
Renewable Energy Transmission Initiative v2.0

Connecting Renewable Energy Resources to Markets:
Understanding Transmission Planning
Four Corners Wind Resource Center

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**California Public
Utilities Commission**



**California Energy
Commission**



California ISO

2016 – a year of changes

Executive Order B-30-15

- Established **40% GHG reduction goal by 2030**
- Mandates state agencies to pursue with all statutory authority
- New **ARB Scoping Plan** – economy-wide strategies to reach GHG goals

SB 350

- Increase **Renewable Requirements** from 33% by 2020 to **50% by 2030**
- Requires **resource optimization** and an **Integrated Resource Planning (IRP) process**
- Expresses intent for **regional expansion of the CAISO**
- Consider **disadvantaged communities** in CPUC and CEC decision-making process
- Encourages **widespread Transportation Electrification**

Western developments

- Clean Power Plan
- FERC Order 1000 Inter-regional transmission planning
- OR, WA, NV policy developments

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

RETI 1.0

- 2008-2010 Stakeholder-driven process
- CA RPS going from 20% to 33%
- Goal to examine where the resources are and transmission necessary to access them
- Institutionalized CPUC RPS Calculator and CAISO Policy-driven Transmission Planning
- Supported some major Tx lines with public outreach, identification of issues, and acceleration of solutions



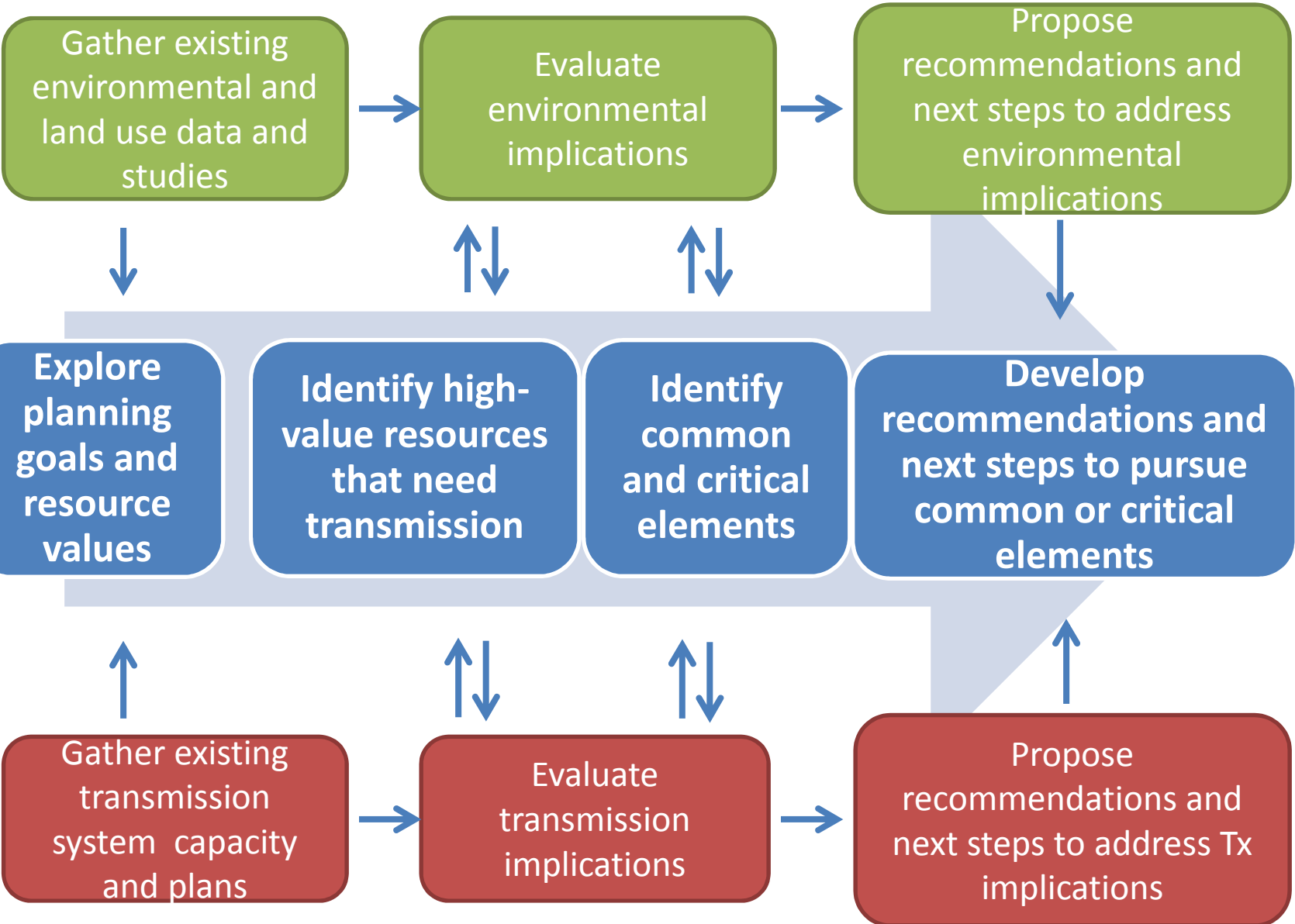
RETI 2.0

What's different this time

- Accelerated; high-level
 - Report by October 2016; influence 2017 IRP and TPP
- Leverage extensive work and analysis to date
 - Renewable potential, technologies, transmission options, system operations, and market opportunities
 - Land use and environmental data and planning
- Emphasis on long-term resource optimization and GHG reduction
 - Majority-renewables CA grid
 - Buying and selling complementary resources across the West
 - Transmission opportunities to realize these multiple goals
- Opportunity to leverage developments across the West



Environmental Group
Plenary Group
Transmission Group



Questions, comments, suggestions?

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