

DOCKETED

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Renewable Energy in Publicly Owned Utility Integrated Resource Planning



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

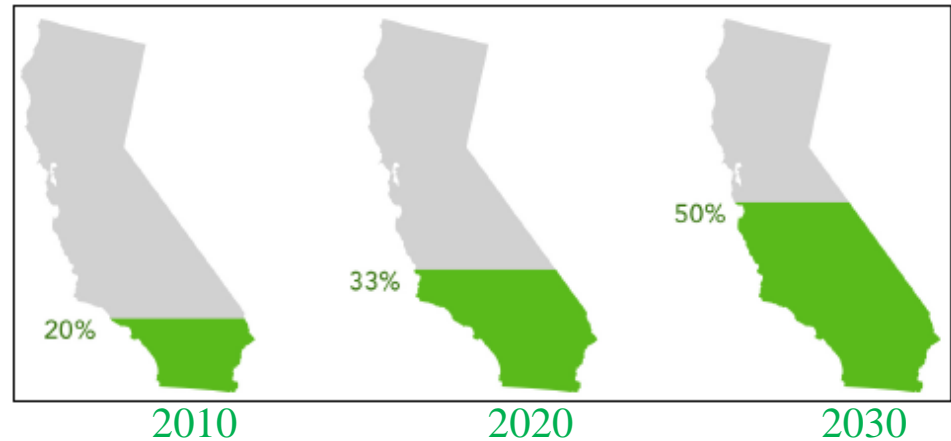
- SB 350 Extends CA's RPS to 50% by 2030
- Sets Goal of Doubling Energy Efficiency by 2030 for Buildings and Retail End Uses
- Requires Emission Targets for the Electricity Sector and LSEs to Achieve the Statewide 2030 GHG Goal
- Requires Large Utilities to Develop Integrated Resource Plans
 - Requires 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

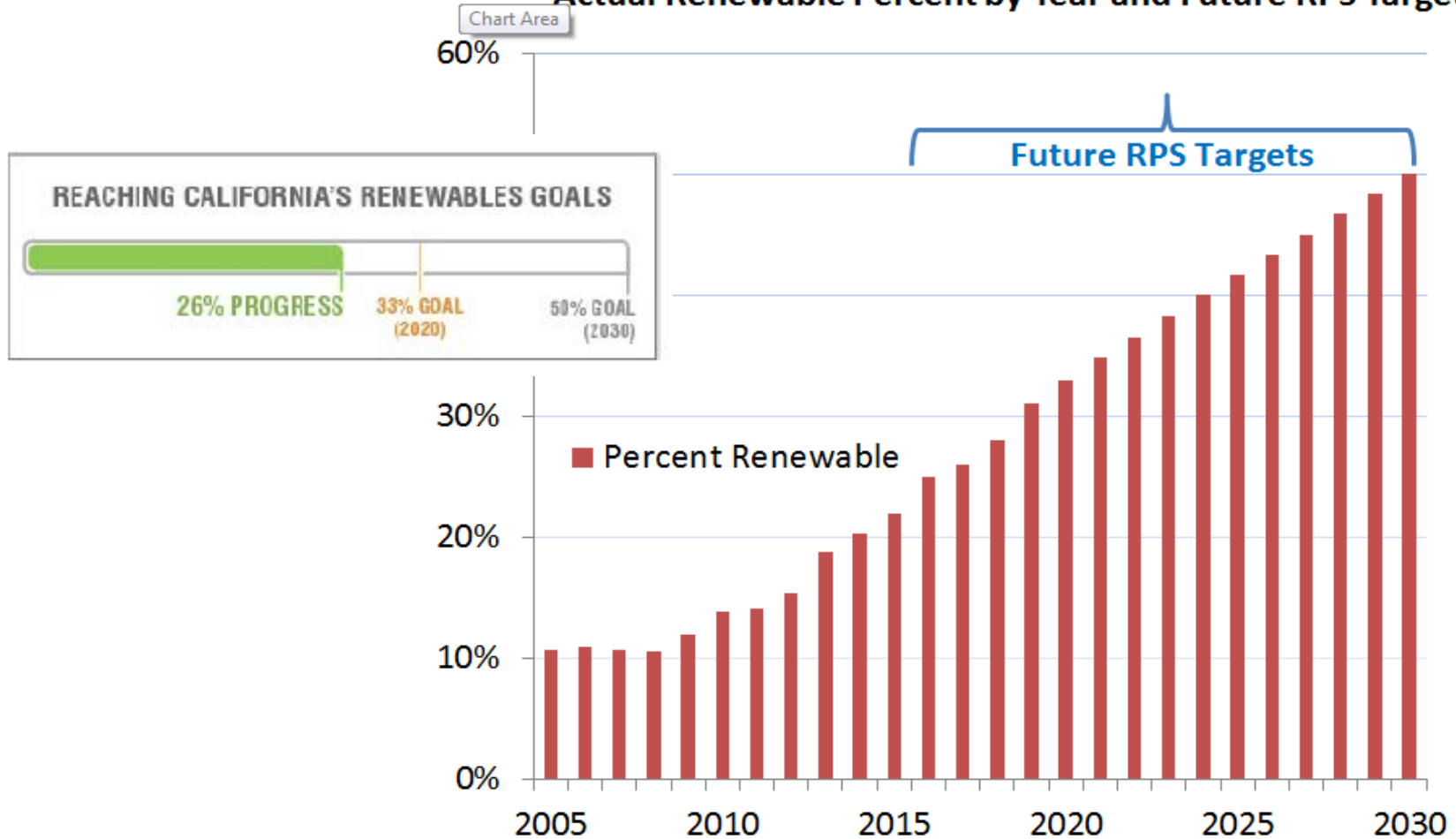


- Long term contracting requirement
- Increased Portfolio Balance Requirements



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*

Largest POUs (>700 GWh/year, Ave.) Subject to IRPs

LA Dept. of Water and Power	Roseville Electric
Sacramento Municipal Utility Dist.	Burbank Water and Power
Imperial Irrigation District	City of Vernon
Silicon Valley Power	Pasadena Water and Power
Modesto Irrigation District	Glendale Water and Power
Anaheim Public Utilities	San Francisco (City and County)
Riverside Public Utilities	City of Palo Alto
Turlock Irrigation District	Redding Electric Utility

* 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)

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