SDG&E 2018 RDW
A.17-12-013

TURN Data Request TURN-SDG&E-001

To:	Michelle Somerville
Cc:	John Pacheco
From:	Marcel Hawiger (TURN)
Date Sent:	May 23, 2018
Response Due:	June 8, 2018
Subject:	GHG Impacts

Please provide <u>electronic</u> responses to the following questions. Hard copy responses are unnecessary. The responses should be provided on a CD sent by mail or as attachments sent by e-mail to the following people:

Kevin Woodruff
Woodruff Expert Services
1127 - 11th Street, Suite 514
Sacramento, CA 95814
kdw@woodruff-expert-services.com

Marcel Hawiger
The Utility Reform Network (TURN)
785 Market Street, Suite 1400
San Francisco, CA 94103
marcel@turn.org

- 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 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.

- Finally, if partial responses are available prior to the requested due date, please forward them as soon as they become available. If any of these requests are unclear or otherwise objectionable, please contact Marcel Hawiger as soon as possible so that we may attempt to resolve any problems.

Provide all requested workpapers in electronic Excel-compatible format with all data and formulae intact and functioning.

1) Please provide all data and workpapers supporting SDG&E's estimates of the impacts on Greenhouse Gas (GHG) emissions of its proposed changes to residential rate design shown in the tables titled "Marginal GHG Emissions Rates (t/MWh)", "Net Load Impacts (MWh)" and ""GHG Emissions Impacts (t)" on pp. BAM-4 and BAM-5 of the Prepared Direct Testimony of Benjamin A. Montoya (Chapter 3) in Application 17-12-013.

2) If not provided in response to Question 1 above, please provide all data and workpapers supporting the following computations described at the cited pages of the Prepared Direct Testimony of Benjamin A. Montoya (Chapter 3) in Application 17-12-013:
   a. The conversion of 2016 market prices to 2016 emissions rates, discussed at p. BAM-3, lines 5-6,
   b. A copy of the Avoided Cost Calculator as used by SDG&E to escalate 2016 emissions rates to 2020 emissions rates, discussed at p. BAM-3, lines 6-7,
   c. 2016 hourly day-ahead SDG&E DLAP prices, as discussed at p. BAM-3, lines 7-8,
   d. 2016 daily SoCal CityGate prices, discussed at p. BAM-3, lines 9-10,
   e. The conversion of the 2016 CO_2 price to a \$/MMBtu value, discussed at p. BAM-3, lines 10-14,
   f. The computation of implied heat rates for each hour of 2016, discussed at p. BAM-3, lines 16-18,
   g. The conversion of 2016 heat rates to 2020 heat rates, discussed at p. BAM-3, lines 18-20,
   h. The bounding of heat rates consistent with the Itron method, discussed at p. BAM-4, lines 1-8, and
   i. The multiplication of heat rates by the CARB emissions factor, discussed at p. BAM-4, lines 8-9.