

A.17-01-020
SDG&E Transportation Electrification Proposals
TURN Data Request

Data Request Number: TURN-01
Date Sent: 2/9/2017
Response Due: 2/24/2017

Please provide an electronic response to the following question. A hard copy response is unnecessary. The response should be provided on a CD sent by mail or as attachments sent by e-mail to the following:

Haley de Genova	Elise Torres	Eric Borden
The Utility Reform Network	The Utility Reform Network	The Utility Reform Network
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For each question, please provide the name of each person who materially contributed to the preparation of the response. If different, please also identify the SDG&E witness who would be prepared to respond to cross-examination questions regarding the response.

For any questions requesting numerical recorded data, please provide all responses in working Excel spreadsheet format if so available, with cells and formulae functioning.

For any question requesting documents, please interpret the term broadly to include any and all hard copy or electronic documents or records in SDG&E's possession.

1. Please provide all cost estimate workpapers related to the following programs. Please provide equipment-level cost estimates if available (e.g. transformers, wires, conduit, charging stations, etc. such as those listed on pages 3-12 lines 23 to 34). Please provide the response in working Excel format when applicable and include all assumptions and references.
 - a. Airport Ground Support Equipment
 - b. Electrify Local Highways
 - c. Medium Duty/Heavy Duty and Forklift Port Electrification
 - d. Fleet Delivery Services
 - e. Green Taxi/Shuttle/Rideshare

- f. Dealership Incentives
 - g. Residential Charging Program (standard review program)
2. Please provide SDG&E's workpapers for its cost-effectiveness analysis for its standard review program (presented in Chapter 8). Please include all available workpapers and studies/sources for the cost-effectiveness analysis. This should include, but is not limited to, expected incremental load (\$ and kWh from the program), per site and annually.
 3. Please provide the current level of NOx emissions (the most recent year available to SDG&E) and the goal by 2030 for California and SDG&E's territory, separately. The response should include all referenced materials and workpapers, in working Excel format when applicable.
 4. For every program proposed in the Application (each priority review program and the standard review program), please separately provide the expected/estimated annual CO2 and NOx emissions reductions through 2030 *resulting from each specific program*. Please provide all workpapers and the sources for SDG&E's analysis.
 5. Please provide the total revenue requirement on annual basis for each proposed transportation electrification ("TE") program in A.17-01-020, separately and in total through 2030. Please sum the remaining revenue requirement after 2030 in a column to the right. Please provide all workpapers and calculations related to this response in working Excel format, which should include all items impacting the revenue requirement.
 6. In chapter 2 on page LB-3-4, lines 22-1, SDG&E states its project "will provide support to the MD/HD electric vehicles recently awarded through CEC and CARB grant funding." If SDG&E's program is not approved, how will the port pay for the charging infrastructure? Please provide all sources related to this response.
 7. In Chapter 4, page RS-5, lines 8-9, SDG&E states the Power Your Drive program "focuses on workplace locations and larger multi-unit dwellings ("MuDs"), such as five plus units." Please explain whether this five unit or more cutoff is a Commission directive (e.g. required by the Commission) or a criteria imposed by SDG&E. Please include references with page numbers.
 8. In Chapter 4, on page RS-7, lines 7-9, SDG&E states it "has set the goal of obtaining a 75% participation rate through this program, which leads to the goal of 90,00 participants." Please define "75% participation rate." Please include how this 75% participation rate was determined and whether the 90,000 participants are incremental to what would have otherwise been adopted in SDG&E's territory.

9. Please provide all data and reports regarding SDG&E's VGI Rate, in particular all data and reports regarding how customers respond to the rate.
10. On page RS-14, lines 11-12, SDG&E states its program "creates a lower relative cost for electric service, which lowers rates for all ratepayers." Related to this statement:
 - a. What does "relative" mean?
 - b. Please provide all quantitative evidence and related workpapers that support the statement that the program lowers rates for all ratepayers.
 - c. Please calculate the benefit to the system, in dollar terms on an annual basis, from program participants shifting load from on-peak to off-peak. Please provide all workpapers and assumptions.
 - d. Please provide the residential ratepayer bill impact in dollar terms on an annual basis from program participants shifting load from on-peak to off-peak. Please provide all workpapers and assumptions.
11. Please provide a list of zip codes and census tracts that are considered "disadvantaged" in SDG&E's service territory as displayed in Figure 4-7 on page RS-16.
12. Related to question 11 please provide the average income level by census tract and zip code in disadvantaged communities.
13. For the Residential Charging Program, please explain the rationale for why SDG&E proposes to own the L2 charger. Please also provide all available evidence that utility ownership is necessary for home charging equipment.
14. Please provide a sample bill/calculation for one representative winter and one representative summer month for each type of grid integration rate proposed in Chapter 5 testimony (residential GIR, commercial GIR, public charging GIR) that includes all components of the grid integration rate and corresponding charges in energy, power, and dollar terms. Please explain all assumptions, include all workpapers and calculations in Excel, and also explain how various terms that are dynamic (e.g. day-ahead pricing, peak adders) might change the bill calculation and the magnitude of change for various months. All work should be provided in Excel with working formulas.