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JOINT AGENCY WORKSHOP ON ENERGY RELIABILITY IN SOUTHERN CALIFORNIA

Dan Rendler
Director, Customer Programs & Assistance
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

Customers
• 40,000 customers enrolled
• 46,000 total thermostats

Events
• 29 events called between 1/2 – 2/22
• Majority of events were during morning period

Results
• Load impact results expected early June
• On average, 51% fully participated in events
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

The last recession: December 2007-June 2009

Active residential meters are driven by Economic activity, namely housing starts

SoCalGas Change in Active Residential Meters, Actuals 2001-2018

Forecast of Active Residential Meters
SoCalGas Annual **New** Customer Usage (MMcf) Forecast 2019-2021

<table>
<thead>
<tr>
<th>Year</th>
<th>Single Family</th>
<th>Multi-Family</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>879</td>
<td>322</td>
<td>1,202</td>
</tr>
<tr>
<td>2020</td>
<td>929</td>
<td>347</td>
<td>1,275</td>
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<tr>
<td>2021</td>
<td>954</td>
<td>365</td>
<td>1,319</td>
</tr>
</tbody>
</table>

1. Single Family Use Per Meter: 0.0335 MMcf
2. Multi-Family Use Per Meter: 0.0163 MMcf
There continues to be a long-term trend of decreasing use per meter for residential customers due to more energy-efficient homes and appliances.
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

The last Recession began December 2007 and ended June 2009.

The Commercial and Industrial Meter Forecast is driven by Economic Activity (Employment)
Questions?

» Thank you for your time and attention

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