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<tr>
<th><strong>Docket Number:</strong></th>
<th>19-IEPR-03</th>
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<tbody>
<tr>
<td><strong>Project Title:</strong></td>
<td>Electricity and Natural Gas Demand Forecast</td>
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<tr>
<td><strong>TN #:</strong></td>
<td>227205</td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>Energy Demand Forecast Efficiency and Other Demand Modifiers</td>
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<tr>
<td><strong>Description:</strong></td>
<td>Presentation by Cary Garcia of CEC</td>
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<td><strong>Filer:</strong></td>
<td>Raquel Kravitz</td>
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<td><strong>Organization:</strong></td>
<td>California Energy Commission</td>
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<td><strong>Submitter Role:</strong></td>
<td>Commission Staff</td>
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<td><strong>Submission Date:</strong></td>
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Energy Demand Forecast, Efficiency, and Other Demand Modifiers

Inputs and Assumptions for 2019 IEPR Modeling and Forecasting Activities

Cary Garcia
March 4, 2019
California Energy Commission
CED 2019 Process

CEDU 2018 Forecast → Production Cost Model → NAMGas → Electricity Rates

Energy Demand Models (Prelim CED 2019)

1st Iteration

Transportation Demand Forecast Models → Energy Demand Models

2nd Iteration
Energy Efficiency

Committed Savings
Funded with sufficiently detailed implementation plans

vs.

Reasonable expectation

Additional Achievable Savings
Energy Efficiency

AAEE transitions to Committed Savings
- 2019 Appliance and Building Standards
- 2018 IOU and POU Programs
- Rolling Portfolio consideration

New AAEE Estimates
- IOU savings from Potential and Goals Study for revised forecast
- Also including POU savings
- Non-utility programs in support of SB 350
- Future standards
Applied to the Forecast

Baseline Forecasts
– Includes only committed savings
– Original scope of AAPV now part of baseline forecast

Managed Forecasts
– Baseline forecast adjusted by AAEE savings
– Interagency agreement to use a single managed forecast set
Load-Modifying Demand Response

Non-Event Based
– TOU and Permanent Load Shifting

Event Based
– Critical Peak Pricing
– Peak Time Rebates

Data Source
– IOU load impact reports (April 2019)
– Rate forecast - residential TOU
Other Inputs/Assumptions

Climate Change
  – Scenarios from Scripps Institute of Oceanography

Transportation Electrification
  – Transit and other

Cannabis Energy Demand
  – Revisit CED 2017 analysis
CED 2019 Timeline

Aug 2019
• Preliminary Forecast Workshop

Dec 2019
• Revised Forecast Workshop

Jan 2020
• Revised Forecast Adoption
Questions?