
Renewable Energy Transmission Initiative 2.0 Objectives, Overview, and Questions

Presentation to Western Clean Energy Advocates

January 8, 2016



California Public
Utilities Commission



California Energy
Commission



California ISO

RETI 2.0 Objectives

- Statewide, non-regulatory planning effort to help meet statewide GHG and renewable energy goals.
- Explore combinations of renewable generation resources in California and throughout the West that can best meet goals
- Identify land use and environmental opportunities and constraints to accessing these resources
- Build understanding of transmission implications of renewable scenarios, and identify common transmission elements
- Inform future planning and regulatory proceedings



California Public
Utilities Commission



California Energy
Commission



California ISO

Plenary Group

Conceptual Process Timeline

Timeframe	Goal
First Quarter 2016	Define goals Gather background data, studies Recommend approach
Second Quarter 2016	Propose resource combinations Review and refine Construct system scenarios
Third Quarter 2016	Compare scenarios Identify common solutions Identify follow-on tasks



California Public
Utilities Commission



California Energy
Commission



California ISO

January: Current knowledge and Planning Goals

Questions to explore:

- Existing transmission system and environmental analysis capacity
 - Existing data, studies, models of environmental/land use sensitivity
 - ELUTIG Workshop: Tentative Date January 22nd
 - Existing transmission system and planned/potential upgrades
 - TTIG Public Workshop: Tentative date January 22nd
- What are the goals for which RETI 2.0 is planning?
 - Ballpark quantitative targets for renewable energy to meet 50% by 2030
 - Renewable implications to meet 40% economy-wide GHG goals by 2030
 - Indicative targets for system flexibility; resource diversity; curtailment; export
- What are the “rest-of-the-system” parameters we should plan for?
 - Which demand/supply parameters matter most (eg EVs, DG, EE)
 - Retirements
 - Climate change impacts on grid, generators, demand
 - Renewables goals of other states

February: Resource Values

Questions to explore:

- What do we know about the capacity, energy, ancillary service, and system value, and development cost, of individual resource areas and technologies?
- What do we know about how different resources complement each other to provide system value?
- What do we know about building resource combinations?
- What do we know about evaluating different resource combinations?



California Public
Utilities Commission



California Energy
Commission



California ISO