<table>
<thead>
<tr>
<th><strong>Docket Number:</strong></th>
<th>19-IEPR-03</th>
</tr>
</thead>
<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>227211</td>
</tr>
<tr>
<td><strong>Document Title:</strong></td>
<td>Statewide Base Year Data</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>Presentation by Mark Palmere of CEC</td>
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<tr>
<td><strong>Filer:</strong></td>
<td>Raquel Kravitz</td>
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<tr>
<td><strong>Organization:</strong></td>
<td>California Energy Commission</td>
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<tr>
<td><strong>Submitter Role:</strong></td>
<td>Commission Staff</td>
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<td><strong>Submission Date:</strong></td>
<td>3/1/2019 11:42:06 AM</td>
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<td><strong>Docketed Date:</strong></td>
<td>3/1/2019</td>
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Statewide Base Year Data

Inputs and Assumptions for Transportation Energy Demand Forecasts

Rosenfeld Hearing Room

March 4, 2019

Mark Palmere
Demand Analysis Office
Energy Assessments Division
Mark.Palmere@energy.ca.gov / 916-654-3947
Economic and Demographic Data Come From Multiple Sources

- 2017 household data comes from the Census Bureau’s American Community Survey.
- In 2017 (most recent year available), there were little over 13 million households in California.
- 2017 Gross State Product and personal income data comes from Moody’s.
- 2017 state population data comes from California Department of Finance.

Source: 2017 American Community Survey (ACS) and Department of Motor Vehicles (DMV)
Household Size & Employment

Household Distribution by Size

Average Household Size: 2.76 people per HH

Household Distribution by Number of Workers

Source: 2017 American Community Survey (ACS)
Household Income and Number of Vehicles

Household Distribution by Income

- Statewide Median Income: $82,000

Household Distribution by Number of Vehicles

- Average Vehicles per HH: 1.95

Source: 2017 American Community Survey (ACS)
Household Distribution by Dwelling Type

Source: 2017 American Community Survey (ACS)

Population by Education Attained

- Graduate Degree, 8.6%
- Bachelor’s degree, 15.2%
- Associate’s degree, 5.7%
- Some college, 18.5%
- High School Diploma (incl. GED), 17.1%
- Less than High School Diploma (incl. current students), 27.0%
- None, 4.3%
- N/A (less than 3 years old), 3.6%
Share of Passenger Car Sales is Falling

Source: Staff Analysis of DMV Vehicle Registration Data

California New Light-Duty Vehicle Share by Vehicle Type

<table>
<thead>
<tr>
<th>Vehicle Type</th>
<th>2013</th>
<th>2017</th>
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</thead>
<tbody>
<tr>
<td>Cars</td>
<td>60%</td>
<td>50%</td>
</tr>
<tr>
<td>Crossover SUVs</td>
<td>30%</td>
<td>40%</td>
</tr>
<tr>
<td>Full-Size SUVs</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>Pickups</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Vans</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

Source: Staff Analysis of DMV Vehicle Registration Data
California Sees Explosive Growth in PEV Sales

Source: Staff Analysis of DMV Vehicle Registration Data
California Sees Growth in Vehicle Miles at Rate Similar to Nationwide Numbers

Source: Federal Highway Administration, Highway Statistics Series VM-2
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