010-1999 | Generator Codes 4500-4899 | Codes 9504-972 | Safety, Environmental |
| O Balance of Plant Codes 3110-3999 | O Pollution Control Equ Codes 8000-8835 | ipment Others Codes 9900-999 | 9 |
| O Steam Turbine Codes 4000-4499 | Codes 9000-9040 | | |
| Cause Code Rang | ges / Affected Co | mponent | |
| (Select One) | | | |
| (Select One) Cause Code / Cor | mponent Problem | Ì | |
| (Select One) | | | |

Exhibit E

PROJECT OPERATING RESTRICTIONS

Operational characteristics of the Project must be equal to or greater than the resource flexibility reflected in the resource Master File, as such term is defined in the CAISO Tariff. Buyer may request that CAISO modify the Master File for the Project to reflect the findings of a CAISO audit of the Project and to ensure that the information provided by Seller is true and accurate. Seller agrees to coordinate with Buyer and any third party Scheduling Coordinator to ensure all information provided to the CAISO regarding the operational and technical constraints in the Master File for the Project are accurate and are actually based on physical characteristics of the resource. The Parties agree to make reasonable modifications to this Exhibit E to modify existing operating restrictions or add additional operating restrictions that may be necessary to address changes in the CAISO Tariff or applicable Law applicable to the Products provided from this Project.

- Nameplate capacity of the Project: _____MW
- Minimum operating capacity: ____MW
- Advance notification required for a Dispatch Notice: ______
- Ramp Rate: _____MW/minute

Appendix 7

2021 RPS REC Agreement

EEI AGREEMENT REC CONFIRMATION BETWEEN [_____] AND SAN DIEGO GAS & ELECTRIC COMPANY

This Confirmation ("Confirmation") confirms the renewable energy credit ("REC") transaction ("Transaction") between [] ("Seller") and San Diego Gas & Electric Company ("Buyer"), each individually a "Party" and together the "Parties", effective as of [], 20_ (the "Confirmation Effective Date"). This Transaction is governed by the EEI Master Power Purchase & Sale Agreement effective as of 4/25/00 (attached hereto as Exhibit A with [TO BE NEGOTIATED: all elections, including credit, confidentiality, and government entity language.](the "EEI Agreement"). The EEI Agreement and this Confirmation shall be collectively referred to herein as the "Agreement." Capitalized terms used but not otherwise defined in this Confirmation have the meanings ascribed to them in the EEI Agreement or in the RPS (as defined below).

| Seller: Contact Information: Name: ("Seller") | | Buyer: San Diego Gas & Electric Company | |
|---|---|---|--|
| | | Name: San Diego Gas & Electric Company (" <u>Buyer</u> ") | |
| | All Notices: Attn: Contract Administration Phone: | Attn: Electric & Fuel Producement Contract Administration Phone: (858) 650-6176 Facsimile: (858) 650-6190 Duns: 006911457 Federal Tax ID Number: 95-1184800 Invoices: San Diego Gas & Electric Company 8315 Century Park Ct. San Diego, California 92123-1593 Attn: Energy Accounting Manager | |
| | Scheduling: Attn: Phone: Facsimile: | Scheduling: San Diego Gas & Electric Company 8315 Century Park Ct. San Diego, California 92123-1593 Attn: Transaction Scheduling Manager Phone: (858) 650-6160 Facsimile: (858) 650-6191 | |

ARTICLE 1 COMMERCIAL TERMS

| | Payments: Attn: Phone: Facsimile: | | Payments:San Diego Gas & Electric CompanyPO Box 25110Santa Ana, CA 92799-5110Attn: Mail PaymentsPhone: (619) 696-4521Facsimile: (619) 696-4899 | | |
|-----------------------|--|------------|--|--|--|
| | Wire Transfer: BNK: ABA: ACCT: Confirmation: FAX: | | ABA: Routing # 122000496 ACCT: #4430000352 | | |
| | Credit and Collections Attn: Phone: Facsimile: | | Credit and Collections: San Diego Gas & Electric Company, Major Markets 555 W. Fifth Street, ML 10E3 Los Angeles, CA 90013-1011 Attn.: Major Markets, Credit and Collections Manager Fax No.: (213) 244-8316 Phone: (213) 244-4343 | | |
| | Defaults: With additional Notices Default or Potential Eve Attn: Phone: Facsimile: | | | | |
| Product: | All California RPS-eligible RECs associated with the Contract Quantity and Green Attributes from the Project for the applicable Product Vintage. The obligation of Seller to deliver the Product exclusively to Buyer, for each of the applicable Product Vintage years, is as follows: Obligation: (<i>Check One</i>): Resource Contingent Firm | | | | |
| Contract Quantity: | [[]] MWh REC per month for all months of the Vintage specified herein.] [All RECs associated with [the entire output of the Project / [%] of the output from the project] for all months of the Vintage specified herein.] | | | | |
| guantity. | # RECs mm/yy mr | n/yy mm/yy | mm/yy Total | | |
| Contract Price: | [\$[]/MWh REC] | | | | |

| Product Vintage: | | | | | |
|--|--|---|-------------------|---|------|
| | Name of Facility: Location: EIA Number: CEC ID: WREGIS ID: Certification Date: On-line Date: | only with Firm Product): | | roduct sold bereunder shall | l be |
| | [For Pooled Facilities (for use only with Firm Product): All Product sold hereunder shall from one or more of the <i>[type of generation]</i> facilities listed below: | | | | |
| | | Name of Facility: [|] | Name of Facility: [] | |
| | Location: | | | | |
| | EIA Number: | | | | |
| | CEC ID: | | | | |
| Project: | WREGIS ID: | | | | |
| | Certification Date: | | | | |
| | On-line Date: | | | | |
| | (collectively, the "Pooled Facil | lities") | | | |
| The Parties acknowledge and agree that the Project consists of the Pooled Seller is permitted to utilize the Pooled Facilities in order to satisfy its obligation hereunder. | | | nd | | |
| | The Parties further acknowled Confirmation, Product shall so by the Pooled Facilities used to any additional Product prod beyond the Contract Quantity | olely be limited to the act to satisfy the Contract Qu luced by the Pooled Faci | ual Pr uantity | oduct generated and delive y, and that Buyer is not enti | |
| | Each of the Pooled Facilities shall have been certified by the CEC as an RPS-eligible resource and Seller shall have obtained LORS Certification for each of the Pooled Facilities.] | | | | |
| Renewable Energy Source: | | | _ | | |
| Term: | The Term of this Transaction shall continue until the later of of all obligations of the Parties | (i) the expiration of the D | | | |
| Delivery Period: | The Delivery Period of this Transaction shall commence on [], 20[] and shall continue until [delivery by Seller to Buyer of the Product has been completed/[], 20[]]. | | | | |
| Delivery Point: | Buyer's WREGIS account: SE | G&E Account ID: 39 | | | |

| | | The commencement of the Delivery Period shall be contingent upon satisfaction of the condition (the "Condition") that the Buyer obtain CPUC Approval of this Confirmation and the requested relief contained in the related advice letter filing. |
|--|-------------|---|
| | | Both Parties shall take all reasonable action to satisfy this Condition. |
| | Conditions: | Either Party has the right to terminate this Agreement on notice, which will be effective five (5) Business Days after such notice is given, if the Condition has not been satisfied or waived by Buyer in its sole discretion within [] days after Buyer files its request for CPUC Approval and a notice of termination is given on or before the [] day after Buyer files the request for CPUC Approval. |
| | | In the event of a termination under this section, neither Party shall be liable for any Termination Payment and Article 5 of the EEI Agreement shall not apply. |

ARTICLE 2 DEFINITIONS

"Accepted Electrical Practices" means (a) those practices, methods, applicable codes, and acts engaged in or approved by a significant portion of the electric power industry during the relevant time period, or (b) in the absence of such practices, methods, applicable codes, and acts, any of the practices, methods, and acts which, in exercise of reasonable judgment in light of the facts known at the time a decision is made, could have been expected to accomplish a desired result at reasonable cost consistent with good business practices, reliability, safety, and expedition. Acceptable Electrical Practices are not intended to be limited to the optimum practices, methods, or acts to the exclusion of other, but rather refers to a spectrum of practices, methods, and acts generally accepted, or approved by a significant portion of the electric power industry in the relevant region, during the relevant time period, as described in the immediately preceding sentence.

"CPUC" means the California Public Utilities Commission or its regulatory successor.

"CPUC Approval" means a final and non-appealable order of the CPUC, without conditions or modifications unacceptable to the Parties, or either of them, which contains the following terms:

(a) Approves this Agreement in its entirety, including payments to be made by the Buyer, subject to CPUC review of the Buyer's administration of the Agreement; and

(b) Finds that any procurement pursuant to this Agreement is procurement of Renewable Energy Credits that conform to the definition and attributes required for compliance with the California Renewables Portfolio Standard, as set forth in California Public Utilities Commission Decision 08-08-028, and as may be modified by subsequent decision of the California Public Utilities Commission or by subsequent legislation, for purposes of determining Buyer's compliance with any obligation that it may have to procure eligible renewable energy resources pursuant to the California Renewables Portfolio Standard (Public Utilities Code Section 399.11 *et seq.*), Decision 03-06-071, or other applicable law.

CPUC Approval will be deemed to have occurred on the date that a CPUC decision containing such findings becomes final and non-appealable.

"Delivered" or "Delivery" or "Deliver" means the transfer from Seller to Buyer of the Contract Quantity of the Product in accordance with the California RPS Program, including its regulations and procedures, necessary for recognition by WREGIS of the transfer to Buyer, or Seller's delivery to Buyer of a WREGIS Certificate.

"Delivery Date" means the date or dates on which the Product is Delivered pursuant to this Confirmation.

"Delivery Term" means "Delivery Period".

"Firm" means Seller has agreed to sell and Deliver, and Buyer has agreed to buy and receive the Contract Quantity of the Product during the Delivery Period consistent with the terms of this Confirmation without excuse for non-Delivery by Seller except for Force Majeure, and as such, if Seller fails to Deliver the Product for any reason other than for Force Majeure, then Seller shall be the non-performing Party as set forth in Section 4.1 of the EEI Agreement and Buyer shall be the performing Party and shall be entitled to receive from Seller an amount determined pursuant to Section 4.1 of the EEI Agreement.

"Green Attributes" means any and all credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, attributable to the generation from the Project, and its avoided emission of pollutants. Green Attributes include but are not limited to Renewable Energy Credits, as well as:

- (1) Any avoided emission of pollutants to the air, soil or water such as sulfur oxides (SO_x), nitrogen oxides (NO_x), carbon monoxide (CO) and other pollutants;
- (2) Any avoided emissions of carbon dioxide (CO₂), methane (CH₄), nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride and other greenhouse gases (GHGs) that have been determined by the United Nations Intergovernmental Panel on Climate Change, or otherwise by law, to contribute to the actual or potential threat of altering the Earth's climate by trapping heat in the atmosphere;¹
- (3) The reporting rights to these avoided emissions, such as Green Tag Reporting Rights.

Green Tag Reporting Rights are the right of a Green Tag Buyer to report the ownership of accumulated Green Tags in compliance with federal or state law, if applicable, and to a federal or state agency or any other party at the Green Tag Buyer's discretion, and include without limitation those Green Tag Reporting Rights accruing under Section 1605(b) of The Energy Policy Act of 1992 and any present or future federal, state, or local law, regulation or bill, and international or foreign emissions trading program. Green Tags are accumulated on a MWh basis and one Green Tag represents the Green Attributes associated with one (1) MWh of energy. Green Attributes do not include:

- (i) Any energy, capacity, reliability or other power attributes from the Project,
- (ii) Production tax credits associated with the construction or operation of the Project and other financial incentives in the form of credits, reductions, or allowances associated with the Project that are applicable to a state or federal income taxation obligation,
- (iii) Fuel-related subsidies or "tipping fees" that may be paid to Seller to accept certain fuels, or local subsidies received by the generator for the destruction of particular preexisting pollutants or the promotion of local environmental benefits, or
- (iv) Emission reduction credits encumbered or used by the Project for compliance with local, state, or federal operating and/or air quality permits.

If the Project is a biomass or biogas facility and Seller receives any tradable Green Attributes based on the greenhouse gas reduction benefits or other emission offsets attributed to its fuel usage, it shall provide Buyer with sufficient Green Attributes to ensure that there are zero net emissions associated with the production of electricity from the Project.

"LORS Certification" means certification by the CEC of an electric generation facility not located within the state of California that such facility meets California's environmental quality laws, ordinances, regulations, and standards as set forth in the CEC's RPS Eligibility Guidebook.

"Renewable Energy Credit" or "REC" has the meaning set forth in California Public Utilities Code Section 399.12(f) and CPUC Decision 10-03-021, as modified by CPUC Decision 11-01-025 and as may be

¹ Avoided emissions may or may not have any value for GHG compliance purposes. Although avoided emissions are included in the list of Green Attributes, this inclusion does not create any right to use those avoided emissions to comply with any GHG regulatory program.

amended from time to time or as further defined or supplemented by law.

"Renewable Energy Facility" means an electric generation unit or other facility or installation that produces electric energy using a Renewable Energy Source.

"Renewable Energy Source" means an energy source that is not fossil carbon-based, non-renewable or radioactive, and may include solar, wind, biomass, geothermal, landfill gas or wave, tidal and thermal ocean technologies.

"Reporting Year" means a twelve-month compliance period specified under WREGIS.

"Resource Contingent" means that Seller is obligated to Deliver the Product to the extent that the applicable Renewable Energy Source supports energy production by the applicable Renewable Energy Facility, subject to Force Majeure, curtailment ordered directly or indirectly from the CAISO, and the planned or forced outage of the Renewable Energy Facility (which is not the result of Seller's negligence or willful misconduct), [*Insert the following provision if SDG&E is not purchasing 100% of the output:* and further subject to Seller's obligation to allocate the production among all of its purchasers of Product from the Renewable Energy Facility during the Vintage [as follows: [insert].] If Seller otherwise fails to Deliver the Product, then Seller shall be the non-performing Party as set forth in Section 4,1 of the EEI Agreement and Buyer shall be the performing Party and shall be entitled to receive from Seller an amount determined pursuant to Section 4.1 of the EEI Agreement.

"RPS" means the California Renewables Portfolio Standard Program as codified at California Public Utilities Code Section 399.11 *et seq.*, and any decisions by the CPUC related thereto.

"Vintage" means the calendar year, Reporting Year or other period specified by the Parties or WREGIS in which the Product is created or first valid for use under the RPS.

"WREGIS" means the Western Renewable Energy Generation Information System or its successor organization recognized under applicable laws for the registration or recordation of Delivery, ownership or transfer of RECs.

"WREGIS Certificate" means "Certificate" as defined by WREGIS in the WREGIS Operating Rules.

"WREGIS Operating Rules" means the operating rules and requirements adopted by WREGIS.

ARTICLE 3 CONVEYANCE OF RENEWABLE ATTRIBUTES

3.1 Seller's Conveyance of Contract Quantity of the Product and Green Attributes

(a) Seller hereby provides and conveys all Green Attributes associated with all electricity generation from the Project to Buyer as part of the Product being delivered. Seller represents and warrants that Seller holds the rights to all Green Attributes from the Project, and Seller agrees to convey and hereby conveys all such Green Attributes to Buyer as included in the delivery of the Product from the Project.

(b) For each month of the Delivery Period, Seller shall deliver and convey the Contract Quantity of the Product and the Green Attributes pursuant to this Article 3 within five (5) Business Days after the end of the month in which the WREGIS Certificates for such Contract Quantity of the Product and the Green Attributes are created by properly transferring such WREGIS Certificates, in accordance with WREGIS Operating Rules, equivalent to Contract Quantity of the Product and the quantity of such Green Attributes, to Buyer into Buyer's WREGIS account such that all right, title and interest in and to such WREGIS Certificates shall transfer from Seller to Buyer.

3.2 WREGIS Registration

During the Term, Seller, at its own cost and expense, shall maintain its registration of the Project with WREGIS and shall use commercially reasonable efforts to ensure that the Contract Quantity of the Product and all Green Attributes transferred to Buyer under this Confirmation count towards Buyer's RPS requirements. The Project shall be certified by the CEC as an RPS-eligible resource and the Contract

Quantity of the Product and all Green Attributes transferred by Seller hereunder shall be designated California RPS-compliant with WREGIS. Seller shall, at its sole expense, use WREGIS as required pursuant to the WREGIS Operating Rules to effectuate the transfer of the Contract Quantity of the Product and the Green Attributes to Buyer in accordance with WREGIS reporting protocols and WREGIS Operating Rules.

3.3 <u>Cooperation on Delivery; Review of Records; and Audit Rights</u>

(a) Upon either Party's receipt of notice from WREGIS that the transfer of any portion of the Product pursuant to this Confirmation will not be recognized, that Party will immediately so notify the other Party, providing a copy of such notice, and both Parties will cooperate in taking such actions as are necessary and commercially reasonable to cause such transfer to be recognized and the Delivery Obligation to be met. Each Party agrees to provide copies of its records to the extent reasonably necessary for WREGIS to perform the functions necessary pursuant to this Confirmation and to verify the accuracy of any fact, statement, charge or computation made pursuant hereto if requested by the other Party. If any fact, statement, charge or computation contained any inaccuracy, the necessary adjustments and any resulting payments will be made within 30 calendar days after the notification date, and the payments will bear interest at the Interest Rate from the date the overpayment or underpayment was made until paid.

(b) If Seller is not the owner or operator of the Project, Seller will cooperate with Buyer in any efforts to review the records of the original seller of such Product.

The obligations set forth in this Section shall terminate with respect to this Transaction on the later of 30 days following the last banking date under WREGIS for the Vintage of the Product Delivered, or the third anniversary of the Delivery Date.

(c) In addition to any audit rights that Buyer may have under the EEI Agreement, Seller shall, along with the initial invoice sent to Buyer by Seller under this Confirmation for any calendar year during the Term and at other times as may be requested by Buyer, provide documentation, including, but not limited to, meter data as recorded by a meter approved by the CAISO, sufficient to demonstrate that the Product has been conveyed and delivered, subject to the terms of this Confirmation, to Buyer. [**NOTE: CAISO meters may not be required for certain projects.]**

(d) Seller shall, at its own cost and expense, instruct WREGIS to provide Buyer with a WREGIS produced report of the generation activity from the Project following each month that the Project generates energy that is being used to Deliver the Product. Such information shall be limited to the amount of electric energy generated by the Project during the Term, and shall not include any information or reference to the transfer of WREGIS Certificates from Seller's account to any other entity.

ARTICLE 4 CPUC FILING AND APPROVAL

Buyer shall file with the CPUC the appropriate request for CPUC Approval of this Confirmation. Buyer shall expeditiously seek CPUC Approval, including promptly responding to any requests for information related to the request for CPUC Approval. Seller shall use commercially reasonable efforts to support Buyer in obtaining CPUC Approval. Buyer has no obligation to seek rehearing or to appeal a CPUC decision which fails to approve this Confirmation or which contains findings required for CPUC Approval with conditions or modifications unacceptable to either Party.

ARTICLE 5 CREDIT AND COLLATERAL

5.1 General Provisions

[The Parties agree that Sections 8.1(b) and 8.2(b) of the EEI Agreement shall not apply to this Confirmation. All implied rights relating to financial assurances arising from Section 2-609 of the Uniform Commercial Code or case law applying similar doctrines, are hereby waived.][**Credit terms will follow the policy outlined in the Credit Section of the RFO.]**

5.2 <u>Seller Collateral Requirements</u>

[Credit terms will follow the policy outlined in the Credit Section of the RFO.]

ARTICLE 6 REPRESENTATIONS, WARRANTIES AND COVENANTS

6.1 <u>Seller's Representation, Warranties, and Covenants</u>

(a) Seller and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement the Renewable Energy Credits transferred to Buyer conform to the definition and attributes required for compliance with the California Renewables Portfolio Standard, as set forth in California Public Utilities Commission Decision 08-08-028, and as may be modified by subsequent decision of the California Public Utilities Commission or by subsequent legislation. To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law.

(b) Seller warrants that all necessary steps to allow the Renewable Energy Credits transferred to Buyer to be tracked in the Western Renewable Energy Generation Information System will be taken prior to the first delivery under the contract. To the extent that the WREGIS Operating Rules require such step(s) to be taken after the first delivery date under the contract and, in those cases, Seller warrants that it will take all such steps within the timelines set forth in the WREGIS Operating Rules

For the avoidance of doubt, the term "contract" as used in the immediately preceding paragraph means this Agreement.

(c) In addition to the foregoing, Seller warrants, represents and covenants, as of the Confirmation Effective Date and throughout the Term that:

- (i) Seller has the contractual rights to sell all right, title, and interest in the Product agreed to be delivered hereunder;
- (ii) Seller has not sold the Product to be delivered under this Confirmation to any other person or entity;
- (iii) at the time of Delivery, all rights, title, and interest in the Product to be delivered under this Confirmation are free and clear of all liens, taxes, claims, security interests, or other encumbrances of any kind whatsoever; and
- (iv) Seller warrants that all necessary steps to allow the Renewable Energy Credits transferred to Buyer to be tracked in the Western Renewable Energy Generation Information System will be taken prior to the first delivery under the contract.

6.2 Seller's Representation, Warranties, and Covenants Related to the Project

Seller warrants, represents and covenants that:

- (a) Seller will inspect, maintain, repair and operate the Project in accordance with applicable industry standards (including those related to safety), the Project's permit requirements, and Accepted Electrical Practices; and
- (b) Seller will abide by all applicable laws in operating the Project.

ARTICLE 7 PAYMENT

For purposes of Article 6 of the EEI Agreement, Seller shall invoice Buyer for the payment amount calculated as: (a) the Contract Price multiplied by (b) the Contract Quantity of the applicable Product specified herein. Buyer shall remit payment for the full amount on the thirtieth day of the calendar month following the month in which Buyer has verified the transfer and Delivery of the Product.

ARTICLE 8 AMENDMENTS TO EEI AGREEMENT

8.1 Force Majeure

Notwithstanding Section 3.3 of the EEI Agreement to the contrary, Buyer and Seller agree that any failure by Seller to deliver the Product pursuant to this Confirmation due to any Force Majeure shall be deemed to be a failure by Seller to perform such delivery obligation if such failure continues for a period of [ninety (90) days] or more after the time such delivery was due to be made. Otherwise, the terms of Section 3.3 of the EEI Agreement shall apply to this Confirmation. Force Majeure may include the failure or disruption in Deliveries by WREGIS that is not the fault of the Party asserting the Force Majeure."

8.2 <u>Governing Law/Waiver of Jury Trial/Venue</u>

For purposes of this Confirmation, Section 10.6, Governing Law, of the EEI Agreement is amended by replacing the Section in its entirety with the following:

"GOVERNING LAW/WAIVER OF JURY TRIAL/VENUE. THIS AGREEMENT AND THE RIGHTS AND DUTIES OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY AND CONSTRUED, ENFORCED AND PERFORMED IN ACCORDANCE WITH THE LAWS OF THE STATE OF CALIFORNIA, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW. TO THE EXTENT ENFORCEABLE AT SUCH TIME, EACH PARTY WAIVES ITS RESPECTIVE RIGHT TO ANY JURY TRIAL WITH RESPECT TO ANY LITIGATION ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT. IN THE EVENT OF ANY LITIGATION TO ENFORCE OR INTERPRET ANY TERMS OF THIS AGREEMENT, THE PARTIES AGREE THAT SUCH ACTION WILL BE BROUGHT IN THE SUPERIOR COURT OF THE COUNTY OF SAN DIEGO, CALIFORNIA (OR, IF THE FEDERAL COURTS HAVE EXCLUSIVE JURISDICTION OVER THE SUBJECT MATTER OF THE DISPUTE, IN THE U.S. DISTRICT COURT FOR THE SOUTHERN DISTRICT OF CALIFORNIA), AND THE PARTIES HEREBY SUBMIT TO THE EXCLUSIVE JURISDICTION OF SUCH COURTS."

8.3 <u>Confidentiality.</u> Section 10.11, Confidentiality, of the EEI Agreement is amended by deleting Section 10.11 in its entirety and inserting the following:

"10.11(a) Neither Party shall disclose the non-public terms or conditions of this Agreement or any transaction hereunder to a third party, other than (i) the Party's Affiliates and its and their officers, directors, employees, lenders, counsel, accountants or advisors who have a

need to know such information and have agreed to keep such terms confidential, (ii) for disclosure to the Buver's Procurement Review Group, as defined in CPUC Decision (D) 02-08-071, subject to a confidentiality agreement, (iii) to the CPUC under seal for purposes of review, (iv) disclosure of terms specified in and pursuant to Section 10.11(b) of this Agreement: (v) in order to comply with any applicable Law, regulation, or any exchange. control area or CAISO rule, or order issued by a court or entity with competent jurisdiction over the disclosing Party ("Disclosing Party"), other than to those entities set forth in subsection (vi); or (vi) in order to comply with any applicable regulation, rule, or order of the CPUC, CEC, or the Federal Energy Regulatory Commission. In connection with requests made pursuant to clause (v) of this Section 10.11(a) ("Disclosure Order") each Party shall, to the extent practicable, use reasonable efforts to prevent or limit such disclosure. After using such reasonable efforts, the Disclosing Party shall not be: (i) prohibited from complying with a Disclosure Order or (ii) liable to the other Party for monetary or other damages incurred in connection with the disclosure of the confidential information. Except as provided in the preceding sentence, the Parties shall be entitled to all remedies available at law or in equity to enforce, or seek relief in connection with, this confidentiality obligation.

<u>10.11(b) RPS Confidentiality</u>. Notwithstanding Section 10.11(a) of this Agreement, at any time on or after the date on which the Buyer makes its filing seeking CPUC Approval of this Agreement, either Party shall be permitted to disclose the following terms with respect to this Agreement: Party names, resource type, Delivery Period, Project location, Contract Quantity, and Delivery Point.

10.11(c) Publicity. Except as otherwise agreed to in Section 10.11(b) above, no announcement, publicity, advertising, press release, promotional or marketing materials regarding the arrangement contemplated under this Agreement, including the existence hereof, shall be made by either Party without the prior written approval of the other Party which approval shall not be unreasonably withheld or delayed." Notwithstanding the foregoing, the Parties understand acknowledge and agree that Buyer is a California Public Agency and that certain actions and documents of Buyer are subject to public notice and/or disclosure under applicable laws and regulations, including, but not limited to, the California Public Records Act and/or the California Ralph M. Brown Act, and that Buyer is not obligated to seek prior approval of Seller when Buyer is complying, in its sole and absolute discretion, with such laws and regulations."

ARTICLE 9 GENERAL PROVISIONS

9.1 <u>Prevailing Wage</u>

To the extent applicable, Seller shall comply with the prevailing wage requirements of Public Utilities Code Section 339.14, subdivision (h).

9.2 Facility Identification [If Project consists of Pooled Facilities]

Within five (5) Business Days after the end of each month during the Delivery Period, Seller shall (a) identify the facility(s) from the Pooled Facility that the Product was delivered from for that month; (b) provide estimates of the quantity of Product that will be provided in the next month and the facility(s) from which it will be provided.

9.3 Assignment

Section 10.5 of the Master Agreement shall be deleted in its entirety and replaced with the following:

Neither Party shall assign this Agreement or its rights hereunder without the prior written consent of the other Party, which consent shall not be unreasonably withheld; provided that either Party may assign this Agreement to an Affiliate without the other Party's consent (and thereby relieving itself from further liability hereunder) so long as (a) the assignee is as creditworthy as the assigning party, or better, (b) the assigning Party notifies the other Party no later than five (5) Business Days before the effective date of the assignment and the assignee assumes in writing all of the assigning Party's obligations and liabilities hereunder. For purposes hereof, the transfer of more than fifty percent (50%) of the equity ownership or voting interest of Seller (or any parent entity holding directly or indirectly at least fifty percent (50%) of the equity ownership or voting interest of Seller if such interest constitutes more than twenty percent (20%) of the fair market value of the assets of such parent entity) to a person that is not an Affiliate of Seller shall also constitute an assignment of this Agreement requiring Buyer's prior written consent. Notwithstanding the foregoing, Buyer may, without the consent of the Seller (and thereby relieving itself from further liability hereunder), assign this Agreement to any legal entity that is established by statute or by the CPUC to serve load as a central procurement entity. Buyer may also assign this Agreement (and thereby relieve itself from further liability hereunder), to a Qualified Assignee, so long as Buyer notifies Seller no later than thirty (30) days before the effective date of the assignment and the assignee assumes in writing all of Buyer's obligations and liabilities hereunder. "Qualified Assignee" shall mean: any community choice aggregation entity formed in the State of California with a Credit Rating of BBB- or better or that provides cash or a Letter of Credit in the amount of the Delivery Period Security Notwithstanding the foregoing, either Party may, without the consent of the other Party (and without relieving itself from liability hereunder), transfer, sell, pledge, encumber, or assign this Agreement or the accounts, revenues or proceeds hereof to its financing providers. In connection with any financing or refinancing of the Project by Seller, Buyer shall in good faith negotiate and agree upon a consent to collateral assignment of this Agreement in a form that is commercially reasonable and customary in the industry.

ARTICLE 10 TERMINATION

Notwithstanding anything to the contrary in the EEI Agreement, including Section 7.1, the Parties shall determine the Termination Payment for this Transaction in accordance with Section 5 of the EEI Agreement. Furthermore, with respect to this Transaction only, the following language is to be added at the end of Section 5.2:

"If Buyer is the Non-Defaulting party and Buyer reasonably expects to incur penalties or fines from the CPUC, the California ISO or any other governmental entity for failure to meet RPS requirements due to Seller's Event of Default, then Buyer may, in good faith, estimate the amount of those penalties or fines and include this estimate in its determination of the Termination Payment, subject to accounting to Seller when those penalties or fines are finally ascertained. The rights and obligations with respect to determining and paying any Termination Payment and any dispute resolution with respect thereto, shall survive termination of this Transaction and shall continue until after those penalties or fines are finally ascertained."

ARTICLE 11 ADDITIONAL EVENTS OF DEFAULT

It shall constitute an Event of Default as to Seller under Section 5.1 of the EEI Agreement if:

(a) Seller sells, assigns, or otherwise transfers, or commits to sell, assign, or otherwise transfer, the Product, or any portion thereof, or any benefits derived therefrom, to any party other than the Buyer; or

(b) Seller or the Project owner fails to maintain CEC Certification or LORS Certification, as applicable, for the Project from the CEC.

ACKNOWLEDGED AND AGREED TO AS OF THE CONFIRMATION EFFECTIVE DATE:

| Ву: | Ву: |
|--------|--------|
| Name: | Name: |
| Title: | Title: |

Exhibit A

[attach EEI]

Appendix 8

2021 Least-Cost Best-Fit("LCBF")

SDG&E's 2021 RPS RFO Evaluation Methodology - Least-Cost Best-Fit

Below is the assessment methodology and process to be taken by SDG&E and the Independent Evaluator ("IE") to ensure that the bid selection process is transparent and does not favor any technology or counterparty, and is aligned with SDG&E's compliance requirements. Although SDG&E has worked diligently with its IE to develop this methodology, this document may require adjustment before issuing of the RFO in order to account for potential market, regulatory, and/or business context changes.

1. Receive all bids prior to the closing date at Noon Pacific Standard Time

- a. Bids will be uploaded to the PowerAdvocate[®] website for any RPS RFO event, to which the IE will have access.
- b. By Noon on the day after closing, SDG&E will accept bids that, because of technical difficulties, could not be uploaded to the PowerAdvocate[®] website. The IE makes the call of "no more bids."

2. After the day after closing, organize bid data

- a. The IE and SDG&E will compare folder structures and file sizes to ensure the bid population of the IE is identical to the bid population to be analyzed by the SDG&E RFO team. To the extent the folders do not match, a reconciliation effort begins until folders match.
- b. The relevant data of all bids is exported into a data table for analysis.

3. Initial Bid Assessment & Completeness Check

a. A snapshot of the key statistics of the bids is produced for presentation to the PRG. These statistics will not include prices; at this stage of the process, bids have not been checked for conformance vis-à-vis the RFO requirements. Bids are reviewed for completeness and certain eligibility requirements.

4. Bid Evaluation

- a. Determine Congestion Cost: SDG&E will conduct a marginal analysis to determine the difference in locational pricing between the project's point of delivery and SDG&E's default load aggregation point ("DLAP"). SDG&E and the IE will add the relevant Congestion Charges to the Bids once derived or obtained from SDG&E Transmission.
 - i. In the event that a congestion study is required, SDG&E and the IE will jointly prepare the relevant data needed for the SDG&E Transmission Planning team to calculate Congestion Costs. This process will group together, on a no-

name basis, the relevant data of bids (mainly anticipated generation and energy delivery profile) by interconnection points. The SDG&E evaluation team or IE will then forward this information to SDG&E's Transmission Planning team.

- Transmission Planning will run studies to determine hourly congestion costs associated with each of the proposed offer groups and provide results to SDG&E's evaluation team and the IE.
- **b.** Determine Transmission Cost: For offers for new projects or projects proposing to increase the size of existing facilities, SDG&E performs an initial analysis of costs for transmission network upgrades or additions that are to be directly reimbursed to the bidder using the relevant transmission network upgrade cost studies submitted with the bids. Offers without transmission upgrade cost studies will be rejected as non-conforming (unless the offer includes acceptable proof of an existing interconnection arrangement).
 - i. The total reimbursable transmission upgrade cost specified in the project's transmission studies will be divided by the number of years in which the utility will reimburse the network transmission costs to the bidder to produce an annual transmission upgrade cost.
 - ii. The present value of the annual transmission upgrade costs will be divided by the present value of the estimated energy deliveries during the contract period to produce the Transmission Cost Charge.
 - iii. SDG&E and the IE will add the relevant Transmission Cost Charges to the Bids once they are determined from the transmission cost studies submitted with the Bids and confirmed by both SDG&E and the IE after mutual agreement.
- **c.** Calculate the Energy Benefit: The Energy Benefit is calculated based on forecasted electricity prices for each contract year.
- **d. Calculate the Ancillary Services Benefit:** The Ancillary Services ("A/S") Benefit is calculated based on a 2-year historical ratio of A/S prices to energy prices. This ratio is applied to the forecasted electricity price for each A/S type: Spin, Non-Spin, Regulation Up and Regulation Down, for each month to determine the forecasted A/S prices. The forecasted A/S prices are multiplied by the product of the available A/S capacity for each of the A/S types and the expected commitment percentage to determine the A/S Benefit. The expected commitment percentage is a 2-year historical ratio of A/S capacity offered versus A/S awarded in the CAISO Day-Ahead Market for each of the A/S types.

e. Calculate the Capacity Benefit: Capacity Benefit will be calculated as a percentage of Capacity Value as described below. Capacity Value is based on the estimated Net Qualifying Capacity ("NQC") ratio for each technology multiplied by SDG&E's forecasted capacity price. NQC will be calculated using both the existing exceedance methodology and the effective load carrying capacity methodology ("ELCC").

For projects located in SDG&E's service territory connecting to transmission or distribution facilities at a point that is electrically west of the ECO or Suncrest substations ("Local Area Projects") bidding as fully deliverable:¹

Capacity Benefit = 100 % of Capacity Value

For projects that are in the greater Imperial Valley ("IV") area as defined by the CAISO,² meaning those projects connecting to transmission or distribution facilities at a point that is at, or electrically east of, the ECO or Suncrest substations bidding as fully deliverable³ and for projects other than Local Area Projects or IV Area Projects that still qualify for Resource Adequacy pursuant to the CAISO Tariff ("System Area Projects") bidding as fully deliverable:

Capacity Benefit = Capacity Value x 33.59%

For all energy-only projects, or projects interconnected to non-California Balancing Authorities unable to provide resource adequacy benefits to SDG&E that are specific to the project being bid to SDG&E:

Capacity Benefit = 0

Resource adequacy substitutions will not be granted any non-zero Capacity Benefit projects under SDG&E's RPS bid process.

f. Calculate the Renewable Integration Cost Adder:⁴ The integration cost adder will be calculated using the adopted interim valuation methodology. This methodology calculates two components for the cost of integration:

¹ Projects connecting at the ECO or Boulevard Substation are considered to be IV Area Projects for these purposes.

² Please refer to the CAISO's 2014 Local Capacity Technical Analysis, Final Report and Study Results, April 30, 2013.

³ Projects connected to the Imperial Valley, Drew, Ocotillo, ECO or Boulevard Substations are considered to be IV Area Projects for these purposes.

⁴ SDG&E's valuation process does not lead to double-counting of the Integration Cost adder. The creation of SDG&E's price forecasts does not use the Integration Cost adder as an input. The

- 1. Variable integration cost
- Fixed integration cost the cost to SDG&E of procuring additional flexible and non-flexible RA over the contract period. This is a product of (a) and (b) below:
 - a. The monthly increase (or decrease) in flexible capacity requirement due to the increment of wind or solar being considered for the solicitation. Calculated based on the overall system flexible capacity requirement and then applies the percentage contribution from wind and solar.
 - b. The forecasted monthly flexible RA price.
- g. Calculate Net Market Value: For bundled product purchase offers, convert Bid prices into the Net Market Value (NMV) prices as follows:
 For bundled products NMV = (Energy Benefit + Ancillary Services Benefits + Capacity Benefits) (Levelized Contract Cost + Transmission Cost + Congestion Cost) (Integration Cost Adder)
 For unbundled RECs: the negative unbundled REC price measured in \$/MWh

5. Develop Shortlist:

SDG&E determines its RPS Compliance Period 3 and 4 Renewable Net Short ("RNS") as described in its RPS Plan and ranks all the Bids by LCBF price until SDG&E has met its need. The shortlist ranking enables SDG&E to determine which offers are most attractive based on an NMV price.

Offers with deliveries outside the acceptable RPS delivery windows will be considered nonconforming, unless SDG&E's need assessment has changed materially between the time of issuance of this RPS Plan and the determination of the shortlist.

6. Final Shortlists:

a. The highest ranking bids are subjected to a detailed conformance screen before being added to the shortlist.⁵ To the extent offers are not conforming, SDG&E will likely discard (given the high number of anticipated offers) the bid.

Integration Cost adder is applied in the LCBF process during the NMV calculation, as a separate component that differentiates variable renewable energy resources from each other and other resource types. The calculated energy benefit attributed to renewable resources in the NMV calculation is the same with or without an Integration Cost adder, which is added later in the valuation process.

⁵ Conformance check will start earlier if possible.

- b. Qualitative Factors: SDG&E may review the qualitative factors of offers of similar cost,⁶ including: (in no particular order)
 - Project Viability⁷
 - Local reliability
 - Benefits to Disadvantaged Communities: Disadvantaged Communities (DAC) are those identified as Environmental Justice (EJ) communities through California's Environmental Protection Agency's CalEnviroScreen 2.0. Offer documents must include any environmental or economic benefits that the proposed project would provide to EJ communities with high poverty or unemployment rates, and/or high emission levels of toxic air contaminants.
 - Resource diversity
 - Environmental stewardship
 - Rate Impacts
 - Workforce Development Assessment: Offer documents must include projected California employment growth during construction and operation, including: number of hires; duration of hire; and indication of whether the bidder has entered into Project Labor Agreements or Maintenance Labor Agreements in California for the proposed project.
- c. SDG&E and the IE will then develop the preliminary final shortlists that includes congestion costs and transmission cost study results. Qualitative factors may impact the final shortlist.
- d. The preliminary final shortlist is prepared and shared with the PRG during the next viable meeting.
- e. After discussion with the PRG and the Energy Division, SDG&E will determine the final shortlist.

⁶ The term "similar cost" is used to indicate expected indifference by the PRG and CPUC as to the cost of one offer or another. The PRG will have access to SDG&E's evaluation and the quantitative and qualitative components of those offers prior to SDG&E's recommendation filing to the CPUC.

⁷ SDG&E considers project viability as a qualitative factor and relies on the Energy Division's Project Viability Calculator. For projects that SDG&E rejects due to low viability scores, SDG&E rescores the projects to affirm the bidder did not unfairly score itself too low. For projects that SDG&E shortlists, SDG&E rescores the project to affirm that the bidder did not unfairly score itself too high. Projects below a certain viability threshold will not be considered for the shortlist.

Appendix 9

2021 RPS Sales RFP

2021

REQUEST FOR PROPOSAL FOR THE SALE OF RENEWABLE ENERGY PRODUCTS

ISSUED []

OFFERS DUE []

RFP WEBSITE
[]

EMAIL QUESTIONS/COMMENTS TO RECsaleRFP@sdge.com

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1.0 SCOPE OF REQUEST

As authorized by D.XX-XX-XXX, San Diego Gas & Electric Company ("SDG&E") is issuing this Request for Proposal ("RFP") seeking proposals from third parties ("Respondents") who are interested in purchasing products from eligible renewable resources under contract with SDG&E ("Resources"). By responding, Respondents are bound by the terms and conditions of this RFP. Products are derived from Resources that meet the California Renewables Portfolio Standard ("RPS") eligibility criteria set forth by the California Energy Commission ("CEC") (See Section 5.0 for additional information on RPS Program Parameters). This RFP solicits bids from financial institutions, energy service providers, utilities, municipal utilities, industrial end users, wholesale power marketers, and any other entity that would have a need to purchase bundled energy and Renewable Energy Credits ("RECs"), unbundled RECs, and/or RPS Contracts.

| | Bundled Firm | Bundled Unit Contingent | Unbundled |
|----------------|------------------------|--------------------------|------------------------|
| Product Types: | Bundled Energy and | Bundled Energy and RECs | Unbundled RECs |
| | RECs from pool of RPS- | from specific project(s) | |
| | eligible projects | only | |
| Minimum | 1 Month | 1 Month | One-time transfer of |
| Term: | | | firm quantities |
| Maximum | 1 Year (12 months) | 10 Years (120 months) | Recurring transfers of |
| Term: | | | unit contingent |
| | | | quantities during Term |
| | | | up to 10 years |
| Delivery | Start no earlier than | Start no earlier than | Start no earlier than |
| Window: | CPUC Approval ("X"), | CPUC Approval ("X"), End | CPUC Approval |
| | End no later than X+12 | no later than X+120 | |
| | months ² | months ³ | |
| Point of | Point of | Point of Interconnection | n/a |
| Delivery: | Interconnection of the | of the Project to the | |
| | Project to the CAISO | CAISO Grid | |
| | Grid | | |
| Min Volume: | No Min | No Min | No Min |

Table 1 – Acceptable Product Types¹

¹ RPS Contract Assignment/Novation may be offered in a solicitation.

² Respondent to propose dates for purchase (See "Delivery Period" in RFP WSPP Agreement).

³ Respondent to propose dates for purchase (See "Delivery Period" in RFP WSPP Agreement).

A. Definition of Products

SDG&E is required to serve its customers with 33% of retail sales from renewable resources by December 31, 2020, with reasonable progress made in 2017-2019 ("Compliance Period" or "CP" 3). Following CP3, the renewable procurement requirements are: (a) 44% of retail sales by December 31, 2024, with reasonable progress made in 2021-2023 (CP4); (b) 52% of retail sales by December 31, 2027, with reasonable progress made in 2025-2026 (CP5); (c) 60% of retail sales by December 31, 2030, with reasonable progress made in 2028-2029 (CP6); and (d) 60% of retail sales for all subsequent CPs.

SDG&E must meet these goals by procuring renewable resources that meet the requirements of the products outlined in Public Utilities Code 399.16(b). A summary of two eligible product types is provided below:

(Public Utilities Code 399.16(b)(1)(A-B)): Bundled Energy Products

- Must have first point of interconnection ("POI") with a California Balancing Authority ("CBA"); **or**
- Must have first POI with distribution facilities used to serve end users within a CBA; or
- Must be scheduled from the eligible renewable resource ("ERR") into a CBA without substituting electricity from another source⁴; or
- Have an agreement to dynamically transfer electricity to a CBA.

(Public Utilities Code 399.16(b)(3): Unbundled Renewable Energy Credits ("RECs")

• ERR products, or any fraction of the electricity generated, **including unbundled RECs**, that do not qualify under 399.16(b)(1-2).

Projects from SDG&E's portfolio made available to eligible Participants are RPS-eligible resources that are interconnected to the CAISO grid, or located in Imperial Valley (or outside California) and dynamically transferred via pseudo-tie into CAISO.

SDG&E is not selling Resource Adequacy ("RA") with any of these transactions. The final portfolio sale will be shaped as specified by the seller in the bid form. Offered resources may be:

1) Re-powered or existing facilities;

⁴ If using another source to provide real-time ancillary services required to maintain an hourly or sub-hourly import schedule into a CBA is permitted, but only the fraction generated by the ERR will count as a bundled energy product.

- 2) New facilities;
- 3) New facilities that are scheduled to come online during the years specified in this RFP; and/or
- 4) Other facilities.

B. Transaction Documents

a) Bundled Energy Products (Bundled Firm and Bundled Unit Contingent)

Respondents bidding on bundled energy products must mark up SDG&E's Long-form Confirmation to the Western Systems Power Pool ("WSPP") Agreement. Any resulting agreement shall be subject to CPUC approval. Additional respondent criteria are described in Section [] "Products & Eligibility Requirements."

b) Unbundled REC Agreements (Unbundled Firm and Unbundled Unit Contingent)

Respondents bidding on unbundled RECs products must mark up SDG&E's Long-form Confirmation to the WSPP or EEI Agreement. Any resulting agreement shall be subject to CPUC approval. Additional eligibility requirements are described in Section [] "Products & Eligibility Requirements".

2.0 RFP WEBSITE AND COMMUNICATIONS

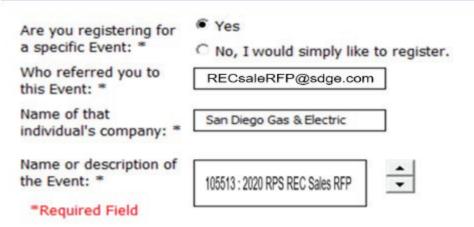
The RFP and all subsequent revisions and documents are available for download from the RFP Website []. Potential Respondents are responsible for monitoring the RFP Website for subsequent updates, notices and postings.

Offers for the 2020 RPS REC Sale RFP must be submitted through the PowerAdvocate[®] website. Offerors intending to submit an Offer but who do not yet have an existing account with PowerAdvocate[®] must first register to create a username/password to receive access to the event. See below for instructions to log in/register:

First-time users must register as a <u>Supplier</u> using the instructions above and the Referral information below to access the RFP event:

| - | Logging In You access the PowerAdvocate platform via a web browser. | | |
|-------|---|--|--|
| To lo | g in | | |
| 1. | Open a web browser and go to www.poweradvocate.com. | | |
| | PowerAdvocate functions in most web browsers; however, using browsers other than Internet Explorer (IE) version 6 or higher may cause certain functionality to work unexpectedly. Should you encounter problems, PowerAdvocate support may be unable to provide assistance until the issue has been replicated in a supported version of Internet Explorer. | | |
| 2. | Click Login. | | |
| | The Login page appears; you may wish to bookmark it for quick access. | | |
| 3. | Enter your account User Name and Password. | | |
| | Both are case-sensitive. | | |
| | If you do not have an account, go to poweradvocate.com and click the Registration link at the top of the page. If you have an account but do not remember your user information, click Forgot User Name or Forgot Password and they will be emailed to you. | | |
| 4. | Click Login. | | |

Referral Information



Users with an existing PowerAdvocate[®] account may request access to the event by searing open RFPS or by using the link below:

Public Registration Link: []

All questions or other communications regarding this RFP must be submitted via email to SDG&E's RFP inbox <u>RECsaleRFP@sdge.com</u> and <u>MUST</u> cc the Independent Evaluator (IE) []. SDG&E will not accept questions or comments in any other form, except at the Bidder's Conference. Questions submitted after the deadline as specified in the RFP Schedule will only be answered at the sole discretion of SDG&E or the IE. All questions and their answers will be posted publicly on this website anonymously soon after receipt. We cannot respond directly to or confidentially to any questions.

3.0 RFP SCHEDULE

The following schedule and deadlines apply to this RFP. SDG&E reserves the right to revise this schedule at any time and in SDG&E's sole discretion. Respondents are responsible for accessing the RFP Website for updated schedules and possible amendments to the RFP or the solicitation process.

| NO. | ITEM | APPROX. DATE |
|-----|--|--------------|
| 1. | RFP Issued | |
| 2. | Pre-Bid Conference (Webinar) | |
| | DEADLINE TO SUBMIT QUESTIONS | |
| 3. | Question submittal cut-off date. Answers to all questions will be posted on the website no later than 3 business days following question submittal cutoff date | |
| 4. | CLOSING DATE: Offers must be submitted to PowerAdvocate [®] website no later than NOON (Pacific Standard Time). | |
| 6. | SDG&E notifies shortlisted Bidder(s). | |
| 8. | SDG&E submits FINAL list of shortlisted Bidders to Commission and PRG. | |
| 9. | SDG&E issues appreciation notices to unsuccessful Bidders. | |
| 10. | SDG&E commences with Transaction Document negotiations. | |
| 11. | SDG&E submits Tier 1 or Tier 3 Advice Letter(s) with agreements for Commission approval. | |

PRE-BID CONFERENCES

SDG&E will host one pre-bid webinar conference on []. While encouraged, participation in the pre-bid conference is NOT mandatory to submit an offer. Please monitor the RFP Website periodically. The venue and time of the pre-bid conference will be posted as soon as arrangements are finalized.

Any party interested in attending this pre-bid conference and/or webinar should email the following information to <u>RECsaleRFP@sdge.com</u>. Please limit your participation to two representatives per organization.

- Company name
- Attendees' names, titles and contact information

4.0 RFP RESPONSE INSTRUCTIONS

Forms are available on the RFP Website. The failure to provide the listed information may result in the bids being deemed non-conforming and may disqualify the proposal from further consideration.

Required Forms for Bundled Energy Product Offers:

- 1) Participation Summary and Bid Form
- 2) Credit Application
- 3) Transaction Document Respondents shall populate and redline the Transaction Agreement.

Required Forms for Unbundled REC Offers:

- 1) Participation Summary and REC Bid Form
- 2) Credit Application
- 3) Model REC Agreement To be provided by SDG&E at time of shortlisting.

Submissions containing unsolicited materials or submissions of individual Offer documents in file formats other than the formats of the original Offer forms, will be rejected. This RFP is an electronic only Solicitation; Respondents need not submit paper documents nor e-binders.

All offer materials submitted in accordance with the above Response Instructions shall be subject to the confidentiality provisions of Section 10 "Confidentiality" of this RFP.

SDG&E will review and may utilize all information, if any, submitted by a Respondent that is not specifically requested as a part of any forms. During all stages of the RFP process, SDG&E reserves the right to request additional information from individual Respondents or to request any Respondent to submit supplemental materials in fulfillment of the content requirements of this RFP or to meet additional information needs. SDG&E also reserves the unilateral right to waive any technical or format requirements contained in the RFP.

ALL BIDS SHOULD BE VALID AND BINDING FOR THE DURATION OF THE RFP.

SDG&E WILL NOT REIMBURSE RESPONDENTS FOR THEIR EXPENSES UNDER ANY CIRCUMSTANCES, REGARDLESS OF WHETHER THE RFP PROCESS PROCEEDS TO A SUCCESSFUL CONCLUSION OR IS ABANDONED BY SDG&E IN ITS SOLE DISCRETION.

5.0 RPS PROGRAM PARAMETERS

CALIFORNIA RPS PROGRAM

California's Renewable Portfolio Standard ("RPS") Program was adopted in 2002 and is codified at Public Utility Code sec 399.11, *et seq.*⁵ In adopting the RPS legislation, the Legislature specifically found and declared that increasing California's reliance on renewable energy resources promotes the purpose of and may accomplish each of the following:

- Increase the diversity, reliability, public health and environmental benefits of the energy mix
- Promote stable electricity prices
- Protect public health and improve environmental quality
- Stimulate sustainable economic development and create new employment opportunities
- Reduce reliance on imported fuels
- Ameliorate air quality problems
- Improve public health by reducing the burning of fossil fuels

Current law requires retail sellers to procure renewable energy in the amount of 60% of retail sales by 2030.⁶ Unlike the prior annual RPS program, the 60% regime sets increasing targets for multi-year Compliance Periods ("CPs"). The CPUC issued its first decision implementing the RPS Program, D.03-06-071 on June 19, 2003. This decision established certain basic RPS Program parameters. The CPUC has subsequently issued several additional RPS-related decisions in rulemaking proceeding R.04-04-026, and successor proceedings R.06-02-012, R.06-05-027, R.08-08-009, R.11-05-005, R.15-02-020, and R.18-07-003. SDG&E will comply with all CPUC decisions governing RPS procurement. These decisions are publicly available on the CPUC's website at: https://www.cpuc.ca.gov/RPS_Overview/

RPS ELIGIBILITY CRITERIA

Resources being offered in this solicitation are certifiable as an "eligible renewable resource" by the CEC. Eligibility criteria are set forth by the CEC in its Renewable Portfolio Standard Eligibility which Guidebook, downloaded CEC's website can be from the at http://www.energy.ca.gov/renewables/documents/index.html. Respondents are encouraged to review all RPS-related, CEC issued directives available on the same Internet website and are responsible for understanding and abiding by all RPS provisions. All requirements set forth within the CEC's guidebooks and all RPS-related documents shall be incorporated herein by reference.

⁵ See, Senate Bill (SB) 1078 (Stats. 2002 Ch. 516), as amended by SB 107, (Stats. 2006, Ch. 464).

⁶ See, Senate Bill (SB) 100.

PROCUREMENT REVIEW GROUP

The Procurement Review Group ("PRG"), a CPUC-endorsed entity, is composed of non-market participants such as ratepayers' advocacy groups, state energy commissions, power authorities, utility-related labor unions and other non-commercial, energy-related special interest groups. CPUC Decision D.03-06-071 established the role of the PRG. The PRG is charged with overseeing the IOU's procurement process, reviewing procedural fairness, examining overall procurement prudence and providing feedback during all stages. From RFP language development to offer evaluation to contract negotiation, IOUs brief the PRG on a periodic basis during the entire process.

Respondents are hereby notified that revealing confidential offer information to the PRG is required during PRG briefings in accordance with Section 11 ("Confidentiality"). Each Respondent must clearly identify, as part of its offer, what type of information it considers to be confidential.

INDEPENDENT EVALUATOR

The CPUC requires each IOU to use an Independent Evaluator to separately evaluate and report on the IOU's entire solicitation, evaluation, and selection process for this solicitation. This will serve as an independent review of SDG&E's implementation of the RFP process and final selections. The Independent Evaluator shall make periodic presentations regarding its findings to the IOU, and the IOU's PRG including the CPUC Energy Division staff. The intent is to preserve the independence of the Independent Evaluator by ensuring free and unfettered communication between the Independent Evaluator and the CPUC as well as an open, fair, and transparent process that the Independent Evaluator can affirm.

SDG&E is committed to ensuring an open and transparent solicitation, and to providing a fair, reasonable and competitive process.

6.0 SDG&E BACKGROUND

<u>SDG&E</u> is a regulated public utility that provides clean, safe and reliable energy service to 3.6 million consumers through 1.4 million electric meters and 873,000 natural gas meters in San Diego and southern Orange counties. The utility's area spans 4,100 square miles. SDG&E is committed to creating ways to help customers save energy and money every day. SDG&E is a subsidiary of <u>Sempra Energy</u> (NYSE: SRE), a Fortune 500 energy services holding company based in San Diego. Connect with SDG&E's Customer Contact Center at 800-411-7343, on <u>Twitter</u> (@SDGE) and <u>Facebook</u>.



For a map California IOU service territories please visit: <u>http://www.energy.ca.gov/maps/serviceareas/electric_service_areas.html</u>

7.0 PRODUCTS & ELIGIBILITY REQUIREMENTS

A. Compliance Periods.

In this RFP, SDG&E intends to offer bundled and unbundled RECs for the periods defined in Table 2 of this document. Such products are defined below.

I. Bundled Energy Products (Bundled Firm and Bundled Unit Contingent)

- a. Term: 10 years or less
- b. Pricing: Index Price plus Green Attributes Price \$/MWh
- c. Volume: To be bid in

II. Unbundled REC Products (Unbundled Firm and Unbundled Unit Contingent)

- a. Term: One-time transfer or recurring unit contingent transfers during specified term up to 10 years to designated WREGIS Account
- b. Pricing: Bid REC price expressed in \$/MWh
- c. Volume: To be bid in

Eligibility Requirements

- 1. WREGIS Account; and
- 2. Credit Capability (See Section 12.0 "Credit Terms and Conditions').

8.0 EVALUATION CRITERIA AND SHORTLISTING

All incoming Bids will be assessed for conformance to the RFP requirements. Respondents shall conform to the minimum eligibility criteria in order to be considered, please see RFP Response Instructions.

SDG&E will utilize all the information provided in the required forms and narratives to evaluate all Bids. Respondents are responsible for the accuracy of all information provided in response to this RFP.

SDG&E will periodically brief the members of the PRG during the various stages of evaluation. Upon completion of SDG&E's evaluation process, SDG&E will brief the PRG members regarding SDG&E's recommendations for its shortlist. Based upon the comments and recommendations received from the PRG, SDG&E may modify the preliminary list of shortlisted bids.

QUANTITATIVE EVALUATION

SDG&E evaluates and ranks bids based on the pricing, volume and term information provided by the Bidders. SDG&E's analysis evaluates both quantitative and qualitative aspects of each bid to estimate its value to SDG&E's customers and its relative value in comparison to other Offers. SDG&E considers the value of selling Renewable Energy as compared to the potential value of using such Renewable Energy to defer future RPS purchases to meet RPS compliance targets through REC banking. The quantitative valuation of an Offer takes into account SDG&E's RPS position and any opportunity costs associated with each transaction. A bid that minimizes overall cost to SDG&E's customers and satisfies all volumetric and timing constraints will be selected. The Offer will be shortlisted if it fulfills the quantitative and qualitative criteria and SDG&E decides to move forward to close a transaction.

QUALITATIVE EVALUATION

Qualitative factors and benefits may be used to determine advancement onto the shortlist or evaluate tie-breakers, if any.

ADHERENCE TO TERMS AND CONDITIONS

Respondents may not make material modification(s) to the supplied Transaction Documents. SDG&E will review modifications of any terms and conditions proposed in the Offer and consider the materiality of these changes. Material changes will result in disqualification.

BID CONFORMANCE EVALUATION

In addition to the elements described above, SDG&E may also reject a Bid if:

- 1. SDG&E uncovers evidence of market manipulation in the bid preparation and Offer process;
- 2. The Respondent does not provide adequate evidence it meets minimum participation criteria;
- 3. If there is a question as to whether the bids meet minimum eligibility criteria;
- 4. If the Respondent cannot fulfill the terms and conditions of the supplied Transaction Documents;
- 5. If the Respondent is unable to comply with RFP timing and other solicitation requirements; and/or
- 6. Respondent in SDG&E's sole judgment may not be able to provide or maintain the level of security of the transaction.

9.0 **REJECTION OF OFFERS**

WHILE SDG&E IS MINDFUL OF THE BENEFITS OF THIS RFP, IT MAKES NO GUARANTEE THAT A CONTRACT AWARD SHALL RESULT FROM THIS RFP EVEN AFTER A BID HAS BEEN SHORTLISTED. IN ADDITION, SDG&E NOTES THAT SHORTLISTING A BID DOES NOT CONSTITUTE SDG&E ACCEPTANCE OF ALL REDLINED CHANGES TO THE REQUIRED TRANSACTION AGREEMENT. SDG&E RESERVES THE RIGHT AT ANY TIME, AT ITS SOLE DISCRETION, TO ABANDON THIS RFP PROCESS, TO CHANGE THE BASIS FOR EVALUATION OF BIDS, TO TERMINATE FURTHER PARTICIPATION IN THIS PROCESS BY ANY PARTY, TO ACCEPT ANY BID OR TO ENTER INTO ANY DEFINITIVE AGREEMENT, TO EVALUATE THE QUALIFICATIONS OF ANY RESPONDENT OR THE TERMS AND CONDITIONS OF ANY BID, OR TO REJECT ANY OR ALL BIDS, ALL WITHOUT NOTICE AND WITHOUT ASSIGNING ANY REASONS AND WITHOUT LIABILITY OF SEMPRA ENERGY, SDG&E, OR ANY OF THEIR SUBSIDIARIES, AFFILIATES, OR REPRESENTATIVES TO ANY RESPONDENT. SDG&E SHALL HAVE NO OBLIGATION TO CONSIDER ANY BID.

10.0 CONFIDENTIALITY

EXCEPT AS STATED BELOW OR WITH THE PRIOR WRITTEN CONSENT OF SDG&E, RESPONDENTS MAY NOT DISCLOSE (OTHER THAN BY ATTENDANCE ALONE AT ANY MEETING TO WHICH MORE THAN ONE RESPONDENT IS INVITED BY SDG&E) TO ANY OTHER RESPONDENT OR POTENTIAL RESPONDENT THEIR PARTICIPATION IN THIS RFP, AND RESPONDENTS MAY NOT DISCLOSE, COLLABORATE ON, OR DISCUSS WITH ANY OTHER RESPONDENT, OFFER STRATEGIES OR THE SUBSTANCE OF OFFERS, INCLUDING WITHOUT LIMITATION THE PRICE OR ANY OTHER TERMS OR CONDITIONS OF ANY INDICATIVE OR FINAL OFFER. RESPONDENT MAY DISCLOSE THEIR PARTICIPATION IN THIS RFP, THEIR OFFER INFORMATION, AND THE NEGOTIATION PROCESS, TO THE CPUC, ITS STAFF, THE PRG AND THE IE UNDER APPROPRIATE CONFIDENTIALITY PROTECTIONS.

SDG&E WILL USE THE HIGHER OF THE SAME STANDARD OF CARE IT USES WITH RESPECT TO ITS OWN PROPRIETARY OR CONFIDENTIAL INFORMATION OR A REASONABLE STANDARD OF CARE TO PREVENT DISCLOSURE OR UNAUTHORIZED USE OF RESPONDENT'S CONFIDENTIAL AND PROPRIETARY INFORMATION THAT IS LABELED AS "PROPRIETARY AND CONFIDENTIAL" ON THE OFFER PAGE ON WHICH THE PROPRIETARY INFORMATION APPEARS ("CONFIDENTIAL INFORMATION"). RESPONDENT SHALL SUMMARIZE ELEMENTS OF THE OFFER(S) IT DEEMS CONFIDENTIAL. THE SUMMARY MUST CLEARLY IDENTIFY WHETHER PRICE, PROJECT NAME, LOCATION, SIZE, TERM OF DELIVERY AND TECHNOLOGY TYPE (EITHER COLLECTIVELY OR INDIVIDUALLY) ARE TO BE CONSIDERED CONFIDENTIAL INFORMATION. CONFIDENTIAL INFORMATION MAY BE MADE AVAILABLE ON A "NEED TO KNOW" BASIS TO SDG&E'S DIRECTORS, OFFICERS, EMPLOYEES, CONTRACTORS, CONSULTANTS, THE INDEPENDENT EVALUATOR, AGENTS AND ADVISORS ("REPRESENTATIVES") FOR THE PURPOSE OF EVALUATING RESPONDENT'S OFFER, BUT SUCH REPRESENTATIVES SHALL BE REQUIRED TO OBSERVE THE SAME CARE WITH RESPECT TO DISCLOSURE AS SDG&E.

NOTWITHSTANDING THE FOREGOING, SDG&E MAY DISCLOSE ANY OF THE CONFIDENTIAL INFORMATION TO COMPLY WITH ANY LAW, RULE, OR REGULATION OR ANY ORDER, DECREE, SUBPOENA OR RULING OR OTHER SIMILAR PROCESS OF ANY COURT, SECURITIES EXCHANGE, CONTROL AREA OPERATOR, GOVERNMENTAL AGENCY OR GOVERNMENTAL OR REGULATORY AUTHORITY AT ANY TIME EVEN IN THE ABSENCE OF A PROTECTIVE ORDER, CONFIDENTIALITY AGREEMENT OR NON-DISCLOSURE AGREEMENT, AS THE CASE MAY BE, WITHOUT NOTIFICATION TO THE RESPONDENT AND WITHOUT LIABILITY OR ANY RESPONSIBILITY OF SDG&E TO THE RESPONDENT.

IT IS EXPRESSLY CONTEMPLATED THAT MATERIALS SUBMITTED BY A RESPONDENT IN CONNECTION WITH THIS RFP WILL BE PROVIDED TO THE CPUC, ITS STAFF, THE CEC, ITS STAFF, AND THE PRG. SDG&E WILL SEEK CONFIDENTIAL TREATMENT PURSUANT TO CPUC DECISION NUMBER 06-06-066 AND ITS SUCCESSIVE DECISIONS, PUBLIC UTILITIES CODE SECTION 583 AND GENERAL ORDER 66-D OF THE CPUC, WITH RESPECT TO ANY RESPONDENT CONFIDENTIAL INFORMATION SUBMITTED BY SDG&E TO THE CPUC FOR THE PURPOSES OF OBTAINING REGULATORY APPROVAL. SDG&E WILL ALSO SEEK CONFIDENTIALITY PROTECTION FROM THE CEC FOR RESPONDENT'S CONFIDENTIAL INFORMATION AND WILL SEEK CONFIDENTIALITY AND/OR NON-DISCLOSURE AGREEMENTS WITH THE PRG. SDG&E CANNOT, HOWEVER, ENSURE THAT THE CPUC OR CEC WILL AFFORD CONFIDENTIAL TREATMENT TO A RESPONDENT'S CONFIDENTIAL INFORMATION OR THAT CONFIDENTIALITY AGREEMENTS OR ORDERS WILL BE OBTAINED FROM AND/OR HONORED BY THE PRG, CEC, OR CPUC.

SDG&E, ITS REPRESENTATIVES, SEMPRA ENERGY, AND ANY OF THEIR SUBSIDIARIES DISCLAIM ANY AND ALL LIABILITY TO A RESPONDENT FOR DAMAGES OF ANY KIND RESULTING FROM DISCLOSURE OF ANY OF RESPONDENT'S INFORMATION.

11.0 CREDIT TERMS AND CONDITIONS

SDG&E has the unilateral right to evaluate and determine the credit-worthiness of the Respondent relative to this RFP. The Respondent is required to complete, execute and submit the RFP credit application as part of its offer. The application requests financial and other relevant information needed to demonstrate creditworthiness. Respondents may download the application from the RFP Website.

All credit support arrangements (e.g., parent guaranty letter of credit, or cash) must be negotiated prior to an offer being accepted as a winning offer. The form of the security (e.g.

parent guaranty, letter of credit, or cash) will be at SDG&E's sole discretion and will depend on various factors including Respondent's credit-worthiness, product type, the volume and the term of the agreement. A guaranty template and a letter of credit template may be downloaded from the RFP Website as separate attachment to the Transaction Document.

12.0 CPUC APPROVAL

SDG&E may, in its sole discretion, submit all signed agreements to the CPUC for approval. CPUC approval that is final and non-appealable will be required as a condition precedent to the effective date of any contract resulting from this RFP. Deliveries under any contract will not start prior to CPUC approval.

Appendix 10

2021 RPS Sales Model PPA (Bundled Product)

WSPP AGREEMENT CONFIRMATION BETWEEN SAN DIEGO GAS & ELECTRIC COMPANY AND [INSERT NAME]

This confirmation letter ("Confirmation") confirms the transaction ("Transaction") between San Diego Gas & Electric Company ("Seller" or "SDG&E" "Party B") and _______ ("Buyer" or "Party A"), each individually a "Party" and together the "Parties", effective as of _______, 2018 (the "Confirmation Effective Date"). This Transaction is governed by the WSPP Agreement effective as of June 21, 2018 (the "Master Agreement"), along with any amendments and annexes executed between the Parties thereto (the "Master Agreement"). The Master Agreement and this Confirmation shall be collectively referred to herein as the "Agreement." Capitalized terms used but not otherwise defined in this Confirmation have the meanings ascribed to them in the Master Agreement, Tariff or RPS (as defined below). If any term in this Confirmation conflicts with the Master Agreement, the definitions set forth in this Confirmation shall supersede.

| Contact Information: | Name: [INSERT] (" <u>Buyer</u> ") | Name: San Diego Gas & Electric Company (" <u>Seller</u> ") |
|-------------------------|-----------------------------------|---|
| | All Notices: | All Notices: |
| | | San Diego Gas & Electric Company |
| | Attn: | 8315 Century Park Court |
| | Phone: | San Diego, CA Zip: 92123 |
| | Facsimile: | Attn: Electric & Fuel Procurement |
| | Duns: | Contract Administration |
| | Federal Tax ID Number: | Phone: (858) 650-5536 |
| | | Facsimile: (858) 650-6190 |
| | | Duns: 006911457 |
| | | Federal Tax ID Number: 95-1184800 |
| | Invoices: | Invoices: |
| | | San Diego Gas & Electric Company |
| | | 8315 Century Park Ct. |
| | | San Diego, California 92123-1593 |
| | | Attn: Energy Accounting Manager |
| | | Phone: (858) 650-6177 |
| | | Facsimile: (858) 650-6190 |
| | Wire Transfer: | Wire Transfer: |
| | | BNK: Union Bank of California |
| | | for: San Diego Gas & Electric Company |
| | | ABA: Routing # 122000496 |
| | | ACCT: #4430000352 |
| | | Confirmation: SDG&E, Major Markets |
| | | FAX:(213) 244-8316 |

CONTACT INFORMATION

| Credit and Collections: | Credit and Collections: |
|-------------------------------------|---|
| | San Diego Gas & Electric Company, Major |
| | Markets |
| | 555 W. Fifth Street, ML 10E3 |
| | Los Angeles, CA 90013-1011 |
| | Attn.: Major Markets, Credit and |
| | Collections Manager |
| | Fax No.: (213) 244-8316 |
| | Phone: (213) 244-4343 |
| | |
| Defaults: | Defaults: |
| With additional Notices of an Event | With additional Notices of an Event of |
| of Default or Potential Event of | Default or Potential Event of Default to: |
| Default to: | San Diego Gas & Electric Company |
| | 8330 Century Park Ct. |
| | San Diego, California 92123 |
| | Attn: General Counsel |
| | Phone: (858) 650-6141 |
| | Facsimile: (858) 650-6106 |

ARTICLE 1. COMMERCIAL TERMS

The Parties hereby agree that the General Terms and Conditions are incorporated herein, and to the following provisions as provided for in the General Terms and Conditions:

| Product: | The "Product" is [for Firm deliveries: Firm Delivery; for As-available deliveries: As- Available Delivery] Obligation electric energy and associated Green Attributes in the Contract Quantity. During the Delivery Period, Seller shall deliver and sell, and Buyer shall purchase and receive, this Product, subject to the terms and conditions of this Confirmation. Seller shall not substitute or purchase any Green Attributes from any generating resource other than the Project for delivery hereunder. |
|-----------------------|--|
| Project: | All Product sold hereunder shall be from one or more of the facilities, each meeting the requirement of 6.1(a) and as listed in Exhibit A, as may be updated from time to time by written notice from Seller to Buyer (collectively, the "Project"). The Project from which Product is sold by Seller to Buyer shall: (a) have a first point of interconnection with a California balancing authority, (b) have a first point of interconnection with distribution facilities used to serve end users within a California balancing authority area, or (c) be scheduled from the eligible renewable energy resource into a California balancing authority without substituting electricity from another source. [for Firm deliveries: The Parties acknowledge and agree that the Project consists of a pool of facilities and that Seller is permitted to utilize one or more of these pooled facilities in order to satisfy its obligations hereunder. The Parties further acknowledge and agree that, with respect to Section 3 of this Confirmation, Product shall solely be limited to the actual Product generated and delivered by the pooled facilities used to satisfy the Contract Quantity, and that Buyer is not entitled to any additional Product produced by the pooled facilities in the Project above and beyond the Contract Quantity.] |
| Contract Capacity | In any hour throughout the Delivery Term, the "Contract Capacity" shall be, in MW, as determined by Seller in accordance with the Contract Quantity section of this Confirmation. |
| Contract Quantity: | [for Firm deliveries: "Contract Quantity" shall be equal to [] MWhs per calendar month for a total of [] MWhs during the Delivery Period. In the event Seller does not deliver any of the above specified quantities in a particular calendar month for any reason, except as excused by Uncontrollable Force, the Parties shall agree upon the make-up schedules for any undelivered quantities. If the Parties are unable to come to agreement on such make-up schedule, Buyer shall deliver the quantities to Seller in a reasonable manner and within a reasonable time.] [for As-available deliveries: "Contract Quantity" shall be [all output from the Project up to INSERT], unless excused pursuant to the definition of As-Available Delivery Obligation below. Seller in its sole discretion shall determine the hourly Contract Quantity during the Delivery Period.] |

| Contract Price: | Index Price plus Green Attributes Price |
|---|--|
| Index Price: | "Index Price" means the CAISO Integrated Forward Market Day-Ahead price (as such term is defined in the Tariff) for <i>[SP15/NP-15]</i> for each applicable hour as published by the CAISO on the CAISO website; or any successor thereto, unless a substitute publication and/or index is mutually agreed to by the Parties. |
| Green Attributes Price: | \$[XX.XX] / MWh |
| Term: | The "Term" of this Transaction shall commence upon the Confirmation Effective Date and shall continue until delivery by Seller to Buyer of the Contract Quantity of the Product has been completed and all other obligations of the Parties under this Agreement have been satisfied, unless terminated earlier due to failure to satisfy the Condition Precedent or as otherwise provided in the Agreement. |
| Delivery Period: | The "Delivery Period" of this Transaction shall commence on [MM/DD/YYYY] (the "Start Date"), and continue until midnight on [MM/DD/YYYY]]; provided that if CPUC Approval is not received by the Start Date above, then the Start Date shall be the first day of the calendar month following the calendar month in which CPUC Approval is received and shall continue until midnight on the last day of the month in which the [#] anniversary of the Start Date, unless extended for make-up deliveries as specified in the Contract Quantity Section or terminated in accordance with the terms herein. |
| Delivery Point: | The "Delivery Point" is [insert EZ Gen Hub] . |
| | <i>[for Firm deliveries:</i> "Firm Delivery Obligation" shall mean the obligation to provide the Contract Quantity is a firm obligation in that Seller shall deliver the quantity of the Product from the Project, instantaneously with its receipt of such Product, consistent with the terms of this Confirmation without excuse other than Uncontrollable Force. If a failure by Seller to deliver the quantity from the Project is not excused by Uncontrollable Force, Seller shall make up such failure in accordance with the "Contract Quantity" Section.] |
| [Firm; As- Available] Delivery Obligation: | [for As-available deliveries: "As-Available Delivery Obligation" shall mean the obligation to provide the Contract Quantity is an as-available obligation in that Seller shall deliver the quantity of the Product from the Project, instantaneously with its receipt of such Product, consistent with the terms of this Confirmation. Seller's failure to deliver shall be excused, and Seller shall have no obligation to make up or replace any failure of the Facility to generate and deliver the quantity from the Project: if (i) the Project is unavailable as a result of a Scheduled or Forced Outage, (ii) by an event or circumstance that affects the Project so as to prevent Seller from performing its obligations, which event or circumstance was not anticipated as of the date the Transaction was agreed to, and which is not within the reasonable control of, or the result of the negligence of, the Seller, (iii) by Buyer's failure to perform, or (iv) by [SELECT APPLICABLE FUEL: [the unavailability of landfill gas which was not anticipated as of the Execution Date, which is not |

| | within the reasonable control of, or the result of negligence of, Seller or the party supplying such landfill gas to the Project, and which by the exercise of reasonable due diligence, Seller is unable to overcome or avoid or causes to be avoided.] OR [insufficient wind power for the Project to generate energy as determined by the best wind speed and direction standards utilized by other wind producers or purchasers in the vicinity of the Project or if wind speeds exceed the Project's technical specifications.] OR [the unavailability of water or the unavailability of sufficient pressure required for operation of the hydroelectric turbine-generator as reasonably determined by Seller within its operating procedures, neither of which was anticipated as of the Execution Date, which is not within the reasonable control of, or the result of negligence of, Seller or the party supplying such water to the Project, and which by the exercise of due diligence, such Seller or the party supplying the water is unable to overcome or avoid or causes to be avoided.] OR [insufficient solar power for the Project to generate energy as determined by the best solar standards utilized by other solar producers or purchasers in the vicinity of the Project] OR [a reduction or insufficiency of biomass that causes a reduction or cessation of generation of electric energy by the Project].] |
|----------------------------|--|
| Scheduling Obligations: | Seller, or a qualified third party designated by Seller, shall act as Scheduling Coordinator. Buyer hereby authorizes Seller, or its third-party Scheduling Coordinator designee, to deliver the Product, or cause the Product to be delivered, to the CAISO at the Delivery Point. |
| Condition Precedent: | The commencement of the Delivery Period in accordance with Section 3 below shall be contingent upon the Seller obtaining or waiving CPUC Approval of this Confirmation. Either Party has the right to terminate this Confirmation upon notice in accordance with Section 12 of the WSPP Agreement, which will be effective five (5) Business Days after such notice is given, if: (i) the CPUC does not issue a final and non-appealable order approving this Agreement or the requested relief contained in the related advice letter filing, both in their entirety, (ii) the CPUC issues a final and non-appealable order which contains conditions or modifications unacceptable to either Party, or (iii) the final and non-appealable CPUC Approval has not been obtained by Seller, on or before <i>[INSERT DEADLINE DATE]</i> . The date on which CPUC Approval of this Confirmation has been obtained or waived, by Seller, in its sole discretion, shall hereinafter be the "Condition Precedent Satisfaction Date." Any termination made by a Party under this section shall be without liability or obligation to the other Party. Notwithstanding any other provision in this Confirmation, Seller will have no obligation to transfer Green Attributes to Purchaser unless the Condition Precedent Satisfaction Date has occurred. |

ARTICLE 2. DEFINITIONS

"Buyer" means "Purchaser".

"CAISO" means the California Independent System Operator.

"CAISO Energy" means "Energy" as defined in the Tariff.

"Renewables Portfolio Standard" or "RPS" means the renewable energy program and policies established by California State Senate Bills 1078, X1 - 2 and 350, codified in California Public Utilities Code Sections 399.11 through 399.32 and California Public Resources Code Sections 25740 through 25751, as such provisions are amended or supplemented from time to time.

"Condition Precedent Satisfaction Date" means the date on which CPUC Approval, as fully described in the "Condition Precedent" provision, has been obtained or waived, by Seller, in its sole discretion.

"CPUC" means the California Public Utilities Commission or its regulatory successor.

"CPUC Approval" means a final and non-appealable order of the CPUC, without conditions or modifications unacceptable to the Parties, or either of them, which contains the following terms:

(a) Approves this Agreement in its entirety, including payments to be made by the Buyer, subject to CPUC review of the Seller's administration of the Agreement; and

(b) Finds that any procurement pursuant to this Agreement is procurement from an eligible renewable energy resource for purposes of determining Seller's compliance with any obligation that it may have to procure eligible renewable energy resources pursuant to the California Renewables Portfolio Standard (Public Utilities Code Section 399.11 *et seq.*), Decision 03-06-071, or other applicable law.

CPUC Approval will be deemed to have occurred on the date that a CPUC decision containing such findings becomes final and non-appealable.

Notwithstanding the foregoing, if a Tier 2 or Tier 3 advice letter process is used to obtain CPUC Approval of this Agreement, CPUC Approval will also be deemed to have occurred on the date that a CPUC Energy Division disposition which contains such findings or deems approved an advice letter requesting such findings becomes final and non-appealable.

"Day-Ahead" has the meaning set forth in the Tariff.

[for As-available deliveries: "Forced Outage" means any unplanned reduction or suspension of production of Product from the Project or unavailability of the Project or transmission facilities in whole or in part that is not a Planned Outage or a willful withholding of Product when the Project is otherwise capable of delivering Product under Good Industry Practices.]

"Delivery Period" means "Delivery Term". "Designated Contract Capacity" means the amount determined by Seller in accordance with the Scheduling Obligations section of this Confirmation.

"Governmental Authority" means any federal, state, local or municipal government, governmental department, commission, board, bureau, agency, or instrumentality, or any judicial, regulatory or administrative body, having jurisdiction as to the matter in question.

"Green Attributes" means any and all credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, attributable to the generation from the Project, and its avoided emission of pollutants. Green Attributes include but are not limited to Renewable Energy Credits, as well as:

- (i) any avoided emission of pollutants to the air, soil or water such as sulfur oxides (SOx), nitrogen oxides (NOx), carbon monoxide (CO) and other pollutants;
- (ii) any avoided emissions of carbon dioxide (CO2), methane (CH4), nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride and other greenhouse gases (GHGs) that have been determined by the United Nations Intergovernmental Panel on Climate Change, or otherwise by law, to contribute to the actual or potential threat of altering the Earth's climate by trapping heat in the atmosphere;¹
- (iii) the reporting rights to these avoided emissions, such as Green Tag Reporting Rights. Green Tag Reporting Rights are the right of a Green Tag Purchaser to report the ownership of accumulated Green Tags in compliance with federal or state law, if applicable, and to a federal or state agency or any other party at the Green Tag Purchaser's discretion, and include without limitation those Green Tag Reporting Rights accruing under Section 1605(b) of The Energy Policy Act of 1992 and any present or future federal, state, or local law, regulation or bill, and international or foreign emissions trading program. Green Tags are accumulated on a MWh basis and one Green Tag represents the Green Attributes associated with one (1) MWh of Energy.

Green Attributes do not include;

- (i) any energy, capacity, reliability or other power attributes from the Project,
- production tax credits associated with the construction or operation of the Project and other financial incentives in the form of credits, reductions, or allowances associated with the Project that are applicable to a state or federal income taxation obligation,
- (iii) fuel-related subsidies or "tipping fees" that may be paid to Seller to accept certain fuels, or local subsidies received by the generator for the destruction of particular preexisting pollutants or the promotion of local environmental benefits, or
- (iv) emission reduction credits encumbered or used by the Project for compliance with local, state, or federal operating and/or air quality permits.

If the Project is a biomass or biogas facility and Seller receives any tradable Green Attributes based on the greenhouse gas reduction benefits or other emission offsets attributed to its fuel usage, it shall provide Buyer with sufficient Green Attributes to ensure that there are zero net emissions associated with the production of electricity from the Project.

"Integrated Forward Market" has the meaning set forth in the Tariff.

[for As-available deliveries: "Planned Outage" means any planned reduction or suspension of the electrical output from the Project or unavailability of the Project or the transmission facilities, in whole or in part as a result of the inspection, maintenance, or repair of equipment.]

"Tariff" means the tariff and protocol provisions, including any current CAISO-published "Operating Procedures" and "Business Practice Manuals," as amended or supplemented from time to time, of the CAISO.

"Vintage" means the calendar year and month during the Delivery Period in which the WREGIS Certificate is created through the generation of the Product.

¹ Avoided emissions may or may not have any value for GHG compliance purposes. Although avoided emissions are included in the list of Green Attributes, this inclusion does not create any right to use those avoided emissions to comply with any GHG regulatory program.

"WREGIS" means the Western Renewable Energy Generation Information System or other process recognized under applicable laws for the registration, transfer or ownership of Green Attributes.

"WREGIS Certificate" means "Certificate" as defined by WREGIS in the WREGIS Operating Rules.

"WREGIS Operating Rules" means the operating rules and requirements adopted by WREGIS.

ARTICLE 3. CONVEYANCE OF RENEWABLE ENERGY

3.1. Seller's Conveyance Of Electric Energy

Except as stated in this Section 3.1 and beginning on the first day of the Delivery Period and throughout all applicable months of the Delivery Period, Seller shall deliver and sell, and Buyer shall purchase and receive, the Product, subject to the terms and conditions of this Confirmation. Seller will not be obligated to sell or replace any Product that is not or cannot be delivered as a result of Uncontrollable Force.

Should any electric energy provided by Seller under this Confirmation be determined to have originated from a resource other than the Project, Seller shall remedy such failure in a manner reasonably acceptable to Buyer within a reasonable period of time after written notice of such failure is given to the Seller by the Buyer.

3.2. Seller's Conveyance Of Green Attributes

(a) <u>Green Attributes.</u> Seller hereby provides and conveys all Green Attributes associated with all electricity generation from the Project to Buyer as part of the Product being delivered. Seller represents and warrants that Seller holds the rights to all Green Attributes from the Project, and Seller agrees to convey and hereby conveys all such Green Attributes to Buyer as included in the delivery of the Product from the Project. The Green Attributes are delivered and conveyed upon completion of all actions described in Section 3.2(b) below.

- (b) Green Attributes Initially Credited to Seller's WREGIS Account
 - (i) During the Delivery Period, Seller, at its own cost and expense, shall maintain its registration with WREGIS. All Green Attributes transferred by Seller hereunder shall be designated California RPS-compliant with WREGIS. Seller shall, at its sole expense, use WREGIS as required pursuant to the WREGIS Operating Rules to effectuate the transfer of Green Attributes to Buyer in accordance with WREGIS reporting protocols and WREGIS Operating Rules.
 - (ii) For each applicable month of the Delivery Period, Seller shall deliver and convey the Green Attributes associated with the electric energy delivered in Section 3.1 within five (5) Business Days after the end of the month in which the WREGIS Certificates for the Green Attributes are created by properly transferring such WREGIS Certificates, in accordance with the rules and regulations of WREGIS, equivalent to the quantity of Green Attributes to Purchaser into Purchaser's WREGIS account such that all right, title and interest in and to the WREGIS Certificates shall transfer from Seller to Purchaser.
 - (iii) In addition to its other obligations under this Section 3.2, Seller shall convey to Buyer WREGIS Certificates from the Project that are of the same Vintage as the Product that was provided under Section 3.1 of this Confirmation.

ARTICLE 4. PERFORMANCE ASSURANCE; CPUC FILING AND APPROVAL

4.1. Performance Assurance

(a) To secure its obligations under this Agreement, Buyer agrees to deliver to Seller and maintain in full force and effect Performance Assurance in the amount of **\$[INSERT AMOUNT]** in the form of cash or a Letter of Credit from the Execution Date and for the Delivery Term of this Agreement.

Buyer hereby grants to Seller a present and continuing first priority security interest (b) in, and lien on (and right of setoff against), and assignment of, all cash collateral and cash equivalent collateral and any and all proceeds resulting therefrom or the liquidation thereof, whether now or hereafter held by, on behalf of, or for the benefit of, Seller, and each Party agrees to take such action as the other Party reasonably requires in order to perfect the Seller's first-priority security interest in, and lien on (and right of setoff against), such collateral and any and all proceeds resulting therefrom or from the liquidation thereof. Upon or any time after the occurrence and during the continuation of an Event of Default by Seller or an Early Termination Date as a result thereof, Seller may do any one or more of the following: (i) exercise any of the rights and remedies of a secured party with respect to all Performance Assurance, including any such rights and remedies under Law then in effect; (ii) exercise its rights of setoff against such collateral and any and all proceeds resulting therefrom or from the liquidation thereof; (iii) draw on any outstanding Letter of Credit issued for its benefit; and (iv) liquidate all or any portion of any Performance Assurance then held by or for the benefit of Seller free from any claim or right of any nature whatsoever of Buyer, including any equity or right of purchase or redemption by Buyer. Seller shall apply the proceeds of the collateral realized upon the exercise of any such rights or remedies to reduce the Buyer's obligations under the Agreement (Buyer remaining liable for any amounts owing to Seller after such application), subject to Seller's obligation to return any surplus proceeds remaining after such obligations are satisfied in full.

(c) Upon an Event of Default of Buyer prior to CPUC Approval, Seller may terminate this Agreement in which case Buyer shall owe Seller liquidated damages in the amount of the Performance Assurance and Seller may retain such Performance Assurances to pay such liquidated damages. Each Party agrees and acknowledges that (a) the actual damages that Buyer would incur due to an Event of Default of Buyer prior to CPUC Approval would be difficult or impossible to predict with certainty, (b) the liquidated damages set forth in this section are a reasonable and appropriate approximation of such damages, and (c) the liquidated damages set forth in this section are the exclusive remedy for an Event of Default of Seller prior to CPUC Approval.

(d) [NOTE ADDITIONAL CREDIT TERMS TO BE INSERTED DEPENDING ON LENGTH OF TERM, ETC.]

4.2. CPUC Filing and Approval

Within *[INSERT]* days after the Confirmation Effective Date, Seller shall file with the CPUC the appropriate request for CPUC Approval of this Agreement and possibly other agreements. Seller shall seek CPUC Approval of the filing, including promptly responding to any requests for information related to the request for CPUC Approval. Buyer shall use commercially reasonable efforts to support Seller in obtaining CPUC Approval. Seller and Buyer have no obligation to seek rehearing or to appeal a CPUC decision which fails to approve this Agreement, or which fails to meet the requirements contained in the Condition Precedent section. Notwithstanding anything to the contrary in the Confirmation, Seller shall not have any obligation or liability to Buyer or any third party for any action or inaction of the CPUC or other Governmental Authority affecting the approval or status of this Confirmation as a transaction eligible for portfolio content category, as defined in California Public Utilities Code Section 399.16(b)(1).

ARTICLE 5. COMPENSATION

5.1. Calculation Period

The "Calculation Period" shall be each calendar month, or portion thereof, during the Delivery Period.

5.2. Monthly Cash Settlement Amount

Purchaser shall pay Seller the Monthly Cash Settlement Amount, in arrears, for each Calculation Period in the amount equal to the sum (a) plus (b) minus (c), where:

(a) equals the sum, over all hours of the Calculation Period, of the applicable Index Price for each hour, multiplied by the quantity of CAISO Energy scheduled, delivered and received by Purchaser pursuant to Section 3.1 during that hour; and

(b) equals the product of the Green Attributes Price multiplied by the quantity of Green Attributes (in MWhs) delivered or credited to Purchaser's WREGIS account pursuant to Section 3.2 during the applicable Calculation Period; and

(c) equals the sum, over all hours of the Calculation Period, of the applicable Index Price for each hour, multiplied by the quantity of CAISO Energy scheduled, delivered and received by Purchaser pursuant to Section 3.1 during that hour.

5.3. Payment Date

Notwithstanding any provision to the contrary in Section 9.2 of the Master Agreement, payments of each Monthly Cash Settlement Amount by Purchaser to Seller under this Confirmation shall be due and payable on or before the later of the twentieth (20th) day of the month in which the Purchaser receives from Seller an invoice for the Calculation Period to which the Monthly Cash Settlement Amount pertains, or within ten (10) Business Days, or, if such day is not a Business Day, then on the next Business Day, following receipt of an invoice issued by Seller for the applicable Calculation Period. The invoice shall include a statement detailing the portion of Product transferred to Purchaser during the applicable Calculation Period.

Invoices to Buyer will be sent by Excel/PDF format via email to Buyer's Invoice Contact set forth above in Contact Information, and for purposes of this Confirmation, Buyer shall be deemed to have received an invoice upon the receipt of the Excel/PDF format of the invoice. Payment to Seller shall be made by electronic funds transfer pursuant to the Wire Transfer instructions set forth above in Contract Information.

ARTICLE 6. SELLER'S REPRESENTATIONS, WARRANTIES AND COVENANTS

(a) Seller, and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement that:

- the Project qualifies and is certified by the CEC as an Eligible Renewable Energy Resource ("ERR") as such term is defined in Public Utilities Code Section 399.12 or Section 399.16; and
- (ii) the Project's output delivered to Buyer qualifies under the requirements of the California Renewables Portfolio Standard. To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law.
- (iii) Seller and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement the Renewable Energy Credits transferred to Buyer conform to the definition and attributes required for compliance with the California Renewables Portfolio Standard, as set forth in California Public Utilities Commission Decision 08-08-028, and as may be modified by subsequent decision of the California Public Utilities Commission or by subsequent legislation.

To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law.

The term "commercially reasonable efforts" as set forth in Sections 6.1 (a) and (b) above shall not require Seller to incur out-of-pocket expenses in excess of **\$[INSERT]** in the aggregate in any one calendar year between the Confirmation Effective Date and the last day of the Term.

(c) Seller warrants that all necessary steps to allow the Renewable Energy Credits transferred to Buyer to be tracked in the Western Renewable Energy Generation Information System will be taken prior to the first delivery under the contract.

For the avoidance of doubt, the term "contract" as used in the immediately preceding paragraph means this Agreement.

(d) In addition to the foregoing, Seller warrants, represents and covenants, as of the Confirmation Effective Date and throughout the Delivery Period, that:

- (i) Seller has the contractual rights to sell all right, title, and interest in the Product agreed to be delivered hereunder;
- (ii) Seller has not sold the Product to be delivered under this Confirmation to any other person or entity; and
- (iii) at the time of delivery, all rights, title, and interest in the Product to be delivered under this Confirmation are free and clear of all liens, taxes, claims, security interests, or other encumbrances of any kind whatsoever.
- (iv) The original upstream third party contract(s), under which Buyer is re-selling,

meets the criteria of California Public Utilities Code Section 399.16(b)(1)(A);

- (v) This Agreement transfers only Energy and Green Attributes that have not yet
- been generated prior to the commencement of the Delivery Period; and (vi)

The Energy transferred hereunder is transferred to Buyer in real time.

ARTICLE 7. GENERAL PROVISIONS

7.1. Facility Identification

Upon Buyer's reasonable request, within ten (10) Business Days after the end of each month during the Delivery Period, Seller shall provide indicative identification, based on preliminary meter data, of the *[for Firm deliveries:* pooled] facility(ies) that the Product was delivered from for that month.

7.2. Governing Law/Venue

THIS AGREEMENT AND THE RIGHTS AND DUTIES OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY AND CONSTRUED, ENFORCED AND PERFORMED IN ACCORDANCE WITH THE LAWS OF THE STATE OF CALIFORNIA, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW. TO THE EXTENT ENFORCEABLE AT SUCH TIME, EACH PARTY WAIVES ITS RESPECTIVE RIGHT TO ANY JURY TRIAL WITH RESPECT TO ANY LITIGATION ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT. The Parties hereby irrevocably and unconditionally agrees that any legal action or proceeding with respect to this Agreement shall be brought in the courts of the State of California in the County of San Diego or the courts of the United States in the County of San Diego, and by executing and delivering this Agreement, both Parties hereby submit to and accept irrevocably and unconditionally, the jurisdiction of the above mentioned courts. The foregoing, however, shall not limit the right of either Party as it may elect to bring any legal action or proceeding or to obtain execution of judgment in any other appropriate jurisdiction. [SDG&E will consider binding arbitration for longer term deals.]

7.3. SOVEREIGN IMMUNITY

[NOTE TO BIDDERS: insert only if applicable to governmental agencies, etc.] For purposes of this Confirmation only, the WSPP Agreement is amended by adding the following new provision: "Purchaser hereby waives sovereign immunity with regard to disputes relating to this Confirmation."]

7.4. Confidentiality Amendment to WSPP Agreement.

Changes to the WSPP shall apply to this Confirmation only. For purposes of this Confirmation, Section 30 (Confidentiality) of the WSPP Agreement is deleted in its entirety and replaced with the following:

"30.1(a) Neither Party shall disclose the non-public terms or conditions of this Agreement or any transaction hereunder to a third party, other than (i) the Party's Affiliates and its and their officers, directors, employees, lenders, counsel, accountants or advisors who have a need to know such information and have agreed to keep such terms confidential, (ii) for disclosure to the Buyer's Procurement Review Group, as defined in CPUC Decision (D) 02-08-071, subject to a confidentiality agreement, (iii) to the CPUC under seal for purposes of review, (iv) disclosure of terms specified in and pursuant to Section 30.1(b) of this Agreement; (v) in order to comply with any applicable law, regulation, including, but not limited to, the California Public Records Act and/or the California Ralph M Brown Act, or any exchange, control area or CAISO rule, or order issued by a court or entity with competent jurisdiction over the disclosing Party ("Disclosing Party"), other than to those entities set forth in subsection (vi); or (vi) in order to comply with any applicable regulation, rule, or order of the CPUC, CEC, or the Federal Energy Regulatory Commission. In connection with requests made pursuant to clause (v) of this Section 30.1(a) ("Disclosure Order") each Party shall, to the extent practicable, use reasonable efforts within its sole and absolute discretion to pursue rights under such applicable laws, regulations, rules or orders which allow for the prevention or limitation of such disclosure. The Disclosure Party's determination of what efforts might be reasonable shall not be subject to challenge by the other Party. After using such reasonable efforts, the Disclosing Party shall not be: (i) prohibited from complying with a Disclosure Order or (ii) liable to the other Party for monetary or other damages incurred in connection with the disclosure of the confidential information. Except as provided in the preceding sentence, the Parties shall be entitled to all remedies available at law or in equity to enforce, or seek relief in connection with, this confidentiality obligation.

(b) RPS Confidentiality. Notwithstanding Section 30.1(a) of this Agreement, at any time on or after the date on which the Seller makes its filing seeking CPUC Approval for this Agreement, either Party shall be permitted to disclose the following terms with respect to this Agreement: Party names, resource type, Delivery Term, project location, Contract Capacity, Contract Quantity, and Delivery Point.

(c) Publicity. Except as otherwise agreed to in this Section 30.1 above, no announcement, publicity, advertising, press release, promotional or marketing materials regarding the arrangement contemplated under this Agreement, including the existence hereof, shall be made by either Party without the prior written approval of the other Party which approval shall not be unreasonably withheld or delayed." Notwithstanding the foregoing, the Parties understand acknowledge and agree that Buyer is a California Public Agency and that certain actions and documents of Buyer are subject to public notice and/or disclosure under applicable laws and regulations, including, but not limited to, the California Public Records Act and/or the California Ralph M. Brown Act, and that Buyer is not obligated to seek prior approval of Seller when Buyer is complying, in its sole and absolute discretion, with such laws and regulations.

ACKNOWLEDGED AND AGREED TO AS OF THE CONFIRMATION EFFECTIVE DATE:

SAN DIEGO GAS & ELECTRIC COMPANY [INSERT NAME OF PURCHASER]

| BY: | | BY: |
|--------|--------------------------------|--------|
| NAME: | | NAME: |
| TITLE: | Vice President – Energy Supply | TITLE: |
| | APPROVED AS TO LEGAL FORM | |

EXHIBIT A

TO THE CONFIRMATION BETWEEN ______AND SAN DIEGO GAS & ELECTRIC COMPANY DATED: _____

PROJECT FACILITY(IES)

| Name of Facility | Resource | Capacity (MW) | CEC RPS ID | WREGIS GU ID | Host Balancing Authority |
|------------------|----------|------------------|------------|-----------------|--------------------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

EXHIBIT B

FORM OF LETTER OF CREDIT

[DATE]

- To: San Diego Gas & Electric Company 555 W. Fifth Street Mail Code: ML 18A3 Los Angeles, CA 90013
- Re: Our Irrevocable Standby Letter of Credit No.____ In the Amount of US______

Ladies and Gentlemen:

We hereby open our irrevocable standby Letter of Credit Number ______ in favor of [name of Beneficiary] ("Beneficiary"), by order and for account of [name of Applicant] ("Applicant"), [address of Applicant], available at sight upon demand at our counters, at [location] for an amount of US\$ ______ [amount spelled out and xx/100 U.S. Dollars] against presentation one of the following documents:

1. Statement signed by a person purported to be an authorized representative of Beneficiary stating that: "[name of Applicant] ("Applicant") is in default under the WSPP Agreement and Confirmation between Beneficiary and Applicant dated _______ or under any transaction contemplated thereby (whether by failure to perform or pay any obligation thereunder or by occurrence of a "default", "event of default" or similar term as defined in such agreement, any other agreement between Beneficiary and Applicant, or otherwise). The amount due to Beneficiary is U.S. \$______."

or,

2. Statement signed by a person purported to be an authorized representative of Beneficiary stating that: "as of the close of business on [insert date, which is less than 60 days prior to the expiration date of the Letter of Credit] you have provided written notice to us indicating your election not to permit extension of this Letter of Credit beyond its current expiry date. The amount due to Beneficiary, whether or not a default has occurred, is U.S. \$_____."

Special Conditions:

- All costs and banking charges pertaining to this Letter of Credit are for the account of Applicant.

- Partial and multiple drawings are permitted.

- Fax of Document 1 or 2 above is acceptable. Notwithstanding anything to the contrary herein, any drawing hereunder may be requested by transmitting the requisite documents as described above to us by facsimile at ______ or such other number as specified from time

to time by us. The facsimile transmittal shall be deemed delivered when received. It is understood that drawings made by facsimile transmittal are deemed to be the operative instrument without the need of originally signed documents.

This Letter of Credit expires on ______ at our counters.

We hereby engage with Beneficiary that upon presentation of a document as specified under and in compliance with the terms of this Letter of Credit, this Letter of Credit will be duly honored in the amount stated in Document 1, or 2 above. If a document is so presented by 1:00 pm on any New York banking day, we will honor the same in full in immediately available New York funds on that day and, if so presented after 1:00 pm on a New York banking day, we will honor the same in full in immediately available New York funds on that immediately available New York funds by noon on the following New York banking day.

It is a condition of this Letter of Credit that it shall be deemed automatically extended without an amendment for a one-year period beginning on the present expiry date hereof and upon each anniversary of such date, unless at least ninety (90) days prior to any such expiry date we have sent you written notice by regular and registered mail or courier service that we elect not to permit this Letter of Credit to be so extended beyond, and will expire on its then current expiry date. No presentation made under this Letter of Credit after such expiry date will be honored.

We agree that if this Letter of Credit would otherwise expire during, or within 30 days after, an interruption of our business caused by an act of god, riot, civil commotion, insurrection, act of terrorism, war or any other cause beyond our control or by any strike or lockout, then this Letter of Credit shall expire on the 30th day following the day on which we resume our business after the cause of such interruption has been removed or eliminated and any drawing on this Letter of Credit which could properly have been made but for such interruption shall be permitted during such extended period.

This Letter of Credit is subject to the Uniform Customs and Practice for Documentary Credits (2007 Revision) International Chamber of Commerce, Publication No. 600 ("UCP"), except to the extent that the terms hereof are inconsistent with the provisions of the UCP, including but not limited to Articles 14(b) and 36 of the UCP, in which case the terms of this Letter of Credit shall govern. Matters not covered by the UCP shall be governed and construed in accordance with the laws of the State of California.

[Name of Bank]

Authorized Signature(s)

Appendix 11

2021 RPS Sales Model PPA (Unbundled Product)

WSPP AGREEMENT CONFIRMATION BETWEEN SAN DIEGO GAS & ELECTRIC COMPANY AND [INSERT NAME]

This confirmation letter ("Confirmation") confirms the transaction ("Transaction") between San Diego Gas & Electric Company ("Seller" or "SDG&E" "Party B") and _______ ("Buyer" or "Party A"), each individually a "Party" and together the "Parties", effective as of _______, 2018 (the "Confirmation Effective Date"). This Transaction is governed by the WSPP Agreement effective as of June 21, 2018 along with any amendments and annexes executed between the Parties thereto (the "Master Agreement"). The Master Agreement and this Confirmation shall be collectively referred to herein as the "Agreement." Capitalized terms used but not otherwise defined in this Confirmation have the meanings ascribed to them in the Master Agreement, Tariff, or in the RPS (as defined below). If any term in this Confirmation conflicts with the Master Agreement, the definitions set forth in this Confirmation shall supersede.

| Contact Information: | Name: [INSERT] (" <u>Buyer</u> ") | Name: San Diego Gas & Electric Company(" <u>Seller</u> ") |
|-------------------------|--------------------------------------|---|
| | All Notices: | All Notices: |
| | | San Diego Gas & Electric Company |
| | Attn: | 8315 Century Park Court |
| | Phone: | San Diego, CA Zip: 92123 |
| | Facsimile: | Attn: Electric & Fuel Procurement Contract |
| | Duns: | Administration |
| | Federal Tax ID Number: | Phone: (858) 650-5536 |
| | | Facsimile: (858) 650-6190 |
| | | Duns: 006911457 |
| | | Federal Tax ID Number: 95-1184800 |
| | Invoices: | Invoices: |
| | | San Diego Gas & Electric Company |
| | | 8315 Century Park Ct. |
| | | San Diego, California 92123-1593 |
| | | Attn: Energy Accounting Manager |
| | | Phone: (858) 650-6177 |
| | | Facsimile: (858) 650-6190 |
| | Wire Transfer: | Wire Transfer: |
| | | BNK: Union Bank of California |
| | | for: San Diego Gas & Electric Company |
| | | ABA: Routing # 122000496 |
| | | ACCT: #4430000352 |
| | | Confirmation: SDG&E, Major Markets |
| | | FAX:(213) 244-8316 |

SDG&E may insist on using the EEI master agreement depending on the credit evaluation.

| Credit and Collections: | Credit and Collections: |
|-------------------------|---|
| | San Diego Gas & Electric Company, Major Markets |
| | 555 W. Fifth Street, ML 10E3 |
| | Los Angeles, CA 90013-1011 |
| | Attn.: Major Markets, Credit and Collections Manager |
| | Fax No.: (213) 244-8316 |
| | Phone: (213) 244-4343 |
| | |
| Defaults: | Defaults: |
| With additional Notices | With additional Notices of an Event of Default or Potential |
| of an Event of Default | Event of Default to: |
| or Potential Event of | |
| Default to: | San Diego Gas & Electric Company |
| | 8330 Century Park Ct. |
| | San Diego, California 92123 |
| | Attn: General Counsel |
| | Phone: (858) 650-6141 |
| | Facsimile: (858) 650-6106 |
| | |

ARTICLE 1 COMMERCIAL TERMS

The Parties hereby agree that the General Terms and Conditions are incorporated herein, and to the following provisions as provided for in the General Terms and Conditions:

| Product: | The "Product" is <i>[for Firm deliveries:</i> Firm Delivery; <i>for As-Available deliveries:</i> As- Available Delivery] Obligation of Green Attributes in the Contract Quantity. During the Delivery Term, Seller shall deliver and sell, and Buyer shall purchase and receive, this Product, subject to the terms and conditions of this Confirmation. Seller shall not substitute or purchase any Green Attributes from any generating resource other than the Project for delivery hereunder. |
|-------------------------------|---|
| Project: | All Product sold hereunder shall be from one or more of the facilities, each meeting the requirement of 6.1(a) and as listed in Exhibit A, as may be updated from time to time by written notice from Seller to Buyer (collectively, the "Project"). <i>[for Firm deliveries:</i> The Parties acknowledge and agree that the Project consists of a pool of facilities and that Seller is permitted to utilize one or more of these pooled facilities in order to satisfy its obligations hereunder. The Parties further acknowledge and agree that, with respect to Section 3.2(a) of this Confirmation, Product shall solely be limited to the actual Product generated and delivered by the pooled facilities used to satisfy the Contract Quantity, and that Buyer is not entitled to any additional Product produced by the pooled facilities in the Project above and beyond the Contract Quantity.] |
| Contract Quantity: | [for Firm deliveries: "Contract Quantity" shall be equal a total of [] MWhs during the Delivery Term. In the event Seller does not deliver any of the above specified quantity(ies) for any reason, except as excused by Uncontrollable Force, the Parties shall agree upon the make-up schedules for any undelivered quantities. If the Parties are unable to come to agreement on such make-up schedule, Buyer shall deliver the quantities to Seller in a reasonable manner and within a reasonable time.] [for As-Available deliveries: "Contract Quantity" shall be [a quantity up to INSERT], unless excused pursuant to the definition of As-Available Delivery Obligation below. Seller in its sole discretion shall determine the hourly Contract Quantity during the Delivery Period.] |
| Contract Price: | The Green Attributes Price. |
| Green Attributes Price: | \$[XXXX] per MWh of Green Attributes (RECs). |
| Term: | The "Term" of this Transaction shall commence upon the Confirmation Effective Date and shall continue until delivery by Seller to Buyer of the Contract Quantity of |

SDG&E may insist on using the EEI master agreement depending on the credit evaluation.

| | the Product has been completed and all other obligations of the Parties under this Agreement have been satisfied, unless terminated earlier due to failure to satisfy the Condition Precedent or as otherwise provided in the Agreement. |
|---|--|
| Delivery Term: | SDG&E shall deliver the Product to Buyer within five (5) Business days after CPUC Approval, or as otherwise set forth in the "Contract Quanity" Section. For purposes of this Confirmation, the "Delivery Term" shall be the duration upon which the Product is delivered. |
| | "Firm Delivery Obligation" means the obligation to provide the Contract Quantity is a firm obligation in that Seller shall deliver the quantity of the Product from the Project consistent with the terms of this Confirmation without excuse other than Uncontrollable Force. If a failure by Seller to deliver the quantity from the Project is not excused by Uncontrollable Force, Seller shall make up such failure in accordance with the "Contract Quantity" Section. |
| /Firm; As- Available] Delivery Obligation: | [for As-available deliveries: "As-Available Delivery Obligation" shall mean the obligation to provide the Contract Quantity is an as-available obligation in that Seller shall deliver the quantity of the Product from the Project, instantaneously with its receipt of such Product, consistent with the terms of this Confirmation. Seller's failure to deliver shall be excused, and Seller shall have no obligation to make up or replace any failure of the Facility to generate and deliver the quantity from the Project: if (i) the Project is unavailable as a result of a Scheduled or Forced Outage, (ii) by an event or circumstance that affects the Project so as to prevent Seller from performing its obligations, which event or circumstance was not anticipated as of the date the Transaction was agreed to, and which is not within the reasonable control of, or the result of the negligence of, the Seller, (iii) by Buyer's failure to perform, or (iv) by [SELECT APPLICABLE FUEL: [the unavailability of landfill gas which was not anticipated as of the Execution Date, which is not within the reasonable control of, or the result of negligence of, Seller or the party supplying such landfill gas to the Project, and which by the exercise of reasonable due dilgence, Seller is unable to overcome or avoid or causes to be avoided.] OR [insufficient wind power for the Project or if wind speeds exceed the Project's technical specifications.] OR [the unavailability of water or the unavailability of sufficient pressure required for operation of the hydroelectric turbine-generator as reasonably determined by Seller within its operating procedures, neither of which was anticipated as of the Execution Date, which is not within the reasonable control of, Seller or the party supplying such water to the Project to generate energy as determined by the best wind speed and direction standards utilized by other wind producers or purchasers in the vicinity of the Project to generate energy as determined by the best wind speed for operation of the hydroelec |
| Delivery | Buyer hereby authorizes Seller, or its third party designee, to deliver the Product, or cause the Product to be delivered into Buyer's WREGIS account in the quantity(ies) and timeline(s) set forth in the "Contract Quantity" Section, . |

| | waived, by Seller, in its sole discretion, shall hereinafter be the "Condition Precedent Satisfaction Date." | Condition Precedent: | Seller's obligation to sell and deliver the Product shall be contingent upon the Seller obtaining or waiving CPUC Approval of this Confirmation. Either Party has the right to terminate this Confirmation upon notice in accordance with Section 12 of the WSPP Agreement, which will be effective five (5) Business Days after such notice is given, if: (i) the CPUC does not issue a final and non-appealable order approving this Agreement or the requested relief contained in the related advice letter filing, both in their entirety, (ii) the CPUC issues a final and non-appealable order which contains conditions or modifications unacceptable to either Party, or (iii) the final and non-appealable approval by the CPUC has not been obtained by Seller, on or before [INSERT DEADLINE DATE]. The date on which approval of the CPUC of this Confirmation has been obtained or |
|---|---|-------------------------|--|
| Any termination made by a Party under this section shall be without liability or obligation to the other Party. | | | Notwithstanding any other provision in this Confirmation, Seller will have no obligation to transfer Green Attributes to Purchaser unless the Condition Precedent Satisfaction Date has occurred. |

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ARTICLE 2 DEFINITIONS

"Buyer" means "Purchaser".

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"CAISO" means the California Independent System Operator.

"Condition Precedent Satisfaction Date" means the date on which CPUC Approval, as fully described in the "Condition Precedent" provision, has been obtained or waived, by Seller, in its sole discretion.

"CPUC" means the California Public Utilities Commission or its regulatory successor.

"CPUC Approval" means a final and non-appealable order of the CPUC, without conditions or modifications unacceptable to the Parties, or either of them, which contains the following terms:

(a) Approves this Agreement in its entirety, including payments to be made by the Buyer, subject to CPUC review of the Seller's administration of the Agreement; and

(b) Finds that any procurement pursuant to this Agreement is procurement from an eligible renewable energy resource for purposes of determining Seller's compliance with any obligation that it may have to procure eligible renewable energy resources pursuant to the California Renewables Portfolio Standard (Public Utilities Code Section 399.11 *et seq.*), Decision 03-06-071, or other applicable law.CPUC Approval will be deemed to have occurred on the date that a CPUC decision containing such findings becomes final and non-appealable.

Notwithstanding the foregoing, if a Tier 2 or Tier 3 advice letter process is used to obtain CPUC Approval of this Agreement, CPUC Approval will also be deemed to have occurred on the date that a CPUC Energy Division disposition which contains such findings or deems approved an advice letter requesting such findings becomes final and non-appealable.

"Green Attributes" means any and all credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, attributable to the generation from the Project, and its avoided emission of pollutants. Green Attributes include but are not limited to Renewable Energy Credits, as well as:

- (1) any avoided emission of pollutants to the air, soil or water such as sulfur oxides (SOx), nitrogen oxides (NOx), carbon monoxide (CO) and other pollutants;
- (2) any avoided emissions of carbon dioxide (CO2), methane (CH4), nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride and other greenhouse gases (GHGs) that have been determined by the United Nations Intergovernmental Panel on Climate Change, or otherwise by law, to contribute to the actual or potential threat of altering the Earth's climate by trapping heat in the atmosphere;¹
- (3) the reporting rights to these avoided emissions, such as Green Tag Reporting Rights. Green Tag Reporting Rights are the right of a Green Tag Purchaser to report the ownership of accumulated Green Tags in compliance with federal or state law, if applicable, and to a federal or state agency or any other party at the Green Tag Purchaser's discretion, and include without limitation those Green Tag Reporting Rights accruing under Section 1605(b) of The Energy Policy Act of 1992 and any present or future federal, state, or local law, regulation or bill, and international or foreign emissions trading program. Green Tags are accumulated on a MWh basis and one Green Tag represents the Green Attributes associated with one (1) MWh of Energy.

Avoided emissions may or may not have any value for GHG compliance purposes. Although avoided emissions are included in the list of Green Attributes, this inclusion does not create any right to use those avoided emissions to comply with any GHG regulatory program.

Green Attributes do not include;

- (i) any energy, capacity, reliability or other power attributes from the Project,
- production tax credits associated with the construction or operation of the Project and other financial incentives in the form of credits, reductions, or allowances associated with the Project that are applicable to a state or federal income taxation obligation,
- (iii) fuel-related subsidies or "tipping fees" that may be paid to Seller to accept certain fuels, or local subsidies received by the generator for the destruction of particular preexisting pollutants or the promotion of local environmental benefits, or
- (iv) emission reduction credits encumbered or used by the Project for compliance with local, state, or federal operating and/or air quality permits.

If the Project is a biomass or biogas facility and Seller receives any tradable Green Attributes based on the greenhouse gas reduction benefits or other emission offsets attributed to its fuel usage, it shall provide Buyer with sufficient Green Attributes to ensure that there are zero net emissions associated with the production of electricity from the Project.

"Governmental Authority" means any federal, state, local or municipal government, governmental department, commission, board, bureau, agency, or instrumentality, or any judicial, regulatory or administrative body, having jurisdiction as to the matter in question.

"Tariff" means the tariff and protocol provisions, including any current CAISO-published "Operating Procedures" and "Business Practice Manuals," as amended or supplemented from time to time, of the CAISO.

"Vintage" means the calendar year and month in which the underlying energy for the Product isgenerated.

"WREGIS" means the Western Renewable Energy Generation Information System or other process recognized under applicable laws for the registration, transfer or ownership of Green Attributes.

"WREGIS Certificate" means "Certificate" as defined by WREGIS in the WREGIS Operating Rules.

"WREGIS Operating Rules" means the operating rules and requirements adopted by WREGIS.

ARTICLE 3 CONVEYANCE OF RENEWABLE ENERGY

3.1 Seller's Conveyance Of Green Attributes

Except as stated in this Section 3.1, Seller shall deliver and sell, and Buyer shall purchase and receive, the Product, subject to the terms and conditions of this Confirmation. Seller will not be obligated to sell or replace any Product that is not or cannot be delivered as a result of Uncontrollable Force.

Should any Green Attributes provided by Seller under this Confirmation be determined to have originated from a resource other than the Project, Seller shall remedy such failure in a manner reasonably acceptable to Buyer within a reasonable period of time after written notice of such failure is given to the Seller by the Buyer.

3.2 Seller's Conveyance Of Green Attributes

(a) The Green Attributes are delivered and conveyed upon completion of all actions described in Section 3.2(b) below.

(b) Green Attributes Initially Credited to Seller's WREGIS Account

During the Delivery Period, Seller, at its own cost and expense, shall maintain its registration with WREGIS. All Green Attributes transferred by Seller hereunder shall be designated California RPS-compliant with WREGIS. Seller shall, at its sole expense, use WREGIS as required pursuant to the WREGIS Operating Rules to effectuate the transfer of Green Attributes to Buyer in accordance with WREGIS reporting protocols and WREGIS Operating Rules.

ARTICLE 4 PERFORMANCE ASSURANCE; CPUC FILING AND APPROVAL

4.1 Performance Assurance

(a) To secure its obligations under this Agreement, Buyer agrees to deliver to Seller and maintain in full force and effect Performance Assurance in the amount of *\$[INSERT AMOUNT]* in the form of cash or a Letter of Credit from the Execution Date and for the Delivery Term of this Agreement.

Buyer hereby grants to Seller a present and continuing first priority security interest in, (b) and lien on (and right of setoff against), and assignment of, all cash collateral and cash equivalent collateral and any and all proceeds resulting therefrom or the liquidation thereof, whether now or hereafter held by, on behalf of, or for the benefit of, Seller, and each Party agrees to take such action as the other Party reasonably requires in order to perfect the Seller's first-priority security interest in, and lien on (and right of setoff against), such collateral and any and all proceeds resulting therefrom or from the liquidation thereof. Upon or any time after the occurrence and during the continuation of an Event of Default by Seller or an Early Termination Date as a result thereof, Seller may do any one or more of the following: (i) exercise any of the rights and remedies of a secured party with respect to all Performance Assurance, including any such rights and remedies under Law then in effect; (ii) exercise its rights of setoff against such collateral and any and all proceeds resulting therefrom or from the liquidation thereof; (iii) draw on any outstanding Letter of Credit issued for its benefit; and (iv) liquidate all or any portion of any Performance Assurance then held by or for the benefit of Seller free from any claim or right of any nature whatsoever of Buyer, including any equity or right of purchase or redemption by Buyer. Seller shall apply the proceeds of the collateral realized upon the exercise of any such rights or remedies to reduce the Buyer's obligations under the Agreement (Buyer remaining liable for any amounts owing to Seller after such application), subject to Seller's obligation to return any surplus proceeds remaining after such obligations are satisfied in full.

(c) Upon an Event of Default of Buyer prior to CPUC Approval, Seller may terminate this Agreement in which case Buyer shall owe Seller liquidated damages in the amount of the Performance Assurance and Seller may retain such Performance Assurances to pay such liquidated damages. Each Party agrees and acknowledges that (a) the actual damages that Buyer would incur due to an Event of Default of Buyer prior to CPUC Approval would be difficult or impossible to predict with certainty, (b) the liquidated damages set forth in this section are a reasonable and appropriate approximation of such damages, and (c) the liquidated damages set forth in this section are the exclusive remedy for an Event of Default of Seller prior to CPUC Approval.

[INSERT additional credit terms depending on term, etc.]

SDG&E may insist on using the EEI master agreement depending on the credit evaluation.

4.2 CPUC Filing and Approval

Within [INSERT] days after the Confirmation Effective Date, Seller shall file with the CPUC the appropriate request for CPUC Approval of this Agreement and possibly other agreements. Seller shall seek CPUC Approval of the filing, including promptly responding to any requests for information related to the request for CPUC Approval. Buyer shall use commercially reasonable efforts to support Seller in obtaining CPUC Approval. Seller and Buyer have no obligation to seek rehearing or to appeal a CPUC decision which fails to approve this Agreement, or which fails to meet the requirements contained in the Condition Precedent section. Notwithstanding anything to the contrary in the Cofirmation, Seller shall not have any obligation or liability to Buyer or any third party for any action or inaction of the CPUC or other Geovernmental Authority affecting the approval or status of this Confirmation as a transaction eligible for content category, as defined in California Public Utilities Code Section 399.16(b)(1).

ARTICLE 5 COMPENSATION

5.1 Monthly Cash Settlement Amount

Purchaser shall pay Seller in the amount equal to (the product of \$[INSERT PRICE] multiplied by the quantity of Green Attributes (in MWhs) delivered or credited to Purchaser's WREGIS account pursuant to Section 3.2 during the applicable Calculation Period.

5.2 Payment Date

Seller shall issue an invoice to Buyer promptly after delivery of the Product into Buyer's WREGIS account, as set forth in the Contract Quantity Section and the Condition Precedent Section. Such invoice shall set forth in reasonable detail the quantity of Green Attributes transferred, the price, and the total payment owed to Buyer. Notwithstanding any provision to the contrary inSection 9.2 of the Master Agreement, payment shall be due and payable shall be made to Seller within ten (10) Business Days , or, if such day is not a Business Day, then on the next Business Day, following receipt of an invoice issued by Seller. The invoice shall include a statement detailing the quantity of Product transferred to Purchaser.

Invoices to Buyer will be sent by Excel/PDF format via email to: [TO BE INSERTED]

Attn: Email: Phone: Facsimile:

For purposes of this Confirmation, Buyer shall be deemed to have received an invoice upon the receipt of the Excel/PDF format of the invoice.

Payment to Seller shall be made by electronic funds transfer pursuant to the following:

BNK: Union Bank of California For: San Diego Gas & Electric Company ABA: Routing # 122000496 ACCT: #4430000352 Confirmation: SDG&E, Major Markets FAX :(213) 244-8316

With a copy to:

San Diego Gas & Electric Company 8315 Century Park Ct. San Diego, California 92123-1593 Attn: Energy Accounting Manager Phone: (858) 650-6177 Facsimile: (858) 650-6190 SDG&E may insist on using the EEI master agreement depending on the credit evaluation.

ARTICLE 6

SELLER'S REPRESENTATIONS, WARRANTIES AND COVENANTS RELATED TO GREEN ATTRIBUTES

6.1 Seller's Representation, Warranties, and Covenants Related to Green Attributes

(a) Seller, and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement that:

(i) the Project qualifies and is certified by the CEC as an Eligible Renewable Energy Resource ("ERR") as such term is defined in Public Utilities Code Section 399.12 or Section 399.16; and

(ii) To the extent the Product includes the Project's output, the Project's output delivered to Buyer qualifies under the requirements of the California Renewables Portfolio Standard. To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law.

(b) Seller and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement the Renewable Energy Credits transferred to Buyer conform to the definition and attributes required for compliance with the California Renewables Portfolio Standard, as set forth in California Public Utilities Commission Decision 08-08-028, and as may be modified by subsequent decision of the California Public Utilities Commission or by subsequent legislation.

To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law.

The term "commercially reasonable efforts" as set forth in Sections 6.1 (a) and (b) above shall not require Seller to incur out-of-pocket expenses in excess of \$[INSERT] in the aggregate in any one calendar year between the Confirmation Effective Date and the last day of the Term.

(c) Seller warrants that all necessary steps to allow the Renewable Energy Credits transferred to Buyer to be tracked in the Western Renewable Energy Generation Information System will be taken prior to the first delivery under the contract.

For the avoidance of doubt, the term "contract" as used in the immediately preceding paragraph means this Agreement.

(d) In addition to the foregoing, Seller warrants, represents and covenants, as of the Confirmation Effective Date and throughout the Delivery Period, that:

- (i) Seller has the contractual rights to sell all right, title, and interest in the Product agreed to be delivered hereunder;
- (ii) Seller has not sold the Product to be delivered under this Confirmation to any other person or entity; and
- (iii) at the time of delivery, all rights, title, and interest in the Product to be delivered under this Confirmation are free and clear of all liens, taxes, claims, security interests, or other encumbrances of any kind whatsoever.

ARTICLE 7 GENERAL PROVISIONS

7.1 [Reserved]

7.2 <u>Governing Law/Venue</u>

THIS AGREEMENT AND THE RIGHTS AND DUTIES OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY AND CONSTRUED, ENFORCED AND PERFORMED IN ACCORDANCE WITH THE LAWS OF THE STATE OF CALIFORNIA, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW. TO THE EXTENT ENFORCEABLE AT SUCH TIME, EACH PARTY WAIVES ITS RESPECTIVE RIGHT TO ANY JURY TRIAL WITH RESPECT TO ANY LITIGATION ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT. The Parties hereby irrevocably and unconditionally agrees that any legal action or proceeding with respect to this Agreement shall be brought in the courts of the State of California in the County of San Diego or the courts of the United States in the County of San Diego, and by executing and delivering this Agreement, both Parties hereby submit to and accept irrevocably and unconditionally, the jurisdiction of the above mentioned courts. The foregoing, however, shall not limit the right of either Party as it may elect to bring any legal action or proceeding or to obtain execution of judgment in any other appropriate jurisdiction.

7.3 Sovereign Immunity

[NOTE TO BIDDERS: insert only if applicable to governmental agencies, etc.] For purposes of this Confirmation only, the WSPP Agreement is amended by adding the following new provision: "Purchaser hereby waives sovereign immunity with regard to disputes relating to this Confirmation."

7.4 Confidentiality Amendment to WSPP Agreement.

Changes to the WSPP shall apply to this Confirmation only. For purposes of this Confirmation, Section 30 (Confidentiality) of the WSPP Agreement is deleted in its entirety and replaced with the following:

"30.1(a) Neither Party shall disclose the non-public terms or conditions of this Agreement or any transaction hereunder to a third party, other than (i) the Party's Affiliates and its and their officers, directors, employees, lenders, counsel, accountants or advisors who have a need to know such information and have agreed to keep such terms confidential, (ii) for disclosure to the Buyer's Procurement Review Group, as defined in CPUC Decision (D) 02-08-071, subject to a confidentiality agreement, (iii) to the CPUC under seal for purposes of review, (iv) disclosure of terms specified in and pursuant to Section 30.1(b) of this Agreement; (v) in order to comply with any applicable law, regulation, including, but not limited to, the California Public Records Act and/or the California Ralph M Brown Act, or any exchange, control area or CAISO rule, or order issued by a court or entity with competent jurisdiction over the disclosing Party ("Disclosing Party"), other than to those entities set forth in subsection (vi); or (vi) in order to comply with any applicable regulation, rule, or order of the CPUC, CEC, or the Federal Energy Regulatory Commission. In connection with requests made pursuant to clause (v) of this Section 30.1(a) ("Disclosure Order") each Party shall, to the extent practicable, use reasonable efforts within its sole and absolute discretion to pursue rights under such applicable laws, regulations, rules or orders which allow for the prevention or limitation of such disclosure. The Disclosure Party's determination of what efforts might be reasonable shall not be subject to challenge by the other

SDG&E may insist on using the EEI master agreement depending on the credit evaluation.

Party. After using such reasonable efforts, the Disclosing Party shall not be: (i) prohibited from complying with a Disclosure Order or (ii) liable to the other Party for monetary or other damages incurred in connection with the disclosure of the confidential information. Except as provided in the preceding sentence, the Parties shall be entitled to all remedies available at law or in equity to enforce, or seek relief in connection with, this confidentiality obligation.

(b) RPS Confidentiality. Notwithstanding Section 30.1(a) of this Agreement, at any time on or after the date on which the Seller makes its filing seeking CPUC approval for this Agreement, either Party shall be permitted to disclose the following terms with respect to this Agreement: Party names, resource type, Delivery Term, project location, Contract Capacity, Contract Quantity, and Delivery Point.

(c) Publicity. Except as otherwise agreed to in this Section 30.1 above, no announcement, publicity, advertising, press release, promotional or marketing materials regarding the arrangement contemplated under this Agreement, including the existence hereof, shall be made by either Party without the prior written approval of the other Party which approval shall not be unreasonably withheld or delayed." Notwithstanding the foregoing, the Parties understand acknowledge and agree that Buyer is a California Public Agency and that certain actions and documents of Buyer are subject to public notice and/or disclosure under applicable laws and regulations, including, but not limited to, the California Public Records Act and/or the California Ralph M. Brown Act, and that Buyer is not obligated to seek prior approval of Seller when Buyer is complying, in its sole and absolute discretion, with such laws and regulations.

ACKNOWLEDGED AND AGREED TO AS OF THE CONFIRMATION EFFECTIVE DATE:

SAN DIEGO GAS & ELECTRIC COMPANY [INSERT NAME OF PURCHASER]

| вү: | BY: |
|--------------------------------------|----------|
| NAME: | NAME: |
| TITLE: Vice President - Energy Suppl | y TITLE: |
| APPROVED AS TO LEGAL FOR | M |

SDG&E may insist on using the EEI master agreement depending on the credit evaluation.

EXHIBIT A

TO THE CONFIRMATION BETWEEN ______AND SAN DIEGO GAS & ELECTRIC COMPANY DATED: _____

PROJECT FACILITY(IES)

| Name of Facility | Resource | Capacity (MW) | CEC RPS ID | WREGIS GU ID | Host Balancing Authority |
|------------------|----------|------------------|------------|-----------------|--------------------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

SDG&E may insist on using the EEI master agreement depending on the credit evaluation.

EXHIBIT B

TO THE CONFIRMATION BETWEEN ______AND SAN DIEGO GAS & ELECTRIC COMPANY DATED: ______

CONTRACT QUANTITIES

| | | | YE | AR | | |
|-----------|----|----|----|----|----|----|
| MONTH | YR | YR | YR | YR | YR | YR |
| January | | | | | | |
| February | | | | | | |
| March | | | | | | |
| April | | | | | | |
| May | | | | | | |
| June | | | | | | |
| July | | | | | | |
| August | | | | | | |
| September | | | | | | |
| October | | | | | | |
| November | | | | | | |
| December | | | | | | |

SDG&E may insist on using the EEI master agreement depending on the credit evaluation.

EXHIBIT C

FORM OF LETTER OF CREDIT

[DATE]

To: San Diego Gas & Electric Company 555 W. Fifth Street Mail Code: ML 18A3 Los Angeles, CA 90013

Re: Our Irrevocable Standby Letter of Credit No.____ In the Amount of US_____

Ladies and Gentlemen:

We hereby open our irrevocable standby Letter of Credit Number _____ in favor of [name of Beneficiary] ("Beneficiary"), by order and for account of [name of Applicant] ("Applicant"), [address of Applicant], available at sight upon demand at our counters, at [location] for an amount of US\$ ______ [amount spelled out and xx/100 U.S. Dollars] against presentation one of the following documents:

1. Statement signed by a person purported to be an authorized representative of Beneficiary stating that: "[name of Applicant] ("Applicant") is in default under the WSPP Agreement and Confirmation between Beneficiary and Applicant dated ______ or under any transaction contemplated thereby (whether by failure to perform or pay any obligation thereunder or by occurrence of a "default", "event of default" or similar term as defined in such agreement, any other agreement between Beneficiary and Applicant, or otherwise). The amount due to Beneficiary is U.S. \$_____."

2. Statement signed by a person purported to be an authorized representative of Beneficiary stating that: "as of the close of business on [insert date, which is less than 60 days prior to the expiration date of the Letter of Credit] you have provided written notice to us indicating your election not to permit extension of this Letter of Credit beyond its current expiry date. The amount due to Beneficiary, whether or not a default has occurred, is U.S. \$_____."

Special Conditions:

- All costs and banking charges pertaining to this Letter of Credit are for the account of Applicant.

- Partial and multiple drawings are permitted.

- Fax of Document 1 or 2 or 3 above is acceptable. Notwithstanding anything to the contrary herein, any drawing hereunder may be requested by transmitting the requisite documents as described above to us by facsimile at ______ or such other number as specified from time to time by us. The facsimile transmittal shall be deemed delivered when received. It is understood that drawings made by facsimile transmittal are deemed to be the operative instrument without the need of originally signed documents.

This Letter of Credit expires on ______ at our counters.

SDG&E may insist on using the EEI master agreement depending on the credit evaluation.

We hereby engage with Beneficiary that upon presentation of a document as specified under and in compliance with the terms of this Letter of Credit, this Letter of Credit will be duly honored in the amount stated in Document 1, 2, or 3 above. If a document is so presented by 1:00 pm on any New York banking day, we will honor the same in full in immediately available New York funds on that day and, if so presented after 1:00 pm on a New York banking day, we will honor the same in full of york banking day.

It is a condition of this Letter of Credit that it shall be deemed automatically extended without an amendment for a one-year period beginning on the present expiry date hereof and upon each anniversary of such date, unless at least ninety (90) days prior to any such expiry date we have sent you written notice by regular and registered mail or courier service that we elect not to permit this Letter of Credit to be so extended beyond, and will expire on its then current expiry date. No presentation made under this Letter of Credit after such expiry date will be honored.

We agree that if this Letter of Credit would otherwise expire during, or within 30 days after, an interruption of our business caused by an act of god, riot, civil commotion, insurrection, act of terrorism, war or any other cause beyond our control or by any strike or lockout, then this Letter of Credit shall expire on the 30th day following the day on which we resume our business after the cause of such interruption has been removed or eliminated and any drawing on this Letter of Credit which could properly have been made but for such interruption shall be permitted during such extended period.

This Letter of Credit is subject to the Uniform Customs and Practice for Documentary Credits (2007 Revision) International Chamber of Commerce, Publication No. 600 ("UCP"), except to the extent that the terms hereof are inconsistent with the provisions of the UCP, including but not limited to Articles 14(b) and 36 of the UCP, in which case the terms of this Letter of Credit shall govern. Matters not covered by the UCP shall be governed and construed in accordance with the laws of the State of California.

[Name of Bank]

Authorized Signature(s)

Appendix 12

2021 RPS Sales Offer Form

Renewable Products Offer Form (RPS REC Sale RFP)



General Instructions

Form Field Key:

Free Form Field Pull Down Menu

Instructions:

- Follow instructions as they appear in each fields' comments or pop-up messages
- Complete ALL fields. Enter N/A if the question is not applicable. Don't put units in the cells, just the raw numbers. (i.e. 10, not 10 MWh)
- Fill out all fields in the units requested
- Do not add, change, or move any cells, rows, columns or worksheets in the workbook
- Confidential Information should be entered in Red Font
- Limit and focus the discussion of the free form fields
- Submit One Offer Form per offer variation
- There is no limit on the number of Forms that can be submitted. Therefore, respondents are encouraged, but not required, to
- submit additional offers for our consideration, such as bids with different tenors and escalators

| | Company Information |
|---|---------------------|
| Company Name Submitting Offer: | |
| Company Name on Potential Contract: | |
| Company Address: | |
| Company City | |
| Company State | |
| Company Zip | |
| Company Country | |
| ls the company Women/Minority/Disabled Veteran owned Business Enterprise as per CPUC General Order 156? | |
| How did the company hear of the RFO? (SDG&E website, SDG&E email, Colleague, Other (please elaborate) | |
| Does the Developer have the appropriate experience? | |

| | Company Representative | |
|--|---------------------------------|---------------------------------------|
| | Primary Contact | Secondary Contact |
| Contact Name: | | |
| Contact Title: | | |
| Office Number: | | |
| Cell Number: | | |
| Email: | | |
| Is the Respondent an affiliate of SDG&E? | | |
| Is the Respondent an affiliate of SDG&E? Does the Respondent have one or more contracts with SDG&E? | | |
| - | | · · · · · · · · · · · · · · · · · · · |
| | | |
| с | orporate Profile and Experience | |
| | | |

| | cribe your corporate background and organizational structure for the project. Please submit a complete nizational chart with all affiliates and parents. | |
|-----|--|--|
| You | must list all companies who participated in putting together this offer and who helped prepare documents. | |

| Product Information | | | | | | | |
|--|--|--|--|--|--|--|--|
| Product Type: | | | | | | | |
| Firm or Unit Contingent: | | | | | | | |
| Point of Delivery: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Comments / Other Information | | | | | | | |
| Is there additional relevant information necessary for SDG&E to evaluate the merits of the proposal? | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Quantitative Description

Provide Bid Quantity and Bid Price in the schedule below.

Note: Tables below are illustrative and start/stop months will vary based on the timing in which SDG&E launches a solicitation.

| Monthly | | | | |
|----------|-----------------------------|------------------|--|--|
| Date | Bid Quantity (RECs or MWhs) | Premium (\$/MWh) | | |
| Mon-Year | | | | |

| | Annually | | | | | |
|------|-----------------------------|------------------|--|--|--|--|
| Date | Bid Quantity (RECs or MWhs) | Premium (\$/MWh) | | | | |
| Year | | | | | | |
| Year | | | | | | |
| Year | | | | | | |
| Year | | | | | | |
| Year | | | | | | |
| Year | | | | | | |
| Year | | | | | | |
| Year | | | | | | |
| Year | | | | | | |
| Year | | | | | | |

Appendix 13

2021 Framework for Assessing Potential RPS Sales

SDG&E's 2021 Framework for Assessing Potential RPS Sales

SDG&E's 2021 RPS Plan addresses the potential sale of renewable generation, stating that SDG&E will address opportunities as they arise, and SDG&E will bank, if possible, or sell, based on whether such a sale is beneficial for its customers.¹

I. Products

SDG&E could sell bundled energy and renewable attributes or unbundled Renewable Energy Credits (RECs) from its portfolio. For buyers interested in bundled energy products, SDG&E could sell bundled energy products not generated prior to the effective date of the resale contract (that is, generated on a go-forward basis).2 For buyers interested in unbundled REC products, SDG&E could sell unbundled RECs from any contract within its portfolio.3 As described in SDG&E's RPS Procurement Plan, Attachment A, SDG&E may also right size its portfolio, in part, through sales, by assigning or novating contracts, in which case SDG&E will file a Tier 3 advice letter.⁴

II. Criteria

SDG&E will consider both quantitative and qualitative criteria when determining whether to bank or sell excess renewable generation. As a threshold matter, if the results of this analysis indicate that a sales scenario would provide the greatest value to customers, then a sale may be pursued. If the banking vs. sales analysis indicates that banking provides the greatest customer value, then the excess generation will likely be banked.⁵

• Quantitative Criteria

- Banking vs. Sales Analysis: As described in more detail under Section 4 in Attachment A, SDG&E will consider the time value of revenues from the potential sale, and the potential replacement cost when evaluating potential sales opportunities.
- Impact on Rates: Another consideration is the magnitude of the impact a potential sale will have on customer bills.

¹ See Section 4 of Attachment A.

² D.11-12-052, pp. 37, 52.

³ D.11-12-052, pp. 36, 56.

⁴ Consistent with D.21-05-030 (PCIA DECISION), SDG&E will issue an RFI for contract Assignment and contract modifications.

⁵ Future Commission decisions within the PCIA proceeding may impact SDG&E's sales criteria.

• Qualitative Criteria

- RPS Position: SDG&E regularly reviews its portfolio positions and considers actions based on future need, which include but are not limited to, procuring, selling and banking renewable generation.
- Load Departure: Future portfolio need and fit are regularly evaluated and encompass a review of load departure that will impact SDG&E's RPS portfolio positions. SDG&E is experiencing significant load departure and continues to assess the impact on its portfolio as it relates to potential sales. Decisions within the PCIA proceeding will impact the manner in which SDG&E sells RPS products.
- Market Liquidity: It is important to SDG&E that the market for renewable products remains liquid so that sales and purchases on behalf of customers can be made at competitive prices. Currently, SDG&E has one of the largest RPS portfolios in the State, and therefore it must consider possible impacts on the market of any potential sales volumes.
- Accounting Rules: SDG&E will consider the potential accounting impacts of selling renewable generation. Such impacts may include a scenario in which both the sales contract and the underlying contract(s) supplying the energy for the sales contract are marked to market value in each reporting period in accordance with generally accepted accounting principles. Due to market volatility, the mark to market adjustment associated with the sale may create volatility in SDG&E's financial statements.
- Impact on GHG Reduction Goals and IRP Targets: With the passage of SB 350 and SB 100, the State is moving toward a more holistic planning process with the goal of reducing GHG emissions through a suite of tools, one of which is the RPS program.⁶ As described under Section 2 of Attachment A, SDG&E has taken a strong leadership position with respect to the State's RPS targets, and in doing so has inherently advanced the goals of the IRP. The impact of any potential sale as it relates to SDG&E's progress towards IRP goals will be incorporated into SDG&E's analysis as appropriate.
- Uncertainty: SDG&E's analysis involves assumptions regarding future market pricing and structure, regulatory framework, and legislative goals many years into the future. Further, there is some uncertainty with respect to load departure and potential impacts of load returning. While

⁶ See Section 4 of Attachment A.

SDG&E believes its assumptions to be reasonable, it acknowledges that markets change over time and the future is not predictable; therefore, this risk must be considered when evaluating any potential sale.

Additionally, SDG&E, along with all other public utilities, is required by law to seek and receive authorization from the Commission to sell assets valued above five million dollars that are useful in its services to the public.⁷ In other words, SDG&E's quantitative and qualitative evaluation must determine that the generation being sold through the potential resale contract is in fact not needed by customers.⁸

III. Buyers

Potential buyers could contract with SDG&E under various scenarios. One scenario would be by responding to a Sales RFP that SDG&E may issue. As mentioned above, SDG&E's 2021 Plan includes a Sales RFP that SDG&E may choose to issue, and if so, it would receive and evaluate purchase proposals from the market. Another scenario would be through a bilateral transaction. In this scenario, a counterparty may approach SDG&E with an unsolicited proposal, or may be approached by SDG&E. Section 4 of Attachment A describes the potential benefits of a bilateral transaction, which is a valuable tool for both purchases and sales due to its flexibility in addressing situations that involve timing constraints and/or complex terms.

IV. Pricing

The overarching goal of SDG&E's sales framework is to identify the best possible outcome for its customers. As with SDG&E's past Commission-approved sales transactions, and considering Section 5 below, the appropriate price thresholds of any potential sales opportunity will be dependent upon the results of SDG&E's quantitative and qualitative evaluation at the time of the transaction, and its reasonableness will be determined by the Commission as it acts on SDG&E's advice letter requesting approval of the transaction.

⁷ Section 851.

⁸ For example, see Commission Resolution E-4741.

V. Maximum REC Sale Volume, Target Price and Price Floor

Maximum REC Sale Volume Methodology:

The following formula represents SDG&E's methodology for calculating its maximum REC sales volume for any particular portfolio content category (PCC) RECs it elects to sell for any given year. This methodology is also consistent in considering assignment or novation.



REC Target Price and Price Floor:



⁹ For example, volumes from mandated programs such as EcoChoice, EcoShare, BioRAM, etc. are deducted in SDG&E's methodology, because SDG&E's bundled customers are not entitled to the green attributes; therefore, the associated RECs cannot be sold.

Appendix 14

2021 TMNBC/BioRAM RPS REC Sales Pro Forma

WSPP AGREEMENT CONFIRMATION BETWEEN SAN DIEGO GAS & ELECTRIC COMPANY AND [INSERT NAME]

This confirmation letter ("Confirmation") confirms the transaction ("Transaction") between **San Diego Gas & Electric Company** ("Seller" or "SDG&E" or "Party B") and **[INSERT NAME]** ("Buyer" or "Party A"), each individually a "Party" and together the "Parties", effective as of [INSERT DATE] (the "Confirmation Effective Date"). This Transaction is governed by the WSPP Agreement effective as of July 28, 2020, along with any amendments and annexes executed between the Parties thereto (the "Master Agreement"). The Master Agreement and this Confirmation shall be collectively referred to herein as the "Agreement." Capitalized terms used but not otherwise defined in this Confirmation have the meanings ascribed to them in the Master Agreement, Tariff or RPS (as defined below). If any term in this Confirmation conflicts with the Master Agreement, the definitions set forth in this Confirmation shall supersede.

| Contact Information: | Name: [INSERT NAME] (" <u>Buyer</u> ") | Name: San Diego Gas & Electric Company (" <u>Seller</u> ") |
|-------------------------|---|---|
| | All Notices: Counterparty: Attn: Phone: Email: Duns: Federal Tax ID Number: | All Notices: San Diego Gas & Electric Company 8315 Century Park Court San Diego, CA Zip: 92123 Attn: Electric & Fuel Procurement Contract Administration Phone: (858) 650-5536 Facsimile: (858) 650-6190 Duns: 006911457 Federal Tax ID Number: 95-1184800 |
| | Invoices: Attn: Phone: Email: | Invoices: San Diego Gas & Electric Company 8315 Century Park Ct. San Diego, California 92123-1593 Attn: Energy Accounting Manager Phone: (858) 650-6177 Facsimile: (858) 650-6190 |
| | Wire Transfer: Bank Name: Bank ABA: Account Number: | Wire Transfer: BNK: Union Bank of California for: San Diego Gas & Electric Company ABA: Routing # 122000496 ACCT: #4430000352 Confirmation: SDG&E, Major Markets FAX: (213) 244-8316 |

CONTACT INFORMATION

| Credit and Collections: Attn: Phone: Email: | Credit and Collections: San Diego Gas & Electric Company, Major Markets 8326 Century Park Court, CP 21 San Diego, CA 92123 Attn.: Credit and Collections Manager Fax No.: (858) 650-6190 Phone: |
|--|--|
| Defaults: With additional Notices of an Event of Default or Potential Event of Default to: Attn: Phone: Email: | Email: Defaults: With additional Notices of an Event of Default or Potential Event of Default to: San Diego Gas & Electric Company 8330 Century Park Ct. San Diego, California 92123 Attn: General Counsel Phone: (858) 650-6141 Facsimile: (858) 650-6106 |

ARTICLE 1. COMMERCIAL TERMS

The Parties hereby agree that the General Terms and Conditions are incorporated herein, and to the following provisions as provided for in the General Terms and Conditions:

| | The "Product" is Unit Contingent Obligation electric energy and associated Green Attributes in the Contract Quantity. | |
|-------------------------------|--|--|
| Product: | During the Delivery Period, Seller shall deliver and sell, and Buyer shall purchase and receive, the Product, subject to the terms and conditions of this Confirmation. Seller shall not substitute or purchase any Green Attributes from any generating resource other than the Project for delivery hereunder. | |
| Project: | All Product sold hereunder shall be from the facility listed in Exhibit A (the "Project" or the "Facility"). The Project from which Product is sold by Seller to Buyer shall: (a) have a first point of interconnection with a California balancing authority, (b) have a first point of interconnection with distribution facilities used to serve end users within a California balancing authority area, or (c) are scheduled from the eligible renewable energy resource into a California balancing authority without substituting electricity from another source. | |
| Contract Capacity: | In any hour throughout the Delivery Term, the "Contract Capacity" shall be in MW, as determined by Seller in accordance with the Contract Quantity section of this Confirmation. | |
| Contract Quantity: | "Contract Quantity" shall be, for the Delivery Term, all output from the Facility, unless excused pursuant to the definition of Unit Contingent Delivery Obligation below, up to [INSERT] MWh. Seller shall determine the hourly Contract Quantity during the Delivery Period. | |
| Contract Price: | Index Price plus Green Attributes Price | |
| Index Price: | "Index Price" means the CAISO Integrated Forward Market Day-Ahead price (as such term is defined in the Tariff) for NP15 for each applicable hour as published by the CAISO on the CAISO website; or any successor thereto, unless a substitute publication and/or index is mutually agreed to by the Parties. | |
| Green Attributes Price: | \$[INSERT] / MWh | |
| Term: | The "Term" of this Transaction shall commence upon the Confirmation Effective Date and shall continue until delivery by Seller to Buyer of the Contract Quantity of the Product has been completed and all other obligations of the Parties under this Agreement have been satisfied, unless terminated earlier due to failure to satisfy the Condition Precedent or as otherwise provided in the Agreement. | |
| Delivery Period: | The "Delivery Period" of this Transaction shall commence on the later of (i) the first day of the calendar month following the calendar month in which CPUC approval occurs and (ii) January 1, 2022 (the "Start Date"), and continue until midnight on December 31, 2022; provided that if CPUC approval is not received by the Start Date above, then the Start Date shall be the first day of the month following the month in which CPUC approval is received and shall continue until midnight on the last day of the month in which the first anniversary of the Start Date, unless extended for make-up deliveries as specified in the Contract Quantity Section or terminated in accordance with the terms herein. | |

| Delivery Point: | The "Delivery Point" is NP-15. |
|---|---|
| | "Unit Contingent Obligation" shall have the following meaning: |
| Unit Contingent Delivery Obligation: The obligation to provide the Contract Quantity is a unit contingent obligation in that S deliver the quantity of the Product from the Project to Buyer, instantaneously upor receipt of such Product, consistent with the terms of this Confirmation on an as as basis. Seller's failure to deliver shall be excused, and Seller shall have no obligation up or replace any failure of the Facility to generate and deliver the quantity from the (i) the Project is unavailable as a result of a Scheduled Maintenance or Forced Outa an event or circumstance that affects the Project so as to prevent Seller from perforobligations, which event or circumstance was not anticipated as of the date the Tr was agreed to, and which is not within the reasonable control of, or the result of the n of, the Seller, (iii) by Buyer's failure to perform, or (iv) by a reduction or insufficiency or that causes a reduction or cessation of generation of electric energy by the Project shall have no obligation to pay for any Product that Seller is unable to deliver. | |
| Scheduling Obligations:Seller, or a qualified third party designated by Seller, shall act as Scheduling Coord Buyer hereby authorizes Seller, or its third-party Scheduling Coordinator designee, to the Product, or cause the Product to be delivered, to the CAISO at the Delivery Point. | |
| Condition Precedent: | The commencement of the Delivery Period in accordance with Section 3 below shall be contingent upon the Seller obtaining or waiving CPUC approval as described in this Confirmation. Either Party has the right to terminate this Confirmation upon notice in accordance with Section 12 of the WSPP Agreement, which will be effective five (5) Business Days after such notice is given, if: (i) the CPUC does not issue a final and non-appealable order approving this Agreement or the requested relief contained in the related advice letter filing, both in their entirety, (ii) the CPUC issues a final and non-appealable order which contains conditions or modifications unacceptable to either Party, or (iii) the final and non-appealable CPUC approval has not been obtained by Seller, on or before December 31, 2021. |
| | The date on which CPUC approval of this Confirmation has been obtained or waived, by Seller, in its sole discretion, shall hereinafter be the "Condition Precedent Satisfaction Date." |
| | Any termination made by a Party under this section shall be without liability or obligation to the other Party. |
| | Notwithstanding any other provision in this Confirmation, Seller will have no obligation to transfer Green Attributes to Purchaser unless the Condition Precedent Satisfaction Date has occurred. |

ARTICLE 2. DEFINITIONS

"Buyer" means "Purchaser".

"CAISO" means the California Independent System Operator.

"CAISO Energy" means "Energy" as defined in the Tariff.

"Renewables Portfolio Standard" or "RPS" means the renewable energy program and policies established by California State Senate Bills 1078, X1 - 2 and 350, codified in California Public Utilities Code Sections 399.11 through 399.32 and California Public Resources Code Sections 25740 through 25751, as such provisions are amended or supplemented from time to time.

"Condition Precedent Satisfaction Date" means the date on which CPUC approval, as fully described in the "Condition Precedent" provision, has been obtained or waived, by Seller, in its sole discretion. "CPUC" means the California Public Utilities Commission or its regulatory successor.

"CPUC Approval" means a final and non-appealable order of the CPUC, without conditions or modifications unacceptable to the Parties, or either of them, which contains the following terms:

(a) Approves this Agreement in its entirety, including payments to be made by the Buyer, subject to CPUC review of the Buyer's administration of the Agreement; and

(b) Finds that any procurement pursuant to this Agreement is procurement from an eligible renewable energy resource for purposes of determining Buyer's compliance with any obligation that it may have to procure eligible renewable energy resources pursuant to the California Renewables Portfolio Standard (Public Utilities Code Section 399.11 *et seq.*), Decision 03-06-071, or other applicable law.

CPUC Approval will be deemed to have occurred on the date that a CPUC decision containing such findings becomes final and non-appealable.

Notwithstanding the foregoing, if a Tier 2 or Tier 3 advice letter process is used to obtain CPUC Approval of this Agreement, CPUC Approval will also be deemed to have occurred on the date that a CPUC Energy Division disposition which contains such findings or deems approved an advice letter requesting such findings becomes final and non-appealable.

"Day-Ahead" has the meaning set forth in the Tariff.

"Delivery Period" means "Delivery Term".

"Forced Outage" means the removal from service availability of a generating unit, transmission line, or other facility for emergency reasons, or the condition in which the equipment is unavailable due to unanticipated failure.

"Governmental Authority" means any federal, state, local or municipal government, governmental department, commission, board, bureau, agency, or instrumentality, or any judicial, regulatory or administrative body, having jurisdiction as to the matter in question.

"Green Attributes" means any and all credits, benefits, emissions reductions, offsets, and allowances, howsoever entitled, attributable to the generation from the Project, and its avoided emission of pollutants. Green Attributes include but are not limited to Renewable Energy Credits, as well as:

- (i) any avoided emission of pollutants to the air, soil or water such as sulfur oxides (SOx), nitrogen oxides (NOx), carbon monoxide (CO) and other pollutants;
- (ii) any avoided emissions of carbon dioxide (CO2), methane (CH4), nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride and other greenhouse gases (GHGs) that have been determined by the United Nations Intergovernmental Panel on Climate Change, or otherwise by law, to contribute to the actual or potential threat of altering the Earth's climate by trapping heat in the atmosphere;¹
- (iii) the reporting rights to these avoided emissions, such as Green Tag Reporting Rights. Green Tag Reporting Rights are the right of a Green Tag Purchaser to report the ownership of accumulated Green Tags in compliance with federal or state law, if applicable, and to a federal or state agency or any other party at the Green Tag Purchaser's discretion, and include without limitation those Green Tag Reporting Rights accruing under Section 1605(b) of The Energy Policy Act of 1992 and any present or future federal, state, or local law, regulation or bill, and international or foreign emissions trading program. Green Tags are accumulated on a MWh basis and one Green Tag represents the Green Attributes associated with one (1) MWh of Energy.

Green Attributes do not include;

(i) any energy, capacity, reliability or other power attributes from the Project,

¹ Avoided emissions may or may not have any value for GHG compliance purposes. Although avoided emissions are included in the list of Green Attributes, this inclusion does not create any right to use those avoided emissions to comply with any GHG regulatory program.

- (ii) production tax credits associated with the construction or operation of the Project and other financial incentives in the form of credits, reductions, or allowances associated with the Project that are applicable to a state or federal income taxation obligation,
- (iii) fuel-related subsidies or "tipping fees" that may be paid to Seller to accept certain fuels, or local subsidies received by the generator for the destruction of particular preexisting pollutants or the promotion of local environmental benefits, or
- (iv) emission reduction credits encumbered or used by the Project for compliance with local, state, or federal operating and/or air quality permits.

If the Project is a biomass or biogas facility and Seller receives any tradable Green Attributes based on the greenhouse gas reduction benefits or other emission offsets attributed to its fuel usage, it shall provide Buyer with sufficient Green Attributes to ensure that there are zero net emissions associated with the production of electricity from the Project. **[STC 2, Green Attributes, Modifiable.]**

"Integrated Forward Market" has the meaning set forth in the Tariff.

"Scheduled Maintenance" means an outage or partial outage scheduled to perform the necessary normal maintenance on a generating unit, transmission line, or other facility to preserve the reliability of the unit or overall system reliability, including scheduled outages for such maintenance.

"Tariff" means the tariff and protocol provisions, including any current CAISO-published "Operating Procedures" and "Business Practice Manuals," as amended or supplemented from time to time, of the CAISO.

"Vintage" means the calendar year and month during the Delivery Period in which the WREGIS Certificate is created through the generation of the Product.

"WREGIS" means the Western Renewable Energy Generation Information System or other process recognized under applicable laws for the registration, transfer or ownership of Green Attributes.

"WREGIS Certificate" means "Certificate" as defined by WREGIS in the WREGIS Operating Rules.

"WREGIS Operating Rules" means the operating rules and requirements adopted by WREGIS.

ARTICLE 3. CONVEYANCE OF RENEWABLE ENERGY

3.1. Seller's Conveyance Of Electric Energy

Except as stated in this Section 3.1 and beginning on the first day of the Delivery Period and throughout all applicable months of the Delivery Period, Seller shall deliver and sell, and Buyer shall purchase and receive, the Product, subject to the terms and conditions of this Confirmation. Seller will not be obligated to sell or replace any Product that is not or cannot be delivered as a result of Uncontrollable Force.

Should any electric energy provided by Seller under this Confirmation be determined to have originated from a resource other than the Project, Seller shall remedy such failure in a manner reasonably acceptable to Buyer within a reasonable period of time after written notice of such failure is given to the Seller by the Buyer.

3.2. Seller's Conveyance Of Green Attributes

(a) <u>Green Attributes.</u> Seller hereby provides and conveys all Green Attributes associated with all electricity generation from the Project to Buyer as part of the Product being delivered. Seller represents and warrants that Seller holds the rights to all Green Attributes from the Project, and Seller agrees to convey and hereby conveys all such Green Attributes to Buyer as included in the delivery of the Product from the Project. The Green Attributes are delivered and conveyed upon completion of all actions described in Section 3.2(b) below. **[STC 2 - Green Attributes, Modifiable.]**

- (b) Green Attributes Initially Credited to Seller's WREGIS Account
 - (i) During the Delivery Period, Seller, at its own cost and expense, shall maintain its

registration with WREGIS. All Green Attributes transferred by Seller hereunder shall be designated California RPS-compliant with WREGIS. Seller shall, at its sole expense, use WREGIS as required pursuant to the WREGIS Operating Rules to effectuate the transfer of Green Attributes to Buyer in accordance with WREGIS reporting protocols and WREGIS Operating Rules.

- (ii) For each applicable month of the Delivery Period, Seller shall deliver and convey the Green Attributes associated with the electric energy delivered in Section 3.1 within five (5) Business Days after the end of the month in which the WREGIS Certificates for the Green Attributes are created by properly transferring such WREGIS Certificates, in accordance with the rules and regulations of WREGIS, equivalent to the quantity of Green Attributes to Purchaser into Purchaser's WREGIS account such that all right, title and interest in and to the WREGIS Certificates shall transfer from Seller to Purchaser.
- (iii) In addition to its other obligations under this Section 3.2, Seller shall convey to Buyer WREGIS Certificates from the Project that are of the same Vintage as the Product that was provided under Section 3.1 of this Confirmation.

ARTICLE 4. PERFORMANCE ASSURANCE; CPUC FILING AND APPROVAL

4.1. Performance Assurance

Notwithstanding any provision in the WSPP Agreement to the contrary, including Section 27, neither Party shall be required to post performance assurance, collateral or other security for this Transaction.

4.2. CPUC Filing and Approval

Within thirty (30) days after the Confirmation Effective Date, Seller shall file with the CPUC the appropriate request for CPUC approval of this Agreement and possibly other agreements. Seller shall seek CPUC approval of the filing, including promptly responding to any requests for information related to the request for CPUC approval. Buyer shall use commercially reasonable efforts to support Seller in obtaining CPUC approval. Seller and Buyer have no obligation to seek rehearing or to appeal a CPUC decision which fails to approve this Agreement, or which fails to meet the requirements contained in the Condition Precedent section. Notwithstanding anything to the contrary in the Confirmation, Seller shall not have any obligation or liability to Buyer or any third party for any action or inaction of the CPUC or other Governmental Authority affecting the approval or status of this Confirmation as a transaction eligible for portfolio content category, as defined in California Public Utilities Code Section 399.16(b)(1).

ARTICLE 5. COMPENSATION

5.1. Calculation Period

The "Calculation Period" shall be each calendar month, or portion thereof, during the Delivery Period.

5.2. Monthly Cash Settlement Amount

Purchaser shall pay Seller the Monthly Cash Settlement Amount, in arrears, for each Calculation Period in the amount equal to the sum of (a) plus (b) minus (c), where:

(a) equals the sum, over all hours of the Calculation Period, of the applicable Index Price for each hour, multiplied by the quantity of CAISO Energy scheduled, delivered and received by Purchaser pursuant to Section 3.1 during that hour; and

(b) equals the product of the Green Attributes Price multiplied by the quantity of Green Attributes (in MWhs) delivered, or to be delivered, or credited to Purchaser's WREGIS account pursuant to Section 3.2 during the applicable Calculation Period; and

(c) equals the sum, over all hours of the Calculation Period, of the applicable Index Price for

each hour, multiplied by the quantity of CAISO Energy scheduled, delivered and received by Purchaser pursuant to Section 3.1 during that hour.

Such Monthly Cash Settlement Amount constitutes payment for the Product, including the Green Attributes, for such applicable Calculation Period. Buyer shall be obligated to make such payments with respect to each applicable Calculation Period notwithstanding the fact that the Green Attributes associated with a particular Calculation Period may be delivered or credited to Buyer's WREGIS account subsequent to the conclusion of the applicable Calculation Period in accordance with Section 3.2(b) of this Confirmation, provided that if Seller fails to comply with the provisions of Section 3.2(b), Buyer shall be entitled to exercise all rights and remedies available to Buyer under this Agreement for Seller's failure to deliver the Product.

5.3. Invoicing; Payment Date

(a) Invoices for each Monthly Cash Settlement Amount shall be sent by Seller to Buyer within ten (10) Business Days after the last day of the Calculation Period, in Excel/PDF format via email to Buyer's Invoice Contact set forth above in Contact Information. For purposes of this Confirmation, Buyer shall be deemed to have received an invoice upon the receipt of the Excel/PDF format of the invoice. Payment to Seller shall be made by electronic funds transfer pursuant to the Wire Transfer instructions set forth above in Contract Information.

(b) Notwithstanding any provision to the contrary in Section 9.2 of the Master Agreement, payments of each Monthly Cash Settlement Amount by Purchaser to Seller under this Confirmation shall be due and payable on or before the later of the twentieth (20th) day of the month in which the Purchaser receives from Seller an invoice for the Calculation Period to which the Monthly Cash Settlement Amount pertains, or within ten (10) Business Days, or, if such day is not a Business Day, then on the next Business Day, following receipt of an invoice issued by Seller for the applicable Calculation Period. The invoice shall include a statement detailing the portion of Product transferred to Purchaser during the applicable Calculation Period.

ARTICLE 6. SELLER'S REPRESENTATIONS, WARRANTIES AND COVENANTS

(a) Seller, and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement that:

- (i) the Project qualifies and is certified by the CEC as an Eligible Renewable Energy Resource ("ERR") as such term is defined in Public Utilities Code Section 399.12 or Section 399.16; and
- (ii) the Project's output delivered to Buyer qualifies under the requirements of the California Renewables Portfolio Standard. To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law. [STC 6, Non-Modifiable.]
- (iii) Seller and, if applicable, its successors, represents and warrants that throughout the Delivery Term of this Agreement the Renewable Energy Credits transferred to Buyer conform to the definition and attributes required for compliance with the California Renewables Portfolio Standard, as set forth in California Public Utilities Commission Decision 08-08-028, and as may be modified by subsequent decision of the California Public Utilities Commission or by subsequent legislation. To the extent a change in law occurs after execution of this Agreement that causes this representation and warranty to be materially false or misleading, it shall not be an Event of Default if Seller has used commercially reasonable efforts to comply with such change in law. [STC REC-1, Nonmodifiable.]
- (b) The term "commercially reasonable efforts" as set forth in Sections 6.1 (a) and (b) above

shall not require Seller to incur out-of-pocket expenses in excess of \$10,000 in the aggregate in any one calendar year between the Confirmation Effective Date and the last day of the Term.

(c) Seller warrants that all necessary steps to allow the Renewable Energy Credits transferred to Buyer to be tracked in the Western Renewable Energy Generation Information System will be taken prior to the first delivery under the contract. **[STC REC-2, Non-modifiable.]**

For the avoidance of doubt, the term "contract" as used in the immediately preceding paragraph means this Agreement.

(d) In addition to the foregoing, Seller warrants, represents and covenants, as of the Confirmation Effective Date and throughout the Delivery Period, that:

- (i) Seller has the contractual rights to sell all right, title, and interest in the Product agreed to be delivered hereunder;
- (ii) Seller has not sold the Product to be delivered under this Confirmation to any other person or entity; and
- (iii) at the time of delivery, all rights, title, and interest in the Product to be delivered under this Confirmation are free and clear of all liens, taxes, claims, security interests, or other encumbrances of any kind whatsoever.
- (iv) The original upstream third party contract(s), under which Buyer is re-selling, meets the criteria of California Public Utilities Code Section 399.16(b)(1)(A);
- (v) This Agreement transfers only Energy and Green Attributes that have not yet been generated prior to the commencement of the Delivery Period; and
- (vi) The Energy transferred hereunder is transferred to Buyer in real time.

ARTICLE 7. GENERAL PROVISIONS

7.1. Facility Identification

Upon Buyer's reasonable request, within ten (10) Business Days after the end of each month during the Delivery Period, Seller shall provide indicative identification, based on preliminary meter data, of the Facility.

7.2. Governing Law/Venue

THIS AGREEMENT AND THE RIGHTS AND DUTIES OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY AND CONSTRUED, ENFORCED AND PERFORMED IN ACCORDANCE WITH THE LAWS OF THE STATE OF CALIFORNIA, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW. TO THE EXTENT ENFORCEABLE AT SUCH TIME, EACH PARTY WAIVES ITS RESPECTIVE RIGHT TO ANY JURY TRIAL WITH RESPECT TO ANY LITIGATION ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT. **[STC 17, Applicable Law, Non-Modifiable.]**

The Parties hereby irrevocably and unconditionally agrees that any legal action or proceeding with respect to this Agreement shall be brought in the courts of the State of California in the County of San Diego or the courts of the United States in the County of San Diego, and by executing and delivering this Agreement, both Parties hereby submit to and accept irrevocably and unconditionally, the jurisdiction of the above mentioned courts. The foregoing, however, shall not limit the right of either Party as it may elect to bring any legal action or proceeding or to obtain execution of judgment in any other appropriate jurisdiction.

7.3. SOVEREIGN IMMUNITY

Purchaser warrants and covenants that with respect to its contractual obligations hereunder and performance thereof, it will not claim immunity on the grounds of sovereignty or similar grounds from (a) suit, (b) jurisdiction of court (provided that such court is located within a venue permitted under the Agreement), or (c) execution or enforcement of any judgment; provided, however, that nothing in this Agreement shall waive the obligations and/or rights set forth in the California Government Claims Act

(Government Code Section 810 et seq.).

7.4. Confidentiality Amendment to WSPP Agreement

Changes to the WSPP shall apply to this Confirmation only. For purposes of this Confirmation, Section 30 (Confidentiality) of the WSPP Agreement is deleted in its entirety and replaced with the following:

"30.1(a) Each Party recognizes that this Confirmation is subject to the requirements of the California Public Records Act (Government Code Section 6250 et seq.). Neither Party shall disclose the non-public terms or conditions of this Agreement or any transaction hereunder to a third party, other than (i) the Party's Affiliates and its and their officers, directors, employees, lenders, counsel, accountants or advisors who have a need to know such information and have agreed to keep such terms confidential, (ii) for disclosure to the Buyer's Procurement Review Group, as defined in CPUC Decision (D) 02-08-071, subject to a confidentiality agreement, (iii) to the CPUC under seal for purposes of review, (iv) disclosure of terms specified in and pursuant to Section 30.1(b) of this Agreement; (v) in order to comply with any applicable law, regulation, including, but not limited to, the California Public Records Act and/or the California Ralph M Brown Act, or any exchange, control area or CAISO rule, or order issued by a court or entity with competent jurisdiction over the disclosing Party ("Disclosing Party"), other than to those entities set forth in subsection (vi); or (vi) in order to comply with any applicable regulation, rule, or order of the CPUC, CEC, or the Federal Energy Regulatory Commission. In connection with requests made pursuant to clause (v) of this Section 30.1(a) ("Disclosure Order") each Party shall, to the extent practicable, use reasonable efforts within its sole and absolute discretion to pursue rights under such applicable laws, regulations, rules or orders which allow for the prevention or limitation of such disclosure. The Disclosure Party's determination of what efforts might be reasonable shall not be subject to challenge by the other Party. After using such reasonable efforts, the Disclosing Party shall not be: (i) prohibited from complying with a Disclosure Order or (ii) liable to the other Party for monetary or other damages incurred in connection with the disclosure of the confidential information. Except as provided in the preceding sentence, the Parties shall be entitled to all remedies available at law or in equity to enforce, or seek relief in connection with, this confidentiality obligation.

(b) RPS Confidentiality. Notwithstanding Section 30.1(a) of this Agreement, at any time on or after the date on which the Seller makes its filing seeking CPUC approval for this Agreement, either Party shall be permitted to disclose the following terms with respect to this Agreement: Party names, resource type, Delivery Term, project location, Contract Capacity, Contract Quantity, and Delivery Point.

(c) Publicity. Except as otherwise agreed to in this Section 30.1 above, no announcement, publicity, advertising, press release, promotional or marketing materials regarding the arrangement contemplated under this Agreement, including the existence hereof, shall be made by either Party without the prior written approval of the other Party which approval shall not be unreasonably withheld or delayed. Notwithstanding the foregoing, the Parties understand acknowledge and agree that Buyer is a California Public Agency and that certain actions and documents of Buyer are subject to public notice and/or disclosure under applicable laws and regulations, including, but not limited to, the California Public Records Act and/or the California Ralph M. Brown Act, and that Buyer is not obligated to seek prior approval of Seller when Buyer is complying, in its sole and absolute discretion, with such laws and regulations."

7.5 No Recourse to Members of Buyer

Buyer is organized as a Joint Powers Authority in accordance with the Joint Exercise of Powers Act of the State of California (Government Code Section 6500, et seq.) and is a public entity separate from its constituent members. Buyer will solely be responsible for all debts, obligations and liabilities accruing and arising out of this Confirmation. Seller will have no rights and shall not make any claims, take any actions or assert any remedies against any of Buyer's constituent members, or the officers, directors, advisors, contractors, consultants or employees of Buyer or Buyer's constituent members, in connection with this Confirmation.

7.6 Counterparts

This Confirmation may be signed in any number of counterparts with the same effect as if the signatures to the counterparts were upon a single instrument. The Parties may rely on electronic or scanned signatures as originals under this Confirmation. Delivery of an executed signature page of this Confirmation by electronic mail transmission (including PDF) shall be the same as delivery of a manually executed signature page.

7.7 Entire Agreement; No Oral Agreements or Modifications

This Confirmation sets forth the terms of the Transaction into which the Parties have entered and shall constitute the entire agreement between the Parties relating to the contemplated purchase and sale of the Product. Notwithstanding any other provision of the Agreement, this Transaction may be confirmed only through a Documentary Writing executed by both Parties, and no amendment or modification to this Transaction shall be enforceable except through a Documentary Writing executed by both Parties.

[Signatures appear on the following page.]

ACKNOWLEDGED AND AGREED TO AS OF THE CONFIRMATION EFFECTIVE DATE:

| BY: BY: | |
|---------------|--|
| NAME: NAME: | |
| TITLE: TITLE: | |

_____ APPROVED AS TO LEGAL FORM

EXHIBIT A

TO THE CONFIRMATION BETWEEN [INSERT NAME] AND SAN DIEGO GAS & ELECTRIC COMPANY

DATED: [INSERT]

PROJECT FACILITY

| Facility | Resource ID | Capacity (MW) | CEC RPS ID | WREGIS GU ID | Balancing Authority |
|----------------------|----------------|------------------|---------------|-----------------|------------------------|
| HL Power Company, LP | LASSEN_6_UNITS | 24 | 60077A | W604 | CAISO |

Appendix A

Redline Version of Draft 2021 RPS Plan Update Compared to Final 2021 RPS Plan



SDG&E's

Attachment A

San Diego Gas & Electric 2021 Draft RPS Procurement Plan

September 13, 2021

2021 Final Renewables Portfolio Standard Procurement Plan

February 17, 2022

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Appendix A – Redline Version of Final 2021 RPS Plan as compared to Draft 2021 RPS Plan

Update-as compared to original Draft 2021 RPS Plan

I. SUMMARY OF RPS-MAJOR CHANGES TO SDG&E'S DRAFTFINAL 2021 RPS PLAN

The table in this section describes major changes between San Diego Gas & Electric Company's ("SDG&E") Final 2020 RPS Plan⁴ and its Draft 2021 RPS Plan (hereafter, "Plan" or "Draft Plan"). This Plan has been reformatted, and certain sections have been consolidated into other related sections to better align with the Assigned Commissioner and Assigned Administrative Judges' Ruling Identifying Issues and Schedule of Review for 2021 Renewables Portfolio Standard Procurement Plans ("ACR").² The table below details the changes made to this Draft Plan from Updated Draft 2021 Renewables Portfolio Standard ("RPS") Plan³ and its Final 2021 RPS Plan ("Plan"). On January 18, 2022, the California Public Utilities Commissions ("CPUC" or "Commission") issued Decision ("D.") 22-01-004, approving, with modifications, SDG&E's Final 2021 RPS Plan. Changes to this Plan are made in accordance with D.22-01-004 and are described below. Final 2020 RPS Plan.

SDG&E's updatedFinal 2021 Draft-RPS Plan, filed on September 13, 2021, includes changes to SDG&E's three alternative Renewable Net Short ("RNS") scenarios. These scenarios, included as Appendices 1b, 1c, and 1d. The changes, reflect the RPS portfolio allocation methodology proposedapproved in Advice Letter 3835-E and also include impacts from the Integrated Resource Plan ("IRP") mid-term reliability procurement order in D.21-06-035 ("MTR procurement order"). Specifically, SDG&E includes volumes from RPS eligible resources that may be procured through the MTR procurement order and that may count towards SDG&E's RPS percentage.⁴

| Plan Reference | Plan Section | Summary/Justification |
|---------------------|------------------------------|--|
| Attachment A | Section II: Executive | Updated to reflect key issues within SDG&E's |
| – <u>Final</u> 2021 | Summary <u> – Key Issues</u> | 2021 Draft RPS Plan, including, among other |
| Draft-RPS Plan | | things, discussion of its request for the option to |
| | | hold a procurement solicitation and to hold a |
| | | Request for Information ("RFI"), discussion of |
| | | impacts of Decision ("D.") 21-05-030, and other |
| | | requests. Relief Requested section |
| | | added.Revised to discuss, at a high level, |
| | | modifications SDG&E made to conform its Plan |
| | | to D.22-01-004, and requested relief granted |

¹ SDG&E's Final 2020 RPS Plan was filed on February 19, 2021.

² The ACR was initially filed on March 30, 2021 and was updated on April 21, 2021 and May 6, 2021. A Ruling issued on May 26, 2021 further modified the Plan requirements for IOUs only to incorporate directives resulting from D.21 05 030.

³ SDG&E's Updated Draft 2021 RPS Plan was filed on September 13, 2021.

⁴ SDG&E also includes inconsequential updates due to the passage of time and corrections of typographical errors.

| Attachment A | Section III: Summary of | Section reformatted. |
|---------------------------|---------------------------|--|
| –Final 2021 | LegislativeRecent | |
| <u>Draft</u> RPS Plan | Legislation and/or | to reflect the passage of time. |
| | Regulatory Changes | Inclusion of Assembly Bill ("AB") 1088 to |
| | Affecting this Plan | describe legislation SDG&E supports. Additional |
| | Affecting this Plan | |
| | | discussion added to identify impacts to SDG&E's |
| | | RPS procurement planning as a result of |
| | | renewables that may be procured through the |
| | | IRP mid-term procurement orders, impacts of |
| | | portfolio optimization, and the reopening of |
| | | SDG&E's ReMAT program |
| Attachment A | Section IV: Assessment of | <u>Section reformatted to better align with ACR.</u> |
| – <u>Final</u> 2021 | RPS Portfolio Supply and | Description of load forecast used for Renewable |
| Draft RPS Plan | Demand | Net Short ("RNS") report, which describes |
| | | SDG&E's modification to the load forecast in |
| | | recognition of departing load changes. |
| | | Impact of Departing Load: changes to language |
| | | to contemplate D.21 05 030, including the |
| | | Voluntary Allocation and Market Offer |
| | | ("VAMO") and RFI. |
| | | Determination of Compliance Need: discussion |
| | | of SDG&E's request for the option to hold a |
| | | solicitation in recognition of D.21 05 030 and |
| | | Integrated Resource Plan ("IRP") procurement |
| | | orders. |
| | | |
| | | of D.21-05-030 and SDG&E's three alternative |
| | | scenarios. This was included to illustrate the |
| | | potential impacts of load departure and the |
| | | VAMO. |
| | | Banking vs Sales: discussion of VAMO and |
| | | potential for banking. Included to reflect D.21 |
| | | 05-030. |
| | | Status of Power Charge Indifference Adjustment ("PCLA") Designer, discussion of alternative PNIS |
| | | ("PCIA") Decision: discussion of alternative RNS |
| | | scenarios and VAMO to recognize D.21-05-030. |
| | | - Request to hold a RFI, in accordance with D.21 |
| | | 05-030. SDG&E responded to seven questions |
| | | per the ALJ's Ruling dated May 26, 2021. |
| | | Legislation and Mandated Programs |
| | | reformatted. Green Tariff Shared Renewables |
| | | ("GTSR") and Energy Storage sections moved |
| | | under Responsiveness to Legislation and |
| | | Programs. Renewable Auction Mechanism |

| | | ("RAM") moved under mandated programs. Status of mandated programs updated to reflect |
|----------------------------|--------------------------|--|
| | | the passage of time. |
| | | Discussion of the proliferation of Community Choice |
| | | Aggregators ("CCA") and the need for a central |
| | | procurement entity and provider of last resort. Added |
| | | discussion of SDG&E's renewable energy credit |
| | | ("REC") bank providing risk mitigation against |
| | | noncompliance |
| | | Discussion of impacts to RPS from medium and |
| | | heavy duty electric vehicles, and customers |
| | | returning to bundled service |
| | | Added detail on SDG&E's developing projects |
| | | |
| | | and their low risk of failure |
| | | Discussion of volumetric and capacity cap Undete to portfolio optimization optimization |
| | | - Update to portfolio optimization activities |
| | | - Update to Green Tariff Shared Renewables |
| | | Program ("GTSR") status |
| Attachment A | Section V: Project | - Discussion of Reference System Portfolio ("RSP" |
| – <u>Final</u> 2021 | Development Status | within IRP, in accordance with ACR. Update to |
| Draft RPS Plan | <u>Update</u> | reflect SDG&E made public the previously |
| | | redacted location column in its Project |
| | | Development Status Update, contained in |
| | | Appendix 1a |
| Attachment A | Risk Assessment Section | Interconnection and coordination with California |
| – <u>Final</u> 2021 | VI: Potential Compliance | Independent System Operator ("CAISO") discussion made more concise. Included updated link to CAISO |
| Draft -RPS Plan | Delays | Transmission Plan. Revised formatting to align with |
| | | Assigned Commissioner's Ruling |
| | | Added discussion of SDG&E's qualitative analysis |
| | | on project failure rates for projects under |
| | | construction, and SDG&E's intent to consider |
| | | adding quantitative support by using a |
| | | milestone rubric to help establish a project's |
| | | failure rate |
| | | - Additional discussion of risk factors that could |
| | | impact SDG&E's RPS planning and how SDG&E |
| | | considers those factors such as variable |
| | | |
| Attachmant A | Section VIII: Dick | generation and resource availability |
| Attachment A | Section VII: Risk | Minor reformatting and rewording. |
| – 2021 Draft | Assessment | |
| RPS Plan | | |

| Attachment A | Section VIII: | Inclusion of three alternative scenarios to |
|----------------------|---------------------------------------|---|
| | RNS Calculation | illustrate the potential impacts of load |
| RPS Plan | | departure and D.21-05-030. |
| Attachment A | Section X: Bid | - Renumbering of Appendices 9A-9D |
| <u>-2021 Draft</u> | Solicitation Protocol | |
| RPS Plan | | Renewable Auction Mechanism ("BioRAM") pro- |
| | | forma contract. |
| | | Discussion of D.21 05 030 and SDG&E's request |
| | | for the option to hold a solicitation. |
| Attachment A | Section XI: Safety | |
| | , | |
| RPS Plan | | |
| Attachment A | Section XIII: Economic | |
| | Curtailment | |
| RPS Plan | | overgeneration. |
| Attachment A | Section XV: | — Updated introduction and discussion to describe |
| -Final 2021 | Coordination with the | the IRP process and alignment with RPS |
| Draft RPS Plan | IRP proceeding | program. |
| | | Updates to table to reflect uncertainty Discussion of |
| | | impacts from D.21 05 030 and procurement |
| | | resulting from IRP mid-term procurement |
| | | orders in the IRP. |
| Appendix 1 & | RNS & Cost | |
| 2Attachment A | QuantificationRenewable | 2021, including alignment with the PCIA eligible |
| Final 2021 RPS | Net Short | RPS allocation methodology proposed in Advice |
| <u>Plan</u> | | Letter 3835 E. |
| | | - Additional RNS scenarios included as 1b, 1c, and |
| | | 1d to demonstrate load departure at 40, 50, and |
| | | 60 percent and reductions to SDG&E's RPS |
| | | portfolio as a result of D.21 05 030's VAMO. |
| | | Updated to specify that SDG&E is adding |
| | | impacts from potential RPS-eligible IRP |
| | | procurement |
| Appendix 4 <u>1a</u> | Safety | - Appendix 4 was previously an appendix |
| | ConsiderationsSDG&E's | describing major changes to SDG&E's RPS Plan. |
| | Conforming RNS and | Major changes have been relocated to Section I |
| | Project Development | of Attachment A and Appendix 4 is now Safety |
| | Status Update | Considerations. Removed excess redactions |
| Appendix 5 & 6 | Long and Short Term | — Modifications to pro forma Section 13.2 adding |
| | | moundations to proforma section 15.2 adding |
| Appendix 5 & 0 | <u> </u> | to the scope of contract Assignments without |
| Appendix 5 & 0 | Purchase Power Purchase Agreements | to the scope of contract Assignments without consent. |

| Appendix 7 | 2021 Renewable Energy | Modification to Section 9.3 regarding contract |
|-------------------|--------------------------|--|
| | Credit ("REC") | Assignments |
| | Agreement | |
| Appendix 10 & | Bundled and Unbundled | Modifications to pro forma Section 13.2 adding |
| 11 | Sales PPAs | to the scope of contract Assignments without |
| | | consent. |
| Appendix | 2021 Framework for | - Request for approval of changes to SDG&E's REC |
| 13 Appendices | Assessing Potential RPS | sales framework. Changes are made to |
| <u>1b, 1c, 1d</u> | SalesSDG&E's Alternative | confidential subsections not available in the |
| | RNS Scenarios | public version of SDG&E's RPS Plan. Updated to |
| | | include potential RPS-eligible resources |
| | | procured through the IRP's mid-term |
| | | procurement order |
| Appendix 14 | 2021 BioRAM REC Sales | Pro forma created for as available REC sales |
| | PPA | associated within the Bioenergy Market |
| | | Adjusting Tariff ("BioMAT") program. |

II. EXECUTIVE SUMMARY – KEY ISSUES

SDG&E's DraftFinal 2021 RPS Plan describes, among other things, the processes used by SDG&E to determine any RPS procurement need or excess, as well as the methods SDG&E will use to manage its RPS portfolio to meet RPS program compliance targets in a cost-effective manner. For Compliance Period ("CP") 3 (2017-2020), SDG&E procured 42 percent of its power from renewable resources, which is well above the State's statutory and Commission's RPS program requirements.⁵

Key issues SDG&E currently faces include the impacts of departing load and impacts to SDG&E's RPS Portfolio resulting from D.21-05-030 (the "Portfolio Optimization Decision") within the PCIA proceeding. As discussed further below, the Portfolio Optimization Decision is a major factor in SDG&E's request, via this submission, for the Commission to authorize SDG&E to have an option to hold an RPS procurement solicitation in the 2021 RPS Plan cycle because SDG&E's RPS portfolio is likely to decrease substantially as a result. Considerations related to mid term procurement in the IRP are also discussed and used to support SDG&E's request to have the discretion to hold a solicitation.⁶ Regarding RPS sales, SDG&E held a REC sale solicitation in the 2020 RPS Plan cycle, and no bids were selected from the pool of bidders because there were no qualifying bids within the parameters of the REC sales framework approved by the Commission. In this Plan, SDG&E is requesting to change its REC sales framework to allow for more flexibility to increase the likelihood of successfully contracting with one or more counterparties.

Additionally, the Portfolio Optimization Decision's new VAMO processportfolio resulting from D.21-05-030 (the "Portfolio Optimization Decision") within the PCIA proceeding. The Voluntary Allocation and Market Offer ("VAMO") process, outlined in the Portfolio Optimization Decision, will have a significant impact on SDG&E's RPS position, and SDG&E is anticipating the possibility that it may be RPS in 2025 without the use of its REC bank.

SDG&E is including in this PlanE's analysis includes three alternative RNS scenarios which show SDG&E's RPS position through 2030. These scenarios illustrate potential load departure of 40, 50, and 60 percent. SDG&E's PCIA eligible RPS portfolio is commensurately reduced by the percentage of load departure, thereby showing the potential impact of VAMO. For example, if SDG&E's retail load is reduced by 50 percent, to illustrate the impact of VAMO, SDG&E's PCIA eligible RPS portfolio would also be reduced by 50 percent.⁷ SDG&E also includes RPS eligible procurement directives from the IRP in its RPS planning, which may impact SDG&E's RPS.

⁵ The RPS requirements for CP 3 are 27 percent for 2017, 29 percent for 2018, 31 percent for 2019, and 33 percent for 2020.

⁶ A Revised Proposed Decision was voted on and approved at the Commission's June 24, 2021 voting meeting, approving 11,500 MWs of generating resources, for which SDG&E must procure 361 MWs. Absent a Decision number, this Decision is referred to as the "IRP Mid Term Procurement Decision."

Analysis assumes the maximum number of allocations or sales contemplated in the VAMO process for any respective scenario. For example, if 40 percent of SDG&E's load departs, the most its portfolio can be reduced through VAMO is by 40 percent.

Pursuant to D.21-06-035, SDG&E must procure at least 31 MWs of clean firm, non-energy storage resources.⁸ SDG&E provides these alternative scenarios in addition to its conforming RNS scenario.

The Commission contemplated the impact that VAMO might have on investor owned utility ("IOU") portfolios, stating in the Portfolio Optimization Decision, "[w]e expect that IOUs should generally be able to procure replacement RPS contracts with lower costs, while acknowledging that replacing resources could still increase costs for bundled ratepayers."⁹

At the same time, the Commission's IRP Order Instituting Rulemaking ("OIR") proceeding, mentioned above, has recently ordered 11,500 MWs of additional generating resources, of which SDG&E is required to procure 361 MWs. While a certain portion of resources in the IRP Mid Term Procurement Decision *can* be met without eligible renewable resources, it is possible SDG&E may procure eligible RPS resources to meet its requirements.

The impacts of the Portfolio Optimization Decision coupled with needs identified in the IRP, justify SDG&E having the option to hold an RPS procurement solicitation in the 2021 cycle. As such, SDG&E is requesting express authority to have the option to hold an RPS procurement solicitation in the 2021 RPS Plan. SDG&E seeks an option rather than a directive to hold a solicitation because, at this point, it remains unclear how, when, and to what extent the determinations in these two major proceedings will affect SDG&E.

Relatedly, as explained in more detail below, in accordance with D.21 05 030, and the direction given by the ALJ's Ruling in this proceeding, ¹⁰ SDG&E is requesting approval to hold a RFI to determine if SDG&E's generating counterparties are interested in a contract modification or contract assignment. Given the many uncertainties, D.22-01-004 authorizes SDG&E's request for the option to hold a procurement solicitation in the 2021 RPS Plan cycle, and in doing so, requires SDG&E to establish a volumetric cap and a capacity cap which considers legislative and commission decisions. SDG&E has established a volumetric cap of and a capacity cap for the 2021 RPS Plan cycle of Supporting information on SDG&E's volumetric and capacity cap can be found in section IV under Determination of the Compliance Needs for Each Compliance Period.

SDG&E's Final 2021 RPS Plan sets forth SDG&E's RPS Request for Information ("RFI"). The RFI process will take several months, and it could also impact SDG&E's RPS compliance forecast by

⁸ D.21-06-035 at p. 57-58. SDG&E's procurement volumes ordered in D.21-06-035 are subject to potential reallocation upon mutual agreement with another LSE and filing of a Tier 2 Advice Letter with the Commission. D-21-06-035 at p.86.

⁹ D.21 05 030 at 19.

¹⁰ ALJ Ruling Email Ruling on timing and process for the IOUs to file and serve portfolio optimization information in their 2021 RPS Procurement Plans per D.21 05 030 (May 26, 2021).

<u>reducing the amount of RPS in SDG&E's portfolio</u>. More information on SDG&E's RFI process can be found in Section IV.

In this PlanRegarding RPS sales, SDG&E also is requesting authorization to: (i) modifyheld a REC sale solicitation in the 2020 RPS Plan cycle, and no bids were selected from the pool of bidders because there were no qualifying bids within the parameters of the REC sales framework approved by the Commission. SDG&E has modified its REC sales framework to allow for more flexibility to increase the likelihood of successfully contracting with one or more counterparties. SDG&E is authorized to hold a REC sales solicitation in the 2021 RPS Plan cycle.

In accordance with D.22-01-004, SDG&E also submits final versions of its short- and long-term procurement PPAs, (ii) modify its-bundled and unbundled pro forma sales contracts, including requesting approval of a proforma contract specific to BioRAM REC sales, and (iii) modify certain portions of its RPS sales framework.

Relief Requested

In sum, this Plan requests that the Commission:

- authorize SDG&E to have an option to hold an RPS procurement solicitation in the 2021 RPS Plan cycle;
- authorize SDG&E to hold a RFI in accordance with D.21-05-030;
- approve of SDG&E's 2021 short and long term procurement PPAs;
- approve of SDG&E's bundled and unbundled sales contracts;
- approve SDG&E's new BioRAM pro forma sales contract; and

approve SDG&E's RPS sales framework.

III. SUMMARY OF RECENT LEGISLATIVE AND/OR REGULATORY CHANGES AFFECTING THIS PLAN

This Plan accounts for recent RPS-related legislation, specifically California SB 350 (2015), SB 100 (2018), and SB 901 (2018), as well as related Commission proceedings, such as the IRP and PCIA OIRs.

SB 350¹¹

SB 350 led to Commission decision D.17-06-026, which implemented RPS procurement requirements. Notably, beginning January 1, 2021, at least 65 percent of a retail seller's RPS procurement must be from long-term contracts. SDG&E elected early compliance with this requirement and was subject to the new requirements beginning in CP 3 (2017-2020). In addition, SB 350 initiated the Commission's new IRP proceeding and associated processes, which is intended to be a wide-scale planning process that SDG&E anticipates will optimize RPS

¹¹ Signed by Governor Brown on October 7, 2015.

planning and procurement within a larger framework. The IRP seeks to implement policies that will achieve the State's greenhouse gas ("GHG") emissions reduction goals while maintaining reliability and affordability. The IRP process will inherently impact RPS procurement planning because resources planned for in the IRP may also count towards RPS compliance requirements. For example, the IRP has ordered 11,500 MWs of resource procurement and required that certain resources have attributes that only an RPS resource can provide, like geothermal. SDG&E has incorporated RPS resources expected to be procured through the IRP in its RNS alternative scenarios. This new process is a marked shift away from the historical siloed approach to procurement, in which resource procurement mandates are imposed individually on a program-by-program basis, without regard to the consideration of other potential forms of supply and/or demand-side procurement. The holistic process built into the IRP processes will evaluate the costs and benefits of all available resources when developing portfolios that comply with renewable and clean energy standards.

SB 100¹²

SB 100 increased the State's RPS requirement to 44 percent by 2024, 52 percent by 2027, and 60 percent by 2030. SB 100 also calls for the State's RPS requirement to be 100 percent clean energy by 2045. D.19-06-023 implemented these new requirements for the RPS program. On March 15, 2021, the California Energy Commission ("CEC"), Commission, and California Air Resources Board ("CARB"), (together, the "Joint Agencies") issued a report on SB 100 which indicated it is directional only and intended to inform and complement ongoing analysis within the Joint Agencies.¹³ SDG&E understands that additional details and implementation of SB 100 are forthcoming.

SB 901¹⁴

SB 901 requires that retail sellers offer a 5-year extension to any contracts executed under the <u>Bioenergy Renewable Auction Mechanism ("BioRAM"</u> program. As further discussed below in Section IV, SDG&E offered and the BioRAM seller accepted a 5-year extension for SDG&E's single BioRAM contract, which was approved by the Commission.¹⁵ Accordingly, SDG&E has fulfilled its BioRAM obligation. <u>RECs from BioRAM facilities have no impact on SDG&E's Procurement planning as SDG&E is prohibited from using RECs from BioRAM facilities for compliance.¹⁶</u>

AB 1088

¹² Signed by Governor Brown on September 10, 2018.

¹³ SB 100 Joint Agencies Report issued March 15, 2021, available here: <u>https://efiling.energy.ca.gov/EFiling/GetFile.aspx?tn=237167&DocumentContentId=70349</u>.

¹⁴ Signed by Governor Brown on September 21, 2018.

¹⁵ Advice Letter 3356-E and 3356-E-A approved on July 24, 2019.

¹⁶ D.18-12-003, OP 3.

Commodity Procurement Legislation

SDG&E continues to support legislation that would allow an <u>Investor-Owned Utility ("</u>IOU") to voluntarily exit the commodity procurement business. <u>AB 1088 (Mayes) proposes a framework</u> that would help facilitate such a transition. As energy procurement shifts increasingly away from traditional IOU procurement and becomes increasingly decentralized, SDG&E seeks to serve its customers through a business model that focusses on the safe and reliable transmission and distribution of energy to its customers.

Integrated Resource Planning Proceeding

Clean energy goals are considered and addressed in the IRP proceeding. In the 2019-2020 cycle of the IRP, the Commission issued D.19-11-016 which ordered load-serving entities ("LSEs") to procure 3,300 MWs of new capacity to alleviate a reliability need. The most recent IRP Mid-Term Procurement Decision may alsoMTR procurement order will result in the procurement of additional RPS eligible resources. Furthermore, the Commission may order procurement when it issues the preferred system plan, which isSDG&E includes volumes from expected RPS eligible IRP procurement in quarter four of 2021. its alternative RNS scenarios. SDG&E remains focused on effective cost and risk management and utilizing the holistic approach in evaluating how resource needs are met. SDG&E will continue to include impacts of the IRP in its RPS procurement planning.

Power Charge Indifference Adjustment

Carrying out the mandates of D.21-05-030 will greatly impact SDG&E's portfolio. According to this Decision, SDG&E and other IOUs must allocate RPS resources to <u>CCACommunity Choice</u> <u>Aggregators ("CCAs")</u> and Direct Access ("DA") customers and attempt to further optimize IOU portfolios through an RFI process. As noted above, SDG&E has included in this Draft Plan alternative RNS scenarios to determine potential impacts to SDG&E's RPS portfolio. The Joint IOUs submitted AL 3835-E which set forth the methodology to "slice" the IOUs' RPS portfolios, which was approved on October 25, 2021. Once CCAs and ESPs make their voluntary allocations, the RFI process is complete, and a market offer process has been established, SDG&E will then have more certainty with regard to is RPS trajectory.

As noted above, SDG&E has included in this Final 2021 RPS Plan alternative RNS scenarios to determine potential impacts to SDG&E's RPS portfolio.

ReMAT

The Commission approved the reopening of SDG&E's Renewable Market Adjusting Tariff ("ReMAT") program which required additional RPS procurement. According to D.21-12-032, SDG&E must procure an additional 20.9 MWs of ReMAT eligible procurement. Any procurement that occurs in the ReMAT program, once it is re-opened in late 2022, will count towards SDG&E's RPS compliance needs or can be banked. It is unknown whether the ReMAT program will be successful in SDG&E's service territory, thus SDG&E has not included RPS from ReMAT facilities in its alterative RNS scenarios but may consider doing so once the program is open.

IV. ASSESSMENT OF RPS PORTFOLIO SUPPLY AND DEMAND

A. Overview of Portfolio Supply & Demand Assessments

SDG&E makes RPS procurement decisions based on how its risk-adjusted RPS position forecast (referred to herein as its "RPS Position") compares to its RPS program compliance requirements, the result of which is its probability-weighted procurement need or RNS. To calculate its RPS Position, SDG&E conducts a qualitative and quantitative assessment and assigns a probability of success to the expected deliveries for each project that is not yet online in its portfolio; and then it adds the risk-adjusted expected deliveries across all projects in its entire RPS portfolio. These risks include approval (e.g., Commission approval and the timing of such), development (e.g., permitting, financing, or transmission interconnection), delivery (e.g., generation fluctuations given the variant-intermittent nature of some renewable resources or operational challenges), and other factors (e.g., under-development of transmission infrastructure common to a group of projects). SDG&E then subtracts the quantity of RECs committed in forward sales agreements, if any, from the total expected generation to determine its RNS.

In general, if SDG&E's RPS Position is less than its RPS requirements, SDG&E will plan to procure additional RPS resources on a schedule that will allow for the procurement and development of resources in time to provide adequate deliveries to meet anticipated shortfalls. SDG&E's assessment also includes current and expected load departure. If, on the other hand, its RPS Position is greater than its RPS requirements, SDG&E will consider opportunities to bank or sell bundled and/or unbundled RECs. In addition, to optimize the relative value of renewable energy across compliance periods, SDG&E further considers short-term contracts when, for example, it is short¹⁷ in the most immediate CP but long in the subsequent CP. Overall, SDG&E will also consider procurement strategies that are in the best interest of customers across compliance periods to secure greater value from approved RPS expenditures. For example, SDG&E strives to have a well-diversified RPS portfolio so that its RPS compliance, particularly in the most immediate compliance period, is not unduly exposed to any given risk (e.g., a particular technology, region, counterparty, etc.). SDG&E's RPS portfolio management strategy involves identifying needs and risks and managing them in a cost-effective manner in the best interest of its customers.

The following sections explain SDG&E's methodology for determining its RNS, which includes considerations related to RPS supply and customer demand. First, the process used to compute

¹⁷ The term "short" is used herein to refer to an RPS Position that is lower than the relevant RPS program requirements. The term "long" is used to refer to an RPS Position that is higher than relevant RPS program requirements.

the RPS Position is explained. Then, procurement needs by compliance periods are inferred by comparing RPS requirements to RPS Positions.

SUPPLY

Assessment of Probability of Success for Various Project Types as a Key Component of Calculating the Probability-Weighted RPS Position Forecast

SDG&E must assess the probability of success and/or expected generation of the following main types of projects: (a) delivering; (b) approved but not yet delivering; and (c) not yet approved. SDG&E frequently evaluates the probability of success for each project in its portfolio to calculate its RNS, which is the basis for its procurement need. To do this, SDG&E conducts frequent reviews with an interdisciplinary team and uses the most up-to-date qualitative and quantitative information to assign a probability of success and/or determine the expected generation of each individual project. SDG&E applies the following methodology to analyze each project type:

Assessment of Performance of Delivering Projects: Projects that have already achieved commercial operation and have begun delivering energy provide the most stable source of RPS deliveries when forecasting RPS procurement need. These projects have overcome development hurdles and are supported by steady revenues under executed PPAs. However, it is crucial to consider the potential fluctuations in deliveries that these projects can experience and the impact that such fluctuations could have on SDG&E's need to procure additional resources to meet its RPS goals.¹⁸ As discussed further in Section VII, deliveries from these projects can be impacted by resource availability, regulatory changes, economic environment, evolving technologies, and third-party systems. These types of fluctuations can be significant. To ensure RPS compliance, SDG&E must consider potential fluctuations in the amount delivered (while recognizing that swings in production could be more than expected). The monitoring of performance of delivering contracts and the assessment of probabilities focuses on: (i) understanding the historical generation profile of each project and how it has differed year-over-year and relative to forecasts; and (ii) the operational track record of any given project. SDG&E has found that a weighting of 100 percent is typically appropriate for delivering contracts. The forecast of future deliveries for delivering contracts is based on historical deliveries (the average of

¹⁸ For example, contracts with solar photovoltaic ("PV") developers incorporate a degradation factor that is used to forecast the project's performance over time as the panels age and become less efficient. SDG&E utilizes this factor in its Least-Cost Best-Fit ("LCBF") evaluation, and when calculating project deliveries for its RPS Position calculation on both a nominal (assumes deliveries from contracts will occur as expected) and probability-weighted basis. To the extent deliveries are different than the provided estimates, SDG&E will adjust its RPS Position calculation accordingly.

the most recent three years, if available; if not available, the project's expected generation is used), which SDG&E will revise as appropriate. Adjusting forecasts when necessary is a crucial component of SDG&E's need assessment methodology.

Assessment of the Development Progress of Approved Projects that Have Not Yet Begun Delivering: Another important aspect of SDG&E's need assessment methodology is evaluating the development status of projects approved by the Commission but not yet delivering energy. These projects are typically riskier than projects that have begun delivering due to the challenges that can arise during the development process that might prevent a project from completing construction and achieving commercial operation. Permitting, interconnection, regulatory factors, and other development risks when determining its procurement need, and the monitoring of development status is a critical aspect of SDG&E's need assessment methodology. As with delivering contracts,Because SDG&E has a substantial REC bank, there is very little risk that any particular project failure will impact SDG&E's ability to meet its compliance obligations. SDG&E assigns a probability of success to each of its developing projects. This factor is then applied to the expected deliveries stated in the contracts.

Assessment of the Approval Queue for Projects that Have Been Submitted to the Commission But Are Not Yet Approved: SDG&E typically meets monthly with its Procurement Review Group ("PRG"), which includes Energy Division staff, to discuss, among other things, the likely approval timetable of projects that SDG&E has submitted to the Commission for approval. The discussion covers expected timing of Commission action and any potential constraints that might necessitate expedited Commission action or require additional information. SDG&E works collaboratively with the Commission to develop a work plan that results in timely approval. It is possible, however, that the shortage of Energy Division staff or other procedural challenges can result in approval delays that can impact a project's ability to achieve milestones. SDG&E must monitor this process closely to determine what impact, if any, delays may have on the timing of expected deliveries or sales.

Project Viability Supply Considerations

Renewable project developers continue to face a challenging environment. For example, studying and constructing generator interconnection upgrades continue to take years to complete and can significantly influence project costs. In addition, as more projects are proposed, especially in desert regions, permitting approval timelines may extend due to increased scrutiny of environmental issues and permitting agency coordination efforts. SDG&E closely monitors project viability factors, and any effects they may have on its portfolio.

Impact of Key Transmission Upgrades and/or Infrastructure: Transmission availability has long been recognized as a potential barrier to achieving RPS goals, and SDG&E continues to monitor the progress of transmission upgrades on which SDG&E's RPS projects depend in order to assess potential delays and possible impacts. A more detailed discussion of transmission is provided under Section VI.

Impact of Permitting Delays: Many projects have experienced local agency permitting delays. Delays occur when projects are challenged by individuals and community groups; delays may also occur due to meeting California Environmental Quality Act ("CEQA") requirements. These challenges can result in increased costs to the developer and significant project delays that can jeopardize project viability and potentially lead to project failure. A more detailed discussion of permitting is provided under Section VI.

Existing RPS Contracts Supply Considerations

The contracts within SDG&E's portfolio may be renewed at existing price terms, renegotiated via "blend and extend,"¹⁹ assigned or novated, or terminated (with or without buyout); additionally, SDG&E may solicit to re-sell bundled or unbundled REC attributes from its portfolio. D.21-05-030 will have a significant impact on SDG&E's RPS portfolio as it requires SDG&E to allocate a portion of its RPS portfolio to departed customers. The factors considered in each of these potential scenarios are described below.

Impact of VAMO: The Portfolio Optimization Decision requires the IOUs to allocate portions of its RPS portfolio to departed customers. In particular, LSEs serving departed customers are allowed to elect allocations in 10 percent increments, thereby reducing each IOU's RPS Position. A market offer process will follow allocation elections, if excess RPS exists. Pursuant to the timeline established in D.21-05-030, the elected volume of RPS resources by LSEs serving departed customers will be known in 2022, and SDG&E will include a request for approval of those allocations in its 2022 Draft RPS Plan, which is expected to be filed approximately on June 1, 2022. If LSEs for departing customers do not elect their full allocations, SDG&E will offer any excess to the market. Transactions associated with the VAMO will impact SDG&E's RPS Portfolio by reducing SDG&E's RPS Position. SDG&E has included alternative scenarios, attached hereto as Appendices 1b, 1c, and 1d, to illustrate the potential impacts to SDG&E's RPS portfolio when retail sales and its PCIA eligible RPS portfolio are

¹⁹ Renegotiation via "blend and extend" refers to an agreement made by parties to extend a contract at a price lower than the original contract pricing terms, commencing at the time the contract is renegotiated or at the end of the original delivery term of the contract.

reduced by 40 percent, 50 percent, and 60 percent, respectively-, and also impacts from the IRP MTR procurement Order.

Impact of Contract Renewal or Renegotiation: SDG&E began signing RPS contracts in 2003, most of which had terms of 20 years. As part of its RPS Position calculation, and in accordance with Commission direction, ²⁰ SDG&E does not assume in its RNS calculation that these contracts will be renewed with existing pricing terms. Owners of these projects may be asked to bid such projects into future Request for Offers ("RFO"), if there is an RPS need, and these bids will be required to conform with the need identified in the then-current RFO.²¹ The benefits of this process are twofold: competition will be enhanced. and these facilities will have the opportunity to bid to extend their contracts past the original termination dates into later years, if and when SDG&E has a need. SDG&E continues to reassess its position to determine if contract renewal could add value to SDG&E's portfolio. Additionally, SDG&E may also re-negotiate outside of an RFO process to blend and extend a contract at a new competitive price than the original delivery term, which may result in reduced administrative costs for the RFO process as well as preserve the long-term classification of the original agreement, if a procurement need is less than ten years.

Impact of Contract Termination: As part of its contract administration process, SDG&E actively monitors contractual requirements including conditions precedent and project development terms that must be met (or waived) in order for the contract to be viable. When a condition precedent or development milestone has not been met, or when parties can mutually agree to a termination, SDG&E may consider terminating the contract, if it is in the best interest of customers. Contract termination could also include instances where parties could agree to terminate a contract with a buyout option. Contracts may also terminate in accordance with their terms (*i.e.*, events of default).

Impact of the Resale Market: SDG&E will closely monitor opportunities to optimize the value of its portfolio, including opportunities to sell excess procurement, if excess procurement exists, or to use such excess towards future compliance if SDG&E determines this to be the best option for its customers. If SDG&E believes that the current market is favorable and expects that it will be able to fulfill any future needs with more economic options, SDG&E will first

²⁰ R.11-05-005; Administrative Law Judge's Ruling on Renewable Net Short (May 21, 2014).

²¹ Qualifying Facilities with expiring RPS contracts may be able to sign a Standard Contract for Qualifying Facilities with a Power Rating that is Less than or Equal to 20 MW, which was approved by the Commission on November 23, 2011 as part of the Qualifying Facilities and Combined Heat and Power Program Settlement (the "QF Settlement").

consider offering to solicit the excess to determine market interested. More detail is provided below and in Appendix 9, attached hereto.

DEMAND

RPS compliance is based on an energy target (as opposed to a capacity target) and is calculated using a percentage of retail sales. Various factors (e.g., departing load) impact retail sales, and these factors are reflected in the forecast. SDG&E's most recent retail sales forecast is provided within the RNS table in Appendix 1-and is used in the alternative RNS scenarios.

Impact of CEC Forecast: In accordance with Commission guidance, SDG&E uses the latest CEC forecast consistent with the standardized planning assumptions authorized in D.12-01-033 as a component in SDG&E's RNS. To determine its retail sales, SDG&E has modified the most recently approved Integrated Energy Policy Report ("IEPR") forecast to reflect departing load changes not included in the IEPR forecast issued on January 25, 2021. SDG&E monitors its retail sales forecasts and actuals on a quarterly basis to identify potential fluctuations and their impact on its RPS requirements.

Impact of Transportation Electrification: The sales forecast that supports SDG&E's RPS filing is the CEC's 2020 IEPR demand forecast, also known as California Energy Demand Update ("CEDU") 2020, adopted by the CEC Commissioners at the CEC's January 25, 2021 business meeting. For RPS purposes, SDG&E used the CEC's 2020 IEPR Mid-Demand base-line forecast, with mid-case Additional Achievable Energy Efficiency ("AAEE") and Additional Achievable Photovoltaics ("AAPV") as the basis. SDG&E reformatted the forecast to partition it into sales to bundled customers and sales to DA and CCA customers. SDG&E also incorporated updated DA and CCA customer enrollment schedules that became available after CEC adopted the IEPR. The CEC's SDG&E's forecast accounts for electric vehicle ("EV") charging within the Mid-Demand base-line segment of the scenario, adjusted to better reflect EV adoption in SDG&E's service territory as compared to the CEC forecast. SDG&E's RPS assumes EV charging to be the same as presented in the CEC's 2020 IEPR Mid Demand base line forecast. SDG&E's RPS forecast includes approximately 300,000 light-duty EVs and approximately 8,000 medium and heavy duty EVs in SDG&E's service territory by 2030. The impact of adding more EVs is that retail sales will increase to account for more EV charging, thus more RPS energy will be needed to meet the compliance requirement. A description of the modeling

approach and input assumptions made regarding forecasting EV charging can be found in three CEC publications that document CEDU 2020.²²

Impact of Departing Load: Load departure will reduce SDG&E's volume of retail sales, thereby impacting its RPS Position in comparison to its RPS requirements. The Commission authorized SDG&E to have an option to hold a procurement solicitation to maintain a reasonable RPS forecast in light of these impacts. Currently, there are two CCAs in SDG&E service territory, San Diego Community Power and the Clean Energy Alliance. These CCAs represent significant future load departure, and SDG&E is actively working with the CCAs and the Commission to optimize its RPS portfolio as a result of load departure and CPUC requirements.

D.21-05-030 will impact the size of SDG&E's RPS portfolio as RPS volumes will be voluntarily allocated to departed customers, offered to the market for sale, and/or contracts may be assigned, modified or terminated as a result of D.21-05-030's RFI.²³ Delivery of allocated RPS volumes associated with the Portfolio Optimization Decision are expected to begin in 2023. As mentioned in Section II, the Executive Summary, the The Commission "expect[s] that IOUs should generally be able to procure replacement RPS contracts with lower costs, while acknowledging that replacing resources could still increase costs for bundled ratepayers."²⁴ As such, SDG&E is requesting the authority to hold an RPS solicitation in the 2021 RPS Plan cycle, as needed.

DA expansion is another circumstance that could result in departed load. In 2019, D.19-05-043 increased the DA cap and, as a result, increased the amount of departing load from bundled IOU service. SDG&E's share of the authorized cap was around 380 GWh.²⁵ At the Commission's June 24, 2021 voting meeting, Commissioners unanimously adopted a decision that closes the DA rulemaking proceeding and recommends that the California Legislature not expand DA transactions, pursuant to Senate Bill 237.

It is also possible that customers who departed SDG&E's bundled service may return at some point. <u>If this occurs, SDG&E may need additional RPS to</u> <u>accommodate those returning customers.</u> SDG&E will monitor this situation as well as it can mitigate any disruptions or unexpected surprises.

²² <u>https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2020-integrated-energy-policy-report-update.</u>

²³ D.21-05-030 at 65-66 (Ordering Paragraph 6).

²⁴ D.21-05-030 at 19.

²⁵ D.19-05-043 at 6.

Determination of the Compliance Needs for Each Compliance Period

SDG&E achieved 39 percent renewable energy in 2019 and in 2020. All of SDG&E's renewable contracts are long term. SDG&E and expects that it has already met its CP 3 RPS procurement requirements, and. As SDG&E looks ahead to CP 4 and beyond, it will continue to manage its portfolio to ensure RPS compliance in future compliance periods. After probabilities. At this time, all of SDG&E's online renewable contracts are long-term. SDG&E has two developing projects which are assigned to eachnear completion and the risk of project, failure is low. SDG&E's RNS is calculated by multiplying the expected contractual deliveries (including degradation) by each contract's probability weighting and then adding the resulting expected deliveries across the portfolio.

The Portfolio Optimization Decision will have a significant impact on SDG&E's RPS portfolio. Based on SDG&E's alternative scenarios, it is anticipated SDG&E anticipates that SDG&E's its portfolio may be short RPS in the near future. Based on this conclusion, and considering procurement orders in

SDG&E has established a volumetric cap of the IRP proceeding, the most reasonable course of action, at this time, is to have the option to solicit for amount of new eligible renewable resources via an RPS-specificit may procure if it exercises its option to hold a solicitation. To determine SDG&E's volumetric cap, SDG&E used the 50% load departure scenario available in Appendix 1c. SDG&E reduced its PCIA-eligible RPS portfolio by 100% of the volumes subject to a voluntary allocation and market offer, including grandfathered PCC 0 RECs. SDG&E increased its portfolio in 2026 to include RPS-eligible procurement from the 2021IRP's MTR procurement cycle.order. SDG&E did not include potential procurement from the ReMAT program because it is unknown whether and when ReMAT facilities will reach commercial operation, if procured. SDG&E uses its to determine the volumetric cap of To achieve this cap, SDG&E would need to procure of RPS assuming a

capacity factor of 34%, which is the weighted average capacity factor of SDG&E's current RPS portfolio.

SDG&E notes that it continues to procure renewable energy projects under Commissionmandated procurement programs, and other procurement authorizations, for example, procurement mandates within the IRP. These initiatives may result in additional renewable energy procurement in the future. If SDG&E's request for an option to hold an RPS solicitation is denied for the 2021 RPS Plan cycle, SDG&E may seek permission from the Commission to bilaterally procure additional RPS amounts, if necessary, other than amounts separately mandated by the Commission, during the 2021 RPS Plan cycle through a Tier 3 Advice Letter ("AL") filing. For example, the Commission requires clean, firm, non-energy storage resources to be procured by 2026. Geothermal, an RPS-eligible resource, is identified in the MTR procurement order as a resource that fits these characteristics; thus, SDG&E includes assumptions on RECs from potential geothermal resources in Appendices 1b, 1c, and 1d.

SDG&E may also seek short-term optimization opportunities, which may include the sale of RPS products via bilateral sales agreements and/or a request for proposals ("RFP"). These opportunities are driven by impacts of departing load on SDG&E's RPS Position and by the market.²⁶ To the extent SDG&E determines that an RFP is appropriate, it will seek to issue the RFP attached hereto as Appendix 9. SDG&E continuously monitors its portfolio to determine if a buy or sales RFO or RFP is needed.

Current & Future Compliance Period Needs

Based on SDG&E's current RPS generation forecast, SDG&E anticipates meeting its RPS requirements for each CP through 2030 with its portion of the RPS portfolio after impacts of the Portfolio Optimization Decision are considered and by procuring new renewable resources through a competitive solicitation or bilaterally, as needed. All of SDG&E's remainingSDG&E has two developing contracts that have a low risk of project failure, and all of SDG&E's online renewable contracts are long-term, thus, SDG&E is not at risk of noncompliance with SB 350's 65 percent long-term contracting requirement. Additional short-term renewable resources may be procured.

It is important to note that this outlook is based on current available data and incorporated assumptions regarding SDG&E's RPS portfolio. The volume of any new purchases required for current and future compliance periods will be a function of portfolio performance and will be subject to the level of RPS banking, if any. SDG&E intends to fill any remaining RPS need with viable low-cost opportunities from future solicitations, bilateral transactions, and potential investments, and will continue to procure for mandated programs, to the extent required. SDG&E continues to advocate for no incremental mandated RPS program procurement; and if mandated procurement is needed, it should not apply only to IOUs but all LSEs, based on need, through the IRP process.

SDG&E intends to manage any potential over-procurement that is created by departing load by banking it for future compliance needs, terminating contracts where conditions precedent or other contractual obligations are not met or where mutual agreement is reached, selling such excess procurement, or transferring the obligation to a new party as permitted by the contract.

²⁶ SDG&E may also be required to sell certain resources (*i.e.*, as per D.18-12-003).

SDG&E may undertake additional procurement to ensure RPS compliance, with the understanding that any resulting excess can be either banked or sold bilaterally or through an RFP. Additional discussion regarding the analysis of selling versus banking can be found below in Section IV.1.

Utility Tax Equity Investment and Utility Ownership Opportunities

SDG&E's participation as a tax equity investor or utility owner in renewable generation and/or associated transmission projects may enhance project viability (through securing of financing) and may decrease costs for customers (given SDG&E's cost of capital relative to the renewable financing market). SDG&E may consider additional investment opportunities where: (a) its involvement might enhance the viability or cost competitiveness of a project; and/or (b) where a project may have a positive socioeconomic impact, potentially involving a Diverse Business Enterprise ("DBE").

Additionally, SDG&E has undertaken the construction of renewable energy facilities, for example under the Solar Energy Project program. SDG&E completed this program with the commercial operation of the 4.32 MW Ramona Solar Project on April 21, 2017.²⁷

1. Portfolio Optimization

The first step in SDG&E's portfolio optimization strategy is to determine its RPS need. As outlined above, the probability of success and/or the expected generation of each of the projects in SDG&E's portfolio is frequently reviewed and revised using the most current information. The result of this comprehensive review is a calculation of SDG&E's forecasted RPS Position, which is then compared with SDG&E's RPS compliance requirements to determine its RNS. SDG&E uses this RNS to determine the appropriate level of procurement, including the necessary margin of over-procurement (if any), going forward. Generally, if SDG&E were to foresee a shortfall, it would then procure additional resources; if it were to foresee an excess, then it may pursue sales, or other right-sizing activities. Regulatory directives in the Portfolio Optimization Decision will impact SDG&E's RPS percent if SDG&E's retail sales, and PCIA eligible

²⁷ Approved by D.10-09-016. SDG&E was authorized to build up to 26 MWs of distributed utilityowned solar PV at a cost cap of \$3.50/W(dc). SDG&E held an RFP in the Fall of 2011 and executed a contract for up to a total of 17 MW at eight sites owned by SDG&E. To stay under the cost cap, the number of projects were subsequently reduced due to permitting, site, and contractor issues. SDG&E held another RFP in the Spring of 2015, and no contracts were executed as a result of the RFP.

RPS portfolio are respectively reduced by 40 percent, 50 percent and 60 percent.²⁸ <u>SDG&E also</u> <u>incorporated procurement directed by the Commission in the IRP that will be RPS eligible, and</u> <u>so that procurement will be also reflected in SDG&E's RPS portfolio.</u>

Cost Optimization

Cost optimization begins before a contract is executed, with contract analysis methodology development and adoption. Once this analysis methodology is utilized and a contract is executed, if an opportunity to optimize this contract becomes apparent, SDG&E will investigate it to determine the best course of action for its customers.

Least-Cost Best-Fit ("LCBF") Analysis: SDG&E carefully analyzes bids and bilateral proposals according to its LCBF methodology. This methodology is intended to optimize SDG&E's procurement decisions by minimizing cost and maximizing value. The LCBF process results in the quantification and subsequent ranking of the costs and benefits of each bid based on these metrics. It includes analysis of the PPA price, which inherently includes the counterparty's interest, carrying, and transaction costs. The analysis also takes into account the energy, green attributes, and capacity value provided by each of the projects, as well as congestion costs and transmission costs. The formula deducts the PPA Price ("Levelized Contract Cost"), transmission cost, Renewable Integration Cost Adder ("RICA"), and congestion cost from the sum of the energy, green attributes, and capacity benefits to determine a project's Net Market Value ("NMV"). These NMVs can then be compared and used to create a quantitative ranking. SDG&E then evaluates any identifiable qualitative aspects, such as project location (whether in a Disadvantaged Communities ("DAC")), project viability, developer experience, and portfolio fit to determine the shortlist. The projects that are placed on the shortlist will have the highest value to customers and best portfolio fit when compared with other bids from the particular solicitation. SDG&E revises its LCBF methodology as necessary to incorporate new information and will continue to do so in accordance with any future Commission decision on LCBF. See Section X and Appendix 8 for additional details on LCBF.

Banking vs. Sales Analysis: Another optimization tool related to contract management is the analysis of the option to bank or sell excess procurement. When SDG&E forecasts excess RPS procurement in its portfolio, it will perform an analysis of both the short-term and long-term quantitative and qualitative

²⁸ Pursuant to D.21-05-030 OP 7, the methodology to determine departing load customers' voluntary allocation will be undertaken, thus SDG&E's RNS Scenario is based on allocating or selling down to example percentages of PCIA eligible load share.

costs and benefits associated with the RECs to determine next steps. In the past, analysis was performed to determine whether to bank or sell the excess; however, given the issuance of the Portfolio Optimization Decision, SDG&E's portfolio will be allocated by vintaged, forecasted annual load share, with the remainder that is not accepted in allocations offered for sale to the market. If there continues to be excess in its RPS portfolio, SDG&E may bank the excess for future use. The quantitative portion of the valuation includes consideration of SDG&E's RPS Position, the time value of revenues from the potential REC sale, and the potential replacement cost. The qualitative portion includes consideration of the impact on market liquidity and SDG&E's RPS Position. For more information regarding SDG&E's Sales Framework, please see Appendix 13.

Retirement Analysis: There is a significant link between SDG&E's banking versus sales analysis and its retirement analysis where SDG&E evaluates its compliance position and strategy to ensure that RECs are handled in the most cost-effective way in both the short-term and the long-term for SDG&E's customers. SDG&E's retirement decisions include consideration of its RPS Position and the 36-month shelf-life of the RECs. RECs can be retired and used for compliance purposes within 36 months of the REC's issuance, and any RECs in excess of the CP's required targets can be banked and will not expire. Once a REC is banked, it can be used for compliance purposes at SDG&E's discretion. SDG&E also considers the time value of the impact of potential revenues or additional RPS procurement on rates for bundled customers when making the decision to buy, sell, bank, or retire RECs.

Value Optimization

In addition to its contract analysis and management strategies, SDG&E also seeks to add value to the RPS procurement process by participating in stakeholder processes related to current and proposed procurement programs, and by evaluating unique procurement opportunities.

Program Design: SDG&E actively participates in discussions regarding the initial design and future of renewable procurement programs via comments and workshops. SDG&E's goal is to provide recommendations that contain costs and protect customers. Examples of these efforts are SDG&E's contribution to the BioMAT and BioRAM program design process, as well as its recommendations regarding the future of the RAM program. As explained under Section XV, SDG&E anticipates the IRP process signifies a shift away from individual, separate programs and processes, towards a holistic planning and procurement process.

Utility Involvement: SDG&E evaluates both tax equity and utility ownership opportunities as procurement options and assesses the value of its involvement. SDG&E may participate in these types of projects if its participation would either

augment the probability of project success or cost competitiveness of a project, and/or lead to a positive socioeconomic impact, for example involving a DBE.

Bilateral Transactions: SDG&E will enter into bilateral purchase or sales agreements, if necessary, to the extent that these transactions benefit customers. Not all products are well-suited for the RFO process due to, for example, deal timing and/or complexity. The ability to contract bilaterally is a potentially valuable tool in maximizing value to customers. For example, it could be useful in addressing an unforeseen need in an expedited manner, as compared to the additional timing required for a solicitation. It also allows an IOU to take advantage of opportunities that are too complex to solicit through an RFO, such as tax equity, utility ownership, or buy/sell transactions. In addition, the ability to engage in bilateral deals is necessary from a practical perspective: bilateral deals assist market development by offering an additional sales option, making project development less dependent on RPS solicitation cycles. SDG&E will request approval of bilateral purchases and sales through a Tier 3 Advice Letter filing.

Risk Optimization

SDG&E optimizes risk through several long-term and short-term mitigation strategies. SDG&E also seeks to add value by actively participating in discussions regarding compliance and enforcement rules.

Minimum Margin of Procurement: A long-term procurement strategy utilized by SDG&E is the establishment of an Minimum Margin of Procurement ("MMoP") consistent with Cal. Pub. Util. Code § 399.13(a)(4)(D). The MMoP is designed to mitigate the risk that renewable projects planned or under contract are delayed or canceled. <u>SDG&E currently has two projects under development</u> <u>and has adjusted its RNS consistent with SDG&E's MMoP strategy</u>. SDG&E's MMoP is intended to ensure, to the extent possible, that SDG&E is able to reach its RPS goals, as explained in more detail below under Section IX, which describes how SDG&E's MMoP is incorporated into the RNS formula. Generally, SDG&E applies a failure rate which is a probability weighted deviation below expected forecast generation, and it is based upon but not limited to probability assessments of project failure, project capacity reduction, operational failure after project success, project curtailment due to transmission constraints, etc.²⁹ Risk-adjusted RECs from RPS facilities in development will be added to the total RPS eligible procurement which is captured in SDG&E's RNS, Appendix 1. Total RPS eligible procurement will be compared to the gross RPS procurement quantity requirement to determine if additional procurement is required. Project development can present challenges that must be accounted for when determining a need. In combination with the constant fluctuation of RPS targets (based on retail sales) and continual changes in RPS deliveries, it is essentially impossible to meet the RPS targets exactly. SDG&E undertakes conservative MMoP procurement as a prudent measure to guard against any unforeseen events that may impact its portfolio and jeopardize compliance.

Short-term Contracts: Due to unforeseen circumstances, a situation may occur in which SDG&E needs to procure a small amount of renewable energy in the near-term. In this scenario, short-term contracting is a viable strategy, as it allows SDG&E to respond quickly to a sudden change in portfolio status and manage a short-term need without entering an unnecessary long-term commitment.

Category 3 Procurement: SDG&E may consider Category 3 procurement to the extent that such products are shown to be cost-effective and a need for additional RPS procurement becomes evident. However, SDG&E plans to maintain enough room below its Category 3 procurement limits so that Category 3 procurement is a potential strategy in the short-term, should SDG&E need to fill any unforeseen immediate need.

Status of Decision for PCIA Portfolio Optimization: Per the Portfolio Optimization Decision, IOUs shall "propose a Request for Information for Contract Assignments and Contract Modifications in the Renewables Portfolio Standard proceeding in 2021 and 2022, and shall each confirm Voluntary Allocations and propose Market Offers in their 2022 RPS Plans for deliveries in 2023."³⁰ SDG&E has commenced its RFI consistent with the schedule included in this Final 2021 RPS Plan. The Joint IOUs filed a motion to amend to scope of the RPS proceeding to consider the timing of voluntary allocations in support of REC deliveries that begin in January 2023.³¹ SDG&E also supports adjusting the timing of the market offer proposal that allow for REC deliveries beginning in January 2023.

²⁹ SDG&E does not include an additional adjustment to its forecasted REC deliveries through a Voluntary Margin of Procurement ("VMoP"), which is optional, and not required by statute as is the MMoP.

³⁰ D.21-05-030 at 65-66 (Ordering Paragraph 6).

³¹ Joint IOU Motion to Amend the RPS scoping memorandum to accommodate the VAMO process dated December 8, 2021.

SDG&E has included alternative RNS scenarios to determine its RPS need, if its retail sales and PCIA eligible RPS portfolio are reduced by 40 percent, 50 percent, and 60 percent respectively. SDG&E also includes impacts from the IRP MTR procurement order. See Appendices 1b, 1c, and 1d.

SDG&E will update subsequent RPS Plans with details on departing load allocation amounts, but in the meantime, SDG&E may need to hold an RPS procurement solicitation in the 2021 RPS Plan cycle due to the impacts of the PCIA Portfolio Optimization Decision and <u>any RPS</u> needs identified in the IRP. <u>The Commission granted this authority in D.22-01-004</u>.

2. PCIA Coordination and RFI Plan (Per D.21-05-030)

In accordance with ALJs Lakhanpal's and Sisto's guidance provided on May 26, 2021 regarding the IOUs' 2021 Draft RPS Plans, SDG&E provides the following information regarding its plans for the prescribed RFI for Contract Assignments and Contract Modifications to reduce excess and/or uneconomic resources in their RPS portfolios in accordance with OP 6 of D.21-05-030. SDG&E will hold the RFI process with its RPS supply contract counterparties to determine interest.

1) How do you plan to gather interest in contract modification?

SDG&E will review its portfolio of PCIA-eligible RPS PPAs to determine which may be eligible for contract modifications and contract assignments. The review will exclude PPAs procured for specific mandates, such as the BioRAM and Green Tariff Shared Renewables programs, and it will be limited in the scope as it relates to other mandated programs, due to the non-modifiable requirements of certain PPAs, such as RAM, Renewable Market Adjusting Tariff ("ReMAT") and BioMAT PPAs. Once the target PPAs are determined, SDG&E will develop specific outreach material to be communicated to these counterparties.

2) How do you plan to reach out to contract counterparties? Please explain your process for outreach.

Once a list of eligible contracts is developed, SDG&E will formally notify the counterparties pursuant to applicable PPA terms with the outreach materials that are developed, including reference to the Portfolio Optimization Decision and explain the intent of the RFI, and request meetings with the counterparties individually to discuss in more detail. SDG&E will include an independent evaluator in the entire RFI process, including all communication with counterparties.

3) How many counterparties do you plan to target to gather information?

The number of PPA counterparties that SDG&E will target in this process is not known at this time. As discussed above, SDG&E will develop a comprehensive list of its RPS PPAs eligible for contract modification and/or assignment and will request information from these counterparties regarding their interest in participating in further modification discussions.

4) Provide a detailed schedule of your planned activities. For example, when you will commence outreach to counterparties, your milestone goals.

| Date | Planned Activities/Milestones | | | |
|--------------------|---|--|--|--|
| Q4 2021 | SDG&E to review PCIA-eligible RPS PPAs internally and | | | |
| | develop target counterparty outreach materials | | | |
| January 5, 2022 | SDG&E to reach out to RPS counterparties | | | |
| February 1, 2022 | Counterparty responses to RFI due | | | |
| February 18, 2022 | SDG&E to complete review of responses to RFI | | | |
| March 1, 2022 | SDG&E to notify LSEs of RPS contracts available for | | | |
| | assignment, if any | | | |
| March 11, 2022 | LSEs to notify SDG&E if LSE is interested in assignment | | | |
| | negotiations | | | |
| Q1-Q2 2022 | Discuss voluntary allocation elections with LSEs | | | |
| March 14 – May 20, | If applicable, this is the negotiation period between | | | |
| 2022 | LSEs, IOU and counterparties for assignments, and IOU | | | |
| | and counterparties of other contract modifications. | | | |
| May 20 - June 1, | IncorporateUnless otherwise directed, incorporate | | | |
| 2022 | requests for allocation approval, and market offer | | | |
| | requests into 2022 RPS Plans. | | | |
| June 1, 2022 | 2022 Draft RPS Plans filed, including LSE load share | | | |
| | elections of the PCIA-eligible RPS portfolio | | | |

5) How will you align the RFI process schedule with the Voluntary Allocation process in 2022? Provide information that lines up with the Timeline in Table 2 in D.21-05-030.

The pool of PCIA-eligible RPS PPAs available for the Voluntary Allocation process will potentially be impacted if PPAs are removed from SDG&E's portfolio, so to accommodate potentially lengthy contract assignment or modification negotiations that may impact the size of the PCIA-eligible pool of generation resources SDG&E intends to initiate the RFI process in advance of the need for LSEs to elect their load share allocation in the initial Voluntary Allocation process.

6) How will you track and report the outcome of your RFI process?

SDG&E shall file a report on the effectiveness of its RPS RFIs jointly with Pacific Gas & Electric Company ("PG&E") and Southern California Edison Company ("SCE") and serve it in this proceeding along with their joint report on the effectiveness of the RPS VAMO.³² The joint report will include best practices and lessons learned from implementing the RPS RFI.

7) How do you plan to gather information and feedback from Independent Evaluators and Procurement Review Group stakeholders who can access confidential information?

SDG&E will utilize its current practice to gather feedback from relevant stakeholders. SDG&E will work with Independent Evaluators and Procurement Review Group stakeholders throughout the process to ensure fairness, transparency, and thoroughness. SDG&E will bring information and recommendations to Procurement Review Group stakeholders in a timely manner to elicit feedback. Information and feedback gathered will be reviewed and then incorporated into the deliberative process.

B. Responsiveness to LSE Policies & Goals, Statutes, & Commission Policies

In this section, SDG&E provides an overview of its compliance with Commission policies, orders, directives, such as RPS related mandated procurement programs, and energy storage reporting. This section also addresses SDG&E's compliance with the statutory long-term contracting requirement. SDG&E does not have unique regional attributes such as once-through cooling retirements, and thus that topic is not included in SDG&E's RPS Plan.

Responsiveness to Legislation and Programs

Notably, regarding SB 100's decarbonization goals, RPS resources play an important role in reducing carbon emissions, and the resource planning undertaken in IRP will be instrumental in ensuring that California reaches its carbon reduction goals through increasing clean resources. Procurement undertaken through the IRP process is, and will continue to be, quantified in SDG&E's RPS procurement planning analysis. SDG&E's alternative RNS scenarios include potential impacts from the IRP, which would increase SDG&E's RPS once the resource(s) come online. SDG&E supports the efforts occurring in the IRP and will continue to be an active stakeholder through comments, workshops, etc.

The banking rules adopted by SB 350 and formalized in D.17-06-026 make several changes, which are now applicable to SDG&E per its election to utilize them beginning in CP3: (i) short-

³² Pursuant to D.21-05-030, Ordering Paragraph 4.

term Category 1 products can be banked;³³ (ii) Category 2 products cannot be banked;³⁴ and (iii) Category 2 and 3 products of any duration cannot be deducted from the bank.³⁵ In accordance with Commission direction,³⁶ SDG&E has updated its RNS table under Appendix 1 to comport with the new SB 350 banking rules, assuming for RNS calculation purposes that eligible excess procurement³⁷ will be utilized in future compliance periods.³⁸

Legislation and Mandated Procurement Programs

Green Tariff Shared Renewables Program

Over the past several years, the California Legislature has passed SB 43 ("Green Tariff Shared Renewables" or "GTSR"), and DAC-Green Tariff programs. SB 43, which became effective on January 1, 2014, requires participating utilities to file an application for a GTSR program allowing customers to buy some or all of their energy from local renewable projects via a GT or Enhanced Community Renewables ("ECR") program.³⁹ Prior to the effective date of this law, SDG&E filed an application requesting approval of its GTSR program in January 2012 (Application "A."12-01-008). SDG&E launched GTSR solicitations for GT and ECR projects in July 2015, September 2016, March 2017, November 2017, June 2018, November 2018, and September 2020. On December 17, 2021, SDG&E's filed Advice Letter 3920-E, requesting CPUC approval to suspend the GTSR program. A large majority of SDG&E's customers have departed or soon will depart, suddenly and materially reducing subscriptions. Since program costs must be recovered from this shrinking pool of customers, rates have risen sharply, resulting in further attrition. SDG&E's RPS may increase if SDG&E claims excess GTSR committed RECs for compliance.

³⁴ Cal. Pub. Util. Code § 399.13(a)(5)(B)(ii).

- ³⁶ R.11-05-005; *Administrative Law Judge's Ruling on Renewable Net Short* (May 21, 2014).
- ³⁷ Rules regarding excess procurement are set forth in D.12-06-038, and D.17-06-026.
- ³⁸ Note that SDG&E may manage excess procurement by selling such products when doing so would benefit customers, or by utilizing a retired REC for RPS compliance in future compliance periods.
- ³⁹ These programs are branded as EcoChoice ("GT") and EcoShare ("ECR"), and were formerly known as "connected....to the sun."

³³ Cal. Pub. Util. Code § 399.13(a)(5)(B)(i).

³⁵ The banking rules, established by D.12-06-038 (see p. 66), require that bankable excess procurement be calculated by deducting all short-term RECs of any category from the total volume of bankable excess procurement. SB 350 expressly changes this by allowing the banking of shortterm Category 1 products (399.13(a)(5)(B)(i)), and prohibiting the deduction of any Category 2 and 3 products when determining bankable excess procurement (399.13(a)(5)(B)(ii)).

Progress Towards Target and Reservations: SDG&E has a target of 59 MW total capacity between its GT and ECR programs, and within this target are two reservations of 10 MW each for residential customers and Environmental Justice ("EJ") projects.⁴⁰ The Commission approved SDG&E's AL 3074-E, via disposition letter, effective June 5, 2017, approving a 20 MW project for SDG&E's GT program leaving 39 MW of available capacity in SDG&E's GTSR program. SDG&E filed AL 3214-E in May 2018, requesting approval of another 20 MW project for SDG&E's GT program and a 2.4 MW project for SDG&E's ECR program. AL 3214-E was approved by the Commission, effective as of June 17, 2018. Subsequent procurement for the GT program through RAM will be based on assessment of "incremental customer enrollments and the amount of dedicated Green Tariff procurement... [already] under contract." ⁴¹ SDG&E held two ECR solicitations a year through 2018.⁴² SDG&E also submitted AL 3168-E to the Commission in December 2017, seeking to extend its GT and ECR programs through 2023 and to propose changes to the ECR program, such as solicitation timing and community interest requirements. The Commission issued Resolution E-5028, effective September 26, 2019, approving SDG&E's request which allows, among other things, SDG&E to hold one solicitation per year beginning in 2020 for these programs.

Reporting: D.15-01-051 allows an IOU to supply initial GT program demand from an interim pool of existing RPS resources under contract with that IOU.⁴³ This Decision also requires reporting regarding this pool, specifically that the IOUs' RPS Plans include "all information related to the transfer of megawatts from the existing RPS program to GTSR. This information includes the impact on residual net short and the need to bridge for any shortfall, accounting of RECs, list of contracts with price, and other relevant details."⁴⁴ SDG&E received Commission approval of its interim project pool Alternative B (list below), ⁴⁵ and enrollment in SDG&E's GT program began in Q4 2016. SDG&E's reporting on the interim project pool Alternative B as of April 2021 shows that 8 RECs in 2016, 4,437 RECs in 2017, 86,446 RECs in 2018, ⁴⁶ 87,617 RECs

- ⁴² D.16-05-006 at 10.
- ⁴³ D.15-01-051 at 39.
- ⁴⁴ D.15-01-051 at 41.
- ⁴⁵ SDG&E AL 2745-E at 3-4.
- ⁴⁶ A total of 102,880 RECs were retired for the GTSR Program (EcoChoice) for 2018. 86,446 RECs were retired from the interim pool and 16,434 RECs were retired from the GTSR project.

⁴⁰ D.15-01-051 at 5.

⁴¹ AL 2743-E at 8.

in 2019,⁴⁷ and 91,024 RECs in 2020⁴⁸ were transferred between the interim project pool Alternative B and the GTSR program. The current price of interim pool energy is based on 2020 actual generation, and the cost for interim pool contracts is \$93.98.⁴⁹ Because GTSR customers are being served with dedicated renewable resources, the generation used to serve the customers enrolled in SDG&E's GT program as well as the bundled retail load served via SDG&E's GT program have not been included in SDG&E's RNS table.

| SDG&E GTSR Interim Pool Contracts | | | | | |
|-------------------------------------|------------|------|----------------------|-------------|--|
| Facility Name | Technology | MW | Location | GTSR Pool % | |
| Desert Green Solar Farm | Solar PV | 6.3 | Borrego Springs, CA | 8% | |
| Sol Orchard 20 - Ramona 1 | Solar PV | 2.0 | San Diego County, CA | 2% | |
| Sol Orchard 22 - Valley Center 1 | Solar PV | 2.5 | San Diego County, CA | 3% | |
| Sol Orchard 21 - Ramona 2 | Solar PV | 5.0 | San Diego County, CA | 5% | |
| Sol Orchard 23 - Valley Center 2 | Solar PV | 5.0 | San Diego County, CA | 5% | |
| Cascade Solar | Solar PV | 18.4 | Sun Fair, CA | 20% | |
| Calipatria, LLC | Solar PV | 20.0 | Calipatria, CA | 18% | |
| TallBear Seville | Solar PV | 20.0 | El Centro, CA | 22% | |
| Maricopa West | Solar PV | 20.0 | Maricopa, CA | 16% | |

Energy Storage

<u>As of June 2021,</u> SDG&E has a portfolio of 116 MWs of energy storage online, including: 76 MWs of utility-owned battery storage resources and 40 MWs of 3rd party pumped storage. In addition, SDG&E has approximately 70 MWs of utility-owned storage under development with another 264 MWs of third-party contracted resources that were approved or awaiting final and non-appealable approval by the Commission and set to come online between 2021 and 2023.

Benefits of Energy Storage: Commission decisions⁵⁰ on energy storage list a myriad of grid management issues that can be addressed via storage, for example, contribution to reliability

⁴⁷ A total of 128,280 RECs were retired for the GTSR Program (EcoChoice) for 2019. 87,617 RECs were retired from the interim pool and 40,663 RECs were retired from the GTSR project.

⁴⁸ A total of 127,956 RECs were retired for the GTSR Program (EcoChoice) for 2020. 91,024 RECs were retired from the interim pool and 36,932 RECs were retired from the GTSR project.

⁴⁹ Price is calculated based on the methodology adopted in D.15-01-051.

⁵⁰ See, e.g., D.13-01-040; D.14-10-045; and D.16-01-032.

needs or deferment of transmission and distribution upgrade investments.⁵¹ Storage also has the ability to respond to periods of renewable curtailment by charging during the overgeneration periods, harnessing the excess energy and potentially mitigating the frequency of negative pricing. Many of SDG&E's online facilities participate in the CAISO market. SDG&E anticipates increasing battery storage project participation in the CAISO market over the next couple of years. As mentioned, energy storage resources have the ability to take advantage of surplus renewable energy when it occurs, as they have the capability to absorb excess energy during times of high renewable generation and discharge it at times when supply is limited. As energy storage capacity increases, the ability of this resource to absorb excess energy may increase, which may decrease the need for economic curtailments.

AB 2514: SDG&E is required to incorporate into its RPS Procurement Plan any energy storage targets and policies that are adopted by the Commission as a result of its implementation of AB 2514.⁵² The Commission issued D.13-10-040⁵³ on October 17, 2013, requiring SDG&E to procure 165 MW of energy storage by 2020.⁵⁴ On December 31, 2020, CPUC Executive Director Rachel Peterson granted SDG&E an extension to 2021 to support SDG&E meeting its AB 2514 procurement obligation. To date, SDG&E has completed the 2014, 2016 and 2018 energy storage procurement cycles. In March of 2020, SDG&E filed its Application for Approval of its 2020 Energy Storage Procurement Framework and Program (A.20-03-003), which described that developers terminated two of the third-party contracts leaving SDG&E approximately 6 MW short of its target. Additional third-party contract cancellations in the remainder of 2020 have resulted in a deficiency of approximately 13 MWs. SDG&E is in the process of replacing the capacity represented by the terminated projects to meet its AB 2514 procurement obligation.⁵⁵

MANDATED RPS PROCUREMENT PROGRAMS

The Commission has implemented several mandated procurement programs, such as RAM, ReMAT, BioMAT, and BioRAM. These programs, with the exception of BioRAM, have resulted and will result in additional RPS procurement that SDG&E must include in its RNS calculation, which will impact SDG&E's position and procurement decisions.

⁵¹ D.13-10-040 at 9.

⁵² Cal. Pub. Util. Code § 2837.

⁵³ This decision established the policies and mechanisms for procurement of electric energy storage pursuant to AB 2514.

⁵⁴ D.13-10-040 at 77 (Ordering Paragraph 3) and Appendix A at 7.

⁵⁵ See R.20-03-003, Response of SDG&E to Ruling Requiring Updates Regarding Progress Toward Meeting AB 2514 Energy Storage Targets, dated August 2, 2021.

RPS-eligible procurement may occur both within and outside the RPS program. If authorized to procure renewable resources as a part of these initiatives, SDG&E will count such resources towards its RPS goals. For example, SDG&E anticipates that the IRP process signifies a shift away from separate program-specific procurement requirements as is currently the case and towards a holistic planning and procurement process that evaluates resource needs as a whole and, should they exist, ascertain the optimal way of procuring for those needs.

Renewable Auction Mechanism

The Commission implemented its own mandated renewable procurement program, the RAM program in 2010. While SDG&E expects it will meet its RPS compliance obligations with RPS under contract, SDG&E may use the RAM solicitation documentation on an as-needed basis to procure for its GTSR program, as authorized by D.15-01-051⁵⁶ and D.16-05-006.⁵⁷ SDG&E's most recently approved RAM documents can be found in SDG&E AL 3206-E, effective April 28, 2018.⁵⁸ D.14-11-042 allows the IOUs to propose an approval process for contracts resulting from the RAM process. At this time, SDG&E proposes no changes to the current Tier 2 AL process, but may propose alternate methods in subsequent versions of its RPS Plan.

ReMAT

The ReMAT, established in 2012, is a feed-in tariff program for small renewable generators less than 3 MW in size. In accordance with the ReMAT program rules, SDG&E's Schedule Re-MAT Tariff closed, effective June 30, 2016.⁵⁹ D.13-05-034 modified D.12-05-035 with regard to the closure of an IOU's ReMAT program, stating "we modify D.12-05-035 to establish the end date at 24 months after the first product type goes to zero MW or goes to a *de minimis* amount approaching zero. An end date for the program is important because, otherwise, the program could go into perpetuity with a miniscule amount of megawatts being offered each bi monthly period. An end date also promotes administrative ease by defining the length of time the Commission and the utilities must dedicate resources to this program."⁶⁰ D.21-12-032 reopens. SDG&E's ReMAT program and requires SDG&E to file a Tier 2 Advice Letter to memorialize the reopening and to identify the capacity available in the three product categories; peaking, non-

⁵⁶ D.15-01-051 at 180 (Ordering Paragraph 5).

⁵⁷ D.16-05-006 at 41-42 (Ordering Paragraph 1).

⁵⁸ Available at <u>http://regarchive.sdge.com/tm2/pdf/3206-E.pdf</u>.

⁵⁹ Edward Randolph of the Commission's Energy Division notified SDG&E on February 23, 2018, indicating that SDG&E ReMAT program was closed effective December 15, 2016.

⁶⁰ D.13 05 034 at 14 (citations omitted).

peaking, and as available. SDG&E has not included RPS resulting from the ReMAT program in its RNS scenarios as the procurement volume and timing is unknown. SDG&E will incorporate RPS from ReMAT facilities once they have been approved by the CPUC.

BioMAT⁶¹

SB 1122 was signed into law in September 2012, creating the BioMAT program. The program required IOUs to procure a total of 250 MWs of bioenergy projects that are 3 MWs or less. The categories of procurement are biogas from wastewater plants and green waste (110 MWs), dairy or other agriculture bioenergy (90 MWs), and forest waste biomass (50 MWs). The BioMAT program benefits all California customers, and as a result of D.20-08-043, all BioMAT costs are to be spread through a non-bypassable charge. Currently, SDG&E has no BioMAT contracts, and its total available BioMAT capacity is 24.5 MW.⁶²

BioRAM

The BioRAM program was established in 2016 as a result of former Governor Brown's emergency proclamation. The program was created to aid in mitigating the threat of wildfires by utilizing high hazard zone biofuel from forests and other vegetated areas determined by CAL FIRE that pose a wildfire risk. The program requires IOUs to collectively procure 146 MWs, of which SDG&E's share of that total is 19 MWs. SDG&E has one 24 MW BioRAM contract which fulfilled its procurement obligation.⁶³ Per Resolution E-4977, which implements SB 901, SDG&E was required to seek to extend its BioRAM contract for 5 years. Accordingly, effective July 19, 2019, the Commission approved AL 3356-E and 3356-E-A, extending SDG&E's BioRAM contract by 5 years.

D.18-12-003 requires SDG&E to make available for sale all of the future RECs associated with SDG&E's BioRAM contract(s) as PCC 1 RECs. SDG&E has utilized, and will continue to utilize, the Sales RFP documents attached herein (see Appendices 9-13) and will file an AL with the Commission for approval of any resulting contracts. According to the Decision, SDG&E may not use RECs associated with BioRAM contracts for compliance purposes. Therefore, SDG&E updated its RNS appendices 1a, 1b, 1c, and 1d to exclude RECs associated with BioRAM resource.

⁶¹ <u>https://sdgebiomat.accionpower.com/biomat/home.asp.</u>

⁶² SDG&E previously contracted with a BioMAT facility which has since been terminated.

⁶³ SDG&E met its BioRAM requirement in November 2016.

1. Long-Term Procurement

Requirements set forth in D.17-06-026 require that 65 percent of each retail seller's procurement that can be counted towards the RPS requirement must be from contracts (or ownership or ownership agreements) with term lengths of 10 years or more in duration. SDG&E elected early compliance (beginning in CP 3) with the 65 percent long-term contracting requirement.

Of the RECs retired in CP 3 (2017-2020), 98 percent were from long-term contracts. Beginning in 2020 100 percent of SDG&E's remaining RPS contracts are long-term contracts-, and SDG&E's developing contracts are long-term and have low risk of project failure. Because SDG&E's RPS portfolio is made up exclusively of long-term RPS contracts, it is not at risk for noncompliance-with the 65% long-term contracting requirement. Additionally, SDG&E frequently monitors its portfolio to ensure continued compliance with the RPS Program requirements, including the long-term contracting requirement.

C. Portfolio Diversity and Reliability

A wide variety of procurement programs exist both within and in addition to the RPS program. This variety contributes to SDG&E's overall portfolio diversity. An overview of SDG&E's mandated RPS procurement programs and preferred resources solicitation is provided above under Section IV; Section XV addresses the IRP process which aims to achieve resource diversity and reliability; and Section IV includes information on SDG&E's flexible capacity and storage procurement efforts. Additionally, SDG&E provides detail regarding how transportation electrification is considered in Section IV, and SDG&E's strategy for optimizing cost, value, and risk, which are also important considerations for both diversity and reliability purposes. Taken together, these various sections address how SDG&E has increased and will continue to increase the diversity of its portfolio and contribute to grid reliability, thereby resulting in customer value.

Another factor that influences SDG&E's portfolio diversity as well as help to appropriately address integration and overgeneration is the LCBF calculation that SDG&E has used and will use to select shortlisted projects. The LCBF methodology appears in a document attached hereto as Appendix 8. The methodology outlined in this document includes the interim integration adder, the application of which will ensure that integration is factored into bid evaluation, with the objective of selecting a diverse portfolio in consideration of system needs and reliability. The LCBF document also contains qualitative evaluation metrics, which play a part in selecting a diverse portfolio.

Additionally, SDG&E's Plan includes Section XIII, dedicated to economic curtailment, which outlines how SDG&E proposes to address the integration of renewables and the issue of overgeneration, both of which can contribute significantly to the incidence of economic curtailment. This section includes a discussion of SDG&E's analysis and activities, as well as information regarding contract modifications SDG&E has made over time to address curtailment. SDG&E notes that the ACR expressed an interest in how SDG&E is addressing the "under-utilization" of renewable energy.⁶⁴ This term implies that renewable energy is not being used to the extent possible when generated, which is not the case. However, as explained further in Section XIII, below, renewable generation is not load-following, and as such can result in overgeneration. One way to address overgeneration is through the use of energy storage. Section IV includes an update on the status of SDG&E's energy storage portfolio, as well as more detail regarding the potential of this technology to address overgeneration.

The various procurement activities and continued refinement of both the project valuation methodology and contracts are undertaken on behalf of SDG&E's customers to ensure that they receive a reliable, diverse and cost-effective portfolio of generation.

Alignment with Load Curves

SDG&E evaluates load curves regularly to ensure that its portfolio meets hourly system needs. SDG&E's renewable resource procurement process analyzes these curves in three phases: (i) need identification; (ii) solicitation; and (iii) resource operations. All steps within this process consider the load curves and their implications on overall portfolio performance and system requirements. The need identification phase outlines the required resource characteristics based on SDG&E's existing portfolio and forecasted load. During the solicitation phase, projects with the characteristics identified in the first phase are sought, and portfolio and system requirements are incorporated into the analysis in the form of capacity value, congestion costs, and transmission costs (see the LCBF discussion below). And finally, once projects are operational, their generation can be managed as deemed necessary via curtailment and/or energy storage (see Sections IV and XIII for further detail).

SDG&E optimizes its RPS portfolio to meet and maintain its RPS compliance while minimizing customer costs, maximizing portfolio value and managing risk. SDG&E approaches this task from a variety of angles, as described below. SDG&E seeks to ensure an optimal, cost-effective portfolio mix based on technology, location, and contract length. SDG&E continually assesses opportunities to increase the value of its existing portfolio of contracts and the investment in SDG&E's RPS bank to maintain RPS compliance and mitigate financial and cost-allocation risks.

⁶⁴ ACR at 16.

Advanced Emerging Technologies

Advanced emerging technologies naturally support resource diversity due to their inherent novelty and propensity to render certain operations more efficient, cost-effective, cleaner, to name but a few benefits. The Commission should also continue to prioritize resource diversification by supporting the development of long-duration energy storage and other potential viable options such as hydrogen energy storage. Hydrogen energy storage can significantly reduce emissions and can play a critical role in complementing intermittent renewables for the state. Hybrid battery storage can also provide benefits to the grid, such as reliability, because storage can absorb excess solar during the day to be used at a time when renewable resources may be producing less. The IRP process will continue to help identify and allow advanced emerging technologies to become part of the State's portfolio of resources. Furthermore, the IRP can help to promote growth in and maturation of new technologies, including EVs, carbon capture, carbon sink options, etc., and allow them to be part of the solution for achieving the State's policy goals.

D. Lessons Learned & Trends

The following sections discuss lessons learned regarding RPS supply and demand assessments and identify trends and potential future trends.

Supply Lessons Learned and Trends

REC Sales Considerations: A firm REC sale agreement requires SDG&E to deliver a guaranteed volume of RECs to a counterparty, typically from a "pool" of renewable facilities. The purpose of the "pool" is to ensure the counterparty receives its full contracted volume. For example, if SDG&E agreed to deliver 10,000 RECs in one year to a counterparty, and Pooled Facility #1 generated 8,000 MWhs, one or more facilities from the "pool" must deliver the remaining 2,000 MWhs needed to fulfil the obligation of the contract. This type of transaction is considered a "firm" transaction.

The alternative to a firm REC sale agreement involves a counterparty agreeing to an as-available volume of RECs from one specific renewable facility. If the facility delivers less than expected, SDG&E is not required to make up the difference with the "pool" because there is no "pool" from which to back-fill shortfall quantities in non-firm REC agreements. This type of transaction is considered a "non-firm" transaction.

SDG&E sees advantages with both firm and non-firm transaction types. SDG&E has learned that non-firm transactions reduce the risk that a certain technology or facility(ies) in the RPS portfolio underperforms because SDG&E would not be

obligated to "make up" RECs from its portfolio that may have been needed for SDG&E's compliance.

Overbuilding: SDG&E has had experience with developers providing profiles in prior solicitations that did not match the profiles of the facilities that were ultimately built. In other words, developers "overbuilt" facilities (i.e., installed capacity above the amount bid and/or shaped the production profile to take advantage of higher-priced Time of Delivery ("TOD") periods). The resulting overgeneration has increased costs to customers through increased contract costs, and increased generation overall which increases the incidence of and payments for negative real-time energy pricing. SDG&E has modified its PPA several times to discourage this practice going forward and will continue to reevaluate its contract provisions in subsequent versions of the plan, as new information becomes available, to determine if and how its contracts should be updated.

Energy Storage and Curtailments: Battery storage is a solution that can work in tandem with renewables which may help reduce economic curtailment events. Energy storage could help alleviate economic curtailments by taking the excess supply off the grid. Through the IRP, the Commission ordered 3,300 MWs of procurement to address reliability concerns.⁶⁵ This procurement order resulted in SDG&E holding an all-source solicitation, in which eligible renewable energy resources could bid in. SDG&E found that of the bids offered, the majority were not renewables given the commercial online date requirements, and instead were battery storage solutions. Ultimately, the development of battery storage could reduce the renewable curtailments currently faced by the CAISO and LSEs.

Capacity Value: SDG&E's method for calculating energy and capacity values uses a benchmark where energy values are shaped hourly based on a forecast of SP15 energy prices and the results of production cost modeling that yields an hourly energy shape that covers the contract term. The capacity value is shaped hourly using a Loss-of-Load Probability ("LOLP") study for a representative year of the contract term. The process assigns higher capacity value to hours of greater capacity need, which more accurately reflects the impact of variable energy resources upon capacity needs. The calculation provides annual capacity values for both local and IV/System area projects. These annual values are then taken through a process which creates monthly capacity values using the LOLP mentioned above, then down to an hourly level using the monthly values.

⁶⁵ D.19-11-016 at 48-49.

These benchmark values are reasonable because, when evaluating a contract on a standalone basis, it should be measured against the avoided costs the utility might face had this contract not been part of the portfolio. For example, if SDG&E had a resource in its portfolio, and that resource was crucial to meeting local resource adequacy requirements, the marginal value of that resource is the amount that SDG&E must pay to replace that resource if it becomes unavailable, plus the cost to replace the energy that resource would have generated in order to serve hourly retail load. SDG&E will update its calculations as the assumption sources are updated.

Delay of COD Declaration: SDG&E is concerned that a facility could reach commercial operation prior to the contractual commercial operation date ("COD"), but delay declaring COD until the COD date in the contract. As a result, the facility would be paid for this energy at the contract price, thereby extending the term of its contract, resulting in an additional cost to customers. To mitigate this issue, SDG&E's PPAs provide that energy delivered prior to COD will be paid for at a fixed REC value plus CAISO revenues net of CAISO costs.

Steady Project Success Rates: As the market for renewable energy has matured, SDG&E has observed a positive trend in project success rates. As explained above, SDG&E reviews the status of all projects in its portfolio frequently to incorporate the most recent information into its forecast and will continue this practice.

Demand Assessment Lessons Learned and Trends

Proliferation of CCAs and the need for a central procurement entity ("CPE") and provider of last resort ("POLR"): IOUs are experiencing significant amounts of departed load as a result of the proliferation of CCAs in the territory which results in the reduction of SDG&E's retail sales. In SDG&E's service territory, the City of Solana Beach formed the Solana Energy Alliance and began operations in 2018 as the first local CCA, and has since joined the cities of Carlsbad and Del Mar to form the larger Clean Energy Alliance in 2021. Also in 2021, San Diego Community Power ("SDCP") is ramping up operationshas also started serving load, with customers in the cities of San Diego, Chula Vista, Encinitas, La Mesa and Imperial Beach. Together these two CCAs represent over 832,000 accounts and more than 58 percent of SDG&E's total load; both CCAs expect the transition of all customers to be completed by the end of 2022. Given the massive loss of load in the coming years, it is SDG&E's goal to ultimately exit commodity procurement. Indeed, as moreAs load departs from bundled service, the traditional role played by the IOUs in commodity procurement will need to be reevaluated and new institutions will need to potentially be created including, for example, a state-level Central Procurement Entity and non-IOU Provider of Last Resort.

Peak Shifting: Due to the success of the RPS program, a significant amount of renewable energy continues to be added to the grid. Substantial amounts of rooftop solar are also being added by customers behind the meter. As a result, the peak load net of variable energy resources has and will continue to shift as the California resource portfolio evolves. Renewable resources have low variable costs, and thus when they are delivering at high penetration levels during any single time during the day, doing so may result in significant decreases in marginal energy prices and significant ramping events. SDG&E is monitoring the impacts of this issue in the IRP proceeding.

Meeting Demand for Higher Levels of Renewables: In addition to the State's goals (the most recent development of which was SB 100), many customers and communities within SDG&E's service territory are interested in electricity service with even higher levels of renewables than required by law. Related to SDG&E's RPS planning efforts, SDG&E will continue to consider ways in which SDG&E can potentially support offerings that are made available to customers throughout the SDG&E service territory to help meet these goals.

V. PROJECT DEVELOPMENT STATUS UPDATE

The adopted Reference System Plan ("RSP") from the 2019-2020 IRP cycle, which was approved in D.20-03-028, showed a need for developing new resources.⁶⁶ Additionally, due to system reliability concerns, the Commission initiated a procurement track and ordered an additional amount of 3,300 MWs.⁶⁷ SDG&E has since entered into contracts with multiple counterparties. Additionally, the Commission is requiring the procurement of additional resources, some of which may be RPS eligible through its IRP <u>Mid Term Procurement Decision.⁶⁸MTR procurement</u> <u>order.⁶⁹ RPS resources procured in the IRP will be included on the Project Development Status</u> <u>Update, and their RPS volumes will be considered after adjusting REC deliveries for potential</u> <u>project failure.</u> More information on SDG&E's RPS procurement alignment with the IRP can be found in Section XV.

SDG&E regularly evaluates each project's development status to assess each project's ability to begin deliveries pursuant to contract terms and conditions. SDG&E's portfolio of renewable energy resources currently under contract but not yet delivering (either pre-construction or in construction) are in various stages of development. Projects under development generally require numerous permitting approvals, generator interconnection, financing, and completion of construction before they can achieve commercial operation. Each of these issues adds significant risk to the development of a project and can directly impact the success or failure of a project.

Generally, projects in the pre-construction phase are most at risk of failure. However, projects under construction may also encounter issues that could affect their ability to achieve commercial operation, such as successful litigation against the project. In general, projects that have achieved commercial operation have a high probability of meeting their contractual obligations; however, project failure or resource fluctuations *(e.g.,* a bad wind year) can create challenges. Although a developer's experience may improve the likelihood of a project achieving commercial operation, it does not ensure that a project will be successful. Sections IV, VI and VII of this Plan discuss the various delays and risks that could impact projects in various stages of development.

⁶⁶ D.20-03-028 at 97 (Finding of Fact 21).

⁶⁷ D.19-11-016 at 48-49.

⁶⁸ See Footnote 4, supra.

⁶⁹ See Footnote 4, supra.

Regarding the impact of project development status on SDG&E's RNS, as a practical matter, until a project actually begins commercial operation, it bears significant development risk. SDG&E currently expects that a majority of the two developing projects in its <u>RPS</u> portfolio will meet their commercial operation dates either on schedule or within the prescribed cure period. SDG&E bases its forecasting, and therefore its RNS calculation, on its individual project assessments, as is described in more detail in Section IV. It also relies on the lessons it has learned and trends it has observed as a result of the RPS procurement process, as discussed in more detail in Section IV. The above factors contribute to SDG&E's monthly project assessments of the likelihood of each project's success. The result of these cumulative assessments is reflected in the RNS, which SDG&E will use to inform its procurement activities.

SDG&E is developing multiple contracts for renewable projects that are in the pre-construction or construction phase. Information regarding these projects, as required by the ACRSDG&E's developing projects, including location, which SDG&E has made public pursuant to D.22-01-004, can be found in Appendix 1.

VI. POTENTIAL COMPLIANCE DELAYS

Potential Issues that Could Impact RPS Compliance

The market for renewable energy is dynamic, and multiple factors can impact project development and SDG&E's attainment of its RPS program goals. The following discussion addresses many of the major issues affecting both renewable project developers and SDG&E.

Transmission Interconnection / Coordination with CAISO: The timely approval, permitting, and completion of interconnection facilities is crucial to the successful implementation of SDG&E's renewable portfolio. Issues may arise due to transmission facility planning that could impact project development timelines. For instance, the CAISO's transmission studies are already showing that there is limited available deliverability left in the Greater Imperial Valley area.⁷⁰ An inadequate amount of transmission capacity can result in insufficient eligible resources that would be needed for resource adequacy. Solving this issue will require the CAISO to approve major transmission upgrades that sometimes require long lead times to permit and build. SDG&E monitors these issues and actively participates in the CAISO's Transmission Planning Process ("TPP") and CAISO's Generation Interconnection Process, including by responding to competitive solicitations and proposing its own projects when appropriate, such as the SWPL High-Voltage Direct Current ("HVDC") transmission line conversion project.⁷¹ The project is expected to be revisited in future planning cycles. Longer term direction regarding the projected cost savings associated with the reduced need for local generation may become more evident based on the results of the Commission's IRP process.

Jurisdictional Agency Permitting Delays: Uncertainty surrounding the timely issuance of key permits associated with CEQA and National Environmental Policy Act ("NEPA") lead agency review continues to create risks for projects under development. The permitting timeline can vary greatly based on a multitude of factors including project location, project specific environmental issues, lead/other agency resources, and public participation. First, this uncertainty may lead to scheduling challenges and corresponding problems with project elements such as site control, financing, permitting, engineering, procurement including supplier and engineering, procurement, and construction ("EPC") contracts. Second, costs to mitigate environmental issues or respond to public concerns can lead to higher than expected costs for developers to complete a project.

⁷⁰ California ISO 2020-2021 Transmission Plan (March 24, 2021) at 234 (*available at* <u>http://www.caiso.com/Documents/BoardApproved2020-2021TransmissionPlan.pdf</u>).

⁷¹ California ISO 2018-2019 Transmission Plan (March 29, 2019) at 325 (*available at* <u>http://www.caiso.com/Documents/ISO BoardApproved-2018-2019 Transmission Plan.pdf</u>).

Debt Equivalence and Accounting: Two additional issues may challenge SDG&E's ability to achieve its RPS goals. The first involves debt equivalence. The cumulative debt equivalence of executed PPAs could affect SDG&E's credit profile and, consequently, its financial standing. Rating agencies may include long-term fixed financial obligations, such as PPAs, in their credit risk analysis. These obligations could be treated as additional debt during their financial ratio assessment. Standard and Poors views two core ratios, Funds From Operations ("FFO") to Debt and Debt to Earnings Before Interest, Tax, Depreciation and Amortization, as well as other supplementary ratios, as critical components of a utility's credit profile. Debt equivalence could negatively impact all ratios. Unless this risk is mitigated, a PPA would negatively impact SDG&E's credit profile by degrading credit ratios.

The second issue relates to Accounting Standards Codification ("ASC") 810 Consolidation, which includes the subject of Consolidation of Variable Interest Entities. Application of ASC 810 as it pertains to Consolidation of VIEs could also impact SDG&E's ability to sign new contracts. As part of SDG&E's overall internal review and approval process for new PPAs, SDG&E conducts a review of whether each PPA will be subject to consolidation under ASC 810. Under ASC 810, no renewable PPA has been deemed subject to such consolidation, however, ASC 810 requires SDG&E to perform an evergreen assessment for those contracts which are considered VIEs. For this reason, SDG&E believes that it is required to assess quarterly each contract or category of contracts to ensure continued compliance with ASC 810, to determine whether SDG&E must consolidate a seller's financial information with SDG&E's quarterly financial reports to the Securities and Exchange Commission. The accounting rules can change, thus wind, solar, geothermal and bio-gas sellers could be impacted.

Application of ASC 810 could hinder SDG&E's ability to achieve its RPS goals and add further costs and risk to execution of new renewable contracts. If SDG&E determines that consolidation is required, a seller must open its books to SDG&E and submit financial information, on a quarterly and monthly basis, as specified in SDG&E's contract language for the duration of the relevant agreement. All PPAs are affected by either debt equivalence or ASC 810 requirements. The Commission is aware of the negative impact of debt equivalence on SDG&E's credit profile. AB 57 requires that the Commission adopt procurement plans that, among other objectives, enhance the creditworthiness of the utility. ASC 810 will affect SDG&E's reported financial data and may have a negative impact on SDG&E's balance sheet and/or credit profile. ASC 810 could impact SDG&E's capital structure on a consolidated basis and cause it to be misaligned with its authorized capital structure. To the extent SDG&E must seek to mitigate the impacts of debt equivalence and ASC 810, it will do so through a separate cost of capital filing. **Insufficient Supply of Renewable Resources / Reduced Generation:** As described above under Section IV, SDG&E expects to meet its CP goals through 2030 with its portion of the RPS portfolio after impacts of the Portfolio Optimization Decision are considered and by procuring new renewable resources through a competitive solicitation or bilaterally, as needed.

The majority of the facilities with which SDG&E has contracted are operating, as can be seen in the probability weighted tables in Appendix 1. It is unlikely that an event, or series of events, will undermine SDG&E's ability to procure energy from these resources. However, as discussed more fully in Sections IV and IX, SDG&E has established an MMoP which guards against unforeseen circumstances with projects that are in development and has the option to develop a VMoP.

Unanticipated Curtailment: As explained in more detail below under Section XII, the incidence of curtailment has increased and will continue to do so as more and more intermittent renewable generation is brought online. SDG&E's current strategy inherently addresses curtailment as it seeks to mitigate the need to curtail by procuring a diverse portfolio of resources that account for system needs as described above in Section IV, and by refining its RPS PPA to ensure that the projects that are ultimately built reflect the project as bid, also described under Section IV. Additionally, SDG&E has taken steps in its RPS PPA to provide for economic curtailment rights, and these past RPS PPA modifications are referenced in Section XIII below.

Unanticipated Increases in Retail Sales: SDG&E's retail sales forecast methodology, which is intended to capture both increases and decreases, is explained above under Section IV. It is unlikely that an event or series of events will increase SDG&E's retail sales to a level that would prevent RPS compliance. However, with the proliferation of retail choice, SDG&E will monitor increases in bundled service, for example, by customers opting out of CCA service.

Impact of Potential Delays

SDG&E bases its RPS generation forecasting, and therefore its RNS calculation, on its individual project assessments, as described in more detail in Section IV. For example, a project that has been experiencing permitting issues would receive a probability weighting reduction to account for this risk until the issue is resolved. SDG&E also considers lessons learned and trends it has observed as a result of the RPS procurement process. The factors discussed in this section contribute to SDG&E's continuous assessment of the likelihood of each project's success. The results of these cumulative assessments are reflected in the RNS, which SDG&E will use to inform its procurement activities. SDG&E does not anticipate any RPS compliance delays at this time.

VII. RISK ASSESSMENT

ProjectSDG&E's current overall assessment is that projects in its portfolio have a low risk of non-performance due to SDG&E's expectation that the risk factors mentioned below remain relatively stable. Other factors that could impact SDG&E RPS compliance, such as load departure and variable generation, are also low risk because SDG&E has a REC bank it could use to meet compliance, including the 65% long-term contracting requirement.

Compliance Risk

SDG&E assesses project risk on an ongoing basis utilizing written assessments from developers and periodic status update meetings with developers, especially as it relates to building new resources, delayed construction, and determining whether there is a risk that power will not be delivered. In assessing SDG&E's risk, it is important to first note that SDG&E has fewer projects in development than in prior years, and in general, current project development has been more successful in reaching commercial operation. Given that information, SDG&E's risk assessment is mainly qualitative, such as the information referenced in Sections IV and V, which provides more meaningful information in which SDG&E can make assumptions on project success.⁷²-<u>.</u> For example, SDG&E's RNS includes a delivery failure rate which is the probability weighted deviation below expected forecast generation of projects under development. The probability rate is weighted and is determined qualitatively and supported by historical project failure rates and subject matter expert knowledge and judgment. SDG&E's two projects under development are in the late stages, and SDG&E sees little risk in reaching their commercial operation.

SDG&E may consider using project milestones to establish failure rates, in addition to qualitative measures. This approach inherently incorporates risks related to permitting, transmission development, supply chains and financing, because many of those items allow a project to reach a new milestone. The more milestones a project has reached, the less risky it becomes; thus, it would be given a lower failure rate.

SDG&E periodically evaluates the risk that delivering projects will underperform. In SDG&E's experience, developers are inherently motivated to achieve their COD for their facilities and maintain successful operations due to several factors: (i) the significant investment required to achieve COD; (ii) the timely payments made for energy delivered once COD is reached; and (iii) the penalties incurred if the project does not meet contractual requirements to supply at least the minimum amount of energy contemplated.

Per the ACR, SDG&E is providing this additional discussion regarding how it assesses project risk. SDG&E does not conduct an annual risk assessment via modeling, but rather evaluates each project on a regular basis utilizing the most recent data available, as described under Section IV.

As explained above under Section IV, SDG&E expects to meet its CP goals through 2030 with RPS eligible procurement already under contract. However, risks are still present, and over the past decade, SDG&E has observed some dynamic factors that may affect power production from delivering projects: SDG&E's risk of noncompliance is low considering its bank of RECs. If a developing project were to fail, SDG&E could use RECs from its REC bank until SDG&E is able to contract with another renewable facility. The bank has enough RECs to provide almost 100% of SDG&E's overall RPS procurement quantity requirement for the next 5 years.

Risk Modeling and Risk Factors

As discussed above, SDG&E uses qualitative measures to determine project development risk. SDG&E acknowledges risk associated with other factors, such as lower than expected generation, load departure/growth, variable generation, and resource availability. At this time, SDG&E does not conduct traditional modeling to account for these risks, and instead utilizes a three-year average of prior project deliveries. This approach captures natural fluctuations in deliveries that are likely to continue into the future, including lower than expected generation and variable generation. SDG&E assesses minimal risk associated with resource availability for facilities that rely on biofuel or water for hydro. SDG&E has one bioenergy facility through the BioRAM program and is prohibited from using those RECs towards its compliance requirement. Impacts from resource availability for BioRAM facilities do not affect SDG&E's RPS. Load departure, and associated RPS allocation, is a potential risk for SDG&E and SDG&E included several load departure scenarios with varying levels of load departure attached as Appendices 1b, 1c, and 1d. In these scenarios, it is assumed that LSEs serving departed customers elect 100% of their voluntary allocation. In light of load departure, if used, SDG&E's bank could sustain its SDG&E's RPS compliance through 2030.

SDG&E's consideration of project development risk, generation fluctuation, and load departure are factors SDG&E considers when evaluating its RPS compliance requirements. Importantly, as stated above, SDG&E has a REC bank that may be utilized if an unforeseen circumstance were to occur. Furthermore, SDG&E is above its RPS compliance requirements for several more years, providing an additional buffer to meet RPS compliance requirements.

Diversity & Reliability

As explained under Section IV, a wide variety of procurement programs exist within and in addition to the RPS program. These programs contribute to SDG&E's overall portfolio diversity and support reliability. In addition to information in Section IV, it is important to note that the

IRP process prioritizes system reliability. Section XV provides additional information on the IRP process.

Lessons Learned

<u>SDG&E has observed some dynamic factors that may affect power production from delivering projects:</u>

Resource Availability and Variable Generation: Renewable resources depend on natural sources of energy that are variable and can be impacted by various factors. For example, a year with lower than expected wind can greatly impact a wind facility's performance and cause lower than expected generation. Another factor that could also impact generation is the occurrence of unexpected mechanical failures, which could cause a facility to be partially or fully unavailable until the issue can be resolved.

Regulatory Changes: The expiration of subsidies or additional requirements resulting from changes in regulations could lower the revenue stream and increase costs for RPS developers, which in turn could lead to reduced production if the project has difficulty in supporting this lower revenue stream.

Economic Environment: The interest rates and flexibility of financing arrangements entered into by developers can impact a project's success. Long-term project financing arrangements with unfavorable terms can lead to project failure or reduced production if the project has difficulty in supporting the financing cost requirements. Additionally, economic factors that negatively impact a generator's supply chain could impact its ability to comply with contract terms.

Evolving Technology: Facilities with older generation technology that is no longer supported by the manufacturer can experience project failure or reduced production. This problem is arising now for older RPS projects and could occur in the future as the projects built in the past begin to age.

Issues with Third Party Mandatory Systems: CAISO and WREGIS systems have experienced technical issues in the past, and potential technical problems with these systems going forward could complicate the compliance process.

Diversity & Reliability

As explained under Section IV, a wide variety of procurement programs exist within and in addition to the RPS program. These programs contribute to SDG&E's overall portfolio diversity and support reliability. In addition to information in Section IV, it is important to note that the IRP process prioritizes system reliability. Section XV provides additional information on the IRP process.

Impact

SDG&E's current overall assessment is that projects in its portfolio are at a low risk of nonperformance, assuming the risk factors mentioned above remain relatively stable. As described herein, SDG&E bases its forecasting, and therefore its RNS calculation, on its individual project assessments, lessons learned and trends it has observed as a result of the RPS procurement process. The above factors contribute to SDG&E's monthly project assessments of the likelihood of each project's success. For example, the probability weighting for a project that has begun experiencing technical difficulties due to an aging system and has been unable to receive assistance from a manufacturer that no longer exists would receive a probability weighting reduction to account for its reduced generation until the issue is resolved. The result of these cumulative assessments is reflected in the RNS, which SDG&E will use to inform its procurement activities.

SDG&E does not anticipate any project related compliance delays at this time. As required by the ACR, a summary of the justification for this position is provided above under Section VI, under "Insufficient Supply of Renewable Resources."

VIII. RENEWABLE NET SHORT

The analysis attached hereto in Appendix <u>11a</u> shows the Commission's prescribed RNS calculation with supporting probability weighting calculations by project as of June 2021.. As mentioned above, SDG&E is including three alternative scenarios, <u>updated as of February 2022</u>, that illustrate the impact to SDG&E RPS position if its retail sales and PCIA eligible RPS portfolio are reduced by 40 percent, 50 percent, or 60 percent respectively. and include potential impacts from the IRP MTR procurement order. Appendix 1b represents a 40 percent scenario; Appendix 1c represents a 50 percent scenario; and Appendix 1d represents a 60 percent scenario.

SDG&E intends to monitor the vintage and remaining life of its RECs to maximize their value to the portfolio by retiring them at the most opportune time. This point is discussed in more detail in Section IV.

IX. MINIMUM MARGIN OF OVER-PROCUREMENT

A. Methodology & Inputs

SDG&E has established an MMoP, which is incorporated into SDG&E's RPS eligible procurement volume as shown in its RNS. SDG&E's MMoP is intended to account for project failures or delays and will inform whether additional procurement is needed for SDG&E to achieve its RPS requirements despite project development risks. For example, beginning in 2024, SDG&E's forecasted failure rate for projects in development currently is between 20 percent. As a result, SDG&E anticipates an increase in procurement needed to account for this failure rate for the potential failure. This additional procurement needed to account for this failure rate would vary year by year depending on load. SDG&E has the option to incorporate a VMoP, which is another form of project development risk mitigation. The VMoP further adjusts REC deliveries beyond the MMoP risk adjustment which results in more RECs being needed to meet RPS requirements. SDG&E does not make further adjustments to REC deliveries by using the VMoP due to the limited number of contracts under development and availability of its REC bank. SDG&E's RPS Risk Adjusted⁷³ RNS Calculation, as shown in Appendix 1, provides an MMoP and does not include a VMoP.⁷⁴

SDG&E's RNS calculation and MMoP methodology for each year is based on the following formula:

RPS Risk-adjusted Net Short = (Bundled Retail Sales Forecast x RPS Procurement Quantity Requirement + Voluntary Minimum Margin of Procurement (if any)) – (Online Generation + Risk-adjusted Forecast Generation + Pre-approved Generic Generation)⁷⁵

Where:

• **Bundled Retail Sales Forecast** = the forecast developed in accordance with Section IV.

⁷³ Probability weightings are used to adjust estimated deliveries based on the likelihood that each developing project will reach COD, as well as the likelihood that each delivering projects will continue to deliver as estimated. The probability weighting process identifies the volume of generation under contract that SDG&E is likely to receive and be able to apply towards its RPS compliance. Based on this analysis, SDG&E can determine what additional procurement, if any, is necessary to reach its RPS targets while considering project development risk.

⁷⁴ See Row D of the RNS Table in Appendix 1a.

⁷⁵ All generation data listed in any of SDG&E's RPS Plans, as well as any of its RPS Plan Appendices, are from contracts that have been approved or pre-approved by the Commission.

- **RPS Procurement Quantity Requirement** = the target for the relevant CP or year.
- Voluntary Minimum Margin of Procurement = zero.
- **Online Generation** = the generation that SDG&E expects will be delivered by its portfolio of RPS projects that have achieved commercial operation, as discussed in Section IV.
- Risk-adjusted Forecast Generation = the generation that SDG&E expects will be delivered by its portfolio of RPS projects that have not yet achieved commercial operation, as discussed in Section IV. This volume includes SDG&E's MMoP which is based on a weighted average project failure rate supported by historical project failure rates and subject matter expert knowledge and judgment.
- Pre-approved Generic Generation = unsubscribed volumes that SDG&E is required to procure under fully implemented CPUC-mandated procurement programs (RAM and ReMAT).

B. Scenarios

SDG&E's RPS portfolio consists of entirely long-term contracts with facilities that have already commenced commercial operations, and two projects that are under development. SDG&E's developing projects are low risk as they are near completion and have a low failure rate. As provided in SDG&E's RNS and alternative RNS scenarios, SDG&E has a substantial REC bank canwhich could be used for compliance if needed. Given these facts, SDG&E's risk of noncompliance with the RPS program requirements is low, therefore its VMoP is currently zero. However, SDG&E continues to monitor its portfolio to determine if impacts from load departure will affect SDG&E's VMoP strategy.

X. BID SOLICITATION PROTOCOL

A. Solicitation Protocols for Renewables Transactions

Lessons Learned

SDG&E will enter into RPS solicitations, as necessary, to meet the applicable RPS requirements and pursue transactions that benefit SDG&E's customers. Competitive bid solicitations, such as RFPs, bring together the largest possible number of market participants to make offers to buy, thus promoting market liquidity and competition. SDG&E regularly evaluates its portfolio needs to determine whether RFPs present advantages to the alternative of bilateral transactions. Through early iterations of the RPS REC sale RFP process, SDG&E identified the importance of adhering to a comprehensively developed schedule when conducting a solicitation. Deliberate planning and anticipating potential delays in the contract execution and approval processes promote meeting all objectives in a timely manner.

Sales Solicitation Documents

Attached hereto in Appendices 9-14 are SDG&E's proposed RPS Sales documents:

- Appendix 9 2021 RPS Sales RFP
- Appendix 10 2021 RPS Sales Model PPA (Bundled Product)
- Appendix 11 2021 RPS Sales Model PPA (Unbundled Product)
- Appendix 12 2021 RPS Sales Offer Form
- Appendix 13 2021 Framework for Assessing Potential RPS Sales CONFIDENTIAL⁷⁶
- Appendix 14 2021 BioRAM RPS Sales Model PPA (Bundled Product)

Assignment or Novation Description

SDG&E may also issue a contract Assignment or Novation RFP and will request approval of any resulting contract Assignment or Novation through a Tier 3 Advice Letter. Assignment and Novation are similar in concept whereby both seek to remove contract benefits and liabilities from one party and transfer those benefits and liabilities to another party. Typically, a Novation would transfer of all benefits and liabilities to a new party, whereas an Assignment may only transfer some benefits or some liabilities, or both. These transactions require all parties' consent. Specific contractual details of the transaction would be set forth in SDG&E's request for approval through a Tier 3 advice letter. D.21-05-030 orders IOUs to request approval to hold an RFI whereby the IOU would reach out to RPS counterparties to determine interest in contract assignments or modifications. The general description below could be applied, with possible refinement, to accommodate the RFI contemplated in D.21-05-030. As required by the ACR, the following is a description of the solicitation protocols:

Overview: If it is determined that selling RECs provides a greater benefit to SDG&E's customers than banking excess RPS procurement, SDG&E may explore the option of assigning or novating one or more entire RPS contracts to a third-party. Such Assignment or Novation may be done in addition to, or instead of, selling a portion of a portfolio of RPS contracts as described in Appendix 9. This process may present challenges as SDG&E would need to secure approval from the renewable facility prior to the Assignment or Novation of its contract to a third-party buyer.⁷⁷ In cases where SDG&E determines that an RFP for the Assignment or Novation of RPS contacts may be beneficial, it may begin with a small volume to build knowledge and experience over time. The contract Assignment or Novation RFP options may also present advantages to a third-party buyer, for example, portfolio fit. A third-party buyer may prefer a project

⁷⁶ Public versions of SDG&E's RPS Plan will include documents with confidential terms redacted.

⁷⁷ Note in most RPS contracts consent to an Assignment cannot be unreasonably withheld.

with a certain geographic location, delivery schedule, technology, or counterparty, and contract assignment may provide this option.

Non-Binding Process: Although SDG&E has not yet held a Contract Assignment or Novation RFP, its RPS Sales RFP process offers a framework from which to design an RFP. SDG&E envisions conducting the Contract Assignment or Novation RFP in a similar manner, and potentially in parallel with, an RPS Sales RFP. SDG&E would anticipate:

- Hiring an IE to oversee the process;
- Taking reasonable measures to ensure renewable facilities that may be assigned or novated remain informed;
- Consulting with PRG before, during and after offers are received;
- Marketing the RFP to a large group of potential Assignees;
- Publishing a clear and transparent set of RFP protocols, including an RFP document, proforma contract, and other necessary documents and/or agreements; and
- Performing an LCBF analysis to determine which bids (if any) would be beneficial for SDG&E's customers.

Following selection of winning bids (if any), SDG&E anticipates allowing both the counterparty(ies) and SDG&E ample time for due diligence and seeking consent from any project prior to the assignment of its contract to a third-party buyer. SDG&E will submit a Tier 3 Advice Letter to the CPUC for approval of any fully executed agreement(s), or a Tier 1 Advice Letter if no agreement(s) result from the RFP.

Assignment and Assumption Agreement: an "assignment and assumption" agreement transfers rights and obligations from SDG&E (as assignor) to the Assignee in the assigned contract(s). A similar agreement could be used for contract Novation. If transfer of the agreement requires compensation, either from SDG&E to the Assignee or the Assignee to SDG&E, the agreement will include such terms. Additionally, SDG&E may need to enter into an agreement with the project that describes the duties, responsibilities, and any additional compensation for the contract to be assigned.

LCBF Analysis: The LCBF analysis for a Contract Assignment or Novation would be similar to that used for SDG&E's RPS Sales RFP, and will include a comparison of the benefits of the contract Assignment or Novation to that of the benefits from banking the RECs. In addition to the factors considered in SDG&E's RPS Sales RFP, Contract Assignment or Novation RFP analysis may include parameters such as payments or credits from either the Counterparty or Project, administration cost savings, decrease in liability for SDG&E's customers, increased transaction viability, and decreased/increased counterparty risk.

B. Bid Selection Protocols

As requested in this 2021 Draft RPS Plan, D.22-01-004 authorizes SDG&E is requesting to have the option to hold an RPS procurement solicitation considering impacts of D.21 05 030 and needs identified in the IRP. Listed below are appendices related to RPS procurement. SDG&E posts information on current and historical RFOs and RFPs on its website.⁷⁸

- Appendix 5 2021 RPS Long-Term Model PPA
- Appendix 6 2021 RPS Short-Term Model PPA
- Appendix 7 2021 RPS REC Agreement
- Appendix 8 2021 LCBF
- C. LCBF Criteria

Workforce Development Assessment Proposal

A Workforce Development Assessment is included as a qualitative factor, which addresses projected California employment growth during construction and operation, within SDG&E's LCBF. The information used in this Assessment will be gathered as part of the required bid information for any solicitations which include renewable resources. The Assessment results will be qualitatively compared among all renewable resource bids within the solicitation which will inform the final bid ranking.

Assessment of Benefits to Disadvantaged Communities

In D.04-07-029, the Commission directed the use of "benefits to low income or minority communities" as a qualitative factor in the LCBF analysis. Consistent with this direction, SDG&E has applied this factor on a qualitative basis along with several other qualitative factors (see Appendix 8 for a full list). Benefits to the community are either described by the developer in the project description form or can be requested by SDG&E if not provided. The results of SDG&E's LCBF analysis (quantitative as well as any additional qualitative) are shared with the PRG and also described in the AL seeking approval for SDG&E's shortlist.

State Policies

SDG&E includes bid evaluation considerations that are policy-related and cannot be quantified in its qualitative bid review process, outlined in Appendix 8, attached hereto. These factors include equity (addressed by the Disadvantaged Communities component), the environment (addressed by environmental stewardship component), and economic development (addressed

⁷⁸ <u>https://www.sdge.com/more-information/doing-business-with-us/rfps-rfos.</u>

by the Workforce Development Assessment component). Additionally, to address the issue of safety, SDG&E has added a safety component to the qualitative portion of the LCBF process.

Information-Only TOD Factors

Pursuant to D.19-02-007, SDG&E participated in a stakeholder process to develop informationonly TOD factors, and the Commission approved SDG&E, PG&E's and SCE's May 29, 2019 Joint IOU Information-Only TOD Factor proposal ("TOD Proposal").⁷⁹ SDG&E's approved TOD Factors for 2020 and 2024 are within the Commission-approved May 29, 2019 TOD Proposal, and Appendix 3 includes workpapers to confirm there is a high correlation between the public information-only TOD factors and SDG&E's confidential forecasts, per OP 26 of D.19-12-042.

⁷⁹ D.19-12-042.

XI. SAFETY CONSIDERATIONS

Development and Operation of RPS-Eligible Generation

SDG&E is committed to providing safe, reliable and environmentally sound electric service for its customers. As discussed in Appendix 4, SDG&E's RPS Plan contemplates procurement of RPS-eligible generation through both PPAs and utility owned generation ("UOG"). SDG&E's emphasis on safety is reflected in: (i) the terms and conditions contained in the pro forma PPAs used in its various procurement programs; and (ii) the safety procedures that all contractors working on UOG facilities are required by SDG&E to follow.

RPS Procurement Activities Designed to Address Safety

There are several components to RPS procurement activities designed to address safety such as, vegetation management, climate change impacts, decommissioning facilities, and customer impacts due to Public Safety Power Shutoff ("PSPS") events which are discussed below. Additionally, SDG&E prioritizes safety and includes a safety component in SDG&E's LCBF criteria.

Vegetation Management: SDG&E is also a leader in wildfire safety and mitigation and manages approximately 460,000 trees. SDG&E has also recently begun to incorporate data science into its vegetation management, developing a Vegetation Risk Index of the highest risk trees in its service territory. SDG&E's vegetation management program is aimed at keeping trees and brush clear of electric powerlines and "involves several components including but not limited to: tracking and maintaining a database of inventory trees and poles, routine and enhanced patrolling, pruning and removing hazardous trees, replacing unsafe trees with more situationally compatible species, pole brushing, and training first responders in electrical and fire awareness."⁸⁰ SDG&E also manages an interactive map which allows customers to see when vegetation management crews are scheduled to work in their area.⁸¹

Regarding procurement activities that relate to safety, as noted above, SDG&E has fulfilled its procurement mandate for the BioRAM program, as discussed above in Section IV. SDG&E has a PPA with a 24 MW BioRAM facility in Wendel, California. SDG&E extended its BioRAM contract by 5 years in accordance with Resolution E-4977, which implements SB 901. BioRAM facilities aid in wildfire

⁸⁰ SDG&E 2020-2022 Wildfire Mitigation Plan Update (February 5, 2021) at 263 (*available at* <u>https://www.sdge.com/sites/default/files/regulatory/SDG%26E%202021%20WMP%20Update%200</u> <u>2-05-2021.pdf</u>).

⁸¹ Available at <u>https://www.sdge.com/safety/tree-safety</u>.

mitigation efforts removing dead and dying trees from high fire prone areas. This effort is also intended to support sustainable forestry.

Climate Change Impacts: The IRP is tasked with achieving the mandates set forth in SB 100 with respect to reducing greenhouse gas emissions. The efforts taking place in the IRP, which include procurement of renewable resources, will continue to help mitigate the adverse impacts of climate change.

Renewable resources paired with energy storage is one practical solution in some circumstances. Energy storage reduces GHG emissions and prevents climate change. For example, energy storage has the ability of storing solar that is produced during the day and deploying it during the evening peak. This attribute creates flexibility which enables reduced reliance on higher GHG emitting resources, thus reducing climate change impacts.

Decommissioning Facilities: SDG&E contracts with multiple renewable generators, many of which have a useful life after SDG&E's contract with the counterparty has ended. These facilities are highly regulated by the state and the federal government and must abide by regulations made by those governing bodies. SDG&E's pro forma agreements do not address decommissioning as this is a step that occurs, in many cases, after SDG&E's contract has ended. However, SDG&E expects these generators will appropriately decommission their facilities in a manner consistent with the applicable laws.

Customer Impacts During PSPS Events: SDG&E understands that, despite the safety benefits, de-energizations can cause inconveniences. Under certain conditions, SDG&E must prioritize safety by initiating a PSPS event. SDG&E has employed multiple strategies to mitigate impacts to customers and will continue to seek additional strategies in the future.⁸²

SDG&E continues to help mitigate customer impacts by creating programs for customers and exploring new opportunities, such as microgrid technology. For example, the generator grant program was initiated with the goal of providing medical baseline customers with generators that could be used during a PSPS event. This program was so successful that it was expanded in 2020. By 2022, SDG&E estimates providing 4,630 generators to customers to mitigate the impacts of PSPS.

⁸² More information can be found in the SDG&E 2020-2022 Wildfire Mitigation Plan Update (*available at* <u>https://www.sdge.com/sites/default/files/regulatory/SDG%26E%202021%20WMP%20Update%2002-05-2021.pdf</u>).

During a PSPS event there may be a need to provide support to an impacted community. SDG&E may open a Community Resource Center near the affected area if conditions prolong the estimated outage duration. At this facility, community residents will have access to water, light snacks, and a way to charge small electronic devices, as well as receive the most up-to-date information on the shut-off.

XII. CONSIDERATION OF PRICE ADJUSTMENT MECHANISMS

SDG&E acknowledges that contracts with new facilities having initial online dates occurring more than 24 months after the contract execution date can pose additional risk to customers. SDG&E has incorporated price adjustment mechanisms into some of its current contracts that are intended to alleviate some of these risks, including the following:

Price adjustment, Damages or Default for delay in Guaranteed Commercial Operation Date ("GCOD"): A lower price for a late GCOD provides additional incentive for developers to come online pursuant to the contract. However, this structure can create financing challenges if financing parties are not comfortable with the potentially lower price. It is also difficult to quantify an appropriate price adjustment amount and can lead to drawn out negotiations. A more effective remedy for missing the GCOD is to charge damages to the developer. Projects that are delayed in reaching their GCOD can avoid contract default by paying daily delay damages, which SDG&E has collected from some projects. Collections from these damages are passed on to SDG&E customers. If the GCOD is delayed beyond the maximum period for which daily delay damages are available, the project is in default and SDG&E can terminate the contract.

Capped transmission upgrade costs: Placing a cap on the amount of transmission upgrade costs (which are ultimately borne by customers) that a project can incur is an effective way to limit customer exposure to such costs. This type of cap is especially important for projects that do not yet have an executed interconnection agreement, because there is some chance that transmission upgrade cost estimates could change for these projects. The cap is set as a condition precedent to SDG&E's obligations under the PPA. If estimated upgrade costs exceed the cap, SDG&E has the right not to move forward with the PPA.

Price adjustment for higher than expected transmission upgrade costs:

Another mechanism that SDG&E has successfully incorporated into past contracts is a mechanism whereby the seller agrees to a price reduction to offset higher than anticipated costs for customer-funded transmission upgrades. Under this mechanism, the contract price would be reduced on a dollars per megawatt-hour basis commensurate with the cost of transmission network upgrades above an agreed upon cap. The price adjustment mechanism would include an upper limit on transmission upgrade costs, above which SDG&E can terminate the contract. This mechanism is similar to the cap described immediately above except, rather than giving SDG&E the right not to move forward with the PPA, it gives the developer the choice to either proceed at a reduced price equal to the amount of transmission costs above the cap, or not go forward with the PPA. If the developer chooses the lower price, that lower price acts as a funding mechanism for the additional upgrades, thereby adhering to the projected total customer costs.

Price adjustment for failure to achieve full capacity deliverability status: If a project is not deemed fully deliverable by CAISO at the time of COD, then the PPA price is reduced either through a negotiated amount, or the application of energy-only TOD factors in place of Full Capacity Deliverability Status ("FCDS") factors (for those contracts that include TOD factors) until such time as the project is deemed fully deliverable.

XIII. ECONOMIC CURTAILMENT FREQUENCY, COSTS, & FORECASTING

SDG&E's net load profile shows a pronounced shift toward an evening peak as increased solar generation has begun to offset load during SDG&E's historical peak load hours (mid-day). The shift of SDG&E's net peak into the evening hours becomes more pronounced as more renewable generation (particularly solar) is brought online, as it has over the past several years and will continue to do so as RPS penetration increases.⁸³ This shift in peak load periods leads to integration issues, specifically overgeneration, which in turn leads to an increase in economic curtailment orders and negative pricing. The CAISO, the Participating Transmission Owner or distribution operator, or the Buyer (SDG&E) can instruct a generator to curtail (take its power off the grid) to manage excess generation, minimize the effect of negative pricing, and maintain grid reliability. If negative pricing occurs, and generators are not economically curtailed, SDG&E must pay the CAISO to take this power if it is the Scheduling Coordinator for the project – it is important to address and work to mitigate this issue through the valuation and contracting processes. It should also be noted that each year brings with it more information and additional opportunity for refinement of the procurement process.

1. Factors Having the Most Impact on the Projected Increases in Incidences of Overgeneration and Negative Market Price Hours

The issue of curtailment is a result of the operational characteristics of the facilities within the renewable market.⁸⁴ These resources are as-available (i.e., they generate only when the wind is blowing or when the sunlight strikes the panel), and they are negatively affected by atmospherics which interfere with this energy production, such as cloud cover, and they are intermittent. These factors result in generation profiles that do not necessarily follow load.

2. Written Description of Quantitative Analysis of Forecast of the Number of Hours Per Year of Negative Market Pricing for the Next 10 Years

SDG&E forecasts market price profiles by calculating the net load for its service territory. Net load is defined as total customer load minus utility scale solar and wind generation per hour. By definition, when combined solar and wind generation exceeds load in a given hour, this represents a negative pricing condition. SDG&E uses hourly solar and wind profiles that represent the average of the last 3 years of generation for each resource. These hourly resource generation profiles are forecasted to continue until each individual contract ends (which may extend beyond the next ten years). The forecast is modified for any expectation of

⁸³ See the CAISO "Duck Chart" available at <u>https://www.caiso.com/Documents/FlexibleResourcesHelpRenewables_FastFacts.pdf</u>.

⁸⁴ Both those procured pursuant to the RPS program, as well as customer-side facilities that are incremental to the RPS program under existing rules, specifically net energy metered installations.

contract renewal, "blend and extend," or added solar or wind generation in the future. SDG&E may also adjust its market price profile forecast using observed recent historical price profiles or production cost modeling.

SDG&E's assessment of the planned installation of resources to meet both mandated reliability and GHG targets over the next ten year shows that solar resource additions will be primarily coupled with energy storage so that excess solar energy is utilized and shifted to the net peak or other hours of peak need. For this reason, SDG&E projects that the number of negative price hours over the next ten years will remain relatively constant and will not continue to increase as additional solar is added. Behind the meter solar is also increasingly being coupled with storage for the same reason. The value of new solar resources is no longer to provide peak reliability, since solar has shifted the peak to later in the day, but to provide a clean fuel source for storage which can then provide a significant, clean, reliability contribution.

3. Experience With Managing Exposure to Negative Market Prices and/or Lessons Learned from Other Retail Sellers

SDG&E manages its exposure to negative market prices by having the flexibility to reduce generation when needed. SDG&E's flexibility is the result of negotiating its ability to economically curtail its contracts for renewable generation and using economic bids for its entire dispatchable generation portfolio. Because the CAISO implemented its tariff revisions on May 1, 2014, SDG&E has acted to minimize customer exposure by economically curtailing facilities with which it has this contractual right. These instances have generally followed the same sequence of events: (a) as facility Scheduling Coordinator, SDG&E economically bids energy from a facility into the market; (b) a negative pricing event occurs; (c) the CAISO instructs the facility that was economically bid by SDG&E to dispatch down (curtail); and (d) the facility responds to the extent possible. These actions protected customers by reducing the negative pricing payments made to the CAISO, but SDG&E's ability to curtail its current portfolio is limited by several factors: (a) a few of SDG&E's existing RPS contracts do not contain economic curtailment rights (however, as mentioned below, SDG&E has renegotiated many of its contracts to minimize adverse impacts on customers and continues to negotiate economic curtailment rights to the few remaining contracts); (b) some contracts have operating restrictions which impact their ability to respond immediately to an economic curtailment order; and (c) (where the contract contains economic curtailment rights) SDG&E's ability to economically curtail is limited in some cases to 5 percent of a facility's annual deliveries. SDG&E continues to work with the counterparties to reduce the number of cases where these limitations apply, and to obtain greater rights through contract amendments where the counterparty is willing to amend an existing contract.

D.14-11-042 approved SDG&E's RPS PPA modifications which allow for uncapped economic curtailment rights and require that the generator install the software necessary to receive, respond, and implement a dispatch notice/curtailment order.⁸⁵ That Decision also provided for the incorporation of several provisions allowing payment to the generator for the economically curtailed generation (*i.e.*, what could have been generated but for the economic curtailment). These changes have bolstered grid management efforts and forecasting and provided customer benefits. First, requiring facilities to be equipped to respond to a curtailment order will assist the CAISO in complying with the North American Electric Reliability Corporation ("NERC") reliability standards. Second, this increased ability to manage excess generation could help reduce the incidence of negative pricing events overall, which provides a general benefit to all customers in the State. Third, uncapped economic curtailment will allow SDG&E to better manage the incidence of negative pricing payments made to the CAISO, which also is beneficial to SDG&E's customers.

With respect to the valuation component, the Commission adopted an interim renewable integration cost adder,⁸⁶ which has been incorporated into SDG&E's LCBF calculation attached hereto as Appendix 8. The final adder will be incorporated into the LCBF calculation to enhance its effectiveness in identifying projects with the lowest cost in consideration of the cost of integration. The goal of these changes is to reduce the incidence of curtailment and/or negative pricing. SDG&E looks forward to participating in this process and in the revision of the LCBF calculation as a whole.

4. Direct Costs Incurred, to Date, for Incidences of Overgeneration and Associated Negative Market Prices

SDG&E has been tracking its curtailment actions and results since 2014. Based on data available to date, its curtailment activities have resulted in significant cost savings for SDG&E customers. SDG&E will continue to track this data and report on it as appropriate. SDG&E had a direct cost impact of approximately \$17.5 Million between 2014 to 2020 from incidences of overgeneration and associated negative market prices. This impact was measured by the amount SDG&E paid to the CAISO for generating during times of negative prices, for all SDG&E's resources. The majority of the costs came between 9:00 am and 3:00 pm during the spring months.

⁸⁵ Required software: The Automated Dispatch System ("ADS") and the Application Programming Interface ("API"). *See* D.14-11-042 at 38.

⁸⁶ D.14-11-042 at 53.

5. An Overall Strategy for Managing the Overall Cost Impact of Increasing Incidences of Overgeneration and Negative Market Prices

To manage the overall cost impact of negative prices going forward, SDG&E will continue renegotiation of dispatch down, scheduling and curtailment provisions of existing RPS contracts. Negative prices affect not just renewable generating resources, but all generating resources. SDG&E mitigates the impact of negative prices to its ratepayers by economically bidding its dispatchable resources to the CAISO. To the extent SDG&E submits cost-based bids reflecting variable costs, it allows the CAISO to reduce generation from SDG&E's resources when they are not needed or uneconomic. Thus, when feasible, SDG&E's resources will have limited generation during incidences of overgeneration.

Energy Storage

Initiatives undertaken outside of the RPS proceeding also have the potential to assist in the management of intermittent generation and the resulting economic curtailment and negative pricing – specifically, the addition of flexible capacity and energy storage resources to the grid has the capability to absorb renewable energy in times of excess for later use. Please see section IV-B for more information on energy storage.

XIV. COST QUANTIFICATION

The tables attached hereto in Appendix 2 provide an annual summary through 2030 of both actual and forecasted RPS procurement costs and generation, by technology type, as of June 2021.

XV. COORDINATION WITH THE IRP PROCEEDING

SB 350 added a provision to the Public Utilities Code directing the Commission to implement a holistic IRP process. IRP is a wide-ranging effort at the Commission, undertaken along with input from the CEC and CARB, that would combine the numerous planning processes currently undertaken in separate, resource-specific cases into a single regulatory forum. The IRP process reviews the entire portfolio of resource options to ensure that load-serving entities will achieve the targets established by CARB related to GHG emission reductions, while also ensuring reliability and affordability.

However, as of now, RPS procurement remains a composite of several different and separate procurement programs and targets, each with its own history and set of Commission directives. As described above, these RPS programs do not necessarily address a customer need for additional RPS procurement on a program-by-program basis. Nor do these programs take into consideration their cost-effectiveness compared to other resources, including RPS resources. Further, the RPS program-specific approach of the past does not factor in grid implications in the broader context. Nonetheless, each of these major, omitted elements is necessary to ensure that electricity customers receive the least-cost best-fit resources that are reliable and cost-effective.

SDG&E recommends that, for the benefit of the State's electricity consumers, that the Commission fully utilize the IRP process to create a sea-change away from siloed, projectspecific RPS and reliability procurement and towards the statutorily mandated framework of considering first, consumers' needs and then considering all available resources on a comparative basis to meet those needs, consistent with applicable laws and regulations. In large part, the RPS proceeding should implement RPS procurement determinations made in the upstream IRP proceeding, rather than in isolation of that proceeding, which is currently the case. The benefits of removing the longstanding and outdated RPS program-by-program approach to RPS procurement and fully embracing the IRP mechanism will inure to customers. SDG&E will continue to urge the Commission to accelerate these efforts.

Regarding coordination, the Commission expects that the IRP and RPS Plans will begin to align starting in the 2021-2022 IRP cycle.⁸⁷ The table below summarizes how SDG&E's 2021 RPS Plan and renewable procurement conforms with the determinations made in the IRP Proceeding.

⁸⁷ ACR at 31.

| IRP Section Subsection | RPS Alignment in IRPs |
|--|--|
| III. Study Results A. Preferred and Conforming Portfolios | SDG&E's 2020 IRP contemplates no resource need for SDG&E due to its long position and considering load departure. However, the most recent PCIA Decision, D.21-05-030, orders SDG&E to reduce its portfolio which creates uncertainty. At the same time, the IRP Mid- Term Procurement Decision orders SDG&E to procure 361 MWs- ⁸⁸ -, 31 <u>MWs of which may count towards SDG&E's RPS procurement</u> requirements. ⁸⁹ |
| IV. Action Plan A. Proposed Activities | The 2017-2018 cycle of the IRP resulted in a Procurement Track Decision whereby SDG&E is required to procure for its bundled customers, and on behalf of other LSEs in its service territory, that opt out or fail to procure their mandated procurement volume. ⁹⁰ RPS resources were eligible resources within the IRP Procurement Track solicitation and ultimately, SDG&E selected primarily battery storage resources and a hybrid solar/battery resource. |
| | The Commission issued its IRP Mid-Term Procurement Decision and SDG&E is responsible for 361 MWs -, some of which may be RPS <u>eligible.</u> |
| | While SDG&E's individual IRP, filed in 2019, shows no need for new procurement, the Commission is grappling with methodologies that assess individual LSE reliability needs. The Commission's analysis is still under development, and as such, SDG&E expects it will procure eligible resources contemplated for mid-term reliability needs, which may or may not-include eligible renewable resources. |
| | The next cycle of the IRP will have more information related to portfolio optimization progress as ordered in the Portfolio Optimization Decision. Depending on the volume of RPS allocated or sold, and any changes to the GHG reduction targets, SDG&E may have a future need for resources. |
| IV. Action Plan | Per D.19-11-016 the Commission ordered procurement within the IRP |
| B. Procurement Activities | for the purpose of ensuring reliability and allocated amounts to LSEs across the state. SDG&E was ordered to procure 292.9 MWs of the |

⁸⁸ See Footnote 4, supra.

⁹⁰ D.19-11-016.

⁸⁹ See Footnote 4, *supra*.

| IRP Section Subsection | RPS Alignment in IRPs |
|---|--|
| | total amount. The Commission also ordered IOUs to procure on behalf of LSEs that "opt-out" of procurement. As the result of "opt-out" decisions by LSEs in its service territory, SDG&E was required to procure an additional 8.4 MW, for a total SDG&E procurement obligation of 301.3 MW. On January 14, 2021, the CPUC partially approved AL 3605-E in Resolution E-5117 for 144 MW of capacity expected to come online by August 1, 2021. The Commission denied 20 MWs of utility owned battery storage which was later included in procurement undertaken in the Summer Reliability OIR. SDG&E submitted AL 3689 -E and AL 3689-E-A which are approved effective March 18, 2021. SDG&E submitted AL-3666 requesting approval of 140 MWs which was approved in Resolution E-5139. As discussed above, the Commission has identified a mid-term need, and ordered SDG&E to procure 361 MWs, which may or may not include renewable resources. SDG&E is currently administering the RFO for this IRP MTR procurement Order. |
| IV. Action Plan C. Potential Barriers | In its Conforming portfolios which assumed no allocation of the supply portfolio, SDG&E reported it has no near-term or long-term procurement need to satisfy requirements of the RPS program and does not intend to procure to meet RPS through the IRP. Therefore, since SDG&E has no need to procure RPS, RPS resource online dates are not at issue here. However, the IRP recently issued its IRP Mid-Term Procurement DecisionMTR procurement Order that ordered significant procurement within an aggressive timeline, including, potential resources that are RPS eligible. Additionally, the Portfolio Optimization Decision creates uncertainty with respect to the volume of RPS SDG&E will allocate or sell. Also, the RFI could also result in a reduction to SDG&E's portfolio. Because of these possibilities, and the need identified in the IRP, SDG&E is addressing this uncertainty by requesting the authorized to have an option to hold an RPS solicitation in the 2021 RPS Plan cycle. |
| | Regarding retirement of RPS resource in SDG&E's portfolio, SDG&E's conforming portfolios do not identify an RPS need after those resources are removed from the analysis at the time they are ending. |

XVI. OTHER RPS PLANNING CONSIDERATIONS AND ISSUES

SDG&E has no additional considerations and issues to discuss at this time and reserves the right to add to this section in subsequent versions of its RPS Plan as circumstances warrant.