

DOCKETED	
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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.

» 2017-2018 Winter:

- Implemented smart thermostat load control program.
 - 9,200 customers and 10,800 thermostats enrolled
 - 13 events called between 2/20-3/2

» 2018-2019 Winter:

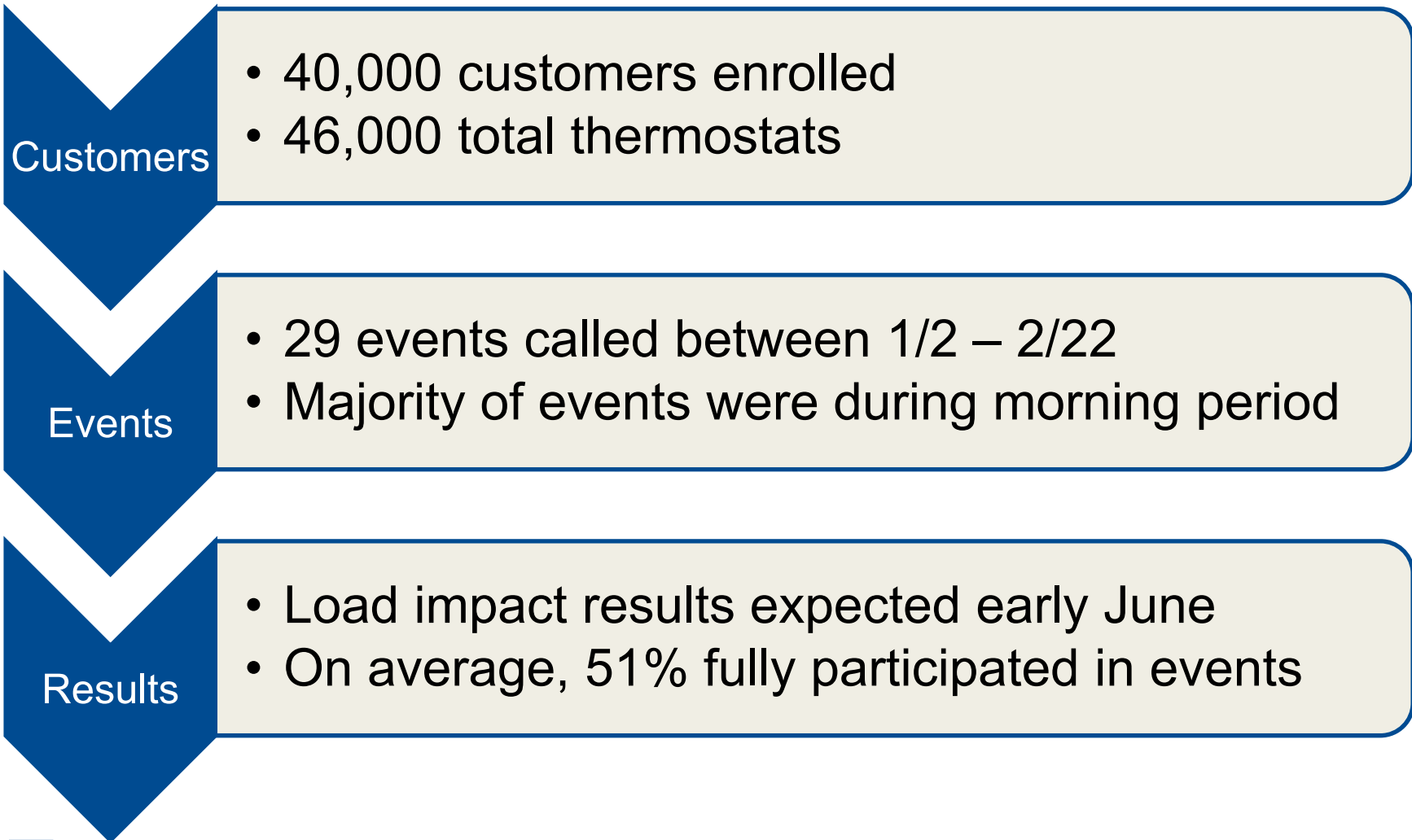
- Continued smart thermostat load control program.

Smart Thermostat Load Control Program



- » Lowers thermostats up to 4 degrees during periods of system stress
- » DR events last up to 4 hours
 - (5am-9am and/or 6pm-10pm)
- » Participants received \$50 incentive for enrolling and \$25 for remaining in the program through the winter season

Program Recap



Path Forward for Winter DR

- » Winter DR Application filed November 2018 for a suite of DR pilots:
 - Space Heating Load Control Pilot
 - Water Heating Load Control Pilot
 - Load Reduction Pilot
 - Residential Behavioral DR Pilot
 - Emerging Technologies Pilot
 - Winter Notification Campaign (*Dial It Down)

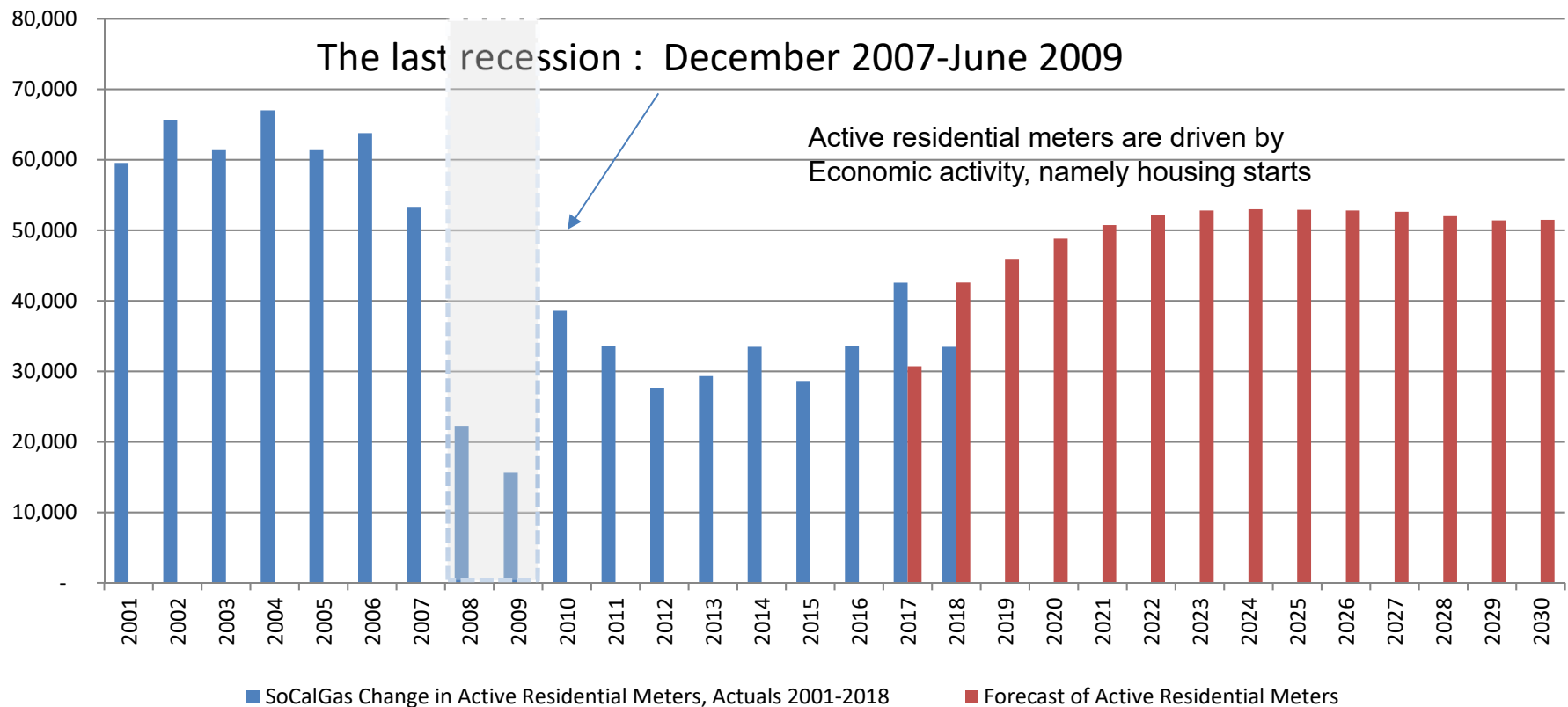
NEW GAS HOOKUPS

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 0.8% 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 0.045% per year**, on average
- » Long-term end use forecast model uses weather normalized usage per new meter

Change in Active Residential Meters

Historical Data (2001-2018) and Forecast 2019-2030



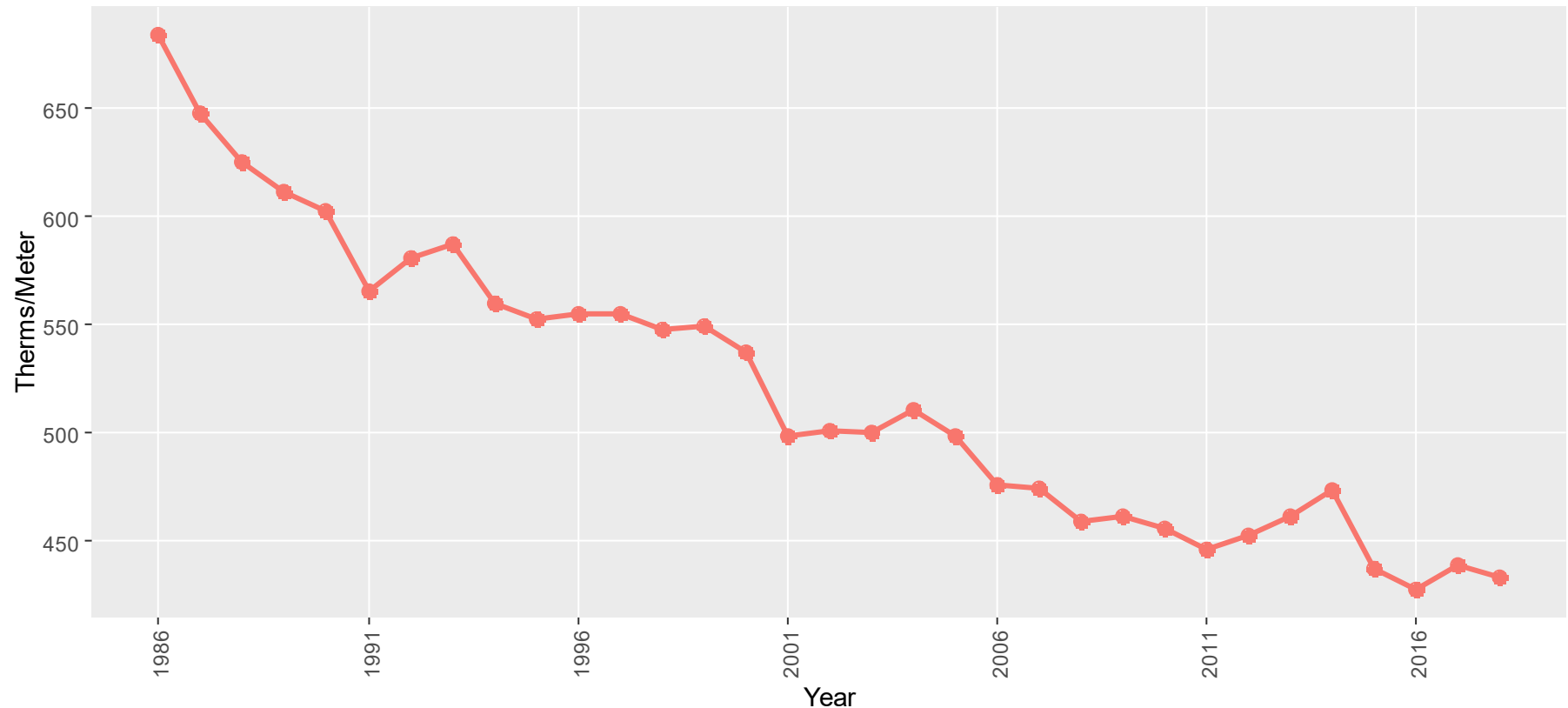
SoCalGas Annual New Customer Usage (MMcf) Forecast 2019-2021

Annual New Customer Usage (MMcf)			
<u>Year</u>	<u>Single Family¹</u>	<u>Multi-Family²</u>	<u>Total</u>
2019	879	322	1,202
2020	929	347	1,275
2021	954	365	1,319

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)

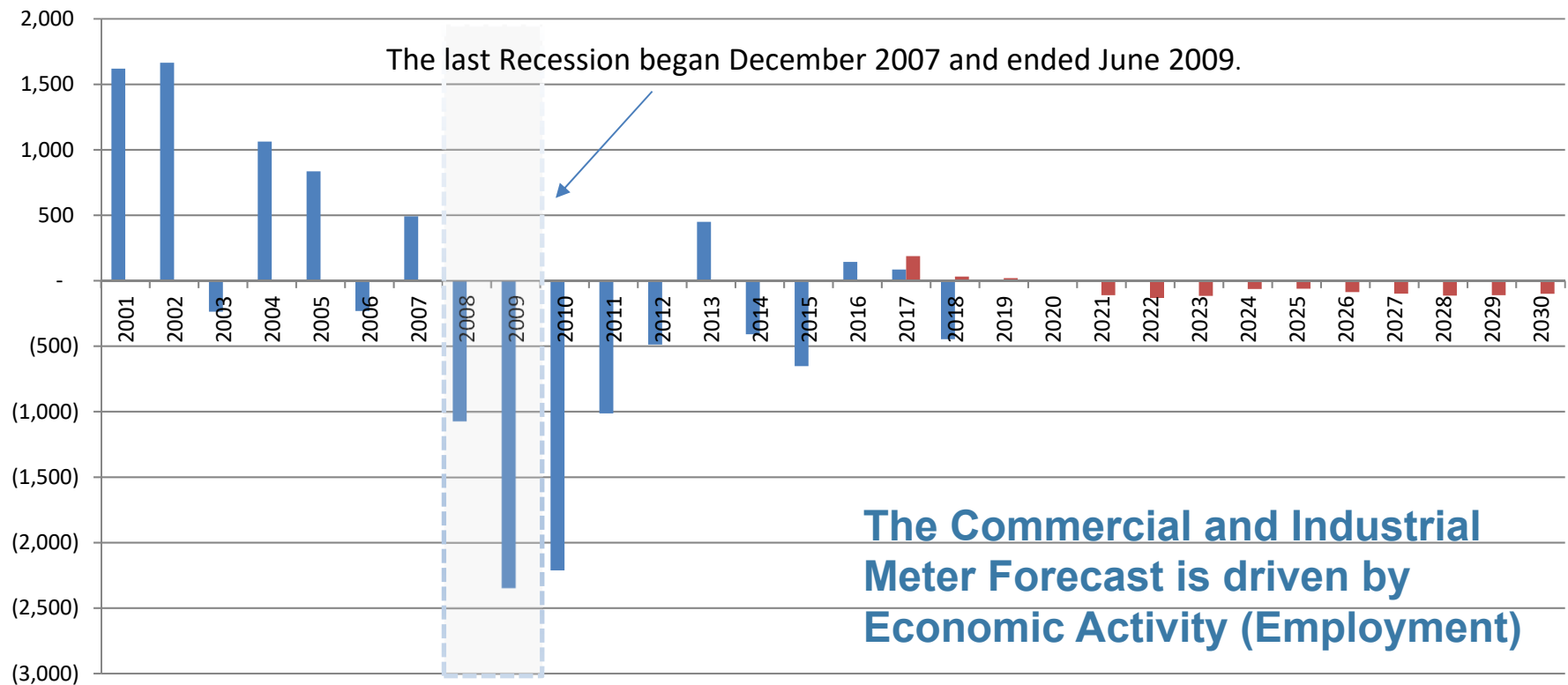
SoCalGas Weather-Normalized Residential Use Per Meter



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 (2001-2018) and Forecast 2019-2030



■ SoCalGas' Change In Active Commercial and Industrial Meters, Recorded 2001 to 2018
■ SoCalGas' Forecast of Change in Active Commercial and Industrial Meters 2019 to 2030

Questions?

» Thank you for your time and attention

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