Application of SAN DIEGO GAS & ELECTRIC COMPANY (U 902 E) For Authority To Offer an Economic Development Rate.

Application: 17-02-____ Exhibit No.:

PREPARED DIRECT TESTIMONY OF

TODD J. CAHILL

CHAPTER 1

ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION

OF THE STATE OF CALIFORNIA

February 24, 2017



TABLE OF CONTENTS

| I. | OVE | RVIEW AND PURPOSE1 |
|-------|------|---|
| II. | SDG& | &E RATEPAYERS WILL BENEFIT FROM EDR OPTIONS3 |
| | А. | EDR Options Promote California's Economy and Mitigate the High Cost of Doing Business in California |
| | В. | The San Diego Region Needs EDR Options to Develop Its Economy and Remain Competitive Statewide |
| | C. | SDG&E's Enhanced EDR Proposal Is Supported by an Economic Development Study of the San Diego Region |
| | | 1. The Study Identified Industry Segments Where the Enhanced EDR Option Would Provide the Greatest Economic Development Benefits to SDG&E Customers |
| | | 2. Comparing Local Unemployment Rates with a Statewide Average would not be Useful to Determine Enhanced EDR Eligibility in SDG&E's Service Territory, and Would Not Provide the Same Ratepayer Benefits as SDG&E's Proposal |
| III. | SDG& | &E'S EDR PROPOSAL14 |
| IV. | ADM | INISTRATION OF THE EDR PROGRAM16 |
| | А. | Basic Eligibility Criteria16 |
| | B. | Program Cap 17 |
| | C. | Application Process17 |
| | D. | Safeguards Against Potential Free-Ridership18 |
| | E. | Reporting Requirements |
| | F. | Demand Side Management ("DSM")-Related Measures |
| | G. | Rate Treatment 20 |
| V. | CON | CLUSION |
| VI. | STAT | TEMENT OF QUALIFICATIONS21 |
| VII. | | ENDIX A—ENHANCED DEVELOPMENT RATE ECONOMIC ACT STUDY |
| VIII. | APPE | ENDIX B—LETTERS OF SUPPORT |

| 1 | PREPARED DIRECT TESTIMONY OF |
|----|---|
| 2 | TODD J. CAHILL |
| 3 | (CHAPTER 1) |
| 4 | I. OVERVIEW AND PURPOSE |
| 5 | My testimony supports San Diego Gas & Electric Company's (SDG&E) proposal to |
| 6 | establish Economic Development Rate (EDR) options that will help retain commercial and |
| 7 | industrial business customers, expand operations, and attract new customers into our region. |
| 8 | This proposal is similarly structured to the EDRs approved by the California Public Utilities |
| 9 | Commission (Commission) for Pacific Gas and Electric Company (PG&E) and Southern |
| 10 | California Edison Company (SCE) in Decisions (D.) 13-10-019 and D.15-04-006, respectively. |
| 11 | In sum, my testimony supports SDG&E's proposal to offer its customers the following EDR |
| 12 | options: |
| 13 | • A Standard EDR, which equates to a five-year discount of 12% off of an eligible |
| 14 | EDR customer's total monthly bill; |
| 15 | • An Enhanced EDR, which provides a five-year discount of 20% off of the total |
| 16 | monthly bill for a Standard-eligible EDR customer within certain industry |
| 17 | segments; |
| 18 | • Additional discounts for Enhanced-eligible EDR customers, bringing the total |
| 19 | discount up to 30% off an eligible customer's total monthly bill, when providing |
| 20 | additional community value-added features: |
| 21 | Participation in Energy Efficiency; |
| 22 | Participation in Demand Response; |
| 23 | • Locating, remaining, or expanding in an area with unemployment 110% |
| 24 | of the state unemployment rate; or |
| | |

TC - 1

Locating in a building that has been vacant for more than 18 months.
To be eligible for either the Standard or Enhanced rate, EDR applicants must declare, under
penalty of perjury, that they would either move their existing operations outside of California or
would close their business altogether, "but for" the electric rate discount provided by the EDR
tariff option. Thus, each type of EDR is designed to retain, attract, or expand load in California
that otherwise would be lost.

For the Enhanced EDR specifically, my testimony supports SDG&E's proposal to adopt unique eligibility criteria, which are designed to strategically link the Enhanced EDR offering to eligible businesses that are expected to produce the greatest economic development benefits to the San Diego region through increased tax revenue and job creation. Specifically, SDG&E requests approval to offer an Enhanced EDR benefit for business customer segments that have been identified as having a significant impact on the local economy, through job and wage growth and increased gross regional product.

14 To develop this proposal, SDG&E engaged a team of San Diego State University (SDSU) 15 Master of Business Administration (MBA) students (the Study Team) to conduct a study of 16 industries in San Diego and to develop a framework identifying the key economic drivers and 17 high performing industries within our region. The resulting report from this effort, the SDSU "Enhanced Development Rate Economic Impact Study" (the Study),¹ identified two industry 18 19 segments that provide the greatest comprehensive benefits to the San Diego region, in terms of 20 employment, Gross Domestic Product (GDP), and average wage: (1) Manufacturing, and (2) 21 Professional, Scientific, and Technical Services (PST). SDG&E therefore proposes to offer its 22 Enhanced EDR to Standard-eligible businesses within those two industry categories. My 23 testimony describes the Study's support for this proposal and explains why using a comparison

¹ The Study is attached as Appendix A to this testimony chapter.

with California's average unemployment rate would not be useful for determining Enhanced
 EDR eligibility in SDG&E's service territory, as the Commission has adopted for PG&E and
 SCE's Enhanced EDR options, and would not provide the same ratepayer benefits as SDG&E's
 proposal.

My testimony below describes, in turn: (1) how all ratepayers will benefit from both
Standard and Enhanced EDR options in the SDG&E service territory, including a description of
the Study providing specific support for SDG&E's Enhanced EDR proposal; (2) how SDG&E's
Standard and Enhanced EDR proposals are designed; and (3) how SDG&E proposes that its
Standard and Enhanced EDRs will be administered. My testimony also sponsors the Study,
attached as Appendix A; and letters of support from various San Diego regional economic
development councils and industry advocates, attached as Appendix B.

12

II. SDG&E RATEPAYERS WILL BENEFIT FROM EDR OPTIONS

The Standard EDR and Enhanced EDR options are needed for SDG&E's commercial and industrial customers for many reasons. The Commission has recognized the numerous benefits created with the ability to offer EDR options to utility customers, because, "on balance, it is better to have a large commercial or industrial customer who pays the marginal costs of receiving services, and pays [non-bypassable charges], than no customer at all - particularly when that ratepayer provides jobs for [a utility's] ratepayers."² My testimony below explains how:

24

• The Standard and Enhanced EDR options proposed here will promote California's economy and mitigate the relatively high cost of doing business in this state;

• SDG&E's Standard and Enhanced EDR options are needed to allow the San Diego region to provide economic development opportunities on par with PG&E and SCE's service territories; and

² D.13-10-019 at 8.

SDG&E's Enhanced EDR proposal is designed specifically to maximize ratepayer benefits, as supported by an economic development study of the San Diego region.

A.

EDR Options Promote California's Economy and Mitigate the High Cost of **Doing Business in California.**

SDG&E recognizes the importance of retaining, expanding and increasing its commercial and industrial customer base in support of the economic and social welfare of California and our region. And, as the Commission has recognized, a well-constructed EDR program can be an effective tool that benefits California's economy.³ EDRs help the regional economy by increasing the number of jobs, tax revenue, and overall regional vitality, therefore benefiting all customers. The Commission has recognized that EDRs have "direct and indirect benefits to customers," that EDRs contribute to "increased employment opportunities and improved overall local and economic vitality," and that EDRs "increas[e] the revenues available to contribute to the utilities' fixed costs of doing business, thus lowering rates to other customers."⁴ Additionally, "[1]ocal communities benefit from the economic multiplier effect, resulting from local spending by newly employed, or continuously employed, workers where the businesses locate."⁵ All SDG&E customers also benefit because EDRs are designed to maintain or increase the customer base and maintain or reduce the system average rate, by spreading fixed costs over a larger kilowatt-hour base. The Commission has recognized this "indirect benefit," noting that an increased economic base results in "the more complete use of the utilities' transmission and distribution facilities which further reduces rates."⁶ In a period of declining sales, as SDG&E 21

- ³ Id. at 39, Finding of Fact (FOF) 6.
- ⁴ *Id.* at 16-17.
- ⁵ *Id.* at 17.
- ⁶ *Id.* at 16-17.

has experienced recently,⁷ maintaining and increasing SDG&E's customer base becomes even 1 2 more important to keeping rates low for all customers.

3 EDR options help individual business customers to mitigate the less favorable realities of locating business in California, such as an average retail price of electricity that ranks as one of 4 the highest in the country.⁸ Energy cost is one factor that, when added to other relatively high 5 non-utility related expenses, makes the cost of locating business in California substantially 6 higher than the national average.⁹ In my experience as Director of Business Services for 7 8 SDG&E, energy prices are a key consideration when companies are considering relocation or 9 expanding operations. This is consistent with the Commission's finding that "[e]nergy costs are a key factor in where some businesses decide to locate,"¹⁰ in approving PG&E's EDR. In my 10 professional opinion, the high cost of doing business in SDG&E's service territory has a negative 11 impact on the region's ability to attract and retain high-paying manufacturing jobs, which is also 12 consistent with the Commission's findings regarding the California business climate as a 13 whole.11 14

15 California recognizes the need for continued economic development incentives through the California Competes Tax Credit, the California Small Business Loan Guarantee Program, 16 and relocation and expansion services.¹² And, California Public Utilities (P.U.) Code Section 17 18 740.4(a) provides that the Commission shall authorize public utilities to engage in programs to

TC - 5

⁷ See A.15-04-012, Phase 2 of SDG&E's General Rate Case (GRC), Exhibit SDG&E-14 (Rebuttal Testimony of Kenneth E. Schiermeyer, dated August 30, 2016) at KES 10, Line 19 through KES 11, Line 10.

⁸ http://www.eia.gov/electricity/state/ (last visited February 24, 2017).

⁹ August 12, 2014, California Foundation for Commerce & Education (by Andrew Chang and Company, LLC), "The Cost of Doing Business in California," pp. 5, 6, 8, 29-30, at http://cfce.calchamber.com/wpcontent/reports/CFCE-Cost-of-Doing-Business-in-California.pdf (last visited February 24, 2017). ¹⁰ D.13-10-019 at 38, FOF 4.

¹¹ D.13-10-019 at 38, FOF 3 ("The high cost of doing business in California is having a negative impact on the State's ability to attract and keep high-paying manufacturing jobs.")

¹² http://www.business.ca.gov/Programs/CaliforniaCompetesTaxCredit (California Competes Tax Credit); http://businessportal.ca.gov/Business-Assistance/Financing-a-Business (California Small Business Loan Guarantee Program); http://www.business.ca.gov/Programs/Business-Investment-Services/Business-Investment-Services ((relocation and expansion services) (last visited February 24, 2017).

encourage economic development. In addition, P.U. Code 740.4(c) defines economic
 development activities to include industrial and commercial expansion and relocation assistance,
 and business retention and recruitment. SDG&E's EDR offering is consistent with this
 California policy and contributes to a holistic approach to economic development for California
 and San Diego.

6

7

B.

The San Diego Region Needs EDR Options to Develop Its Economy and Remain Competitive Statewide.

8 Beyond promoting the statewide economy, SDG&E's ability to offer an EDR will allow 9 the San Diego region to compete for business on par with the Los Angeles and San Francisco 10 regions. Currently, PG&E and SCE both have EDR offerings, which provide their regions with a 11 competitive advantage in California for attracting new businesses. SDG&E has no EDR 12 offering. In my experience working with local Economic Development Councils (EDCs) to help 13 attract and retain companies within our service territory, businesses ask about the availability of 14 an EDR offering when considering opportunities in the San Diego region. The lack of an EDR 15 offering in SDG&E's service territory is viewed unfavorably in comparison with PG&E's and 16 SCE's service territories, in my opinion. The letters of support from San Diego regional 17 economic development councils and industry advocates, attached as Appendix B, are consistent 18 with this conclusion. Although there is no data showing the exact amount of lost business due to 19 this discrepancy, it is reasonable to assume that denying SDG&E customers the same type of 20 EDR offerings impacts the San Diego region's ability to compete in retaining existing businesses 21 and gaining new business opportunities.

Moreover, although California and San Diego have rebounded somewhat from the
prolonged economic slump of the recent recession, there is still a need for economic
development in San Diego. A recent study suggests that San Diego was hit harder by the
recession than similar-sized peer cities and continues to compare low in terms of job growth and

TC - 6

high in terms of unemployment.¹³ And a recently published article by the National University 1 2 System Institute for Policy Research suggests that San Diego is expected to continue trailing behind California in terms of GDP growth.¹⁴ Another study shows that poverty rates have 3 worsened in San Diego, in recent years.¹⁵ These are all indications that the San Diego region 4 needs the same type of economic development opportunities offered via EDR options in PG&E's 5 and SCE's service territories. 6

7 8

SDG&E's Enhanced EDR Proposal Is Supported by an Economic С. **Development Study of the San Diego Region.**

9 As described below, the Study results identified two industry segments that provide the 10 greatest comprehensive benefits to the San Diego region, in terms of employment, GDP, and 11 average wage: (1) Manufacturing, and (2) Professional, Scientific, and Technical Services 12 (PST). SDG&E therefore proposes to offer its Enhanced EDR to Standard-eligible businesses 13 within those two industry categories. I also describe reasons why using a comparison with California's average unemployment rate would not be useful for determining Enhanced EDR 14 15 eligibility in SDG&E's service territory, and would not provide the same ratepayer benefits as 16 SDG&E's proposal.

17 18 1.

19

20

The Study Identified Industry Segments Where the Enhanced EDR **Option Would Provide the Greatest Economic Development Benefits** to SDG&E Customers.

The Study Team's objective was to "ascertain through research and analysis the

21 industries that would have the greatest positive economic impact on SDG&E's service area were

¹⁴ San Diego 2016 Economic Outlook: Middling Along Amidst National, State, and Local Concerns, pp. 1, 6, at http://www.nusinstitute.org/assets/resources/pageResources/Forecast 2016.pdf (last visited February 24, 2017).

¹³ January 2016, San Diego Regional Economic Development Council, "Talent – Where San Diego Stands: A Comparison of US Metros," p. 16, at http://www.sandiegobusiness.org/sites/default/files/ Talent San Diego 2016.pdf?platform=hootsuite (last visited February 24, 2017).

¹⁵ January 2016, National University System Institute for Policy Research, "Concentrated Poverty in San Diego," Key Findings listed in Policy Brief summary, at http://nusinstitute.org/Research/Briefs/ Concentrated-Poverty-in-San-Diego-County.html (last visited February 24, 2017).

they provided an enhanced EDR,^{"16} for purposes of attracting, retaining and expanding those
industries. The Study Team used data from the Bureau of Labor and Statistics, the U.S. Census
Bureau, the San Diego EDC, and other EDCs; and categorized the data by North American
Industry Classification System (NAICS) codes. The Study Team then analyzed the economic
drivers and metrics, identified the factors related to economic growth in San Diego, and
compared their results with data supplied by the EDCs to confirm unbiased accuracy.¹⁷

7 The Study Team identified three key economic indicators for the San Diego region (direct employment, contribution to gross regional product, and average wage),¹⁸ determined a 8 9 ranking of industries contributing to each indicator, and then identified the top industry sectors 10 contributing to each indicator. The Study Team then identified which sectors contribute the most 11 to the San Diego economy by comparing results across all three indicators and weighting the value of each indicator equally. Using this methodology, the Study concluded that two industry 12 segments currently provide the most economic growth in the San Diego region, across all 13 14 indicators: (1) Manufacturing, and (2) PST.

The Study Team's identification of Manufacturing and PST as high-impact industry
segments is consistent with feedback SDG&E has received from San Diego's local EDCs.
Additionally, a recent San Diego Association of Governments (SANDAG) study highlighted the
importance of the Manufacturing and PST segments to the San Diego economy, because they
contain sub-segments that tend to add "recession-proof" jobs.¹⁹ And a recent National

¹⁶ Appendix A at 8.

¹⁷ Appendix A at 8.

¹⁸ Appendix A at 10.

¹⁹ "SANDAG Info, Traded Industry Clusters in the San Diego Region: 2016 Data Update," pp. 5, 9, 10 (Table 2), *at* http://www.sandag.org/uploads/publicationid/publicationid_2017_20489.pdf (last visited February 24, 2017).

University System Institute for Policy Research study suggested that both segments are among
 the top "real" GDP contributors for our region.²⁰

3 Based on the Study's results, SDG&E proposes an Enhanced EDR rate for EDR-eligible businesses in the Manufacturing and PST industries, identified according to NAICS codes within 4 5 Census Bureau data. Understanding that these results may adjust over time, SDG&E proposes to utilize the framework established by the Study to analyze new data and update the results 6 7 annually. Providing an effective tool to address concerns about the cost of doing business, such as the EDR program, can help keep businesses operating in California, as well as potentially 8 9 attract new businesses to California. The reason to limit the Enhanced EDR to the industry 10 segments identified above, as opposed to opening to all industries, is to strategically link the 11 benefit to those who will produce the greatest return and benefit to the region through increased 12 tax revenue and job creation. Table TC-1 below lists the various industry segments in the San Diego Region and their respective contributions to the Region's GDP, jobs, and wages, as 13 14 determined by the Study.

15 //

16 //

²⁰ San Diego 2016 Economic Outlook, pp. 8-9, *at* http://www.nusinstitute.org/assets/resources/page Resources/Forecast_2016.pdf (last visited February 24, 2017).

TABLE TC-1²¹

| | GD |)P | | Jobs | % | A١ | vg Wage | % |
|---|----|--------|-----|---------|-----|----|-----------|-----|
| Sectors | | | | | | | | |
| Manufacturing | \$ | 20,471 | 12% | 99,673 | 8% | \$ | 6,329,071 | 22% |
| Professional, scientific, and technical services | \$ | 21,092 | 12% | 134,773 | 11% | \$ | 2,844,790 | 10% |
| Real estate and rental and leasing | \$ | 42,823 | 25% | 29,373 | 2% | \$ | 952,204 | 3% |
| Retail trade | \$ | 10,800 | 6% | 150,398 | 12% | \$ | 1,852,331 | 6% |
| Health care and social assistance | \$ | 11,220 | 7% | 155,862 | 13% | \$ | 1,602,875 | 6% |
| Wholesale trade | \$ | 9,523 | 6% | 61,662 | 5% | \$ | 3,575,232 | 12% |
| Accomodation and Food Service | \$ | 6,484 | 4% | 158,290 | 13% | \$ | 302,671 | 1% |
| Finance and insurance | \$ | 8,800 | 5% | 53,390 | 4% | \$ | 2,121,150 | 7% |
| Construction | \$ | 7,148 | 4% | 63,731 | 5% | \$ | 1,697,356 | 6% |
| Administrative and support and waste management and remediation services | \$ | 5,765 | 3% | 96,501 | 8% | \$ | 1,672,119 | 6% |
| Other services (except public administration) | \$ | 4,114 | 2% | | 5% | | 1,612,812 | |
| Educational services | \$ | 2,120 | 1% | 31,351 | 3% | \$ | 592,903 | 2% |
| Information | \$ | 6,977 | 4% | 32,213 | 3% | \$ | 1,245,985 | 4% |
| Arts, entertainment, and recreation | \$ | 2,164 | 1% | 33,813 | 3% | \$ | 597,984 | 2% |
| Transportation and warehousing | \$ | 2,066 | 1% | 24,022 | 2% | \$ | 1,250,508 | 4% |
| Management of companies and enterprises | \$ | 3,657 | 2% | 23,500 | 2% | \$ | 179,853 | 1% |
| Utilities | \$ | 2,872 | 2% | 6,092 | 1% | \$ | 78,363 | 0% |
| Agriculture, forestry, fishing and hunting | \$ | 720 | 0% | 598 | 0% | \$ | 218,159 | 1% |
| Mining, quarrying, and oil and gas extraction | \$ | 333 | 0% | 367 | 0% | \$ | 114,462 | 0% |

2. Comparing Local Unemployment Rates with a Statewide Average would not be Useful to Determine Enhanced EDR Eligibility in SDG&E's Service Territory, and Would Not Provide the Same Ratepayer Benefits as SDG&E's Proposal.

In developing its Enhanced EDR proposal, SDG&E examined the feasibility of adopting

the same eligibility criteria as adopted for PG&E and SCE. Both PG&E and SCE offer an

Enhanced EDR option (of 30% off the monthly bill) to customers meeting the eligibility

requirements of the Standard EDR and are located in California cities or counties with

unemployment rates that are 125% or more of the previous year's statewide average

12 unemployment rate. However, for various reasons discussed below, adopting the same eligibility

13 requirements for SDG&E's service territory would not be useful in developing an Enhanced

14 EDR program with meaningful economic development benefits for the San Diego region.

2

²¹ Data from Appendix A, pp. 20-21, Table 5 and Figure 8.

1 *First*, San Diego is unique in its size, geography, regional economy and infrastructure, 2 such that comparing unemployment in a particular city to the statewide average may not be 3 indicative of the economic health of the region. For example, as noted above, San Diego is considered to have been hit harder by the recent recession than similar-sized peer cities.²² 4 5 However, if PG&E's and SCE's Enhanced EDR eligibility criteria were applied in San Diego during the height of the most recent recession, there would still be only two cities that would 6 have qualified: Imperial Beach and National City.²³ And only one city would currently qualify: 7 Imperial Beach, as shown below in Table TC-2. The state unemployment average may be more 8 9 heavily influenced by hard-hit counties and cities outside of the San Diego region; however, this 10 should not justify denying the benefits of Enhanced EDR options to SDG&E customers. 11 Second, the SDG&E service territory is relatively small in comparison with the PG&E 12

13

14

15

16

and SCE service territories, and is highly connected with an extensive highway system, which facilitates travel between regions for work. Thus, for SDG&E's service territory, increased job offerings in *any* city could help improve unemployment and economic development throughout the whole region. This is likely not the case in larger service territories, with decreased connectivity and increased travel times between cities.

Third, through my experience in working with the San Diego EDCs,²⁴ I understand that
the San Diego region experiences much greater *total numbers* of unemployed people in cities
with low unemployment ratios, compared with cities that have high unemployment ratios. This
is demonstrated in Table TC-2 below, showing the monthly labor force data for the San Diego

²² January 2016, San Diego Regional Economic Development Council, "Talent – Where San Diego Stands: A Comparison of US Metros," p. 16, *at* http://www.sandiegobusiness.org/sites/default/files/ Talent_San_Diego_2016.pdf?platform=hootsuite (last visited February 24, 2017).

²³ In 2011, 125% of the average statewide employment rate was 15%. Only Imperial Beach (at 16%) and National City (at 19%) would have met the criteria at that time. See data available at State of California Employment Development Department, *Unemployment Rate and Labor Force, at*

http://www.labormarketinfo.edd.ca.gov/data/unemployment-and-labor-force.html (last visited February 24, 2017).

²⁴ San Diego Region EDC, San Diego North EDC, San Diego East County EDC, and South County EDC.

| 1 | region as of December 2016. For example, Table TC-2 shows that El Cajon and Imperial Beach |
|----|--|
| 2 | experience high unemployment (at 6.0% and 6.5%, respectively), their combined <i>total number</i> of |
| 3 | unemployed workers (at 3,600) is more than seven times less than the City of San Diego (with |
| 4 | 28,000 unemployed). Table TC-2 also shows that Chula Vista and the City of San Diego |
| 5 | experience large total numbers of unemployed people (6,400 and 28,000), but neither city would |
| 6 | be eligible for Enhanced EDR options using the unemployment rate model adopted for PG&E |
| 7 | and SCE. Moreover, both cities host key industry for the region. In contrast, El Cajon and |
| 8 | Imperial Beach experience relatively low total numbers of unemployed people (at 2,800 and |
| 9 | 800), but are the only two cities that approach an unemployment rate of 125% of the statewide |
| 10 | average (at 6.0% and 6.5%). And, as noted above, increasing job offerings in Chula Vista or San |
| 11 | Diego would positively impact employment opportunities (and the unemployment rates) in El |
| 12 | Cajon and Imperial Beach, because workers can and do travel easily between these areas. |
| 13 | // |

14 //

| Monthly Labor Force Data for Cities and Census Designated Places (CDP) | | | | | | | | | | |
|--|---------|---------|--------|-------|-------------|--------|--|--|--|--|
| December 2016 - Preliminary | | | | | | | | | | |
| Data Not Seasonally Adjusted | | | | | | | | | | |
| | | | | | | | | | | |
| Labor Employ- Unemployment Census Ratios Area Name Force ment Number Rate Emp Unemployment | | | | | | | | | | |
| Area Name | Force | ment | Number | | | Unemp | | | | |
| California | | | | | 125% of CA | | | | | |
| San Diego County | 1579400 | 1513900 | 65600 | 4.2% | 1 | 1 | | | | |
| | | | | 1.00/ | | | | | | |
| Bonita CDP | 6800 | 6500 | 300 | 4.2% | 0.0042735 | | | | | |
| Bostonia CDP | 7700 | 7300 | 400 | 5.1% | 0.0047986 | | | | | |
| Carlsbad city | 54600 | 52500 | 2000 | 3.7% | 0.00.00000 | | | | | |
| Casa de Oro Mount Helix CDP | 9800 | 9300 | 500 | 5.1% | 0.00614373 | | | | | |
| Chula Vista city | 121800 | 115500 | 6400 | | 0.07626433 | | | | | |
| Coronado city | 8900 | 8700 | 200 | 2.4% | 0.0007.0000 | 0.0032 | | | | |
| Del Mar city | 2600 | 2600 | 0 | | 0.00173971 | 0.0002 | | | | |
| El Cajon city | 46500 | 43700 | 2800 | | 0.02887988 | 0.0425 | | | | |
| Encinitas city | 33500 | 32400 | | | 0.02138011 | | | | | |
| Escondido city | 70000 | 67100 | 2900 | 4.2% | 0.0 | | | | | |
| Fallbrook CDP | 13400 | 12800 | 600 | | 0.00843693 | | | | | |
| Imperial Beach city | 12300 | 11500 | 800 | | 0.00759385 | 0.0121 | | | | |
| La Mesa city | 30900 | 29600 | 1300 | | 0.01956984 | 0.0198 | | | | |
| Lakeside CDP | 9800 | 9300 | 500 | 4.9% | 0.00616963 | 0.0073 | | | | |
| Lemon Grove city | 12600 | 11900 | 700 | 5.5% | 0.00700002 | 0.0105 | | | | |
| National City city | 24900 | 23600 | 1300 | 5.3% | 0.01555986 | 0.02 | | | | |
| Oceanside city | 83100 | 79600 | 3500 | 4.3% | 0.05256208 | 0.0541 | | | | |
| Poway city | 26000 | 25300 | 700 | 2.7% | 0.01669153 | 0.0105 | | | | |
| Ramona CDP | 11300 | 10800 | 500 | 4.7% | 0.00714 | 0.0081 | | | | |
| San Diego city | 709900 | 681900 | 28000 | 3.9% | 0.45044385 | 0.4271 | | | | |
| San Marcos city | 41300 | 40000 | 1300 | 3.2% | 0.02641039 | 0.0204 | | | | |
| Santee city | 29400 | 28200 | 1200 | 4.1% | 0.01861455 | 0.0182 | | | | |
| Solana Beach city | 6900 | 6700 | 300 | 3.9% | 0.00440012 | 0.0041 | | | | |
| Spring Valley CDP | 15400 | 14800 | 700 | 4.3% | 0.00370013 | | | | | |
| Valley Center CDP | 5500 | 5400 | 200 | 3.2% | 0.00354194 | 0.0027 | | | | |
| Vista city | 44100 | 42500 | 1600 | 3.7% | 0.0280671 | 0.0248 | | | | |

Although PG&E and SCE used high unemployment rates to define variability between cities for their enhanced EDR, thus identifying areas of greatest need, this same logic does not work within the San Diego region. For example, Table TC-2 shows that Imperial Beach (with the highest unemployment rate) is only separated from Del Mar (with the lowest unemployment rate) by 6.5%; while counties in other parts of the state, like Kern and Tuolumne, experience

²⁵ Data in Table TC-2 is gathered from the State of California Employment Development Department, *Unemployment Rate and Labor Force, at* http://www.labormarketinfo.edd.ca.gov/data/unemployment-and-labor-force.html (last visited February 24, 2017).

unemployment disparities between high- and low-unemployment cities (and census designated
places) of over 20%. In addition, Tulare and San Bernardino counties show disparities between
underlying cities of over 9%.²⁶ Clearly, the differences in unemployment between cities is more
noticeable outside the San Diego region, which further validates the weakness of simply using
unemployment rates as a benchmark within SDG&E's service territory.

For all of these reasons, comparing unemployment levels in a particular city within 6 7 SDG&E's territory with statewide averages would not be a useful tool for determining Enhanced 8 EDR eligibility. In contrast, SDG&E's proposed Enhanced EDR eligibility for Manufacturing 9 and PST industry sectors would allow more customers considering out-of-state options to 10 become eligible for the Enhanced EDR. Greater customer eligibility and participation in the 11 Enhanced EDR program would lead to greater economic development benefits for the San Diego region and California. Finally, the Study indicates that targeted participation in the Enhanced 12 EDR program by Manufacturing and PST industry customers would allow for benefits to the 13 14 regional economy by increasing job, wage, and GDP growth on an even greater scale, thus increasing economic development benefits for San Diego and California even further. Taking all 15 16 of these factors into account, SDG&E's Enhanced EDR eligibility proposal would provide the 17 most economic development benefits for ratepayers and is the preferred approach.

18 III. SDG&E'S EDR PROPOSAL

Standard EDR

19

SDG&E is proposing in this Application an EDR with a participation cap of 50 MW.
Eligible non-residential, non-governmental customers with demand of less than 150 kW will
have 5 MW of the cap available to them while the remaining 45 MW will be available to non-

²⁶ See December 2016 data for Kern, Tuolumne, Tulare, and San Bernardino counties, *available at* http://www.labormarketinfo.edd.ca.gov/data/unemployment-and-labor-force.html (last visited February 24, 2017) (under Current Month Unemployment Rate and Labor Force Summary – Cities and Sub-County Places).

residential, non-governmental customers with 150 kW or more of demand. The company
 selection process will be time-stamped based on submittal requests to SDG&E, and the
 completion of the process to include responding to Governor's Office of Business and Economic
 Development (GO-Biz) questionnaires. Those companies who submit and complete the vetting
 process first will be given first opportunity to participate in the program.

The Standard EDR equates to a five-year discount of 12% off of an eligible EDR 6 7 customer's total monthly bill relative to the customer's OAT [otherwise applicable tariff]. SDG&E is also proposing an Enhanced EDR applicable to eligible business customers that 8 9 provides a five-year discount of 20%, with the option to receive up to 30% off an eligible EDR 10 customer's total monthly bill relative to the customer's OAT. Eligibility for both EDRs is 11 conditioned on businesses evaluating a viable out-of-state option. This could be a new out-of-12 state business considering San Diego as their new location or an existing business evaluating outof-state options to expand or to leave California. Participant businesses can also apply for an 13 14 additional five-year extension to the EDR, which may be granted through GO-Biz if the business and economic indicators warrant. Determination for extensions will be a reevaluation of a new 15 application and vetting process. 16

Enhanced EDR

17

Structurally, SDG&E's Enhanced EDR offering will be contained within the Standard
EDR participation cap of 50 MW, and will share the same size-based eligibility threshold
demands of less than 150 kW for 5 MW of the cap and 150 kW or more for the remaining 45
MW of the cap. The company selection process will mirror that of the Standard EDR offering.

The Enhanced EDR will allow companies in the Manufacturing and PST industries to
apply for a 20% discount at the base line and add up to 10% in additional discount (a total
discount of 30%) when they provide any or all of the additional community value-added features
listed below (each results in a 2.5% discount):

TC - 15

| 1 | |
|--|--|
| 1 | • Participation in Energy Efficiency; |
| 2 | • Participation in Demand Response; |
| 3 | • Locating, remaining, or expanding in an area with unemployment 110% of the |
| 4 | state unemployment rate; or |
| 5 | • Locating in a building that has been vacant for more than 18 months. |
| 6 | Although the EDR features of PG&E and SCE have been discussed, it is also important |
| 7 | to review EDR criteria in other parts of the country. Common criteria for EDRs in the United |
| 8 | States include electric load and job creation, and reestablishing service in stranded assets by |
| 9 | occupying dormant premises. Each of these components is included in SDG&E's EDR rates |
| 10 | offering and the value added features of the Enhanced EDR offering. |
| 11 | IV. ADMINISTRATION OF THE EDR PROGRAM |
| | |
| 12 | A. Basic Eligibility Criteria |
| | |
| 12 | A. Basic Eligibility Criteria |
| 12 13 | A. Basic Eligibility Criteria Consistent with PG&E and SCE's approved EDR programs both the Standard and |
| 12 13 14 | A. Basic Eligibility Criteria Consistent with PG&E and SCE's approved EDR programs both the Standard and Enhanced EDRs will be open to bundled service or Direct Access commercial (non-residential, |
| 12 13 14 15 | A. Basic Eligibility Criteria Consistent with PG&E and SCE's approved EDR programs both the Standard and Enhanced EDRs will be open to bundled service or Direct Access commercial (non-residential, non-governmental) customers. However, unlike PG&E and SCE's program, SDG&E |
| 12 13 14 15 16 | A. Basic Eligibility Criteria Consistent with PG&E and SCE's approved EDR programs both the Standard and Enhanced EDRs will be open to bundled service or Direct Access commercial (non-residential, non-governmental) customers. However, unlike PG&E and SCE's program, SDG&E recommends allowing businesses of all sizes to apply for the EDR and our program carves out |
| 12 13 14 15 16 17 | A. Basic Eligibility Criteria Consistent with PG&E and SCE's approved EDR programs both the Standard and Enhanced EDRs will be open to bundled service or Direct Access commercial (non-residential, non-governmental) customers. However, unlike PG&E and SCE's program, SDG&E recommends allowing businesses of all sizes to apply for the EDR and our program carves out 5 MW specifically for small and medium-size businesses with 150kW demand or less. Small |
| 12 13 14 15 16 17 18 | A. Basic Eligibility Criteria Consistent with PG&E and SCE's approved EDR programs both the Standard and Enhanced EDRs will be open to bundled service or Direct Access commercial (non-residential, non-governmental) customers. However, unlike PG&E and SCE's program, SDG&E recommends allowing businesses of all sizes to apply for the EDR and our program carves out 5 MW specifically for small and medium-size businesses with 150kW demand or less. Small and mid-sized businesses play an important role in our region. SDG&E's commercial customer |

²⁷ See A.17-01-014, Application of San Diego Gas & Electric Company (U 902-M) to Adopt Energy Efficiency Rolling Portfolio Business Plan (filed January 17, 2017), Exhibit 1 ("SDG&E Energy Efficiency Business Plan, 'Building A Better Energy Efficient Future, 2018-2025'") at p. 71 (Figure 3.9), available at https://www.sdge.com/sites/default/files/regulatory/SDGE%20EE%20BP%20Application %20FINAL%20with%20BP_2.PDF.

industrial and agricultural customers in our territory are under 20kW.²⁸ Additionally, within San 1 Diego County, almost two-thirds of the businesses have fewer than five employees.²⁹ 2

For the Enhanced EDR, eligible service accounts must fall within the business sectors of 3 Manufacturing or PST. Additional discounts up to 30% will be available to businesses providing 4 additional community benefit such as locating in areas or buildings in need of revitalization. 5 Once a business qualifies for the EDR option it will remain in effect for the length of their signed 6 7 contract, regardless of economic changes within the region. Both Standard and Enhanced EDR contracts are valid up to five years with the ability to extend for up to an additional five years. 8 9 Upon the expiration of the first five-year period, SDG&E will include a proposal via advice letter to extend the EDR. 10

11

12

13

15

B. **Program Cap**

SDG&E's proposed EDR program cap (including both Standard and Enhanced customers) is 50 MW. 5 MW will be reserved for businesses with less than 150 kW demand and 14 the remaining 45 MW would be reserved for the larger businesses.

С. **Application Process**

Interested commercial and industrial businesses will file an application that would 16 17 include a business case for the rate request and verification of a viable out-of-state option. After 18 SDG&E screens and approves the application, GO-Biz would perform a second review similar to the process already in place for both PG&E and SCE. Successful applicants would then be 19 20 categorized as either eligible for the Standard EDR, or the Enhanced EDR for applicants that fall 21 within the Manufacturing or PST business sectors. The Standard EDR would be given a 12% discount off their OTA. Successful applicants of the Enhanced EDR would then undergo an 22 23 additional evaluation to determine the exact discount rate as outlined in section III.

²⁸ *Id.* at 137 and 169 (Figure 6.7). ²⁹ *Id.* at p. 71-72 (Figure 3.10).

1

D.

Safeguards Against Potential Free-Ridership

As the Commission stated in D.13-10-019, "[f]ree-riders are a risk to any program that 2 provides discounts to qualifying customers."³⁰ SDG&E proposes the following methods to 3 mitigate the risk of potential free-ridership, defined by the Commission as "a customer whose 4 decision to close, locate or expand facilities in [the utility's] territory is not based upon the 5 proposition that 'but for' these lower rates the customer would locate, relocate or expand 6 somewhere outside of [the utility's] territory, or close."³¹ In past EDR programs, the 7 Commission had required all EDR applicants to sign a declaration, under penalty of perjury, that 8 9 "but for" the electric rate discount provided by the EDR tariff option, either alone or in 10 combination with other incentives made available to the customer from other sources, they 11 would either move their existing operations outside of California or would close their business altogether. In D.13-10-019, however, the Commission concluded that "[r]etention customers are 12 more likely to become free-riders than attraction or expansion customers," and that "there is no 13 need for an affidavit for attraction and expansion customers because 'the customer would not 14 actually receive the discount unless and until the attracted or expanded load materializes.""³² 15 16 Accordingly, SDG&E proposes that the "but-for" affidavit be required only for retention customers (not for attraction or expansion customers), regardless of whether the applicant is 17 applying for the Standard or Enhanced EDR. 18

SDG&E also proposes to have the California GO-Biz office provide an independent
review of all applications for the EDR. California GO-Biz is providing this service for both
PG&E and SCE, and SDG&E would implement a similar review.

SDG&E proposes to include a Liquidated Damages provision in its EDR contracts to
 ensure that neither SDG&E nor its ratepayers are financially or otherwise damaged if the EDR

 32 *Id*. at 30.

³⁰ D.13-10-019 at 22. ³¹ *Id*.

contract is terminated prematurely before the end of its term based on fraud or misrepresentation.
 The Liquidated Damages amount will be equal to 200% of the cumulative difference between the
 amount the EDR customer would have paid for energy and demand if billed under its OAT, and
 the amount billed under the EDR.

5

E. Reporting Requirements

6 SDG&E incorporates in this Application the same reporting requirements adopted by the 7 Commission in D.13-10-019. Specifically, for the life of the program cycle adopted in this 8 Application, SDG&E will file with the Director of the Energy Division two versions of an annual 9 report every March 1 covering the prior calendar year's EDR activity. One version of the report 10 will be confidential and will contain information, organized in table format, relative to each EDR 11 participant based on information gathered from the EDR participants. A public version of the 12 report shall contain an aggregated analysis of the information contained in the confidential 13 report. In addition, these reports will include an update in the measures used for the Enhanced EDR. 14

15

F. Demand Side Management ("DSM")-Related Measures

In D.13-10-019, the Commission required PG&E to present cost-effective DSM options to Enhanced EDR customers, and to achieve a 5% energy usage reduction over the life of the Enhanced EDR tariff across all participating customers. PG&E was also encouraged to pursue DSM at facilities on the Standard EDR tariff and to try to achieve a 5% energy usage reduction across all of the participating Standard EDR customers over the life of the Standard EDR tariff. SDG&E commits to exploring DSM options with its Standard and Enhanced EDR customers, and to set goals to the extent they are reasonable on a customer-by-customer basis. 1

2

6

G. Rate Treatment

For a description of the discount computation and ratemaking treatment for SDG&E's

3 Standard and Enhanced EDRs, including the recovery of costs associated with implementation of

4 these programs, please refer to the direct testimony of Cynthia Fang (Chapter 2).

5 V. CONCLUSION

This concludes my prepared direct testimony.

1

9

VI. STATEMENT OF QUALIFICATIONS

My name is Todd Cahill and my business address is 8330 Century Park Court, San
Diego, California 92123. I am the Director of Business Services for SDG&E. My primary
responsibilities include all customer service-related activities and relationships with SDG&E's
business customers and community. I began work at SDG&E in 2002 as a Regulatory Analyst
and have held positions of increasing responsibility.

7 In 1998, I graduated from Brigham Young University with a Bachelor of Arts in Political
8 Science. I also received an MBA from San Diego State University in 2012.

I have previously testified before the California Public Utilities Commission.

APPENDIX A

ENHANCED DEVELOPMENT RATE ECONOMIC IMPACT STUDY



ENHANCED DEVELOPMENT RATE ECONOMIC IMPACT STUDY



College of Business Administration

Prepared By:

Stephen Courtney Whitney Graham Jeremy Julaton Addie Stone

December 8, 2016

Presented in partial fulfillment of the requirements for the Masters of Business Administration Degree Graduate School of Business Administration San Diego State University

Feraidoon (Fred) Raafat, Ph.D.

Nikhil Varaiya, Ph.D

Table of Contents

| Executive Summary | 6 |
|---|----|
| Introduction | |
| Background | 7 |
| SDG&E Company Background | 7 |
| Economic Development Rates | 7 |
| Problem Statement | |
| Project Objectives | |
| Objective #1 | |
| Objective #2 | |
| Results | 9 |
| Economic Analysis of Service Area | 9 |
| Analysis of San Diego County | 10 |
| Summary of San Diego Economic Indicators | |
| Analysis of Orange County | 25 |
| Recommendation | |
| Selection of Economic Indicators | |
| Selection of Priority Industries | 27 |
| Appendices | |
| Appendix 1: Signed LOE | |
| Appendix 2: Additional Figures and Tables | |

List of Figures

| Figure 1: SDG&E Service Area | 9 |
|---|----|
| Figure 2: San Diego County Total Employment by Sector | |
| Figure 3: Top Sectors for Direct Employment in San Diego County | |
| Figure 4: San Diego County Total GDP By Sector | 15 |
| Figure 5: Top Sectors for GDP San Diego County | 16 |
| Figure 6: San Diego County Average Wage by Sector | 18 |
| Figure 7: Top Sectors for Average Wage San Diego County | 19 |
| Figure 8: San Diego County Comparison of Economic Indicators | 21 |
| Figure 9: San Diego County Manufacturing Subsector Comparison | 22 |
| Figure 10: San Diego County Professional, Scientific, and Technical Services Subsector Comparison | 24 |
| Figure 11: Orange County GRP by Industry | |
| Figure 12: Map of California Investor Owned Utilities' Service Areas | 34 |
| Figure 13: San Diego County Retail Trade Subsector Comparison | 35 |

List of Tables

| Table 1: Example NAICS Code | |
|---|----|
| Table 2: San Diego County Direct Employment by Industry | 11 |
| Table 3: San Diego County GDP by Sector | 14 |

| Table 4: San Diego County Total Wage by Industry | 17 |
|---|----|
| Table 5: San Diego County Summary of Economic Indicators | |
| Table 6: San Diego County Manufacturing Sector Economic Indicators - Durable and Nondurable | |
| Table 7: San Diego County Manufacturing Subsector Economic Indicators | 22 |
| Table 8: San Diego County Manufacturing Subsector Comparison | 23 |
| Table 9: San Diego County Professional, Scientific, and Technical Services Subsector Summary | |
| Table 10: Orange County Total Labor by Sector | 25 |
| Table 11: Orange County Average Wage by Industry | |
| Table 12: Manufacturing and Professional, Scientific, and Technical Services Subsectors by Average Wage | |
| Table 13: Manufacturing and Professional, Scientific, and Technical Services Subsectors by Labor | 28 |
| Table 14: Manufacturing and Professional, Scientific, and Technical Services Subsectors by Labor and Wage | |
| Table 15: San Diego County Retail Trade Subsector Economic Indicators | 35 |
| Table 16: Orange County GRP Detail | 36 |
| Table 17: Manufacturing 6-Digit NAICS Code Industries | |
| Table 18: Professional, Scientific and Technical 6-Digit NAICS Code Industries | |

Executive Summary

The purpose of this study was to determine whether or not SDG&E would be justified offering an Economic Development Rate in its service area to specific industries based upon their economic impact, rather than based upon unemployment. The study concluded that SDG&E would be justified in offering an Economic Development Rate to businesses in the sectors of (1) manufacturing and (2) professional, scientific and technical services on the basis of these industries' strong contributions to the service area's economy. This impact was measured by regional GDP, direct employment, and average wages.

Data for the analysis and recommendations was mainly obtained from the Bureau of Labor and Statistics, the United States Census Bureau, San Diego Economic Development Council (EDC), and other Economic Development Councils. The data collected from these sources allowed for the economic mix of SDG&E's service area to be sufficiently captured in order to make predictions.

The study was able to conclude that the question as to which industries the EDR should be extended could not be answered as originally phrased due to the categorization of available data. The initial hypothesis posed by SDG&E was that Defense, Life Sciences, Information and Communication Technology, and Manufacturing industries provided the most economic impact to the region and therefore should be targeted for the enhanced EDR. Research showed that the concept of offering enhanced economic development rates based upon the initial 'industry' classifications insufficiently segregated businesses.

In lieu of classification by priority industry, data was categorized by North American Industry Classification System (NAICS) codes. By using NAICS codes, the business sectors could be properly categorized without duplication. By using NAICS codes, we were able to clearly differentiate businesses and make recommendations based upon certain subsections of industries. Based upon the NAICS analysis, our recommendation of the sectors of (1) Manufacturing and (2) Professional, Scientific, and Technical Services encompass the Defense, Life Sciences, Information and Communication Technology, and Manufacturing industries as they are described by the EDC. Although it cannot be definitively determined that the four industries as initially envisioned are the proper targets for the enhanced EDR, most companies that would be expected to fall within those industries will be encompassed by the recommended sectors.

Introduction

Background

SDG&E Company Background

SDG&E is an investor owned utility company that operates in San Diego County and Orange County. Founded on April 18, 1881, SDG&E has been a key provider of electricity and natural gas to the city of San Diego for the past 130 years. Currently, SDG&E services 3.6 million people, both residential and commercial, in an area of over 4,100 square miles situated in San Diego County and parts of Orange County. SDG&E retains a staff of over 5,000 employees who maintain and operate a grid of over 1.4 million electrical meters and 860,000 natural gas meters.

SDG&E is a subsidiary of Sempra Energy, a Fortune 500 company, and the largest provider of natural gas in the United States. Sempra Energy is a publicly traded company on the New York Stock Exchange with reported revenues of over \$11 billion in 2014.

As a regulated public utility, SDG&E faces little competition in providing the services of electricity and natural gas to residents of San Diego County and Orange County. At the end of the fiscal year 2014 SDG&E posted revenues of \$4.3 billion with net profit of \$507 million, a 25.5% increase over the fiscal year 2013.

Economic Development Rates

Other investor owned utilities, such as Pacific Gas and Electric and Southern California Edison, have used Economic Development Rates (EDRs) to stimulate economic activities within their service areas. EDRs come in two different forms: standard and enhanced. Although the rates vary for specific counties or companies, the standard rate normally grants businesses a 12% discount, whereas the enhanced rate provides a 25-30% discount on their energy bills. The purpose of EDRs is to retain current businesses, attract new enterprises, and encourage expansion of existing businesses within the service area. Enhanced EDRs have normally been implemented in counties with an unemployment rate that is 125% of the average unemployment rate of California.

The California Public Utilities Commission (CPUC) must approve an EDR before Investor Owned Utilities (IOUs) may begin offering them. Any business that applies for EDR must also sign an affidavit that confirms that but for the EDR discount, they would be unable to conduct business in the state of California.

SDG&E operates mainly in the county of San Diego, which currently has an unemployment rate of 5.1%, well below the state average of 6.1%. Because of this, SDG&E has taken a different approach to its enhanced EDR program by proposing to offer enhanced rates only to certain industries rather than basing them on the level of unemployment.

Problem Statement

Throughout California, energy prices are increasing due to the regulatory requirements for renewable energy. Other IOUs, such as Pacific Gas and Electric and Southern California Edison, have implemented EDRs to defray the increased cost placed upon business customers. In order to spur economic development in its service area, SDG&E sought objective data to support its EDR proposal that it is planning to place before the CPUC. Specifically, SDG&E requires data that could justify the rationale for using industry rather than county data for an EDR program, a departure from the current practice and other EDR proposals.

Project Objectives

The project objective was to ascertain through research and analysis the industries that would have the greatest positive economic impact on SDG&E's service area were they provided an enhanced EDR. The enhanced EDR's purpose is to attract, retain, and expand these industries in SDG&E's service area. Below are the specific objectives and measures taken to complete this report:

Objective #1

The first objective was to determine the leading economic indicators from all major industries in SDG&E's service area. Once all the indicators were compiled, the top drivers were evaluated to ascertain which industries would contribute the greatest economic growth in the region and benefit the greatest amount of people within SDG&E's service area were they offered an enhanced EDR. The initial information provided focused on direct employment and gross regional product (GRP), but other key metrics were also evaluated to validate the choice of those economic indicators.

Research Methodology

We used secondary research to gather three years of economic data from Bureau of Labor Statistics, the United States Census Bureau, San Diego Economic Development Council, San Diego Workforce Partnership, San Diego Sourcebook, and California Employment Development Department for labor economics and statistics. Thorough analysis of economic drivers and metrics for the area identified the factors that related closest to economic growth in SDG&E's service area. The results of our analyses were then compared to the data supplied by the Economic Development Council (EDC) to confirm unbiased data for the CPUC proposal.

Objective #2

The second objective was to determine the industries with the most economic impact on SDG&E's service area using the measures selected in Objective 1. We first considered the industries initially proposed by SDG&E, namely Defense, Life Sciences, Information and Communication Technology, and Manufacturing, before expanding the scope to include all other industries in the service area.

Methodology

Primary research was conducted by using the indicators determined in Objective 1 to evaluate all major industries present in SDG&E's service area. Each industry was then ranked in order of the magnitude of impact upon the region's economy. From this list, we assessed the overall worthiness of the proposed EDR and the type of industries that could be eligible for the program.

Results

Economic Analysis of Service Area

SDG&E's service area extends across San Diego County and parts of Orange County, as shown in Figure 1. To determine the economic indicators with which to select the industries to be eligible for EDR, the economies of both counties were analyzed.

Figure 1: SDG&E Service Area



Source: SDG&E

The analysis was conducted in a stepwise fashion. NAICS codes were used to determine the economic make up of each region. Once a clear picture of the region's economic mix was established, the most influential economic indicators shared by all, or the majority of industries, were selected. These indicators were subsequently used to determine the overall impact of a given industry on the county's economy.

SDG&E service area only covers 16% of Orange County, so the major focus, per the client's directions, was on San Diego County. The unavailability of data at a zip code level also lead to decreased weight being put on Orange County results for the final recommendations.

Analysis of San Diego County

Data for San Diego County was collected at the most granular level for which data could be found. NAICS codes can range from two to six digits per code. Two-digit codes give a general overview of a business sector, whereas six-digit codes are for specific industries. The more numbers that a code has, the more specific that it is to the industry being analyzed.

To conduct our analysis, data was gathered at the six-digit level to ensure accuracy and then converted to the three or fourth digit codes to make predictions. The purpose for the conversion, rather than just gather data at the two-digit level, was to avoid the possibility of double counting a single business entity that could be classified in multiple industries. By converting the six-digit codes to two-digit codes our models would provide a higher level of accuracy.

To illustrate the conversion process, we will use the NAICS code of a Bed-and-Breakfast Inn as an example, highlighted in Table 1 below. The NAICS code for the Bed-and-Breakfast Inns is 721191. The six-digit code is the most accurate data available for industry classification. As some businesses can be classified into multiple industries, gathering data at the six-digit code level is the best way to avoid double counting businesses in multiple industry categories; however, the code now is too specific, in terms of classification, to make useful predictions. In order to make predictions with this data, the NAICS code was regressed from the six-digit code back to the third or fourth level. Specifically, the Bed-and-Breakfast Inns code regresses from 721191 to 7211 or 721 depending on the prediction being made. This gives us either the subsector of Accommodation or the Industry Group of Traveler Accommodation.

| Sector Code | Sector Industry | 3 Level NAICS | 3rd Digit NAICS Subsector | 4 Level NAICS | 4th Digit NAICS Industry Group | 6 Level NAICS | Meaning of 6 Digit NAICS code Industry |
|----------------|----------------------------------|------------------|--------------------------------------|------------------|--|---------------|--|
| | | | | | Traveler | 721110 | Hotels (except casino hotels) and motels |
| | | 721 | Accommodation | 7211 | Accommodation | 721120 | Casino hotels |
| | | | | | Accommodation | 721191 | Bed-and-breakfast inns |
| | | | | | | 721199 | All other traveler accommodation |
| | Accomodation and Food Service | 721 | Accommodation | 7212 | RV Parks and | 721211 | RV (recreational vehicle) parks and campgrounds |
| | | 121 | | | Recreational Camps | 721214 | Recreational and vacation camps (except campgrounds) |
| 72 | | 721 | Accommodation | 7213 | Rooming and Boarding Houses | 721310 | Rooming and boarding houses |
| | | 722 722 | Food Services and Drinking Places | 7223 | | 722310 | Food service contractors |
| | | | | | Special Food Services | 722320 | Caterers |
| | | | | | | 722330 | Mobile food services |
| | | | Food Services and Drinking Places | 7224 | Drinking Places (Alcoholic Beverages) | 722410 | Drinking places (alcoholic beverages) |
| | | | 722 Food Services and | | | 722511 | Full-service restaurants |
| | | | | | Restaurants and Other | 722513 | Limited-service restaurants |
| | | 722 | | 7225 | Eating Places | 722514 | Cafeterias, grill buffets, and buffets |
| | | | Drinking Places | | Laung Flaces | 722515 | Snack and nonalcoholic beverage bars |

Table 1: Example NAICS Code

By using thus conversion method, a realistic model of the industries that make up San Diego County was created. The economy of San Diego County was described using three different metrics: contribution to overall employment, contribution to Gross Regional Product (GRP or GDP by county/metropolitan area) and average wage. While these were the indicators

applied in order to describe the economic make up of San Diego County, no decision was made as to whether one of these indicators takes precedence over the others.

Table 2 shows the top 5 industries that contribute to direct employment in San Diego County. These sectors are: Accommodation and Food Services; Healthcare and Social Assistance; Retail Trade; Professional, Scientific, and Technical Services; Administrative and Support; and Manufacturing. While these industries do not represent the totality of employment in San Diego County, they are the largest contributors to employment, accounting for almost 60% of all jobs in San Diego County.

| | 2014 Direc | t Employı | ment | |
|---|-----------------------------------|-----------|----------------------|---------------------------|
| Sector | Total Number of Paid Employees | | Rank of # of Jobs | |
| Accommodation and Food Service | 158,290 | 13% | 1 | |
| Health care and social assistance | 155,862 | 13% | 2 | Top 5 Sectors Account for |
| Retail trade | 150,398 | 12% | 3 | ~58% of Direct Jobs in SD |
| Professional, scientific, and technical services | 134,773 | 11% | 4 | |
| Manufacturing | 99,673 | 8% | 5 | |
| Administrative and support and waste management and remediation services | 96,501 | 8% | 6 | |
| Construction | 63,731 | 5% | 7 | |
| Wholesale trade | 61,662 | 5% | 8 | |
| Other services (except public administration) | 55,438 | 5% | 9 | |
| Finance and insurance | 53,390 | 4% | 10 | |
| Arts, entertainment, and recreation | 33,813 | 3% | 11 | |
| Information | 32,213 | 3% | 12 | |
| Educational services | 31,351 | 3% | 13 | |
| Real estate and rental and leasing | 29,373 | 2% | 14 | |
| Transportation and warehousing | 24,022 | 2% | 15 | |
| Management of companies and enterprises | 23,500 | 2% | 16 | |
| Utilities | 6,092 | 1% | 17 | |
| Agriculture, forestry, fishing and hunting | 598 | 0% | 18 | |
| Mining, quarrying, and oil and gas extraction | 367 | 0% | 19 | |
| | 1,211,042 | 100% | | |

Table 2: San Diego County Direct Employment by Industry

As demonstrated by the above table, direct employment is most impacted by the contribution from the top 5 sectors with a dramatic drop off in industries outside of the top rankings. The range of figures within the top five are between 13% and 8%. Although not in the top 5, Administrative and Support and Waste Management and Remediation Services is worth mentioning, as the category accounts for 8% of total employment, a near tie with manufacturing in San Diego County. Despite the exception of Administration and Support, there is a precipitous drop in employment contribution once outside the top 5 rankings. Employment is mainly concentrated within only a few industries in San Diego.

Figure 2: San Diego County Total Employment by Sector

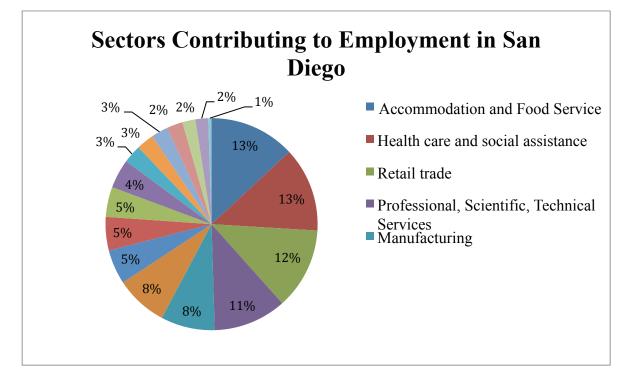


Figure 2 illustrates the whole picture of which industries contribute to employment in San Diego County. It shows more clearly how much of employment is concentrated in the 5 top sectors.

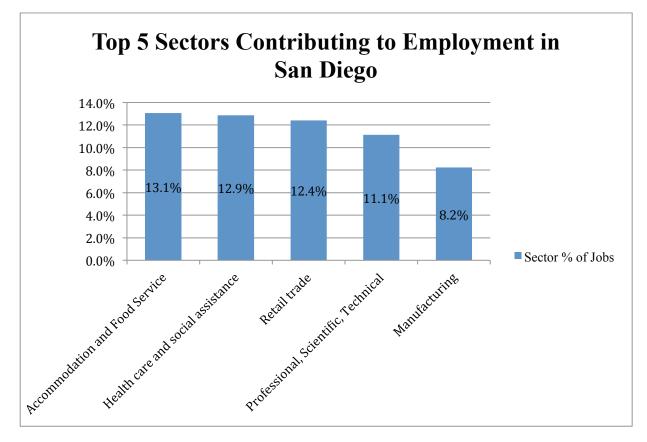


Figure 3: Top Sectors for Direct Employment in San Diego County

Figure 3 gives more detail on the top sectors for San Diego County. It helps demonstrate which sectors are the most important as well as how close several of them are in terms of job contributions.

Table 3: San Diego County GDP by Sector

| | 2014 San Diego GDP for Private Sector (Gov't Excl) | | | DP for | |
|--|---|-----------------|--------------------|---|---------------------------|
| | | | | v't Excl) | |
| Sector | | GDP (\$1000) | Sector % of GDP | Rank of Private Industries GDP | |
| Real estate and rental and leasing | \$ | 42,823 | 25% | 1 | |
| Professional, scientific, and technical services | \$ | 21,092 | 12% | 2 | Top 5 Sectors Account for |
| Manufacturing | \$ | 20,471 | 12% | 3 | └── ~63% of GDP in SD |
| Health care and social assistance | \$ | 11,220 | 7% | 4 | |
| Retail trade | \$ | 10,800 | 6% | 5 | |
| Wholesale trade | \$ | 9,523 | 6% | 6 | - |
| Finance and insurance | \$ | 8,800 | 5% | 7 | |
| Construction | \$ | 7,148 | 4% | 8 | |
| Information | \$ | 6,977 | 4% | 9 | |
| Accommodation and Food Service | \$ | 6,484 | 4% | 10 | |
| management and remediation services | \$ | 5,765 | 3% | 11 | |
| Other services (except public administration) | \$ | 4,114 | 2% | 12 | |
| Management of companies and enterprises | \$ | 3,657 | 2% | 13 | |
| Utilities | \$ | 2,872 | 2% | 14 | |
| Arts, entertainment, and recreation | \$ | 2,164 | 1% | 15 | 1 |
| Educational services | \$ | 2,120 | 1% | 16 | 1 |
| Transportation and warehousing | \$ | 2,066 | 1% | 17 | |
| Agriculture, forestry, fishing and hunting | \$ | 720 | 0% | 18 | |
| Mining, quarrying, and oil and gas extraction | \$ | 333 | 0% | 19 | 1 |
| | | 169,149 | 100% | | 1 |

Table 3 displays the overall contribution by industries to regional GDP. Similar to the employment figures, regional GDP is heavily concentrated in the top 5 rankings sectors. The top 5 sectors being Real estate and Rental and Leasing; Professional, Scientific, and Technical Services; Manufacturing; Healthcare and Social Assistance; and Retail Trade. These 5 sectors contribute over 63% to regional GDP.

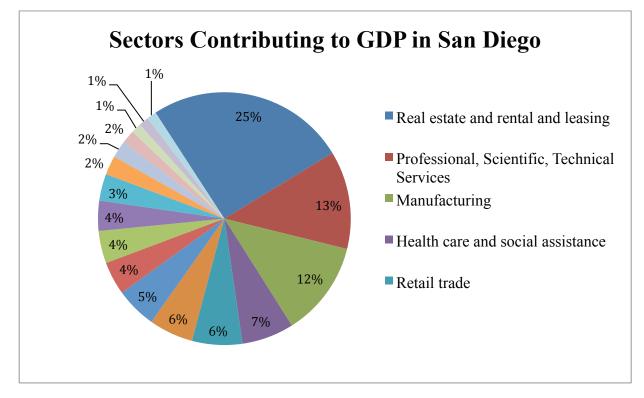


Figure 4 shows the "whole pie" of sectors contributing to GDP in San Diego County. The highest contributors are further analyzed below.



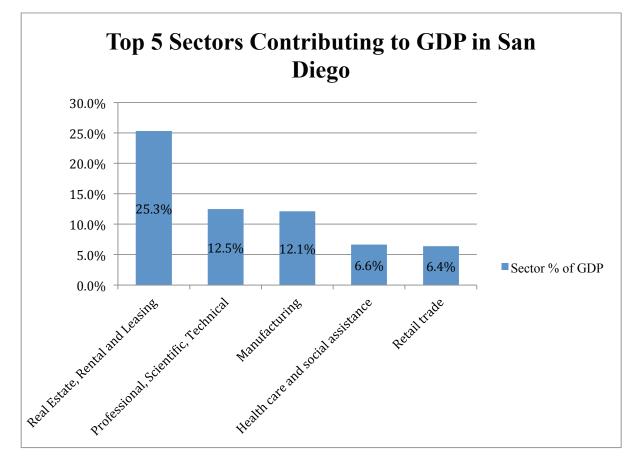


Figure 5 shows the top 5 sectors in greater detail. In the top 5, the sector of Real Estate and Rental and Leasing deserves further analysis. As can be seen in the table above, Real Estate accounts for over 25% of regional GDP, more than Professional, Scientific, and Technical Services and Manufacturing combined. San Diego is one of the most valued real estate markets in the country, making the contribution from that sector not entirely surprising. Real estate is the largest contributor to regional GDP, but further analysis with other indicators detailed later demonstrate why real estate is not a good sector on which to focus the enhanced EDR.

| Table 4: | San | Diego | County | Total | Wage | by | Industry |
|----------|---------|-------|--------|-------|------|----------|----------|
| | ~ ***** | 2.050 | County | | | $\sim J$ | |

| | 20 |)14 San Die | go Avera | ge Wage | |
|---|-----|------------------------|-------------------------------|---------------------|-------------------------|
| Sector | Ave | erage Wage (\$1000) | Industry % of Avg Wages | Rank of Avg Wage | |
| Manufacturing | \$ | 6,329 | 22% | 1 | ר |
| Wholesale trade | \$ | 3,575 | 12% | 2 | Top 5 Sectors Account |
| Professional, scientific, and technical services | \$ | 2,845 | 10% | 3 |] 🛏 for ~58% of Average |
| Finance and insurance | \$ | 2,121 | 7% | 4 | Wage in SD |
| Retail trade | \$ | 1,852 | 6% | 5 | |
| Construction | \$ | 1,697 | 6% | 6 | |
| Administrative and support and waste management and remediation services | \$ | 1,672 | 6% | 7 | |
| Other services (except public administration) | \$ | 1,613 | 6% | 8 |] |
| Health care and social assistance | \$ | 1,603 | 6% | 9 | ĵ |
| Transportation and warehousing | \$ | 1,251 | 4% | 10 |] |
| Information | \$ | 1,246 | 4% | 11 |] |
| Real estate and rental and leasing | \$ | 952 | 3% | 12 |] |
| Arts, entertainment, and recreation | \$ | 598 | 2% | 13 | |
| Educational services | \$ | 593 | 2% | 14 | |
| Accommodation and Food Service | \$ | 303 | 1% | 15 |] |
| Agriculture, forestry, fishing and hunting | \$ | 218 | 1% | 16 |] |
| Management of companies and enterprises | \$ | 180 | 1% | 17 |] |
| Mining, quarrying, and oil and gas extraction | \$ | 114 | 0% | 18 |] |
| Utilities | \$ | 78 | 0% | 19 |] |
| | | 28,841 | 100% | | |

Table 4 displays the wage contribution of each business sector to the San Diego economy. Once again, the top 5 industries make the largest contribution to the indicator with a precipitous drop off outside of the top 5 ranks. The top 5 sectors are Manufacturing; Wholesale Trade; Professional, Scientific, and Technical Services; Finance and Insurance; and Retail Trade. Together, these 5 sectors contribute approximately 58% to the wage level in San Diego County.

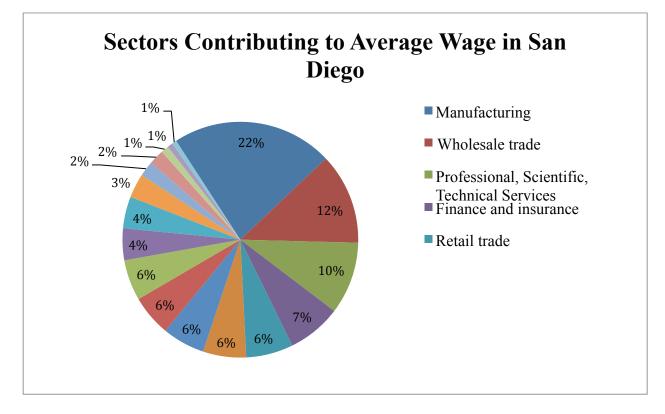


Figure 6 shows the average wage by sector in San Diego County for all industries.



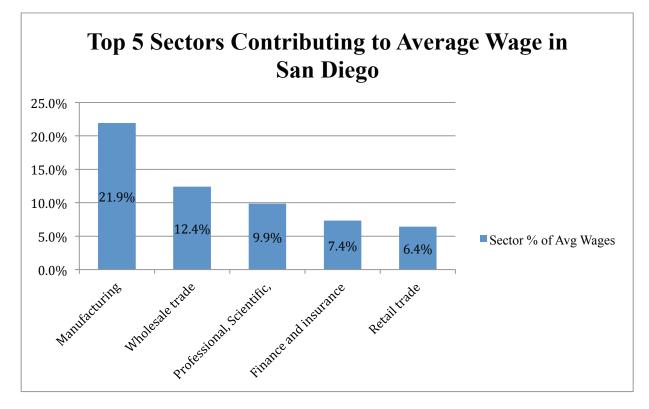


Figure 7 shows the top sectors contributing to average wages in San Diego County. Similar to regional GDP, the top industry in the rankings warrants further discussion. Manufacturing contributes 22% to the overall wage rate in San Diego County, 10% higher than the Wholesale Trade, which holds the second place on the ranking list. Manufacturing makes such a large contribution to wages due to the type of items being manufactured in San Diego. This is demonstrated by the important subsectors for San Diego County in the Manufacturing Sector, such as Chemical, Computer and Electronic Products, and Transportation Equipment Manufacturing. These areas of manufacturing rise above menial assembly line jobs and require specialized knowledge, which in turn increases the overall wage.

Summary of San Diego Economic Indicators

Table 5: San Diego County Summary of Economic Indicators

| | Direct Employment | | | | | GDP | | Average Wage | | |
|---|--|---------------------|----------------------|----|-----------------|--------------------|---|-----------------------------|-----------------------------|---------------------|
| Sector | Total Numberof Paid Employees | Sector % of Jobs | Rank of # of Jobs | (| GDP (\$1000) | Sector % of GDP | Rank of Private Industries GDP | Average Wage (\$1000) | Sector % of Avg Wages | Rank of Avg Wage |
| Accommodation and Food Service | 158,290 | 13% | 1 | \$ | 6,484 | 4% | 10 | 303 | 1% | 15 |
| Administrative and support and waste management and remediation services | 96,501 | 8% | 6 | \$ | 5,765 | 3% | 11 | 1,672 | 6% | 7 |
| Agriculture, forestry, fishing and hunting | 598 | 0% | 18 | \$ | 720 | 0% | 18 | 218 | 1% | 16 |
| Arts, entertainment, and recreation | 33,813 | 3% | 11 | \$ | 2,164 | 1% | 15 | 598 | 2% | 13 |
| Construction | 63,731 | 5% | 7 | \$ | 7,148 | 4% | 8 | 1,697 | 6% | 6 |
| Educational services | 31,351 | 3% | 13 | \$ | 2,120 | 1% | 16 | 593 | 2% | 14 |
| Finance and insurance | 53,390 | 4% | 10 | \$ | 8,800 | 5% | 7 | 2,121 | 7% | 4 |
| Health care and social assistance | 155,862 | 13% | 2 | \$ | 11,220 | 7% | 4 | 1,603 | 6% | 9 |
| Information | 32,213 | 3% | 12 | \$ | 6,977 | 4% | 9 | 1,246 | 4% | 11 |
| Management of companies and enterprises | 23,500 | 2% | 16 | \$ | 3,657 | 2% | 13 | 180 | 1% | 17 |
| Manufacturing | 99,673 | 8% | 5 | \$ | 20,471 | 12% | 3 | 6,329 | 22% | 1 |
| Mining, quarrying, and oil and gas extraction | 367 | 0% | 19 | \$ | 333 | 0% | 19 | 114 | 0% | 18 |
| Other services (except public administration) | 55,438 | 5% | 9 | \$ | 4,114 | 2% | 12 | 1,613 | 6% | 8 |
| Professional, scientific, and technical services | 134,773 | 11% | 4 | \$ | 21,092 | 12% | 2 | 2,845 | 10% | 3 |
| Real estate and rental and leasing | 29,373 | 2% | 14 | \$ | 42,823 | 25% | 1 | 952 | 3% | 12 |
| Retail trade | 150,398 | 12% | 3 | \$ | 10,800 | 6% | 5 | 1,852 | 6% | 5 |
| Transportation and warehousing | 24,022 | 2% | 15 | \$ | 2,066 | 1% | 17 | 1,251 | 4% | 10 |
| Utilities | 6,092 | 1% | 17 | \$ | 2,872 | 2% | 14 | 78 | 0% | 19 |
| Wholesale trade | 61,662 | 5% | 8 | \$ | 9,523 | 6% | 6 | 3,575 | 12% | 2 |
| | 1,211,042 | 100% | | | 169,149 | 100% | | 28,841 | 100% | 190 |

To complete our analysis, we had to utilize all three economic indicators across the industries and compare their total contributions. Table 5 shows each of those indicators by rank for the industries. It demonstrates why Accommodation and Food Service as well as Real Estate and Rental and Leasing are not good sectors to target. Although they have high ranks for a single indicator (direct employment for Accommodation and Food Service and GDP for Real Estate and Rental and Leasing), they are very low for the other indicators.

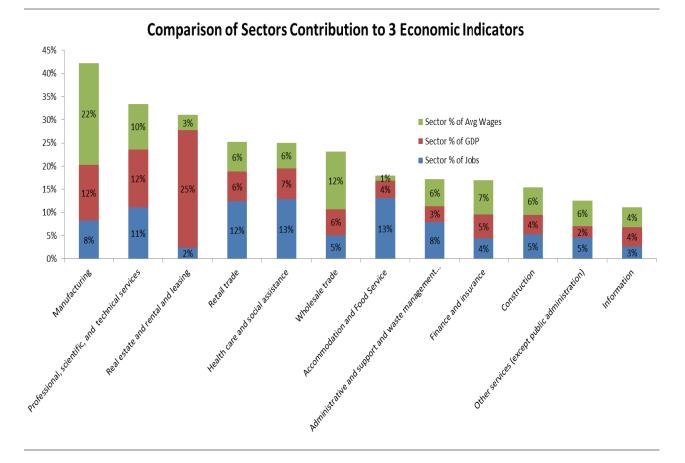


Figure 8: San Diego County Comparison of Economic Indicators

Figure 8 illustrates which sectors contribute the most across all indicators. It shows that Manufacturing and Professional, Scientific, and Technical services contribute the most, and are highly ranked among every economic indicator. As mentioned, Real Estate and Rental and Leasing is high on the list, but almost all of its contribution is only due to its GDP. So, if an enhanced EDR were offered to that sector, it wouldn't be likely to create many jobs or many high quality jobs. Additionally, it is unlikely that targeting real estate-based businesses would meet the purpose of the enhanced EDR, as they tend to exist due to the demand for the land where it is located. San Diego County is a popular place to live; that is not going to change based upon electric costs, so the purpose of attracting, retaining, and expanding business would not likely be served. Below is analysis of the highest ranked sectors, with more information available in Appendix 2.

| | | Direct Employment | | G | 3DP | Average Wage | | |
|-----------------|---------------------------|-----------------------------------|---------------------|-----------------|--------------------|--------------------------|--------------------------|--|
| Sector Industry | Manufacturing Category | Total Number of Paid Employees | Sector % of Jobs | GDP (\$1000) | Sector % of GDP | Average Wage (\$1000) | Sector % of Avg Wages | |
| Manufacturing | Durable | 73,161 | 73% | \$12,807 | 63% | \$ 4,202 | 66% | |
| Manufacturing | Nondurable | 26,512 | 27% | \$ 7,665 | 37% | \$ 2,127 | 34% | |
| | | 99,673 | 100% | \$20,472 | 100% | \$ 6,329 | 100% | |

Next, we looked into more detail for the highest ranked sectors. Table 6 shows durable versus nondurable manufacturing. Durable is significantly higher across the economic indicators, but, as demonstrated below, going beyond the categorization of durable or nondurable to actual subsector will better represent the companies that actually contribute the most to San Diego County's economy.

| | | | Dire | ct Employm | ent | | GDP | | Ave | rage Wage | |
|-----------------|---------------------------|--|---|------------|----------------------|-----------------|--------------------|---|--------------------------|-----------------------------|---------------------|
| Sector Industry | Manufacturing Category | 3rd Digit NAICS Subsector | Total Number of Paid Employees | % of Jobs | Rank of # of Jobs | GDP (\$1000) | Sector % of GDP | Rank of Private Industries GDP | Average Wage (\$1000) | Sector % of Avg Wages | Rank of Avg Wage |
| | | Computer and Electronic Product Manufacturing | 15,183 | 15% | 2 | \$ 6,151 | 30% | 1 | \$ 1,051 | 17% | 1 |
| | | Electrical Equipment, Appliance, and Component Manufacturing | 3,511 | 4% | 9 | \$ 238 | 1% | 9 | \$ 203 | 3% | 10 |
| | | Fabricated Metal Product Manufacturing | 8,262 | 8% | 6 | \$ 654 | 3% | 7 | \$ 587 | 9% | 4 |
| | | Furniture and Related Product Manufacturing | 1,461 | 1% | 12 | \$ 123 | 1% | 12 | \$ 369 | 6% | 7 |
| | Durable | Machinery Manufacturing | 8,571 | 9% | 4 | \$ 1,343 | 7% | 5 | \$ 757 | 12% | 3 |
| Durable | Durabic | Miscellaneous Manufacturing | 10,924 | 11% | 3 | \$ 1,937 | 9% | 4 | \$ 525 | 8% | 5 |
| | | Nonmetallic Mineral Product Manufacturing | 1,616 | 2% | 11 | \$ 150 | 1% | 11 | \$ 148 | 2% | 15 |
| | | Primary Metal Manufacturing | 305 | 0% | 17 | \$ 72 | 0% | 16 | \$ 33 | 1% | 17 |
| Manufacturing | | Transportation Equipment Manufacturing | 22,862 | 23% | 1 | \$ 2,092 | 10% | 3 | \$ 331 | 5% | 8 |
| Manufacturing | | Wood Product Manufacturing | 469 | 0% | 16 | \$ 47 | 0% | 18 | \$ 200 | 3% | 11 |
| | | Apparel and leather and allied products manufacturing | 1,152 | 1% | 13 | \$ 94 | 0% | 15 | \$ 249 | 4% | 9 |
| | | Food and beverage and tobacco products manufacturing | 7,284 | 7% | 7 | \$ 850 | 4% | 6 | \$ 489 | 8% | 6 |
| | | Chemical Manufacturing | 8,426 | 8% | 5 | \$ 5,848 | 29% | 2 | \$ 774 | 12% | 2 |
| | Nondurable | Paper Manufacturing | 713 | 1% | 15 | \$ 106 | 1% | 13 | \$ 187 | 3% | 12 |
| | NUTION ADIE | Petroleum and Coal Products Manufacturing | 138 | 0% | 18 | \$ 104 | 1% | 14 | \$- | 0% | 18 |
| | | Plastics and Rubber Products Manufacturing | 4,843 | 5% | 8 | \$ 386 | 2% | 8 | \$ 156 | 2% | 13 |
| | | Printing and Related Support Activities | 3,183 | 3% | 10 | \$ 225 | 1% | 10 | \$ 123 | 2% | 16 |
| | | Textile mills and textile product mills | 774 | 1% | 14 | \$ 52 | 0% | 17 | \$ 148 | 2% | 14 |
| | | | 99,673 | 100% | | 20,472 | 100% | | 6,329 | 100% | |

Table 7: San Diego County Manufacturing Subsector Economic Indicators

Table 7 shows the economic indicators for the subsectors of manufacturing by rank. The classification as durable or nondurable is included for further information.

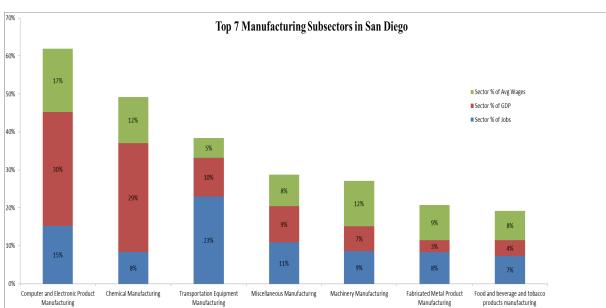


Figure 9: San Diego County Manufacturing Subsector Comparison

Figure 9 shows the top manufacturing subsectors by their contribution to all three economic indicators. Computer and Electronic Product Manufacturing, Chemical Manufacturing, and Transportation Equipment Manufacturing are the highest ranked.

| Manufacturing Category | 3rd Digit NAICS Subsector | Sector % of Jobs | Sector % of GDP | Sector % of Avg Wages | Rank of Industries |
|---------------------------|--|---------------------|--------------------|--------------------------|-----------------------|
| Durable | Computer and Electronic Product Manufacturing | 15% | 30% | 17% | 1.0 |
| Nondurable | Chemical Manufacturing | 8% | 29% | 12% | 2.0 |
| Durable | Transportation Equipment Manufacturing | 23% | 10% | 5% | 3.0 |
| Durable | Miscellaneous Manufacturing | 11% | 9% | 8% | 4.0 |
| Durable | Machinery Manufacturing | 9% | 7% | 12% | 5.0 |
| Durable | Fabricated Metal Product Manufacturing | 8% | 3% | 9% | 6.0 |
| Nondurable | Food and beverage and tobacco products manufacturing | 7% | 4% | 8% | 7.0 |

Table 8: San Diego County Manufacturing Subsector Comparison

The top 7 subsectors account for approximately 82% of the manufacturing sector's overall contribution. Table 8 provides another look at the subsector comparison.

Examples of top Industries within computer and electronic product manufacturing which account for approximately 68% of that subsector's jobs and wages are:

- Radio and television broadcasting and wireless communications equipment manufacturing
- Electro-medical and electrotherapeutic apparatus manufacturing
- Other electronic component manufacturing
- Semiconductor and related device manufacturing
- Search, detection, navigation, guidance, aeronautical, and nautical system and instrument manufacturing
- Instruments and related products manufacturing for measuring, displaying, and controlling industrial process variables
- Analytical laboratory instrument manufacturing
- Printed circuit assembly (electronic assembly) manufacturing
- Other measuring and controlling device manufacturing
- Electronic connector manufacturing

Examples of top industries within chemical manufacturing which account for approximately 78% of that subsector's for jobs and wages are:

- In-vitro diagnostic substance manufacturing
- Pharmaceutical preparation manufacturing
- Biological product (except diagnostic) manufacturing
- Medicinal and botanical manufacturing
- Polish and other sanitation good manufacturing
- All other basic organic chemical manufacturing
- Synthetic rubber manufacturing

| Sector Industry | 4th Digit NAICS Industry Group | Sector % of Jobs | Sector % of Avg Wages | Rank of Industries |
|---------------------------|--|---------------------|--------------------------|-----------------------|
| | Architectural, Engineering, and Related Services | 15% | 16% | 1 |
| | Computer Systems Design and Related Services | 17% | 14% | 2 |
| | Management, Scientific, and Technical Consulting Services | 10% | 19% | 3 |
| Professional, scientific, | Scientific Research and Development Services | 17% | 12% | 4 |
| and technical services | Advertising, Public Relations, and Related Services | 16% | 12% | 5 |
| | Other Professional, Scientific, and Technical Services | 6% | 9% | 6 |
| | Accounting, Tax Preparation, Bookkeeping, and Payroll Services | 8% | 6% | 7 |
| | Legal Services | 10% | 5% | 8 |
| | Specialized Design Services | 1% | 8% | 9 |

Table 9: San Diego County Professional, Scientific, and Technical Services Subsector Summary

Table 9 shows greater detail about the subsectors within Professional, Scientific, and Technical Services. GDP information is not available at this level for San Diego County, so the other economic indicators (direct employment and average wage) were the only ones used for the comparison.



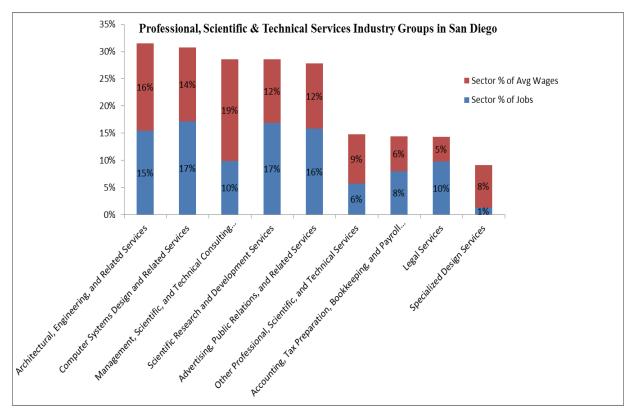


Figure 10 shows that Architectural, Engineering, and Related Services and Computer Systems Design and Related Services are the top subsectors for the sector.

Analysis of Orange County

Although most of SDG&E's service area is in San Diego County, it also provides services Orange County in the following zip codes:

92679, 92675, 92692, 92688, 92691, 92653, 92656, 92651, 92694, 92677, 92629, 92673, 92624, 92672

Altogether, these zip codes account for approximately 16% of Orange County's population. Unfortunately, there is no availability of economic indicator data specifically by zip code. Data has been obtained for the entire county; however, including overall employment by industry, average wages by industry, and regional GDP by industry. We applied the same method we used in San Diego, that is, converted the six-digit NAICS codes into two-digit codes, and then generated a description of the economic mix of Orange County while avoiding double counting. The data follows below:

| | 2014 Orange County Direct Employment | | | | | |
|--|--------------------------------------|---------------------|----|--|--|--|
| Sector | Total Number of Paid Employees | Sector % of Jobs | | | | |
| Manufacturing | 42,915 | 26% | 1 | | | |
| Arts, entertainment, and recreation | 39,812 | 24% | 2 | | | |
| Retail trade | 34,031 | 21% | 3 | | | |
| Finance and insurance | 14,404 | 9% | 4 | | | |
| Transportation and warehousing | 5,719 | 3% | 5 | | | |
| Utilities | 4,356 | 3% | 6 | | | |
| Accomodation and Food Service | 3,819 | 2% | 7 | | | |
| Professional, scientific, and technical services | 3,499 | 2% | 8 | | | |
| Health care and social assistance | 3,482 | 2% | 9 | | | |
| Wholesale trade | 3,301 | 2% | 10 | | | |
| Administrative and support and waste management and remediation services | 2,368 | 1% | 11 | | | |
| Information | 2,150 | 1% | 12 | | | |
| Other services (except public administration) | 1,637 | 1% | 13 | | | |
| Construction | 924 | 1% | 14 | | | |
| Educational services | 819 | 0% | 15 | | | |
| Real estate and rental and leasing | 737 | 0% | 16 | | | |
| Mining, quarrying, and oil and gas extraction | 217 | 0% | 17 | | | |
| Agriculture, forestry, fishing and hunting | 157 | 0% | 18 | | | |
| Management of companies and enterprises | 10 | 0% | 19 | | | |

 Table 10: Orange County Total Labor by Sector

Table 10 shows the overall direct employment by sector for Orange County. Manufacturing is the top with Arts, Entertainment, and Recreation and Retail Trade close behind.

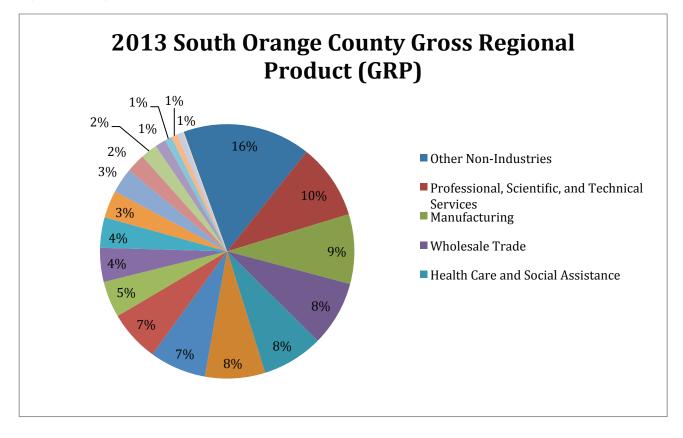


Figure 11 shows the GRP for the Southern Orange County region. The top five sectors are highlighted.

| | 2014 Orange Co | 2014 Orange County Average W | | | |
|--|--------------------------|------------------------------|---------------------|--|--|
| Sector | Average Wage (\$1000) | Sector % of Avg Wages | Rank of Avg Wage | | |
| Manufacturing | 8,914 | 28% | 1 | | |
| Wholesale trade | 4,384 | 14% | 2 | | |
| Professional, scientific, and technical services | 3,014 | 9% | 3 | | |
| Finance and insurance | 2,043 | 6% | 4 | | |
| Retail trade | 1,909 | 6% | 5 | | |
| Construction | 1,829 | 6% | 6 | | |
| Administrative and support and waste management and remediation services | 1,738 | 5% | 7 | | |
| Other services (except public administration) | 1,563 | 5% | 8 | | |
| Information | 1,320 | 4% | 9 | | |
| Health care and social assistance | 1,318 | 4% | 10 | | |
| Real estate and rental and leasing | 1,251 | 4% | 11 | | |
| Transportation and warehousing | 946 | 3% | 12 | | |
| Arts, entertainment, and recreation | 655 | 2% | 13 | | |
| Educational services | 490 | 2% | 14 | | |
| Accomodation and Food Service | 236 | 1% | 15 | | |
| Management of companies and enterprises | 206 | 1% | 16 | | |
| Mining, quarrying, and oil and gas extraction | 185 | 1% | 17 | | |
| Agriculture, forestry, fishing and hunting | 79 | 0% | 18 | | |
| Utilities | 75 | 0% | 19 | | |

Table 11 shows the rank of the industries for average wages.

The data gathered on Orange County shows a strong presence of the manufacturing sector on the regional economy. Manufacturing leads both in overall employment and wage contribution accounting for 26% and 28% respectively. Manufacturing is clearly the most important industry to the Orange County economy.

Although no other industry stood out as clearly as manufacturing in Orange County there are some other industries that are worth noting. Wholesale Trade ranked second in terms of wages contributing 14% to overall wages while accounting for only 2% in total employment. Conversely, Arts, Entertainment and Recreation accounted for 24% of overall employment while contributing only 2% to wages. These two industries are of particular note due to the strong presence in one category but weak presence in another.

Despite the quality of data gathered, regrettably there is no way to use this data to accurately assess the economic character of the zip codes covered in SDG&E's service area from the data obtained. The temptation would be to take the current data on Orange County as a whole and reduce the numbers to 16% of county levels to reflect SDG&E's service area. The danger of implementing such an approach is that there is no way to be certain how many business entities are in the zip codes in SDG&E's service area. Without an understanding of the concentration of the industries in Orange County, making such an assumption could jeopardize the integrity of the research and unfairly bias results.

Recommendation

Selection of Economic Indicators

Based upon the available information, the economic indicators we selected were average wage, direct labor, and GDP. We chose these indicators because they had detailed information available by geographic region, allowing in depth analysis, and because they all measure different aspects of how a company contributes to the economy of the region. They demonstrate how many people they actually employ, the quality of those jobs, and the total impact to the region based upon their activity. This gives a full picture of what a company offers to SDG&E's service area. Because each of the indicators provides slightly different information, we decided to analyze and use all three rather than narrowing them down.

Selection of Priority Industries

We recommend that SDG&E pursue offering the enhanced EDR rate to the (1) manufacturing sector and (2) the professional, scientific, and technical services sector based upon their total wage, GDP, and employment contribution to the economy of their service area. We also recommend that SDG&E implement the program with a focus on NAICS classification of companies because it allows for a categorization that is consistent and can be easily compared to available data. The two sectors chosen encompass 331 six-digit NAICS codes for San Diego industries, which is why we recommend focusing only on those two sectors, as they are fairly large categories. The same data we gathered could be utilized to a more granular level of subsector or industry, as further explored below.

If SDG&E wishes to narrow the scope of it's enhanced EDR, we recommend it focus on the subsectors that create the highest economic impact within the Manufacturing and Professional, Scientific, and Technical Services sectors. Depending on the weight SDG&E would like to give to average wage, employment, or if it'd like to weigh both equally, it can decide which of these subsectors to offer the enhanced EDR to, as demonstrated below in Tables 12, 13, and 14. No matter which combination of sectors and subsectors SDG&E chooses, it should be able to quickly determine which companies the enhanced EDR will apply, as the tax filings of businesses provide their NAICS codes. SDG&E can check the latest filing to determine whether to include or exclude a company.

Table 12: Manufacturing and Professional, Scientific, and Technical Services Subsectors by Average Wage

| Sector | Subsector | % of Subsector Avg Wage (Avg) | Rank |
|--|--|-------------------------------|------|
| Manufacturing | Computer and Electronic Product Manufacturing | 3.64% | 1 |
| Manufacturing | Chemical Manufacturing | 2.68% | 2 |
| Manufacturing | Machinery Manufacturing | 2.62% | 3 |
| Manufacturing | Fabricated Metal Product Manufacturing | 2.03% | 4 |
| Professional, Scientific, and Technical Services | Management, Scientific, and Technical Consulting Services | 1.85% | 5 |
| Manufacturing | Miscellaneous Manufacturing | 1.82% | 6 |
| Professional, Scientific, and Technical Services | Architectural, Engineering, and Related Services | 1.59% | 7 |
| Professional, Scientific, and Technical Services | Computer Systems Design and Related Services | 1.33% | 8 |
| Professional, Scientific, and Technical Services | Advertising, Public Relations, and Related Services | 1.19% | 9 |
| Professional, Scientific, and Technical Services | Scientific Research and Development Services | 1.15% | 10 |
| Manufacturing | Transportation Equipment Manufacturing | 1.15% | 11 |
| Professional, Scientific, and Technical Services | Other Professional, Scientific, and Technical Services | 0.89% | 12 |
| Professional, Scientific, and Technical Services | Specialized Design Services | 0.78% | 13 |
| Professional, Scientific, and Technical Services | Accounting, Tax Preparation, Bookkeeping, and Payroll Services | 0.64% | 14 |
| Professional, Scientific, and Technical Services | Legal Services | 0.45% | 15 |

Table 13: Manufacturing and Professional, Scientific, and Technical Services Subsectors by Labor

| Sector | Subsector | % of Subsector Jobs (total SD Jobs) | Rank |
|--|--|-------------------------------------|------|
| Professional, Scientific, and Technical Services | Computer Systems Design and Related Services | 1.91% | 1 |
| Manufacturing | Transportation Equipment Manufacturing | 1.89% | 2 |
| Professional, Scientific, and Technical Services | Scientific Research and Development Services | 1.88% | 3 |
| Professional, Scientific, and Technical Services | Advertising, Public Relations, and Related Services | 1.76% | 4 |
| Professional, Scientific, and Technical Services | Architectural, Engineering, and Related Services | 1.72% | 5 |
| Manufacturing | Computer and Electronic Product Manufacturing | 1.25% | 6 |
| Professional, Scientific, and Technical Services | Management, Scientific, and Technical Consulting Services | 1.10% | 7 |
| Professional, Scientific, and Technical Services | Legal Services | 1.09% | 8 |
| Manufacturing | Miscellaneous Manufacturing | 0.90% | 9 |
| Professional, Scientific, and Technical Services | Accounting, Tax Preparation, Bookkeeping, and Payroll Services | 0.89% | 10 |
| Manufacturing | Machinery Manufacturing | 0.71% | 11 |
| Manufacturing | Chemical Manufacturing | 0.70% | 12 |
| Manufacturing | Fabricated Metal Product Manufacturing | 0.68% | 13 |
| Professional, Scientific, and Technical Services | Other Professional, Scientific, and Technical Services | 0.64% | 14 |
| Professional, Scientific, and Technical Services | Specialized Design Services | 0.14% | 15 |
| | | | |

Table 14: Manufacturing and Professional, Scientific, and Technical Services Subsectors by Labor and Wage

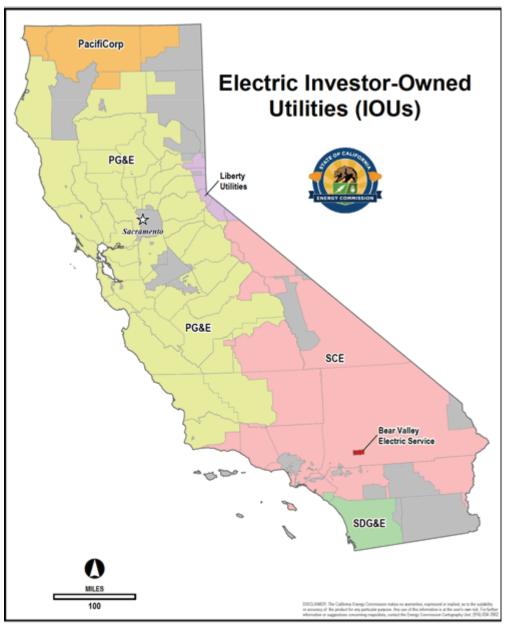
| Sector | Subsector | % of Subsector Jobs (total SD Jobs) | % of Subs | Sum | Rank |
|--|--|-------------------------------------|-----------|-------|------|
| Manufacturing | Computer and Electronic Product Manufacturing | 1.25% | 3.64% | 4.90% | 1 |
| Manufacturing | Chemical Manufacturing | 0.70% | 2.68% | 3.38% | 2 |
| Manufacturing | Machinery Manufacturing | 0.71% | 2.62% | 3.33% | 3 |
| | Architectural, Engineering, and Related Services | 1.72% | 1.59% | 3.30% | 4 |
| Professional, Scientific, and Technical Services | Computer Systems Design and Related Services | 1.91% | 1.33% | 3.25% | 5 |
| Manufacturing | Transportation Equipment Manufacturing | 1.89% | 1.15% | 3.03% | 6 |
| Professional, Scientific, and Technical Services | Scientific Research and Development Services | 1.88% | 1.15% | 3.03% | 7 |
| Professional, Scientific, and Technical Services | Advertising, Public Relations, and Related Services | 1.76% | 1.19% | 2.95% | 8 |
| Professional, Scientific, and Technical Services | Management, Scientific, and Technical Consulting Services | 1.10% | 1.85% | 2.95% | |
| Manufacturing | Miscellaneous Manufacturing | 0.90% | 1.82% | 2.72% | 10 |
| Manufacturing | Fabricated Metal Product Manufacturing | 0.68% | 2.03% | 2.72% | 11 |
| Professional, Scientific, and Technical Services | Legal Services | 1.09% | 0.45% | 1.54% | 12 |
| Professional, Scientific, and Technical Services | Other Professional, Scientific, and Technical Services | 0.64% | 0.89% | 1.53% | 13 |
| Professional, Scientific, and Technical Services | Accounting, Tax Preparation, Bookkeeping, and Payroll Services | 0.89% | 0.64% | 1.52% | 14 |
| Professional, Scientific, and Technical Services | Specialized Design Services | 0.14% | 0.78% | 0.92% | 15 |
| | | | | | |

In the future, SDG&E can readily update the Excel file provided by the team with the latest reports by the Bureau of Economic Analysis for GDP figures and by the US Census Bureau for wage and direct labor information. This would allow for quick re-evaluation of the top economic contributors to SDG&E's service area over time, ensuring the enhanced EDR targets the highest economically contributing industries.

Appendices

Appendix 2: Additional Figures and Tables

Figure 12: Map of California Investor Owned Utilities' Service Areas



Source: California Energy Commission

Table 15: San Diego County Retail Trade Subsector Economic Indicators

| 3rd Digit NAICS Subsector | Sector % of Jobs | Sector % of Avg Wages | Rank of Subsector |
|---|------------------|-----------------------------|-------------------|
| Food and Beverage Stores | 21.7% | 9.9% | 1 |
| Motor Vehicle and Parts Dealers | 11.5% | 16.2% | 2 |
| Clothing and Clothing Accessories Stores | 15.5% | 10.5% | 3 |
| Miscellaneous Store Retailers | 5.6% | 13.2% | 4 |
| Building Material and Garden Equipment and Supplies Dealers | 7.7% | 8.8% | 5 |
| General Merchandise Stores | 14.4% | 2.0% | 6 |
| Nonstore Retailers | 3.9% | 12.1% | 7 |
| Health and Personal Care Stores | 5.9% | 8.0% | 8 |
| Furniture and Home Furnishings Stores | 3.2% | 7.6% | 9 |
| Sporting Goods, Hobby, Musical Instrument, and Book Stores | 4.1% | 5.9% | 10 |
| Electronics and Appliance Stores | 3.2% | 3.6% | 11 |
| Gasoline Stations | 3.3% | 2.2% | 12 |

Figure 13: San Diego County Retail Trade Subsector Comparison

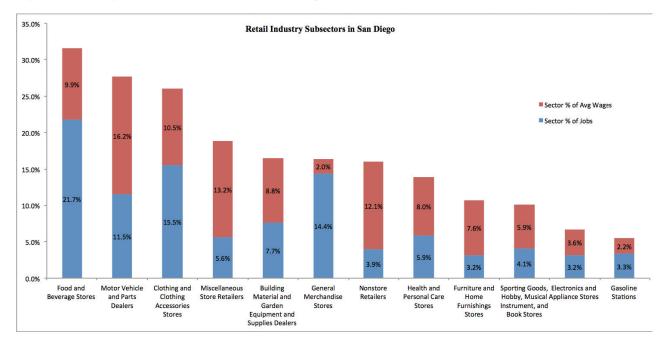


Table 16: Orange County GRP Detail

| NAICS* | Industry | GRP (2013) | % of Total |
|--------|--|------------------|------------|
| 11 | Crop and Animal Production | \$ 29,992,824 | 0.11% |
| 21 | Mining, Quarrying, and Oil and Gas Extraction | \$ 42,955,30 | 0.16% |
| 22 | Utilities | \$ 835,614,79 | 2 3.18% |
| 23 | Construction | \$ 1,135,082,24 | I 4.32% |
| 31 | Manufacturing | \$ 2,328,357,072 | 2 8.86% |
| 42 | Wholesale Trade | \$ 2,172,790,69 | 7 8.27% |
| 44 | Retail Trade | \$ 1,713,705,84 | 0 6.52% |
| 48 | Transportation and Warehousing | \$ 160,865,64 | 5 0.61% |
| 51 | Information | \$ 1,015,243,32 | 3.86% |
| 52 | Finance and Insurance | \$ 2,009,869,69 | 2 7.65% |
| 53 | Real Estate and Rental and Leasing | \$ 1,885,915,50 | 3 7.18% |
| 54 | Professional, Scientific, and Technical Services | \$ 2,511,898,369 | 9.56% |
| 55 | Management of Companies and Enterprises | \$ 358,780,52 | 1.37% |
| 56 | Administrative and Support and Waste Management and Remediation Services | \$ 1,211,931,33 | 4.61% |
| 61 | Educational Services | \$ 239,345,54 | 7 0.91% |
| 62 | Health Care and Social Assistance | \$ 2,043,474,884 | 1 7.78% |
| 71 | Arts, Entertainment, and Recreation | \$ 199,806,45 | 3 0.76% |
| 72 | Accommodation and Food Services | \$ 915,909,44 | 5 3.49% |
| 81 | Other Services (except Public Administration) | \$ 555,158,57 | 3 2.11% |
| 90 | Government | \$ 638,159,55 | 5 2.43% |
| | Other Non-Industries | \$ 4,276,041,41 | 3 16.27% |

Table 17: Manufacturing 6-Digit NAICS Code Industries

| 6-Digit NAICS Code | Industry |
|--------------------|--|
| 311111 | Dog and Cat Food Manufacturing |
| 311119 | Other Animal Food Manufacturing |
| 311211 | Flour Milling |
| 311212 | Rice Milling |
| 311213 | Malt Manufacturing |
| 311221 | Wet Corn Milling |
| 311224 | Soybean and Other Oilseed Processing |
| 311225 | Fats and Oils Refining and Blending |
| 311230 | Breakfast Cereal Manufacturing |
| 311313 | Beet Sugar Manufacturing |
| 311314 | Cane Sugar Manufacturing |
| 311340 | Nonchocolate Confectionery Manufacturing |
| 311351 | Chocolate and Confectionery Manufacturing from Cacao Beans |
| 311352 | Confectionery Manufacturing from Purchased Chocolate |
| 311411 | Frozen Fruit, Juice, and Vegetable Manufacturing |
| 311412 | Frozen Specialty Food Manufacturing |
| 311421 | Fruit and Vegetable Canning |
| 311422 | Specialty Canning |
| 311423 | Dried and Dehydrated Food Manufacturing |
| 311511 | Fluid Milk Manufacturing |
| 311512 | Creamery Butter Manufacturing |
| 311513 | Cheese Manufacturing |
| 311514 | Dry, Condensed, and Evaporated Dairy Product Manufacturing |
| 311520 | Ice Cream and Frozen Dessert Manufacturing |
| 311611 | Animal (except Poultry) Slaughtering |
| 311612 | Meat Processed from Carcasses |

| 311613 | Rendering and Meat Byproduct Processing |
|--------|--|
| 311615 | Poultry Processing |
| 311710 | Seafood Product Preparation and Packaging |
| 311811 | Retail Bakeries |
| 311812 | Commercial Bakeries |
| 311813 | Frozen Cakes, Pies, and Other Pastries Manufacturing |
| 311821 | Cookie and Cracker Manufacturing |
| 311824 | Dry Pasta, Dough, and Flour Mixes Manufacturing from Purchased Flour |
| 311830 | Tortilla Manufacturing |
| 311911 | Roasted Nuts and Peanut Butter Manufacturing |
| 311919 | Other Snack Food Manufacturing |
| 311920 | Coffee and Tea Manufacturing |
| 311930 | Flavoring Syrup and Concentrate Manufacturing |
| 311941 | Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing |
| 311942 | Spice and Extract Manufacturing |
| 311991 | Perishable Prepared Food Manufacturing |
| 311999 | All Other Miscellaneous Food Manufacturing |
| 312111 | Soft Drink Manufacturing |
| 312112 | Bottled Water Manufacturing |
| 312113 | Ice Manufacturing |
| 312120 | Breweries |
| 312130 | Wineries |
| 312140 | Distilleries |
| 312230 | Tobacco Manufacturing |
| 313110 | Fiber, Yarn, and Thread Mills |
| 313210 | Broadwoven Fabric Mills |
| 313220 | Narrow Fabric Mills and Schiffli Machine Embroidery |
| 313230 | Nonwoven Fabric Mills |
| 313240 | Knit Fabric Mills |
| 313310 | Textile and Fabric Finishing Mills |
| 313320 | Fabric Coating Mills |
| 314110 | Carpet and Rug Mills |
| 314120 | Curtain and Linen Mills |
| 314910 | Textile Bag and Canvas Mills |
| 314994 | Rope, Cordage, Twine, Tire Cord, and Tire Fabric Mills |
| 314999 | All Other Miscellaneous Textile Product Mills |
| 315110 | Hosiery and Sock Mills |
| 315190 | Other Apparel Knitting Mills |
| 315210 | Cut and Sew Apparel Contractors |
| 315220 | Men's and Boys' Cut and Sew Apparel Manufacturing |
| 315240 | Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing |
| 315280 | Other Cut and Sew Apparel Manufacturing |
| 315990 | Apparel Accessories and Other Apparel Manufacturing |
| 316110 | Leather and Hide Tanning and Finishing |

| 316210 | Footwear Manufacturing |
|--------|---|
| 316992 | Women's Handbag and Purse Manufacturing |
| 316998 | All Other Leather Good and Allied Product Manufacturing |
| 321113 | Sawmills |
| 321114 | Wood Preservation |
| 321211 | Hardwood Veneer and Plywood Manufacturing |
| 321212 | Softwood Veneer and Plywood Manufacturing |
| 321213 | Engineered Wood Member (except Truss) Manufacturing |
| 321214 | Truss Manufacturing |
| 321219 | Reconstituted Wood Product Manufacturing |
| 321911 | Wood Window and Door Manufacturing |
| 321912 | Cut Stock, Resawing Lumber, and Planing |
| 321918 | Other Millwork (including Flooring) |
| 321920 | Wood Container and Pallet Manufacturing |
| 321991 | Manufactured Home (Mobile Home) Manufacturing |
| 321992 | Prefabricated Wood Building Manufacturing |
| 321999 | All Other Miscellaneous Wood Product Manufacturing |
| 322110 | Pulp Mills |
| 322121 | Paper (except Newsprint) Mills |
| 322122 | Newsprint Mills |
| 322130 | Paperboard Mills |
| 322211 | Corrugated and Solid Fiber Box Manufacturing |
| 322212 | Folding Paperboard Box Manufacturing |
| 322219 | Other Paperboard Container Manufacturing |
| 322220 | Paper Bag and Coated and Treated Paper Manufacturing |
| 322230 | Stationery Product Manufacturing |
| 322291 | Sanitary Paper Product Manufacturing |
| 322299 | All Other Converted Paper Product Manufacturing |
| 323111 | Commercial Printing (except Screen and Books) |
| 323113 | Commercial Screen Printing |
| 323117 | Books Printing |
| 323120 | Support Activities for Printing |
| 324110 | Petroleum Refineries |
| 324121 | Asphalt Paving Mixture and Block Manufacturing |
| 324122 | Asphalt Shingle and Coating Materials Manufacturing |
| 324191 | Petroleum Lubricating Oil and Grease Manufacturing |
| 324199 | All Other Petroleum and Coal Products Manufacturing |
| 325110 | Petrochemical Manufacturing |
| 325120 | Industrial Gas Manufacturing |
| 325130 | Synthetic Dye and Pigment Manufacturing |
| 325180 | Other Basic Inorganic Chemical Manufacturing |
| 325193 | Ethyl Alcohol Manufacturing |
| 325194 | Cyclic Crude, Intermediate, and Gum and Wood Chemical Manufacturing |
| 325199 | All Other Basic Organic Chemical Manufacturing |

| 325211 | Plastics Material and Resin Manufacturing |
|--------|---|
| 325212 | Synthetic Rubber Manufacturing |
| 325220 | Artificial and Synthetic Fibers and Filaments Manufacturing |
| 325311 | Nitrogenous Fertilizer Manufacturing |
| 325312 | Phosphatic Fertilizer Manufacturing |
| 325314 | Fertilizer (Mixing Only) Manufacturing |
| 325320 | Pesticide and Other Agricultural Chemical Manufacturing |
| 325411 | Medicinal and Botanical Manufacturing |
| 325412 | Pharmaceutical Preparation Manufacturing |
| 325413 | In-Vitro Diagnostic Substance Manufacturing |
| 325414 | Biological Product (except Diagnostic) Manufacturing |
| 325510 | Paint and Coating Manufacturing |
| 325520 | Adhesive Manufacturing |
| 325611 | Soap and Other Detergent Manufacturing |
| 325612 | Polish and Other Sanitation Good Manufacturing |
| 325613 | Surface Active Agent Manufacturing |
| 325620 | Toilet Preparation Manufacturing |
| 325910 | Printing Ink Manufacturing |
| 325920 | Explosives Manufacturing |
| 325991 | Custom Compounding of Purchased Resins |
| 325992 | Photographic Film, Paper, Plate, and Chemical Manufacturing |
| 325998 | All Other Miscellaneous Chemical Product and Preparation Manufacturing |
| 326111 | Plastics Bag and Pouch Manufacturing |
| 326112 | Plastics Packaging Film and Sheet (including Laminated) Manufacturing |
| 326113 | Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing |
| 326121 | Unlaminated Plastics Profile Shape Manufacturing |
| 326122 | Plastics Pipe and Pipe Fitting Manufacturing |
| 326130 | Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing |
| 326140 | Polystyrene Foam Product Manufacturing |
| 326150 | Urethane and Other Foam Product (except Polystyrene) Manufacturing |
| 326160 | Plastics Bottle Manufacturing |
| 326191 | Plastics Plumbing Fixture Manufacturing |
| 326199 | All Other Plastics Product Manufacturing |
| 326211 | Tire Manufacturing (except Retreading) |
| 326212 | Tire Retreading |
| 326220 | Rubber and Plastics Hoses and Belting Manufacturing |
| 326291 | Rubber Product Manufacturing for Mechanical Use |
| 326299 | All Other Rubber Product Manufacturing |
| 327110 | Pottery, Ceramics, and Plumbing Fixture Manufacturing |
| 327120 | Clay Building Material and Refractories Manufacturing |
| 327211 | Flat Glass Manufacturing |
| 327212 | Other Pressed and Blown Glass and Glassware Manufacturing |
| 327213 | Glass Container Manufacturing |
| 327215 | Glass Product Manufacturing Made of Purchased Glass |

| 327310 | Cement Manufacturing |
|--------|--|
| 327320 | Ready-Mix Concrete Manufacturing |
| 327331 | Concrete Block and Brick Manufacturing |
| 327332 | Concrete Pipe Manufacturing |
| 327390 | Other Concrete Product Manufacturing |
| 327410 | Lime Manufacturing |
| 327420 | Gypsum Product Manufacturing |
| 327910 | Abrasive Product Manufacturing |
| 327991 | Cut Stone and Stone Product Manufacturing |
| 327992 | Ground or Treated Mineral and Earth Manufacturing |
| 327993 | Mineral Wool Manufacturing |
| 327999 | All Other Miscellaneous Nonmetallic Mineral Product Manufacturing |
| 331110 | Iron and Steel Mills and Ferroalloy Manufacturing |
| 331210 | Iron and Steel Pipe and Tube Manufacturing from Purchased Steel |
| 331221 | Rolled Steel Shape Manufacturing |
| 331222 | Steel Wire Drawing |
| 331313 | Alumina Refining and Primary Aluminum Production |
| 331314 | Secondary Smelting and Alloying of Aluminum |
| 331315 | Aluminum Sheet, Plate, and Foil Manufacturing |
| 331318 | Other Aluminum Rolling, Drawing, and Extruding |
| 331410 | Nonferrous Metal (except Aluminum) Smelting and Refining |
| 331420 | Copper Rolling, Drawing, Extruding, and Alloying |
| 331491 | Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding |
| 331492 | Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum) |
| 331511 | Iron Foundries |
| 331512 | Steel Investment Foundries |
| 331513 | Steel Foundries (except Investment) |
| 331523 | Nonferrous Metal Die-Casting Foundries |
| 331524 | Aluminum Foundries (except Die-Casting) |
| 331529 | Other Nonferrous Metal Foundries (except Die-Casting) |
| 332111 | Iron and Steel Forging |
| 332112 | Nonferrous Forging |
| 332114 | Custom Roll Forming |
| 332117 | Powder Metallurgy Part Manufacturing |
| 332119 | Metal Crown, Closure, and Other Metal Stamping (except Automotive) |
| 332215 | Metal Kitchen Cookware, Utensil, Cutlery, and Flatware (except Precious) |
| | Manufacturing |
| 332216 | Saw Blade and Handtool Manufacturing |
| 332311 | Prefabricated Metal Building and Component Manufacturing |
| 332312 | Fabricated Structural Metal Manufacturing |
| 332313 | Plate Work Manufacturing |
| 332321 | Metal Window and Door Manufacturing |
| 332322 | Sheet Metal Work Manufacturing |
| 332323 | Ornamental and Architectural Metal Work Manufacturing |

| 332410 | Power Boiler and Heat Exchanger Manufacturing |
|--------|---|
| 332420 | Metal Tank (Heavy Gauge) Manufacturing |
| 332431 | Metal Can Manufacturing |
| 332439 | Other Metal Container Manufacturing |
| 332510 | Hardware Manufacturing |
| 332613 | Spring Manufacturing |
| 332618 | Other Fabricated Wire Product Manufacturing |
| 332710 | Machine Shops |
| 332721 | Precision Turned Product Manufacturing |
| 332722 | Bolt, Nut, Screw, Rivet, and Washer Manufacturing |
| 332811 | Metal Heat Treating |
| 332812 | Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers |
| 332813 | Electroplating, Plating, Polishing, Anodizing, and Coloring |
| 332911 | Industrial Valve Manufacturing |
| 332912 | Fluid Power Valve and Hose Fitting Manufacturing |
| 332913 | Plumbing Fixture Fitting and Trim Manufacturing |
| 332919 | Other Metal Valve and Pipe Fitting Manufacturing |
| 332991 | Ball and Roller Bearing Manufacturing |
| 332992 | Small Arms Ammunition Manufacturing |
| 332993 | Ammunition (except Small Arms) Manufacturing |
| 332994 | Small Arms, Ordnance, and Ordnance Accessories Manufacturing |
| 332996 | Fabricated Pipe and Pipe Fitting Manufacturing |
| 332999 | All Other Miscellaneous Fabricated Metal Product Manufacturing |
| 333111 | Farm Machinery and Equipment Manufacturing |
| 333112 | Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing |
| 333120 | Construction Machinery Manufacturing |
| 333131 | Mining Machinery and Equipment Manufacturing |
| 333132 | Oil and Gas Field Machinery and Equipment Manufacturing |
| 333241 | Food Product Machinery Manufacturing |
| 333242 | Semiconductor Machinery Manufacturing |
| 333243 | Sawmill, Woodworking, and Paper Machinery Manufacturing |
| 333244 | Printing Machinery and Equipment Manufacturing |
| 333249 | Other Industrial Machinery Manufacturing |
| 333314 | Optical Instrument and Lens Manufacturing |
| 333316 | Photographic and Photocopying Equipment Manufacturing |
| 333318 | Other Commercial and Service Industry Machinery Manufacturing |
| 333413 | Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing |
| 333414 | Heating Equipment (except Warm Air Furnaces) Manufacturing |
| 333415 | Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing |
| 333511 | Industrial Mold Manufacturing |
| 333514 | Special Die and Tool, Die Set, Jig, and Fixture Manufacturing |
| 333515 | Cutting Tool and Machine Tool Accessory Manufacturing |

| 333517 | Machine Tool Manufacturing |
|--------|--|
| 333519 | Rolling Mill and Other Metalworking Machinery Manufacturing |
| 333611 | Turbine and Turbine Generator Set Units Manufacturing |
| 333612 | Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing |
| 333613 | Mechanical Power Transmission Equipment Manufacturing |
| 333618 | Other Engine Equipment Manufacturing |
| 333911 | Pump and Pumping Equipment Manufacturing |
| 333912 | Air and Gas Compressor Manufacturing |
| 333913 | Measuring and Dispensing Pump Manufacturing |
| 333921 | Elevator and Moving Stairway Manufacturing |
| 333922 | Conveyor and Conveying Equipment Manufacturing |
| 333923 | Overhead Traveling Crane, Hoist, and Monorail System Manufacturing |
| 333924 | Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing |
| 333991 | Power-Driven Handtool Manufacturing |
| 333992 | Welding and Soldering Equipment Manufacturing |
| 333993 | Packaging Machinery Manufacturing |
| 333994 | Industrial Process Furnace and Oven Manufacturing |
| 333995 | Fluid Power Cylinder and Actuator Manufacturing |
| 333996 | Fluid Power Pump and Motor Manufacturing |
| 333997 | Scale and Balance Manufacturing |
| 333999 | All Other Miscellaneous General Purpose Machinery Manufacturing |
| 334111 | Electronic Computer Manufacturing |
| 334112 | Computer Storage Device Manufacturing |
| 334118 | Computer Terminal and Other Computer Peripheral Equipment Manufacturing |
| 334210 | Telephone Apparatus Manufacturing |
| 334220 | Radio and Television Broadcasting and Wireless Communications Equipment |
| | Manufacturing |
| 334290 | Other Communications Equipment Manufacturing |
| 334310 | Audio and Video Equipment Manufacturing |
| 334412 | Bare Printed Circuit Board Manufacturing |
| 334413 | Semiconductor and Related Device Manufacturing |
| 334416 | Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing |
| 334417 | Electronic Connector Manufacturing |
| 334418 | Printed Circuit Assembly (Electronic Assembly) Manufacturing |
| 334419 | Other Electronic Component Manufacturing |
| 334510 | Electromedical and Electrotherapeutic Apparatus Manufacturing |
| 334511 | Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing |
| 334512 | Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use |
| 334513 | Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables |
| 334514 | Totalizing Fluid Meter and Counting Device Manufacturing |
| 334515 | Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals |
| 334516 | Analytical Laboratory Instrument Manufacturing |

| 334517 | Irradiation Apparatus Manufacturing |
|--------|---|
| 334519 | Other Measuring and Controlling Device Manufacturing |
| 334613 | Blank Magnetic and Optical Recording Media Manufacturing |
| 334614 | Software and Other Prerecorded Compact Disc, Tape, and Record Reproducing |
| 335110 | Electric Lamp Bulb and Part Manufacturing |
| 335121 | Residential Electric Lighting Fixture Manufacturing |
| 335122 | Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing |
| 335129 | Other Lighting Equipment Manufacturing |
| 335210 | Small Electrical Appliance Manufacturing |
| 335221 | Household Cooking Appliance Manufacturing |
| 335222 | Household Refrigerator and Home Freezer Manufacturing |
| 335224 | Household Laundry Equipment Manufacturing |
| 335228 | Other Major Household Appliance Manufacturing |
| 335311 | Power, Distribution, and Specialty Transformer Manufacturing |
| 335312 | Motor and Generator Manufacturing |
| 335313 | Switchgear and Switchboard Apparatus Manufacturing |
| 335314 | Relay and Industrial Control Manufacturing |
| 335911 | Storage Battery Manufacturing |
| 335912 | Primary Battery Manufacturing |
| 335921 | Fiber Optic Cable Manufacturing |
| 335929 | Other Communication and Energy Wire Manufacturing |
| 335931 | Current-Carrying Wiring Device Manufacturing |
| 335932 | Noncurrent-Carrying Wiring Device Manufacturing |
| 335991 | Carbon and Graphite Product Manufacturing |
| 335999 | All Other Miscellaneous Electrical Equipment and Component Manufacturing |
| 336111 | Automobile Manufacturing |
| 336112 | Light Truck and Utility Vehicle Manufacturing |
| 336120 | Heavy Duty Truck Manufacturing |
| 336211 | Motor Vehicle Body Manufacturing |
| 336212 | Truck Trailer Manufacturing |
| 336213 | Motor Home Manufacturing |
| 336214 | Travel Trailer and Camper Manufacturing |
| 336310 | Motor Vehicle Gasoline Engine and Engine Parts Manufacturing |
| 336320 | Motor Vehicle Electrical and Electronic Equipment Manufacturing |
| 336330 | Motor Vehicle Steering and Suspension Components (except Spring) |
| | Manufacturing |
| 336340 | Motor Vehicle Brake System Manufacturing |
| 336350 | Motor Vehicle Transmission and Power Train Parts Manufacturing |
| 336360 | Motor Vehicle Seating and Interior Trim Manufacturing |
| 336370 | Motor Vehicle Metal Stamping |
| 336390 | Other Motor Vehicle Parts Manufacturing |
| 336411 | Aircraft Manufacturing |
| 336412 | Aircraft Engine and Engine Parts Manufacturing |
| 336413 | Other Aircraft Parts and Auxiliary Equipment Manufacturing |
| 336414 | Guided Missile and Space Vehicle Manufacturing |

| 336415 | Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing |
|--------|---|
| 336419 | Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing |
| 336510 | Railroad Rolling Stock Manufacturing |
| 336611 | Ship Building and Repairing |
| 336612 | Boat Building |
| 336991 | Motorcycle, Bicycle, and Parts Manufacturing |
| 336992 | Military Armored Vehicle, Tank, and Tank Component Manufacturing |
| 336999 | All Other Transportation Equipment Manufacturing |
| 337110 | Wood Kitchen Cabinet and Countertop Manufacturing |
| 337121 | Upholstered Household Furniture Manufacturing |
| 337122 | Nonupholstered Wood Household Furniture Manufacturing |
| 337124 | Metal Household Furniture Manufacturing |
| 337125 | Household Furniture (except Wood and Metal) Manufacturing |
| 337127 | Institutional Furniture Manufacturing |
| 337211 | Wood Office Furniture Manufacturing |
| 337212 | Custom Architectural Woodwork and Millwork Manufacturing |
| 337214 | Office Furniture (except Wood) Manufacturing |
| 337215 | Showcase, Partition, Shelving, and Locker Manufacturing |
| 337910 | Mattress Manufacturing |
| 337920 | Blind and Shade Manufacturing |
| 339112 | Surgical and Medical Instrument Manufacturing |
| 339113 | Surgical Appliance and Supplies Manufacturing |
| 339114 | Dental Equipment and Supplies Manufacturing |
| 339115 | Ophthalmic Goods Manufacturing |
| 339116 | Dental Laboratories |
| 339910 | Jewelry and Silverware Manufacturing |
| 339920 | Sporting and Athletic Goods Manufacturing |
| 339930 | Doll, Toy, and Game Manufacturing |
| 339940 | Office Supplies (except Paper) Manufacturing |
| 339950 | Sign Manufacturing |
| 339991 | Gasket, Packing, and Sealing Device Manufacturing |
| 339992 | Musical Instrument Manufacturing |
| 339993 | Fastener, Button, Needle, and Pin Manufacturing |
| 339994 | Broom, Brush, and Mop Manufacturing |
| 339995 | Burial Casket Manufacturing |
| 339999 | All Other Miscellaneous Manufacturing |

Table 18: Professional, Scientific and Technical 6-Digit NAICS Code Industries

| 6-Digit NAICS Code | Industry |
|--------------------|---------------------------------------|
| 541110 | Offices of Lawyers |
| 541120 | Offices of Notaries |
| 541191 | Title Abstract and Settlement Offices |
| 541199 | All Other Legal Services |

| 541211 | Offices of Certified Public Accountants |
|--------|---|
| 541213 | Tax Preparation Services |
| 541214 | Payroll Services |
| 541219 | Other Accounting Services |
| 541310 | Architectural Services |
| 541320 | Landscape Architectural Services |
| 541330 | Engineering Services |
| 541340 | Drafting Services |
| 541350 | Building Inspection Services |
| 541360 | Geophysical Surveying and Mapping Services |
| 541370 | Surveying and Mapping (except Geophysical) Services |
| 541380 | Testing Laboratories |
| 541410 | Interior Design Services |
| 541420 | Industrial Design Services |
| 541430 | Graphic Design Services |
| 541490 | Other Specialized Design Services |
| 541511 | Custom Computer Programming Services |
| 541512 | Computer Systems Design Services |
| 541513 | Computer Facilities Management Services |
| 541519 | Other Computer Related Services |
| 541611 | Administrative Management and General Management Consulting Services |
| 541612 | Human Resources Consulting Services |
| 541613 | Marketing Consulting Services |
| 541614 | Process, Physical Distribution, and Logistics Consulting Services |
| 541618 | Other Management Consulting Services |
| 541620 | Environmental Consulting Services |
| 541690 | Other Scientific and Technical Consulting Services |
| 541711 | Research and Development in Biotechnology |
| 541712 | Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology) |
| 541720 | Research and Development in the Social Sciences and Humanities |
| 541810 | Advertising Agencies |
| 541820 | Public Relations Agencies |
| 541830 | Media Buying Agencies |
| 541840 | Media Representatives |
| 541850 | Outdoor Advertising |
| 541860 | Direct Mail Advertising |
| 541870 | Advertising Material Distribution Services |
| 541890 | Other Services Related to Advertising |
| 541910 | Marketing Research and Public Opinion Polling |
| 541921 | Photography Studios, Portrait |
| 541922 | Commercial Photography |
| 541930 | Translation and Interpretation Services |
| 541940 | Veterinary Services |
| 541990 | All Other Professional, Scientific, and Technical Services |

APPENDIX B

LETTERS OF SUPPORT



January 26, 2017

The Honorable Michael Picker President California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102

RE: Economic Development Rate for San Diego

Dear President Picker:

The Commercial Real Estate Alliance of San Diego (CRASD) is pleased to support San Diego Gas & Electric's (SDG&E) proposal to establish an Economic Development Rate (EDR) to attract, retain and expand business in the San Diego region.

CRASD is one of 34 commercial associations of the National Association of REALTORS® (NAR). We are the umbrella organization for the NAR affiliate organizations which include the CCIM Institute (CCIM), Counselors of Real Estate (CRE), Institute of Real Estate Management (IREM), REALTORS® Land Institute (LI) and Society of Industrial and Office Realtors (SIOR) representing 200 commercial practitioners in San Diego.

SDG&E's proposal includes a Standard 12% EDR and an Enhanced 20 to 30 percent EDR. The Standard EDR will help incentivize businesses looking to move to the San Diego region. The Enhanced EDR will further target specific industries that fall under two priority segments that have high economic, employment and Gross Regional Product impact.

SDG&E's EDR proposal responds directly to the needs of the San Diego economy and the region's ability to be competitive against other states when attracting new and or keeping business. It will further make the San Diego region competitive with the San Francisco and Los Angeles regions that have had an EDR for several years.

CRASD is pleased to support SDG&E's EDR proposal and encourages your approval of this proposal.

Sincerely,

Ball

Brian Nelson 2017 President, CRASD

Board of Directors

AKA American Open AT&T Bank of America Border Fusion Group Buchanan Ingersoll & Rooney, LLP Comprehensive Training Systems **Colliers** International Cox Communications DEITAC/CDT Falcon Strategies McMillin Companies Mission Federal Credit Union Neighborhood National Bank O.A.P. Packaging, Inc. Pacific Southwest Assoc. of Realtors Public Consulting Group **Republic Services** San Diego Business Journal San Diego Chamber of Commerce San Diego Regional EDC San Ysidro Health Center SANDAG Schwartz, Semerdijian, Cauley & Moot , LLP Scripps Health San Diego Workforce Partnership SDG&E Seacoast Commerce Bank SeaWorld/Aquatica South Bay Family YMCA Southwestern College Southwest Strategies The Paul Company, LLC Trilogy PR Group **Dignatary** Council City of Chula Vista City of Coronado City of Imperial Beach City of National City City of San Diego County of San Diego Port of San Diego



February 22, 2017

The Honorable Michael Picker President California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102

RE: Economic Development Rate for San Diego

Dear President Picker:

The South County Economic Development Council is pleased to support San Diego Gas & Electric's (SDG&E) application to establish an Economic Development Rate (EDR) which would support our region's ability to retain, expand and attract commercial and industrial business customers to the San Diego region.

SDG&E's EDR proposal aligns with San Diego's priority industries: Manufacturing, Life Science, Water Technology, Information and Communication Technology, and Defense. SDG&E worked closely with South County Economic Development Council to tailor their "Standard" and "Expanded" EDRs to include critical parameters that support direct employment and high economic impact to the region. Additionally, SDG&E's "green" incentive for eligible EDR customers supports our region's drought tolerance objectives by incentivizing customers who can demonstrate a 20 percent reduction in water consumption.

SDG&E's proposal would put San Diego on an even playing field with business customers in the Los Angeles and San Francisco regions who have had an EDR for several years. The South County Economic Development Council is pleased to support SDG&E's EDR proposal and encourages your approval of this proposal.

Sincerew

Cindy Gompper-Graves President & CEO

San Diego East County Economic Development Council



February 17, 2017

The Honorable Michael Picker President California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102

RE: Economic Development Rate for San Diego

Dear President Picker:

The East County Economic Development Council is pleased to support San Diego Gas & Electric's (SDG&E) proposal to establish an Economic Development Rate (EDR) to attract, retain and expand business in the San Diego region.

The SDG&E proposal includes a Standard 12 percent EDR and an Enhanced 20 to 30 percent EDR. The Standard EDR will help incentivize businesses looking to move to the San Diego region. The Enhanced EDR will further target specific industries that fall under two priority segments that have high economic, employment and Gross Regional Product impact.

The SDG&E EDR proposal responds directly to the needs of the San Diego economy and the region's ability to be competitive against other states when attracting new business. Economic development organizations have very few incentives to offer to firms interested in relocating to, or expanding in, California. In addition, the EDR will make San Diego region competitive with the San Francisco and Los Angeles regions that have had an EDR for several years.

For these reasons, the East County Economic Development Council is pleased to support SDG&E's EDR application and encourages your approval of this proposal.

Sincerely,

Jo Marie Diamond President and CEO

> 127 E Lexington Avenue El Cajon, CA 92020 (619) 258-3670 www.eastcountyedc.org



Connect. Develop. Grow.

760.510.3179 info@sdnedc.org 950 Boardwalk, Suite 303 San Marcos, CA 92078

www.sdnedc.org

Board of Directors

Officers & Executive Committee Brian Lee, Chair Wells Fargo Renato Alesiani, Treasurer McKinney Capital Group Julie Dunlap, Secretary McKinney Advisory Group Rich Freeark C.W. Driver Alexis Gutierrez Higgs Fletcher & Mack

Directors

David Bennett Tri-City Medical Center Cheryl Broom MiraCosta College Karen Brust **City of Encinitas Heather Ferrante** ViaSat **Dale Ganzow** San Diego Business Journal Juanita Hayes SDG&E **Ed Quinlan Corporate** Alliance **Kimberly Thorner** Olivenhain Municipal Water District Sarah Villarreal CSU San Marcos

<u>Ex-Officio</u> Sam Jammal Camp Pendleton February 22, 2017

The Honorable Michael Picker President California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102

RE: Economic Development Rate for San Diego

Dear President Picker:

The San Diego North Economic Development Council is pleased to support San Diego Gas & Electric's (SDG&E) proposal to establish an Economic Development Rate (EDR) to attract, retain and expand business in the San Diego region.

SDG&E's proposal includes a Standard 12% EDR and an Enhanced 20 to 30 percent EDR. The Standard EDR will help incentivize businesses looking to move to the San Diego region. The Enhanced EDR will further target specific industries that fall under two priority segments that have high economic, employment and Gross Regional Product impact.

SDG&E's EDR proposal responds directly to the needs of the San Diego economy and the region's ability to be competitive against other states when attracting new business. It will further make the San Diego region competitive with the San Francisco and Los Angeles regions that have had an EDR for several years.

The San Diego North Economic Development Council is pleased to support SDG&E's EDR proposal and encourages your approval of this proposal.

Sincerely,

LIDC

Mike Cully Chief Executive Officer



February 23, 2017

The Honorable Michael Picker President California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102

Re: Economic Development Rate for San Diego

Dear President Picker:

San Diego Regional Economic Development Corporation is pleased to support San Diego Gas & Electric's (SDG&E) application to establish an Economic Development Rate (EDR) to attract, retain, and expand businesses in the San Diego region.

SDG&E's application includes a Standard 12 percent EDR and an Enhanced 20 to 30 percent EDR. The Standard EDR will help incentivize businesses looking to move to the San Diego region. The Enhanced EDR will further target specific industries that fall under two priority segments that have high economic, employment, and Gross Regional Product impact.

SDG&E's EDR application responds directly to the needs of the San Diego economy and the region's ability to compete with other states when attracting new businesses. It will help to make the San Diego region competitive with the San Francisco and Los Angeles regions that have had EDRs for several years.

San Diego Regional EDC encourages your approval of this proposal. Thank you for your consideration.

Sincerely,

Mark Cafferty President & CEO

530 B Street | 7th Floor San Diego, CA 92101 p | 619 234 8484

ङ्गानस्वर्णमाणस्वरुगम्



402 West Broadway. Sulte 1000 San Diego, CA 92101-3585 p: 619.544.1300

www.sdchamber.org

February 15, 2017

The Honorable Michael Picker President California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102

RE: Support for San Diego Gas & Electric's Economic Development Rate Application

Dear Mr. Picker:

The San Diego Regional Chamber of Commerce (Chamber) is pleased to support San Diego Gas & Electric's (SDG&E) application to establish two Economic Development Rates (EDRs) to attract, retain, and expand business in the San Diego region.

With approximately 2,500 members representing an estimated 300,000 employees, the Chamber is the largest nonprofit advocate for businesses in the San Diego region. We understand the importance of energy costs to the regional economy and to the efforts of our Chamber and many other organizations in San Diego to recruit, retain, and grow existing businesses.

SDG&E's proposed EDRs are thoughtful and carefully balanced, and respond directly to the needs of the economy of the San Diego region. In addition to the Standard 12-percent discounted EDR, the Enhanced 20-to-30-percent discounted EDR would target specific industries that have high economic, employment, and Gross Regional Product impact.

The Chamber is proud to support SDG&E's EDR application and looks forward to working with you on this important initiative. If you have questions or comments, please do not hesitate to contact Sophie Barnhorst, Policy Coordinator, at (619) 544-1314 or sbarnhorst@sdchamber.org.

Sincerely,

Jerry Sanders President & CEO San Diego Regional Chamber of Commerce



February 22, 2017

The Honorable Michael Picker President California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102

RE: Economic Development Rate for San Diego

Dear President Picker:

The Industrial Environmental Association (IEA) is pleased to support the application from San Diego Gas & Electric's (SDG&E) to establish an Economic Development Rate (EDR). IEA represents approximately 50 manufacturing related businesses in the San Diego region, accounting from more than 55,000 jobs in this area alone.

We believe the EDR represents a critically important tool for attracting, retaining and expanding businesses, particularly manufacturing. Your approval of this application will finally put San Diego on par with the San Francisco and Los Angeles regions of State that have enjoyed an EDR for several years now.

SDG&E's EDR proposal is uniquely designed to fit the needs of the San Diego economy and will enhance the region's competitive positioning versus other states when it comes to attracting new business.

IEA is pleased to support SDG&E's EDR proposal and we encourage your approval of this mechanism that will help San Diego, and California maintain our competitiveness on the national market.

Sincerely,

Jack Monger CEO