<table>
<thead>
<tr>
<th><strong>DOCKETED</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Docket Number:</strong></td>
<td>17-IEPR-07</td>
</tr>
<tr>
<td><strong>Project Title:</strong></td>
<td>Integrated Resource Planning</td>
</tr>
<tr>
<td><strong>TN #:</strong></td>
<td>216191</td>
</tr>
<tr>
<td><strong>Document Title:</strong></td>
<td>Presentation - SB 350 Integrated Resource Planning Interagency Meeting</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>**** SUPERCEDES TN 216159 **** - By: Rajinder Sahota, California Air Resources Board</td>
</tr>
<tr>
<td><strong>Filer:</strong></td>
<td>Raquel Kravitz</td>
</tr>
<tr>
<td><strong>Organization:</strong></td>
<td>California Air Resources Board</td>
</tr>
<tr>
<td><strong>Submitter Role:</strong></td>
<td>Public Agency</td>
</tr>
<tr>
<td><strong>Submission Date:</strong></td>
<td>2/23/2017 8:21:21 AM</td>
</tr>
<tr>
<td><strong>Docketed Date:</strong></td>
<td>2/23/2017</td>
</tr>
</tbody>
</table>
Outline

- Interagency Process
- 2017 Scoping Plan Update
SB 350 Requirements

- “[...]greenhouse gas emissions reduction targets established by the State Air Resources Board, in coordination with the commission and the Energy Commission, for the electricity sector and each load-serving entity that reflect the electricity sector’s percentage in achieving the economy wide greenhouse gas emissions reductions of 40 percent from 1990 levels by 2030.”

- ARB must “establish” sector and individual LSE planning targets.

ARB Process

- Public Workshops
- Formal proposal with formal comment periods
- ARB Board action
CPUC and CEC have significant and equal roles in establishing sector and individual LSE planning targets

Each energy agency has its own required process

3 agencies will facilitate joint informal public process

- Avoids duplication and streamlines process for agencies and stakeholders
- Workshops will be attended by staff from three agencies, even if not noticed as joint workshops
- Agencies will collaborate on public materials and jointly review comments and stakeholder feedback as appropriate
- ARB website will link to energy agency websites on this process and include any public workshop meeting details
2017 Scoping Plan Background

- Most aggressive climate target in North America: 40% reduction in GHGs by 2030 compared to 1990 levels
  - Builds on California’s success reducing GHGs
  - Aligns California with the rest of the world in climate change fight

- Proposed Plan draws on the successes and the lessons learned from the previous plans

- Proposes continuing major successful programs that have served as a model for other states and jurisdictions around the world

- Proposed Plan achieves GHG reduction target and continues to make our communities and economy more resilient and equitable at the same time

- Scoping Plan and IRP are separate processes that address different needs in response to different statutory requirements
2017 Scoping Plan Objectives

- Achieve 2030 target
- Provide direct GHG emissions reductions
- Provide air quality co-benefits
- Minimize emissions leakage
- Support climate investment in disadvantaged communities
- Protect public health
- Facilitate sub-national and national collaboration
- Support cost-effective and flexible compliance
- Support Clean Power Plan and other federal action
Proposed Scoping Plan Summary

- *SB 350 – increase renewable energy and energy efficiency
- *SB 1383 – Short-Lived Climate Pollutant Reduction Plan
- *SB 375 – support sustainable community development
- *Mobile Source Strategy – help State achieve its federal and state air quality standards
- *Low Carbon Fuel Standard
- *Sustainable Freight Action Plan
- New Refinery Efficiency Measure – 20 percent by 2030
  - Fewer GHG emissions per barrel of a refined product
- Post-2020 Cap-and-Trade Program
  - Trading and offset usage limit of 8 percent

*Existing commitments included in any Scoping Plan Update
Energy Sector Details

- Increase Renewables Portfolio Standard to 50 percent by 2030
- Doubling of energy efficiency savings in natural gas and electricity end uses statewide by 2030
- Decrease methane emissions by 40 percent by 2030
- Behind-the-meter solar photovoltaic to reach 18.2 GW statewide by 2030
- Energy storage procurement target of 1.325 GW to be met by 2020
- Passenger ZEV/PHEV fleet population of 4.2 million by 2030
### Estimated GHGs by Sector

<table>
<thead>
<tr>
<th>Sector</th>
<th>1990 GHGs</th>
<th>2030 Scoping Plan GHG Range</th>
<th>% change from 1990</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>26</td>
<td>24-25</td>
<td>-8 to -4</td>
</tr>
<tr>
<td>Residential and Commercial</td>
<td>44</td>
<td>38-40</td>
<td>-14 to -9</td>
</tr>
<tr>
<td><strong>Electric Power</strong></td>
<td>108</td>
<td>42-62</td>
<td>-61 to -43</td>
</tr>
<tr>
<td>High GWP</td>
<td>3</td>
<td>8-11</td>
<td>167 to 267</td>
</tr>
<tr>
<td>Industrial</td>
<td>98</td>
<td>77-87</td>
<td>-21 to -11</td>
</tr>
<tr>
<td>Recycling and Waste</td>
<td>7</td>
<td>8-9</td>
<td>14-29</td>
</tr>
<tr>
<td>Transportation (including TCU)</td>
<td>152</td>
<td>103-111</td>
<td>-32 to -27</td>
</tr>
<tr>
<td>Net Sink</td>
<td>-7</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td><strong>Sub Total</strong></td>
<td><strong>431</strong></td>
<td><strong>300-345</strong></td>
<td><strong>-30 to -20</strong></td>
</tr>
<tr>
<td>Cap-and-Trade</td>
<td>n/a</td>
<td>40-85</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>431</strong></td>
<td><strong>260</strong></td>
<td><strong>-40</strong></td>
</tr>
</tbody>
</table>
Schedule

- CEQA comment period: January 20 – March 6
- Workshops today and in early March
- February Board Hearing
- Spring 2017: Release Final Proposed Scoping Plan
- Spring 2017: Final Board consideration
- Fall 2017: ARB Board Consideration of SB 350 Sector and Individual Planning Targets