DOCKETED	
Docket Number:	21-IEPR-05
Project Title:	Natural Gas Outlook and Assessments
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Document Title:	California Energy Commission Comments - PG&E Supporting Data for IEPR NG Demand and Rate Forecasting Forms 1 and 2
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PG&E Supporting Data for IEPR NG Demand and Rate Forecasting Forms 1 and 2

Additional submitted attachment is included below.

DOCKETED	
Docket Number:	21-IEPR-03
Project Title:	Electricity and Natural Gas Demand Forecast
TN #:	238041
Document Title:	PG&E Supporting Data for IEPR NG Demand and Rate Forecasting Forms 1 and 2
Description:	As part of the IEPR gas forms PG&E is required to submit an electronic file containing dat for forms 1 and 2. PG&E submits this document responding to seven questions posed by the CEC as part of this submittal. This document also refers to separate attachments that provide data related to the forecast workpapers from the CGR and the Department of Transportation PHMSA Gas distribution, gas transmission and underground natural gas storage. The attached document also provides links a description and map of the gas PG&E service area.
Filer:	Elizabeth Lopez
Organization:	PG&E
Submitter Role:	Public Agency
Submission Date:	5/28/2021 1:19:03 PM
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Pacific Gas and Electric Company

SUPPORTING DATA
Natural Gas Demand and Rate Forecasting Forms
California Energy Commission
2021 Integrated Energy Policy Report

Per the California Energy Commission's (CEC) forms and instructions to submit the gas related IEPR forms, parties are requested to provide an electronic file containing data for Forms 1 and 2 using the questions listed below.

Pacific Gas and Electric Company (PG&E) provides the following answers to the questions posed in the forms and instructions with the accompanied links and excel documents listed below.

PG&E responses to the CEC's questions:

1. *A description and map of the gas utility service area and, if different, the area for which the gas utility forecasts demand. Please identify if this includes small gas providers within the utility service territory.*
   For a map of the gas service area and accompanying documentation please refer to PG&E's tariff book at https://www.pge.com/tariffs/assets/pdf/tariffbook/GAS_PRELIM_A.pdf (Sheet 8), along with the description provided in Rule 2, at the following link: https://www.pge.com/tariffs/assets/pdf/tariffbook/GAS_RULES_2.pdf.

   The Electric and Gas service area maps were last updated in 2014 with Advice 3531-G/4535-E (November 17, 2014) and Advice 3531-G-A/4535-E-A (December 15, 2014) to add the eligible zip codes to the map information.

2. *Presentation of the demographic and economic assumptions that under-lie the forecast, including assumptions about geographic changes in the service area or movement of customers to or from other utilities.*
   PG&E does not assume any geographic changes in the company's service area. The demographic and economic assumptions that underlie the forecast come primarily from Moody's analytics, which provides updated forecasts for household population and employment outlook several times a year. These values have been included in PG&E's response for form 1.7. As this forecast was generated using information available in late spring 2020, it does not include any adjustment for COVID-19, but it includes data available from Moody's since then and used by PG&E indicates little predicted systematic effect of COVID-19 beyond 2022.

3. *Describe how the forecasts account for energy efficiency, additional achievable energy efficiency, etc.*

PG&E forecasted energy efficiency savings based on the California Public Utilities Commission's (CPUC) Potential and Goal Study that informs Additional Achievable Energy Efficiency (AAEE) forecast in the CEC's California Energy Demand 2020-2030 revised forecast.

4. *Plausibility, sensitivity, and alternative economic scenario analyses.*
   Sensitivity of the forecast to economic and demographic assumptions varies between customer categories. Core customers – residential and small business – are most sensitive to population and employment values. However, this sensitivity is still not high, and these drivers tend to be fairly stable in the long run. Such customers tend to be less price sensitive. More sensitive to prices are the industrial customers, and most sensitive of all to prices are electric generators, whose decision to run at all is determined by the spark spread between electricity prices and gas costs. PG&E did not run alternative economic scenarios. The plausibility of the scenario presented here depends, in the short run, on the stability of the price outlook for price-sensitive load and in the long run on the continuation and success of policy initiatives such as energy efficiency and building electrification. In the long run these dominate the effect of plausible alternative economic scenarios.

5. *Estimation of the additional cost-effective conservation potential and the impact of possible methods to achieve this potential, and a description of each conservation activity carried out by the gas utility and those proposed for future implementation.*
   Public Utilities Code Sections 454.56(a) require the CPUC, in consultation with the CEC, to identify potentially achievable cost-effective natural gas efficiency savings and to establish efficiency targets for gas corporations to achieve. Within CPUC Rulemaking R. 13-11-005, Commission staff regularly utilize an "Energy Efficiency Potential and Goals Study" to both identify this potential as well as to recommend gas corporations' goals be set according to the study's results.

   The PG&E Energy Efficiency Portfolio pursues cost-effective natural gas efficiency savings as established in the most recent Potential and Goals Study and as adopted in accordance with the above regulations. PG&E achieves these savings through a portfolio of voluntary as well as building code and appliance standard customer programs across the customer sectors within our service territory. The voluntary programs offer ratepayer funded incentives, rebates, and financing to improve customer facilities or modify operations to increase energy efficiency. Our building code and appliance standards work offers leadership and support for regulatory and policy revisions to improve energy efficiencies through statues. Following additional CPUC guidance provided within R. 13-11-005, the PG&E Energy Efficiency Portfolio procures most of these programs and offerings, which are designed and delivered by third-party providers.

6. *Most recent U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration (PHMSA) Gas Distribution F7100.1-1, Gas Transmission and Gathering F7100.2-1, and Underground Natural Gas Storage F7100.4-1 submitted by the gas utility.*

PG&E submitted the annual reports to PHMSA and SED on March 5, 2021. We attach the following 2020 Annual Reports in PDF format:

- Gas Distribution System Annual Report for PG&E (PHMSA Form F 7100.1-1).
- Gas Transmission System Annual Report for PG&E (PHMSA Form F 7100.2-1).
- Gas Transmission System Annual Report for StanPac (PHMSA Form F 7100.2-1).
- Mechanical Fitting Failure (MFF) Report for PG&E (PHMSA Form F 7100.1-2)
- Liquefied Natural Gas (LNG) Annual Report for PG&E (PHMSA Form F 7100.3-1).
- Underground Natural Gas Storage (UNGS) Annual Report for PG&E (PHMSA Form F 7100.4-1).
- General Order (GO) 112-F Annual Report

7. *Detailed forecast workpapers.*
   We attach the workpapers from the 2020 Cal Gas Report, since the forecast component of these forms is the same. Document file name "PG&E Supporting docs forecast workpapers."