

DOCKETED

Docket Number:	18-IEPR-03
Project Title:	Southern California Energy Reliability
TN #:	223386
Document Title:	Winter Demand Response Update and New Gas Hookups
Description:	Presentation by Dan Rendler, Director of Customer Programs and Assistance with SoCalGas, for the May 8, 2018 IEPR Joint Agency Workshop on Energy Reliability in Southern California
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Organization:	SoCalGas
Submitter Role:	Public
Submission Date:	5/8/2018 8:23:22 AM
Docketed Date:	5/8/2018



JOINT AGENCY WORKSHOP ON ENERGY RELIABILITY IN SOUTHERN CALIFORNIA

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WINTER DEMAND RESPONSE UPDATE

Winter Demand Response (DR) Programs

» 2016-2017 Winter:

- SoCalGas Advisory: Mass market notification campaign to core and non-core customers.
- Smart thermostat load control program:
 - 320 customers; no activations/events were called.

» 2017-2018 Winter:

- Continued the smart thermostat load control program.
 - January through March 2018
- Demonstration project on DR capabilities of gas water heaters.
 - Test is on-going and should conclude this summer.

Smart Thermostat Load Control Program



- » Lowers thermostats 4 degrees during periods of system constraint
- » DR activations last up to 4 hours
 - (5am-9am and/or 5pm-9pm)
- » Participants received \$50 incentive for enrolling and \$25 for remaining in the program

Program Recap

Customers

- 9,267 customers enrolled
- 10,798 total thermostats

Events & Activations

- Event #1: 2/20 - 2/23 (7 activations)
- Event #2: 2/26 - 3/2 (6 activations)

Results

- 60% of thermostats completed full 4 hour activation
- 20% of thermostats opted-out before the start or during an activation
- 20% of thermostats never received activation signal due to various reasons

Path Forward for Winter DR

» Next Winter (2018-19)

- Continuation of Smart Thermostat Load Control Program
- Include other DR capable smart thermostat brands
- Increase participants to 50,000 customers

» Winter DR Application

- Expand residential Smart Thermostat Load Control Program
- Pilot residential water heater DR program
- Explore technology and tariff based DR programs for C&I customers

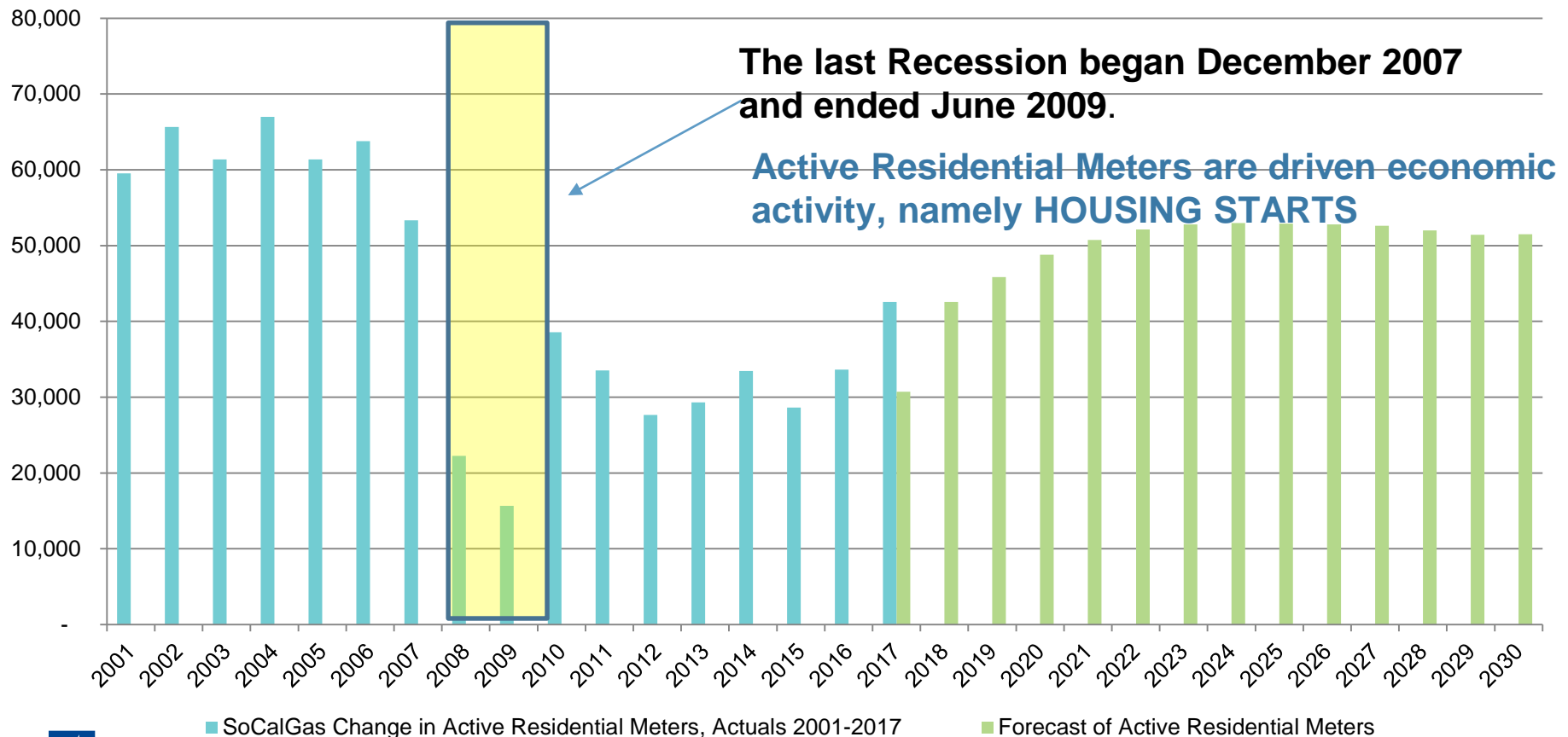
NEW GAS HOOKUPS

New Gas Hookups

- » Residential forecast is driven by new housing starts:
 - Housing start (physically breaking ground) is more likely than a (paper) permit to have construction completed and hooked up with new gas service
 - Over 95% of SoCalGas' new customer hookups are residential
 - SoCalGas forecasts active residential meters will **grow at a rate of 0.70% per year** over the next 5 years, under current assumptions of economic activity
- » Commercial & Industrial forecast is driven by economic forecast (employment)
 - For the next 5 years, the active commercial and industrial meters are expected to **decline at a rate of 0.007% per year**, on average
- » Long-term end use forecast model uses weather normalized usage per new meter

Change in Active Residential Meters

Historical Data (2001-2016) and Forecast 2017-2030

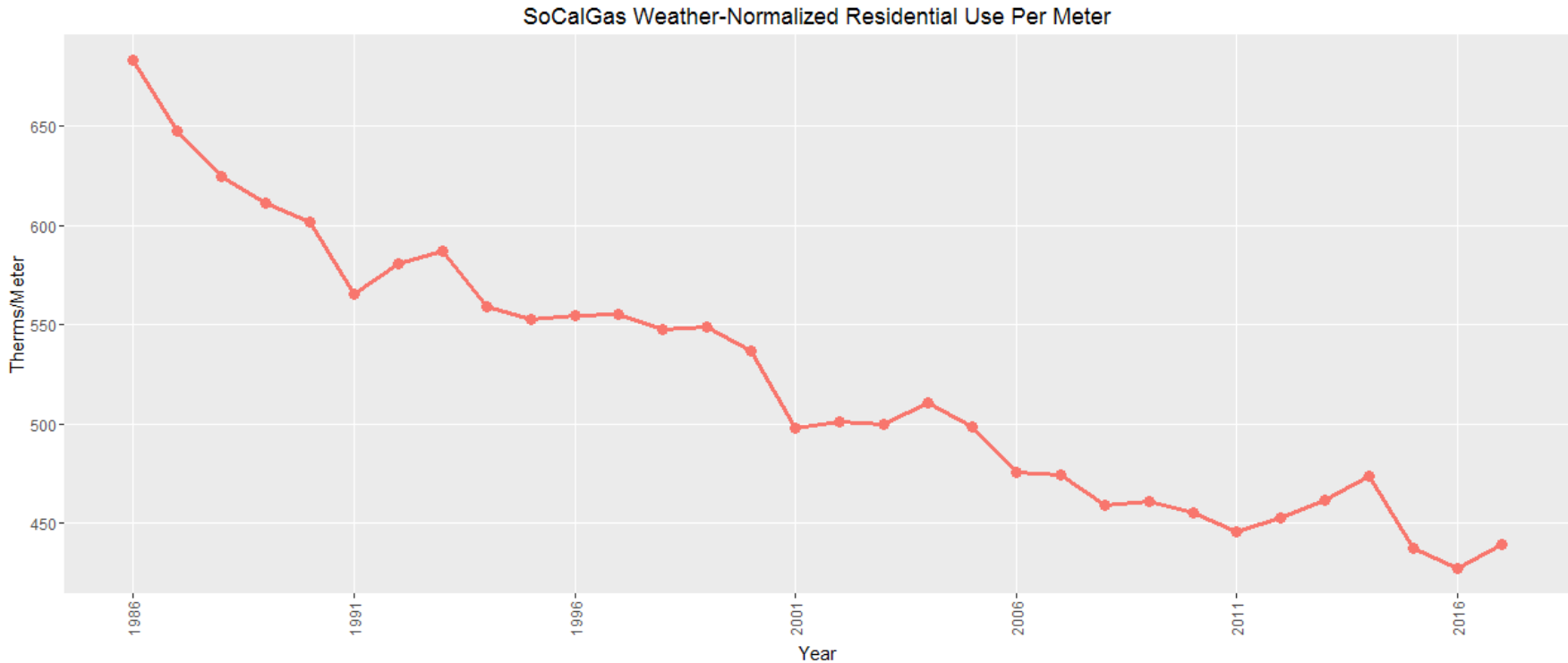


SoCalGas Annual New Customer Usage (MMcf) Forecast 2018-2020

Annual New Customer Usage (MMcf)			
<u>Year</u>	<u>Single Family</u> ¹	<u>Multi-Family</u> ²	<u>Total</u>
2018	808	304	1,112
2019	879	322	1,202
2020	929	347	1,275

1. Single Family Use Per Meter: 0.0335 MMcf
2. Multi-Family Use Per Meter: 0.0163 MMcf

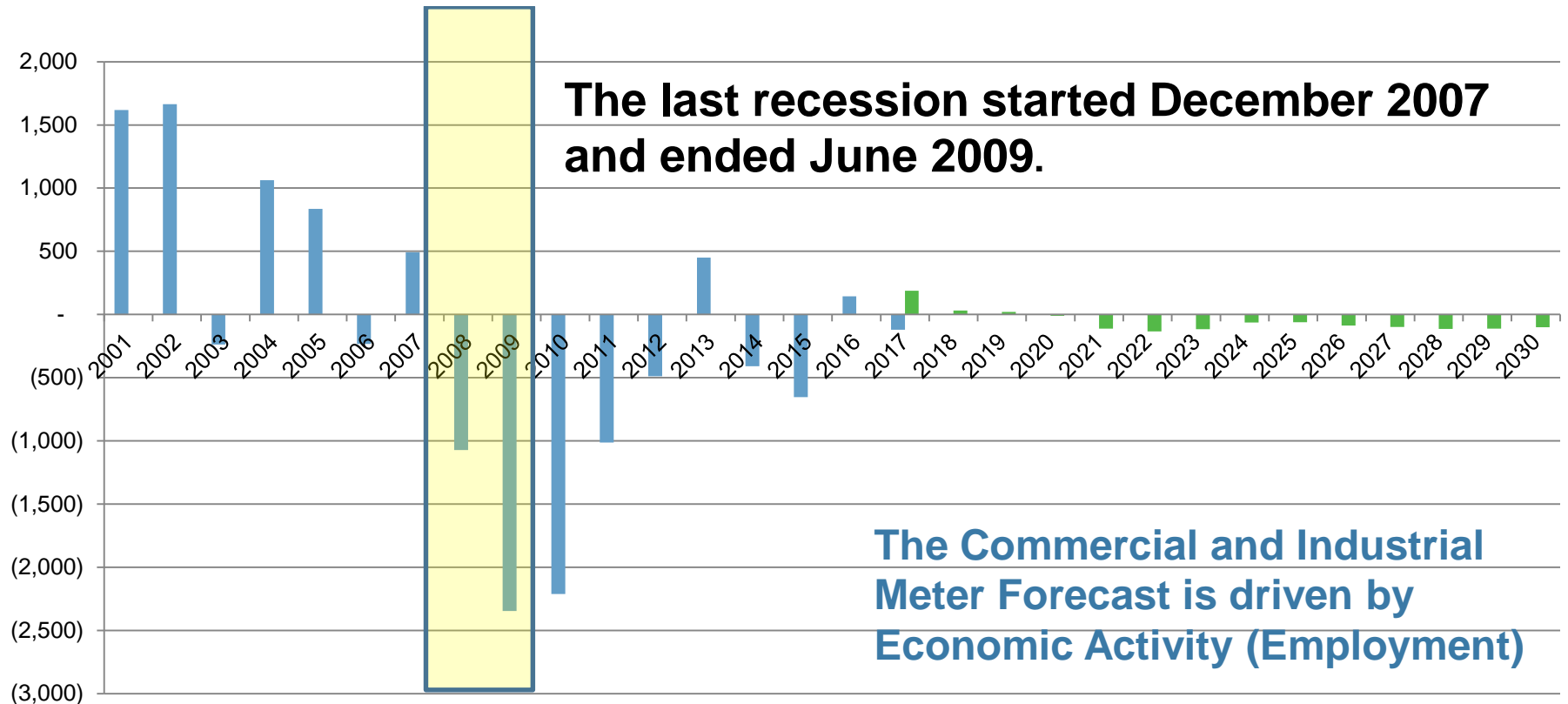
SoCalGas Residential Use Per Meter (Therms/Meter)



There continues to be a long-term trend of decreasing use per meter for residential customers due to more energy-efficient homes and appliances.

Change in Active Commercial and Industrial Meters

Historical Data (2001-2016) and Forecast 2017-2030



■ SoCalGas' Change In Active Commercial and Industrial Meters, Recorded 2001 to 2017

■ SoCalGas' Forecast of Change in Active Commercial and Industrial Meters 2017 to 2030

Questions?

» Thank you for your time and attention

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