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Renewable Energy Transmission Initiative v2.0

Environmental and Land Use Technical Group County Meeting

July 21, 2016

Brian Turner RETI 2.0 Project Director California Natural Resources Agency





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Agenda for Workshop

- Orientation to Renewable Energy Transmission Initiative 2.0 and Transmission Assessment Focus Areas (TAFAs)
- Orientation to Environmental and Land Use Technical Group and DataBasin tools
- 3. Roundtable Discussion with County Representatives
- 4. Public comment and next steps





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RETI 2.0 Background





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Renewable Energy Transmission Initiative v2.0

- Cooperative project of four state and one federal agency
- 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
- Accelerated, agency-driven, high-level assessment to inform future planning and regulatory proceedings



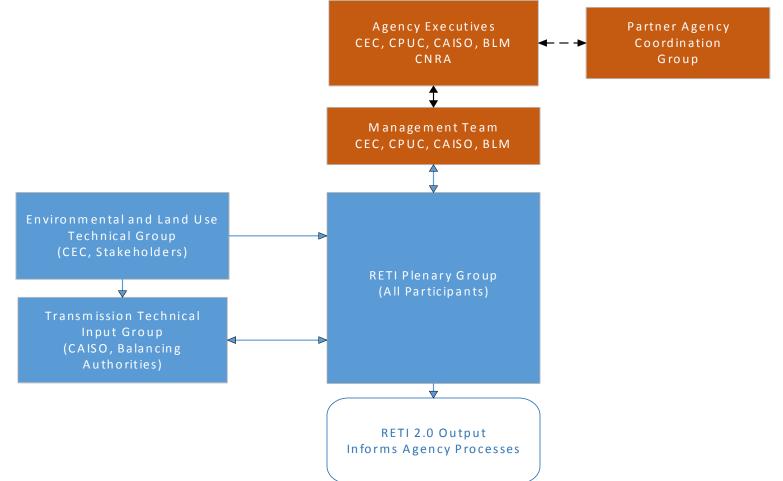


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Organizational structure





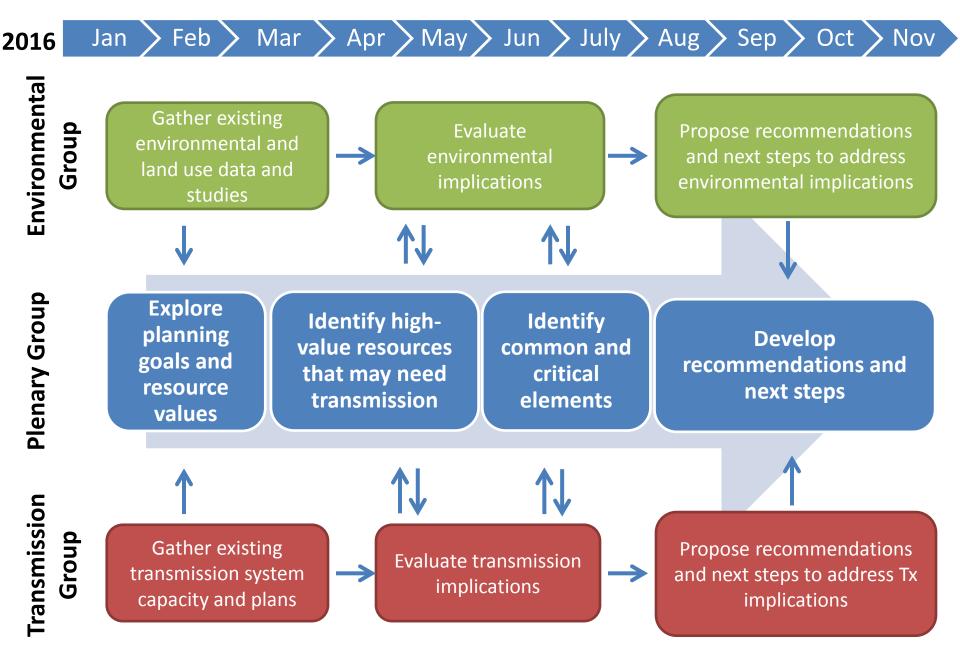


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RETI 2.0 Process and Timeline



Transmission Assessment Focus Area: Approach

Explore planning goals and resource values

Identify highvalue resources that may need transmission

- 1. How much renewables *might* we need?
 - Bookend scale of renewable need by 2030
 - Sources include IEPR, Pathways
- 2. Which resources *might* be important by 2030?
 - Review resource costs and values in 2030 context to identify resources and zones of potential value for 2030
 - Sources include industry and stakeholder comments, academic and government studies
- 3. How much renewables *might* come from different areas?
 - Bookend range of renewable resources from specific areas that may be developed by 2030
 - Sources include comments, studies
- 4. <u>Might</u> this level of renewables require new transmission?
 - Match resource ranges to existing transmission capacity and identify where resource range exceeds transmission capacity
 - Sources include TPP and WECC studies, stakeholder comment





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Proposed Focus Area List

- In-state resources 1. California Desert
 - Tehachapi
 - Victorville/Barstow
 - Riverside East
 - Imperial Valley
 - San Joaquin Valley
 - Modesto to Bakersfield
 - Northern California
 - Solano and East Bay
 - Sacramento River Valley
 - Lassen & Modoc

- 2. Import/Export Paths
 - Eldorado/Mead/Marketplace
 - Palo Verde/Delaney
 - California-Oregon Intertie
 - Central and Northern Sierra
- 3. Out-of-State Projects
 - WY and NM wind
 - NV and AZ solar
 - NV geothermal
 - NW wind and geothermal
 - OOS "Delivery" projects
 - OOS "Network" projects









In-State Resources Focus Areas Summary



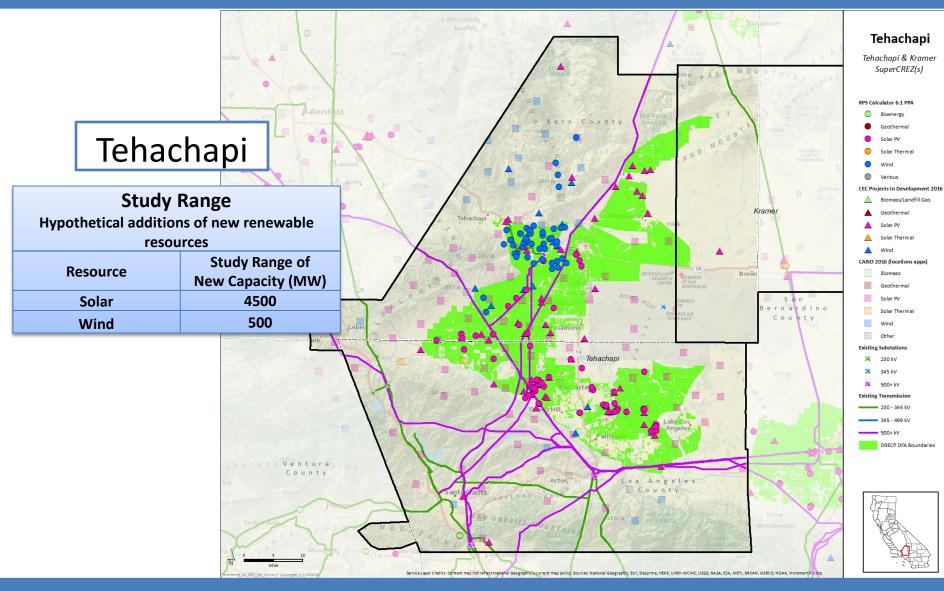


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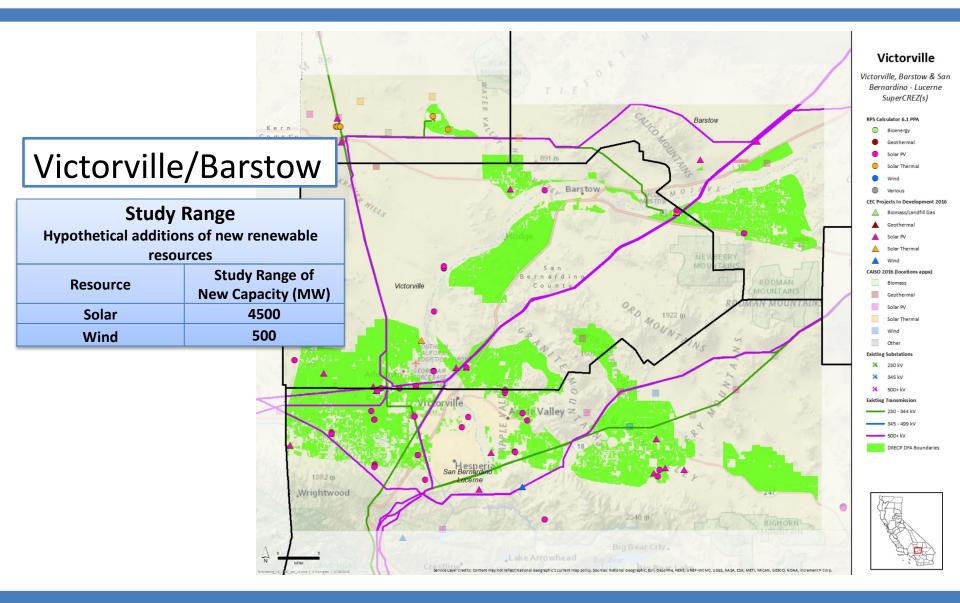








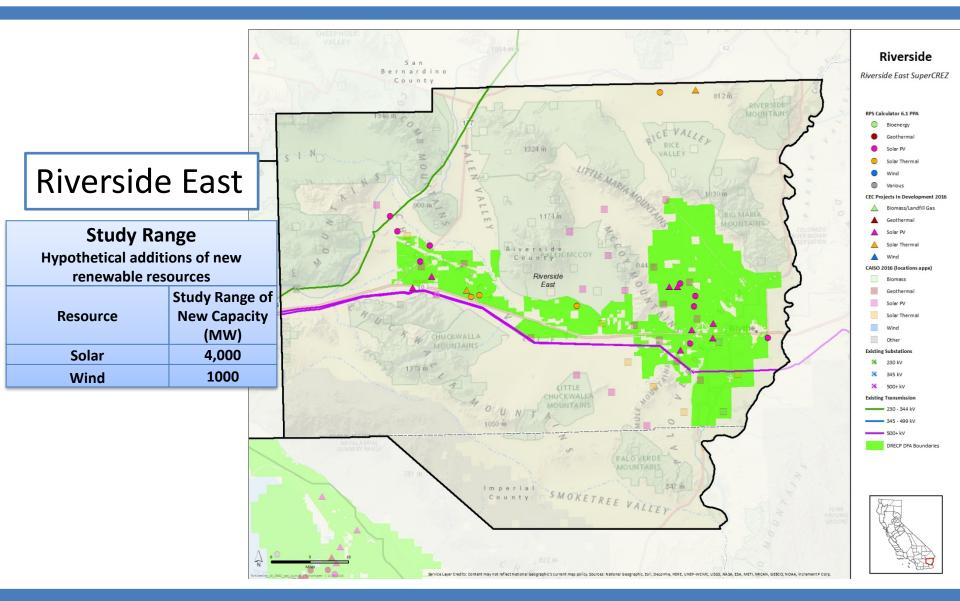










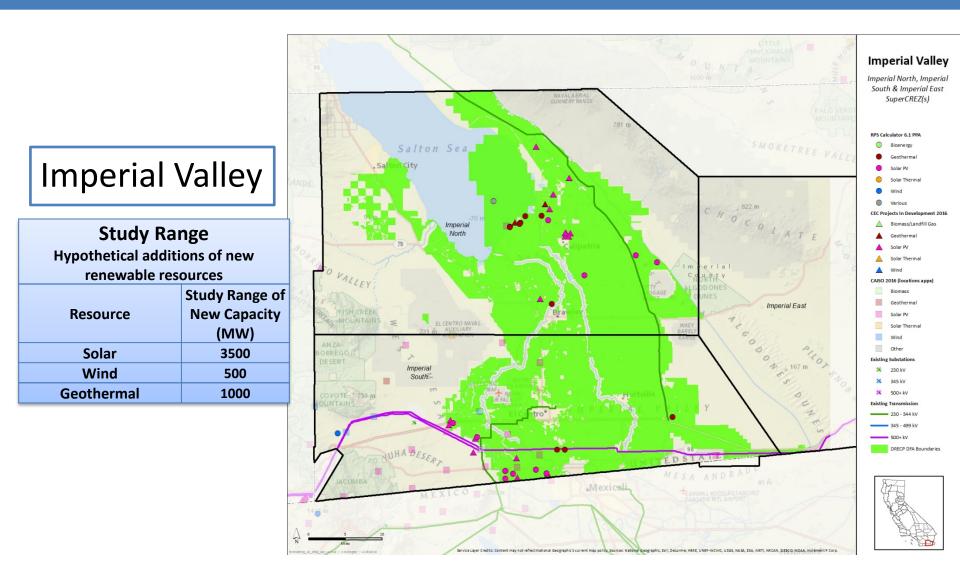












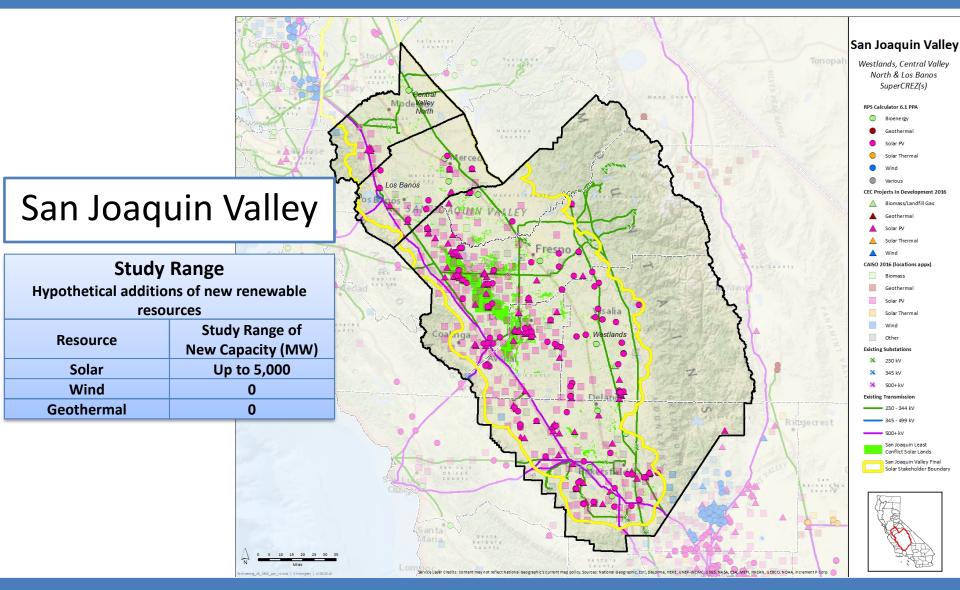














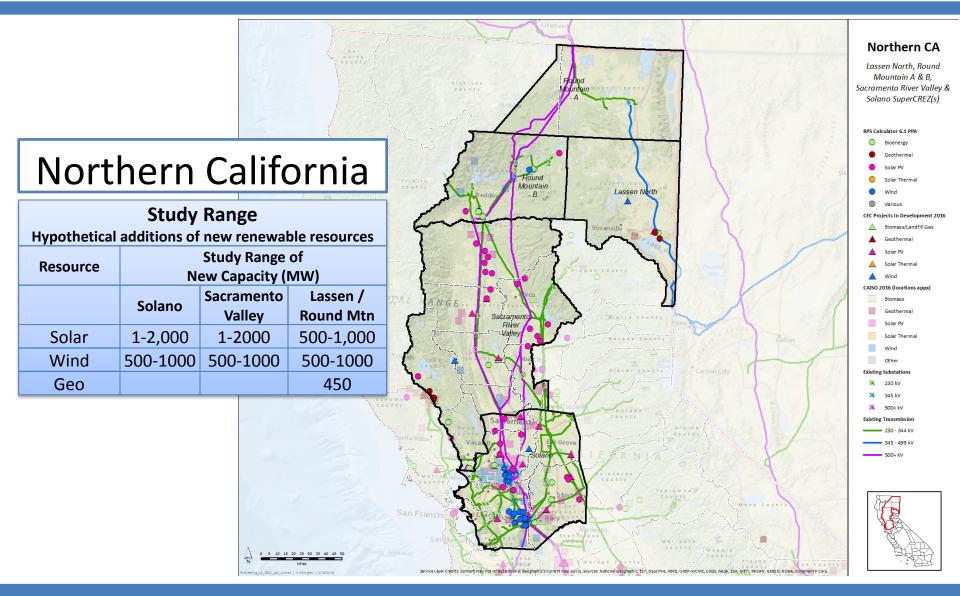
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Discussion questions for counties

- 1. General status and trends re: land use planning for renewable energy in your county?
- 2. How is utility-scale renewable energy reflected in your county's general plan?
- 3. Do you have zoning, ordinances, overlays, districts, or other types of locational preferences and/or development standards for utility-scale wind? solar? geothermal?
- 4. Are there environmental/biological issues that in your opinion strongly impact renewables development? (is there GIS data that we currently do not have?)
- 5. Are there agricultural issues that in your opinion strongly impact renewables development?
- 6. What has been your planning agency's experience with large-scale renewable development proposals?
- 7. Has there been significant work in the county around electric transmission planning or development?
- 8. Have you been involved in any planning efforts by other entities (tribes, military, utilities, others) around renewables planning?
- 9. What would you recommend as useful next steps the state could undertake to facilitate the planning of renewables and transmission in your county (if any)?





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