**DATA REQUEST**

1. Please provide San Diego Gas and Electric Company’s (SDG&E) generation-level hourly system load (retail) for the most recent year for which data is available.

**SDG&E Response:** Please See Attachment Q1.A

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2. For the same year as SDG&E’s response to question 1, please provide system hourly renewable portfolio standard (RPS) generation.

**SDG&E Response:** Please see Attachment Q2



3. For the same year as SDG&E’s response to question 1, please provide generation-level hourly loads (retail and bundled) by rate group.

**SDG&E Response:** Please see the Attachment Q3

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4. Please provide historical and forecast cumulative installed capacity of distributed solar photovoltaics (PV) by rate group for the same year as your response to question 1 and for the years 2020 through 2022. Please also indicate the number of forecasted installations and the average nameplate capacity per installation.

**SDG&E Response:**

Please see attachment CalPA Q4 – PV Forecast for the forecast cumulative installed capacity of distributed solar photovoltaics by rate group. Per Schiermeyer’s testimony, SDG&E held the 2022 forecast constant with the 2021 forecast.

The xls. titled “GRC Phase 2 CalPA Q4 2017\_Data”, includes historical PV by rate group for 2017.



5. Please provide annual hourly generation profiles by rate group of distributed solar PV for the most recent year for which data is available. Please indicate whether these profiles have been normalized (and whether they have been normalized to annual generation, peak generation, or some other measure).

**SDG&E Response:** 2017 hourly PV generation is an estimation based on sampled capacity factors and actual installed capacity at the rate class level. PV generation data is not normalized.



6. Please provide historical and forecast hourly load shapes of electric vehicle (load) for the same year as SDG&E’s response to question 1 and for the years 2020 through 2022. If possible, please break the data out by rate group.

**SDG&E Response:**

In SDG&E’s 2019 GRC Phase 2 Application, the forecast hourly load shape of electric vehicle (load) considered the Mid-Case Light-Duty EV Load found in TN226524\_20190107T13394\_Corrected SDGE Hourly Results CEDU 2019 28102924 that is located here: <https://www.energy.ca.gov/2018_energypolicy/documents/cedu_2018-2030/2018_demandforecast.php>

The attached xls. contains 2017 data. “EH” is in the file is defined as Electric Vehicle and House load and is SDG&E’s EVTOU2 rate.  “EV” is the load on EVTOU (car only).



7. Please provide the variable renewable energy contract data that SDG&E provided to the California Independent System Operator for each of the years 2016-2020 and which the CAISO uses in calculating annual flexible capacity needs. Please provide the workpapers that SDG&E submitted to the CAISO for each year. An example of the workpaper can be found at following link and is labeled “2020 Flexible Capacity Requirement Assessment Data Request Template.xlsx”: http://www.caiso.com/informed/Pages/StakeholderProcesses/FlexibleCapacityNeedsAssess mentProcess.aspx

**SDG&E Response: Please see Attachments Q7-2017, Q7-2018, Q7-2019, and Q7-2020**



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