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Renewable Energy Transmission Initiative v2.0

Plenary Group
Workshop on Renewable Resource Areas and Values
March 16, 2016

Brian Turner
RETI 2.0 Project Director
California Natural Resources Agency



**California Public
Utilities Commission**



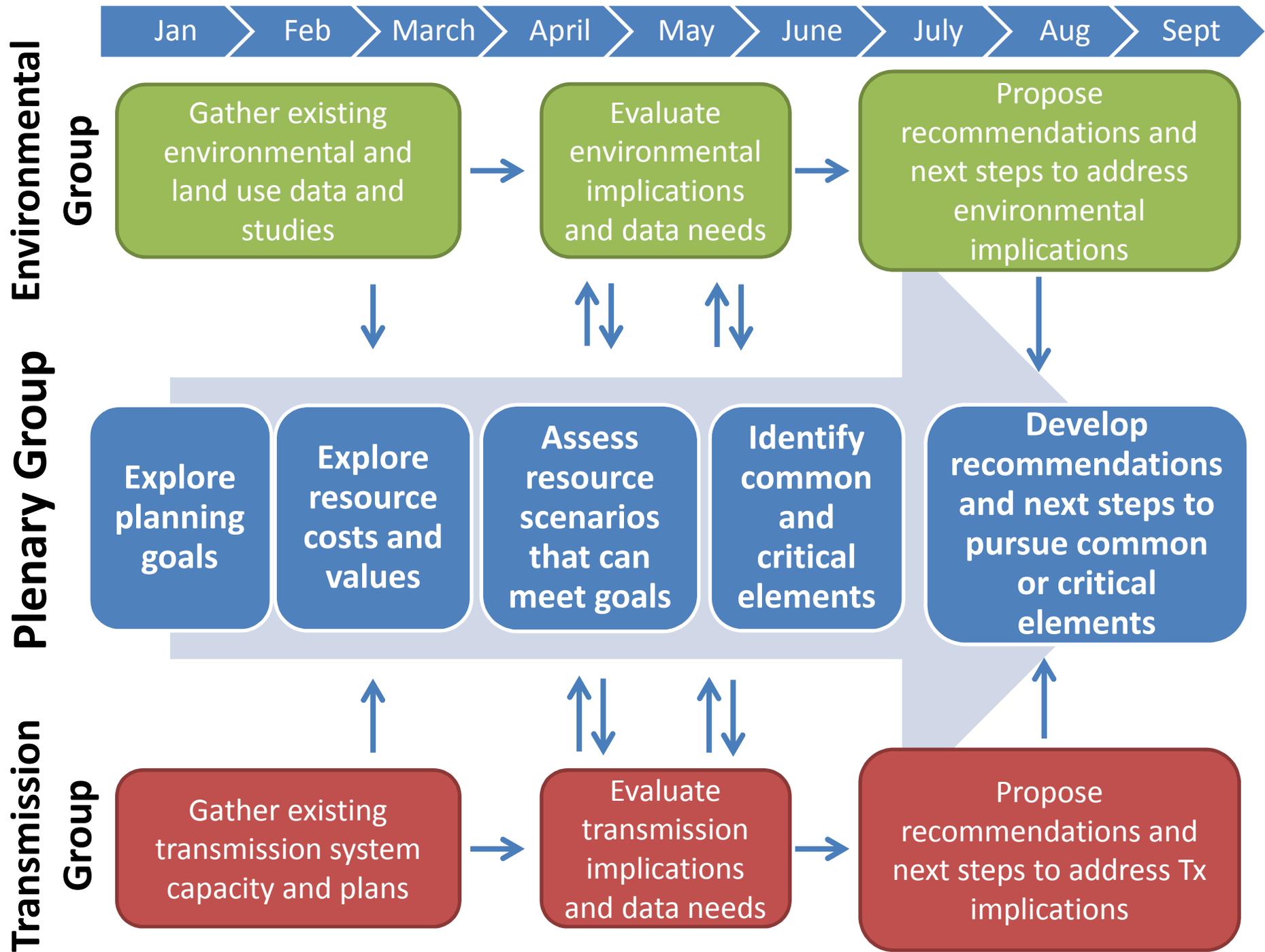
**California Energy
Commission**



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
- Build understanding of transmission implications of renewable scenarios, and identify common transmission elements
- Identify land use and environmental opportunities and constraints to accessing these resources
- Inform future planning and regulatory proceedings



Progress to date

Plenary Group

- January 29: Planning Goals
- March 16 (today): Renewable resource areas and values
- March 28 (tentative): Studies of 2030 portfolios
- April 15 (tentative): Draft initial scenarios

Environmental and Land Use Technical Group

- November 22 and December 4: Existing environmental data, tools, and studies
- January 22: Summary of compiled data and proposed approach
- April 15 (tentative): Recommendations for assessing scenarios

Transmission Technical Group

- January 22: Existing transmission system, current plans, and pending proposals
- April 15 (tentative): Summary of compiled data and recommendations for assessing scenarios

Today's workshop: Renewable resource areas and values

Agenda

- Introductions and orientation
 - Renewable energy zones, costs, and values underlying the CPUC's RPS Calculator
 - Renewable energy cost variations in CEC's Cost of Generation model
 - Renewable Energy Action Team (REAT) database of projects under development
- Lunch Break -----
- Utility panel: perspectives on 2030 resource planning and renewable resource zones
 - Developer and advocate panel: recent data and expert insights regarding different renewable resource areas and generation technology capabilities

Today's workshop: Renewable resource areas and values

Discussion questions

1. What renewable energy zones in California and across the West may be of most interest to California utilities and developers by the 2030 timeframe?
2. Costs: What is the latest data regarding the costs of various renewable technologies in different resources zones? Has new technology or more efficient practices changed costs dramatically? What costs may foreseeably change significantly?
3. Values: What is the latest data or analysis regarding the values (energy, capacity, flexibility, ancillary, etc) that various renewable technologies in different resources zones can provide to the utility or to markets? Has new technology or more efficient practices changed the values that resources can provide to the grid dramatically? What values may foreseeably change significantly?
4. Utility interest: How do utility resource planners plan to supply electricity in 2030 that is at least 50% renewable, 40% lower in GHG, while also safe, reliable, and as low cost as possible? What types of resources do they expect will be needed by their company to meet their mandates?
5. Commercial interest: How do commercial renewable interests see the greatest opportunity for responsible development? Where are they most interested in offering projects?

Public Comment

Oral comments: The Plenary Group will accept oral comments during the meeting. Comments may be limited to three minutes and will become part of the public record for this stakeholder process.

Written comments should be submitted by 4:00 p.m. on March 30, 2016. Please submit comments to the Energy Commission using the Energy Commission's e-commenting feature by going to the RETI 2.0 webpage <http://www.energy.ca.gov/reti/> and click on the "Submit eComment" link. A full name, e-mail address, comment title, and either a comment or an attached document (.doc, .docx, or .pdf format) is mandatory.

Thank you!

Brian Turner

RETI 2.0 Project Director

California Natural Resources Agency

Brian.Turner@resources.ca.gov

415-589-1118



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