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<th><strong>DOCKETED</strong></th>
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<tr>
<td><strong>Docket Number:</strong></td>
<td>16-OIR-04</td>
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<tr>
<td><strong>Project Title:</strong></td>
<td>Integrated Resource Plans (Publicly Owned Utilities)</td>
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<tr>
<td><strong>TN #:</strong></td>
<td>214842</td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>Renewable Energy IRP workshop CEC Staff Presentation</td>
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<tr>
<td><strong>Description:</strong></td>
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<td><strong>Filer:</strong></td>
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<td><strong>Organization:</strong></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>
<td>12/16/2016 2:24:35 PM</td>
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<td><strong>Docketed Date:</strong></td>
<td>12/16/2016</td>
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Renewable Energy IRP workshop CEC Staff Presentation

Additional submitted attachment is included below.

Renewables Lead Commissioner Workshop

California Energy Commission
Courtney Smith
December 13, 2016
Plan for Today

• Staff presentation – Policy Background and Workshop Goals
• Presentations from Energy Professionals
• Presentations from Representatives of POUs Required to Submit IRPs and Representative Organizations
• Public Comments
• Lead Commissioner Concluding Remarks
Workshop Purpose

• One of a series of workshops conducted by the Energy Commission on Integrated Resource Plan (IRP) development

• Purpose:
  1. Expand understanding of barriers POUs may face in reaching 50% RPS
  2. Identify data/information that CEC can provide to help POUs in IRP development
Key State Energy Policies

- Greenhouse Gas Reduction Policies
- Clean Energy Policies
- Energy Efficiency Programs
- Toxic and Criteria Pollutant Reductions
- Transportation Policies
- Water – Energy Efficiency
- Sustainable Land Use Planning
SB 350 Overview

- SB 350 Extends CA’s RPS to 50% by 2030
- Sets Goal of Doubling Energy Efficiency by 2030 for Buildings and Retail End Uses
- Requires Emission Targets for the Electricity Sector and LSEs to Achieve the Statewide 2030 GHG Goal
- Requires Large Utilities to Develop Integrated Resource Plans
  - Requires CEC to develop IRP guidelines for POUs
  - Based on current data, largest 16 POUs must submit IRPs
SB 350 - RPS Changes

• Expanded renewable energy procurement targets
  – 40% by 12/2024
  – 45% by 12/2027
  – 50% by 12/2030

• Long term contracting requirement

• Increased Portfolio Balance Requirements
Renewables Must Double by 2030

Actual Renewable Percent by Year and Future RPS Targets

Integrated Resource Plans

• IRP: A utility’s long term integrated plan for meeting forecasted energy demand while also meeting regulatory requirements through a combination of supply side and customer side resources and programs

• Also provides a framework for evaluation

• Update every 5 years
POUs Required to Submit IRPs*

<table>
<thead>
<tr>
<th>Largest POUs (&gt;700 GWh/year, Ave.) Subject to IRPs</th>
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<tbody>
<tr>
<td>LA Dept. of Water and Power</td>
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<tr>
<td>Sacramento Municipal Utility Dist.</td>
</tr>
<tr>
<td>Imperial Irrigation District</td>
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<tr>
<td>Silicon Valley Power</td>
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<tr>
<td>Modesto Irrigation District</td>
</tr>
<tr>
<td>Anaheim Public Utilities</td>
</tr>
<tr>
<td>Riverside Public Utilities</td>
</tr>
<tr>
<td>Turlock Irrigation District</td>
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* Based on latest CEC data
Getting to 50%

Through the IRP process, POUs will be identifying the opportunities and challenges of integrating increasing amounts of renewables. Some of the considerations include:

– Renewables mix and integration
– DER growth
– Flexible loads and changing demand patterns
– Transmission needs
– Needs and opportunities of specific communities
– Regional coordination
What We Hope to Hear

• Issues POUS are Considering
• Opportunities
• Challenges
• Resource Constraints
• Information and Resource Needs
Public Comment

Submit Written Comments

- Comments due 5:00 PM PT: Dec. 30, 2016
- Email to: docket@energy.ca.gov
- Include docket number 16-OIR-04 and indicate Lead Commissioner Workshop on Renewable Energy and the IRPs in the subject line.
Workshop Follow-Up

• Presentations and Comments Available
  • Docket: 16-OIR-04
  • Project Title: Integrated Resource Plans (Publicly Owned Utilities)

Contacts at Energy Commission

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