

**SAN DIEGO GAS & ELECTRIC COMPANY  
SOUTHERN CALIFORNIA GAS COMPANY**

**APPLICATION REGARDING FEASIBILITY OF INCORPORATING  
ADVANCED METER DATA INTO THE CORE BALANCING PROCESS  
(A.17-10-002)**

**(1<sup>st</sup> DATA REQUEST FROM EDF)**

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**QUESTION 1:**

How many hourly consumption records are present in the Southern California Gas Company Integrated Customer Data Warehouse (ICDW)/Integrated Customer Data and Analytics (ICDA)?

**RESPONSE 1:**

There are 6,992,231,116 daily records and 167,813,546,784 hourly records (24 hourly consumption data records in each daily record) since May 1, 2013.

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**QUESTION 2:**

How many days of advanced metering infrastructure (AMI) records are present in the Southern California Gas Company ICDW/ICDA?

**RESPONSE 2:**

There are 1,826 days of AMI consumption data for the time period between May 1, 2013 to April 30, 2018.

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**QUESTION 3:**

Please provide the hourly temperatures recorded in the Southern California Gas Company ICDW/ICDA? Please provide this response in excel format.

a. Please provide the count of occurrences of each such hourly temperature present in the Southern California Gas Company ICDW/ICDA? Please provide this response in excel format.

**RESPONSE 3:**

SoCalGas' hourly temperature data recorded in the ICDW/ICDA is provided through a contract with a third-party, DTN. SoCalGas' contract with DTN prohibits the sharing of this data without prior written consent from DTN. SoCalGas does not have DTN's consent at this time.

a. In the attached Excel file, please find the count of the hourly temperatures, forecasted and actual, that DTN has provided to SoCalGas.

 Attachment EDF 01  
Q3a.xlsx

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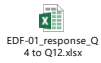
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**QUESTION 4:**

Please provide the number of meter transmission units (MTUs) installed as of April 30, 2018 at locations classified as Core locations.

**RESPONSE 4:**

Please see the attached Excel file.



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**QUESTION 5:**

Please provide the number of total meters installed as of April 30, 2018 at locations classified as Core locations.

**RESPONSE 5:**

Please see the Excel file included in Response 4.

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**QUESTION 6:**

For each rate schedule identified below, please fill in the numbers in columns B, C, and D.

A	B	C	D
Rate Schedule:	Total Meters	Total MTUs installed	Total MTUs transmitting
Schedule GR, Residential Service			
Schedule GS, Submetered Multi-Family Service			
Schedule GM, Multi-Family Service			
Schedule G-CARE, California Alternate Rates for Energy (CARE)Program			
Schedule GO-AC, Optional Rate - Air Conditioning			
Schedule G-NGVR, Natural Gas Service for Home Refueling of Motor Vehicles			
Schedule G-10, Core Commercial and Industrial Service			
Schedule G-AC, Core A/C Svc for Commercial/Industrial			
Schedule G-EN, Core Gas Engine Water Pumping Service for Commercial and Industrial			
Schedule G-NGV, Natural Gas Svc for Motor Vehicles			
Schedule GO-ET, Emerging Technologies Opt. Rate			
Schedule GTO-ET, Trans-Only Emerg. Technologies Opt. Rate			
Schedule GO-IR, Incremental Rate for Existing Equipment			
Schedule GTO-IR, Trans-Only Incr. Rate for Exist. Equip.			
Schedule G-CP, Gas Procurement for Core Customers			
Schedule GT-NC, Intrastate Transportation Service			
Schedule GT-TLS, Intrastate Transmission Level Service			
Schedule GT-SWGX, Exchange Wholesale Natural Gas Service			

**RESPONSE 6:**

Please see the Excel file included in Response 4.

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**QUESTION 7:**

For each Rate Schedule identified in Question 6 above, please provide the aggregated total metered usage of all meters where usage was greater than zero, broken down by billing period for the billing periods of 2016, 2017, and 2018, through April of this year. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 7:**

Please see the Excel file included in Response 4.

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**QUESTION 8:**

For each Rate Schedule identified in Question 6 above, where the meters were AMI-enabled and transmitting (MTUs), please provide the aggregated total metered usage of all meters where usage was greater than zero, broken down by billing period for the billing periods of 2016, 2017, and 2018, through April of this year. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 8:**

Please see the Excel file included in Response 4.



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**QUESTION 9:**

For each Rate Schedule identified in Question 6 above, please provide the number of meters in each of Southern California Gas Company's Climate Zones as of April 30, 2018. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 9:**

Please see the Excel file included in Response 4.

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**QUESTION 10:**

For each Rate Schedule identified in Question 6 above, please provide the number of AMI-enabled and transmitting meters (MTUs) in each of Southern California Gas Company's Climate Zones as of April 30, 2018. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 10:**

Please see the Excel file included in Response 4.

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**QUESTION 11:**

For each Rate Schedule identified in Question 6 above, and for each billing period in 2016, 2017, and 2018, through April of this year, please provide the aggregated total metered usage of all meters where usage was greater than zero, broken down by billing period and climate zone. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 11:**

Please see the Excel file included in Response 4.

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**QUESTION 12:**

For each Rate Schedule identified in Question 6 above and for each billing period in 2016, 2017, and 2018, through April of this year, please provide the aggregated total metered usage of all AMI-enabled and transmitting meters (MTUs) where usage was greater than zero, broken down by billing period and climate zone. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 12:**

Please see the Excel file included in Response 4.

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**QUESTION 13:**

For each Rate Schedule identified in Question 6 above and for each calendar day for the period beginning November 1, 2017, up to and including March 31, 2018, please provide the total metered usage of all AMI-enabled meters (MTUs) where usage was greater than zero, broken down by climate zone. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 13:**

PENDING

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**QUESTION 14:**

For each Rate Schedule identified in Question 6 above and for each calendar day for the period beginning November 1, 2016, up to and including March 31, 2017, please provide the total metered usage of all AMI-enabled meters (MTUs) where usage was greater than zero, broken down by climate zone. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 14:**

PENDING

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**QUESTION 15:**

Please provide the total system send out, as that term is used in ENVOY, for each calendar day in the period beginning November 1, 2016, up to and including March 31, 2017. Answers to this question should be provided in an Excel spreadsheet.

- a. Please also provide “off-system deliveries” to the extent “off-system deliveries” are included in total system send out as that term is used in ENVOY, for each calendar day in the period beginning November 1, 2016, up to and including March 31, 2017. Answers to this question should be provided in an Excel spreadsheet.
- b. Please also provide “Non-core deliveries” to the extent “non-core deliveries” are included in total system send out as that term is used in ENVOY, for each calendar day in the period beginning November 1, 2016, up to and including March 31, 2017. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 15:**

PENDING

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**QUESTION 16:**

Please provide the total system send out, as that term is used in ENVOY, for each calendar day in the period beginning November 1, 2017, up to and including March 31, 2018. Answers to this question should be provided in an Excel spreadsheet.

- a. Please also provide “off-system deliveries” to the extent “off-system deliveries” are included in total system send out as that term is used in ENVOY, for each calendar day in the period beginning November 1, 2017, up to and including March 31, 2018. Answers to this question should be provided in an Excel spreadsheet.
- b. Please also provide “Non-core deliveries” to the extent “non-core deliveries” are included in total system send out as that term is used in ENVOY, for each calendar day in the period beginning November 1, 2017, up to and including March 31, 2018. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 16:**

PENDING



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**QUESTION 17:**

Please provide the forecasted hourly temperature, broken down by climate zone, used by the Utility Gas Demand Forecast Group to forecast next day gas demand for each calendar day in the period beginning November 1, 2016, up to and including March 31, 2017. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 17:**

The Demand Forecasting Group does not use forecasted hourly temperatures, broken down by climate zone, to forecast next day gas demand. The Demand Forecasting Group uses heating degree days (HDDs) to forecast daily gas demand. As described in the testimony of Sharim Chaudhury, these HDDs are system-wide numbers that are based on daily average temperatures.

Please find attached the forecasted system-wide HDDs and corresponding temperatures for SoCalGas and SDG&E for the period requested.

 Attachment EDF 01  
Q17-Q20.xlsx

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**QUESTION 18:**

Please provide the forecasted hourly temperature, broken down by climate zone, used by the Utility Gas Demand Forecast Group to forecast next day gas demand for each calendar day in the period beginning November 1, 2017, up to and including March 31, 2018. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 18:**

Please see Response 17. The forecasted system-wide HDDs and corresponding temperatures for SoCalGas and SDG&E for the period requested can be found in the Excel file provided in Response 17.

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**QUESTION 19:**

Please provide the actual hourly temperature broken down by Climate Zone that was measured for each calendar day in the period beginning November 1, 2016, up to and including March 31, 2017. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 19:**

SoCalGas and SDG&E do not possess actual hourly temperatures, broken down by climate zone. Instead, please find the actual system-wide HDDs and corresponding temperatures for SoCalGas and SDG&E for the period requested in the Excel file provided in Response 17.

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**QUESTION 20:**

Please provide the actual hourly temperature broken down by Climate Zone that was measured for each calendar day in the period beginning November 1, 2017, up to and including March 31, 2018. Answers to this question should be provided in an Excel spreadsheet.

**RESPONSE 20:**

Please see Response 19. The actual system-wide HDDs and corresponding temperatures for SoCalGas and SDG&E for the period requested can be found in the Excel file provided in Response 17.