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<th><strong>Docket Number:</strong></th>
<th>21-IEPR-06</th>
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<tr>
<td><strong>Project Title:</strong></td>
<td>Building Decarbonization and Energy Efficiency</td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>Presentation - California Industrial Natural Gas Demand</td>
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<tr>
<td><strong>Description:</strong></td>
<td>S1.1C Melissa Jones, 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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California Energy Commission

California Industrial Natural Gas Demand
Melissa Jones, Senior Energy Policy Specialist
August 3, 2021
Gas Demand In California

- Residential & Small Commercial – Space and water heating
- Commercial – Restaurants, educational facilities, commercial laundries, health care, food processing, etc.
- Industrial - Fuel and process heat
- Electric generation
  - Electric system reliability
  - Renewable integration
- Transportation fuels
  - Oil refineries
  - CNG/RNG fueling stations
- Gas delivered to customers via extensive gas infrastructure

Images courtesy of the CEC, energystar.gov, Sacramento State University, National Park Service, UC Davis Medical Center, and CA Department of Industrial Relations.
California Natural Gas Consumption Estimates (MM Therms)

- Annual gas demand varies from year to year depending on weather and economic conditions.
- EG gas demand varies the most with weather and hydro conditions.
- Non-EG demand relatively flat over the last two decades.
- 2020 dip in industrial demand with COVID as refining was down.
California Natural Gas Consumption

2000:
- Residential: 21.2%
- Commercial: 10.1%
- Industrial: 31.9%
- Vehicle: 36.7%
- Electric Gen: 0.1%

2010:
- Residential: 22.5%
- Commercial: 11.3%
- Industrial: 32.0%
- Vehicle: 33.5%
- Electric Gen: 0.6%

2020:
- Residential: 22.3%
- Commercial: 11.5%
- Industrial: 34.5%
- Vehicle: 30.3%
- Electric Gen: 1.5%

Legend:
- Residential
- Commercial
- Industrial
- Vehicle
- Electric Gen
California Gas Demand 2020 - 2030 Baseline Forecast (MMTherms)

- CEC 2019 IEPR Forecast shows slight decline for residential commercial and industrial through 2030
- CEC Plexos modeling shows declining EG demand
- PG&E and SoCalGas forecasting decline of about 1% per year
- Industrial & Mining ranges from 31% to 33% of total gas demand
Thank You!