

Overview of the Joint Committees Draft *2009 Strategic Transmission Investment Plan*

prepared in support of the 2009 Integrated Energy Policy Report
Proceeding (09-IEP-1D)

2009 Integrated Energy Policy Report Joint IEPR/Siting Committee Hearing

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Words of Wisdom

- **“The primary barrier to increased development of renewable resources continues to be lack of transmission to access these resources, particularly in remote areas of the state.”**
-2008 Integrated Energy Policy Report Update
- **“An ounce of prevention is worth a pound of cure.”**
- English idiom



Problem Statement

- **California lacks a transmission planning process that:**
 - **Is statewide and fully coordinated**
 - **Achieves state policy goals and objectives**
 - **Has broad stakeholder support**
 - **Adequately considers transmission line routing and related land use and environmental implications**
 - **Links planning decisions to permitting decisions**
 - **Looks beyond 10 years**



Purpose of *Strategic Transmission Investment Plan* Process

- **Identify transmission investment impediments to achieving state policy objectives.**
- **Identify recommendations by appropriate parties to overcome these impediments.**
- **Provide an open forum for stakeholder discussion of both the impediments and recommended actions as a basis for the development of the *Strategic Plan*.**

For more information see the link:

<http://www.energy.ca.gov/transmission/index.html>



2009 Strategic Transmission Investment Plan – Development Steps

- **Guidance provided by 2009 Scoping Order**
- **Transmission information requests from LSEs via Forms & Instructions (F&I)**
- **May 4 workshop - Vet F&I responses and address high-level policy issues**
- **June 15 workshop - Refined available information and fine-tune policy issues**
- **September 28 – Released Committee Draft**

Report available at:

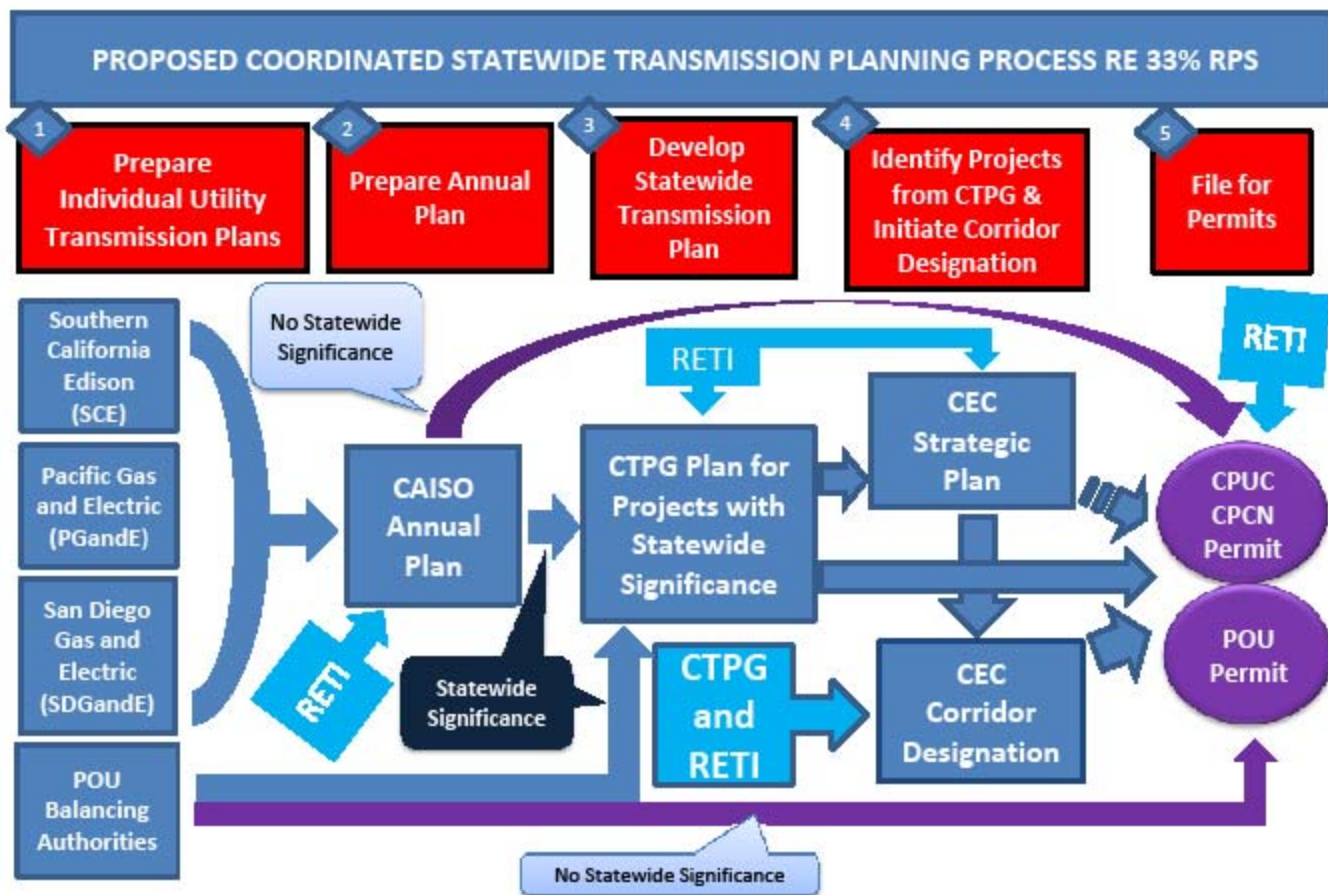
<http://www.energy.ca.gov/2009publications/CEC-700-2009-011/CEC-700-2009-011-CTD.PDF>



2009 Strategic Plan Recommendations

- **The Energy Commission staff should work with the recently formed California Transmission Planning Group (CTPG) and California ISO to establish a ten-year statewide transmission planning process that uses the *Strategic Plan* to vet the CTPG plan, with broad stakeholder participation.**





2009 Strategic Plan Recommendations

- **The Energy Commission staff should work with the California ISO, CPUC, and POU's on a simplified need assessment process that fosters the use of common assumptions and streamlined decisions.**



2009 Strategic Plan Recommendations

- **The Energy Commission staff should continue to support the Renewable Energy Action Team's mission to streamline and expedite the permitting processes for renewable energy projects, while conserving endangered species and natural communities at the ecosystem scale in the Mojave and Colorado Desert regions through the Desert Renewable Energy Conservation Plan (DRECP).**



2009 Strategic Plan Recommendations

- **Prioritize transmission planning and permitting efforts for renewable generation at the California ISO, the CTPG, and the Energy Commission and work on overcoming barriers and finding solutions that would aid their development.**



First priority: Projects supported by the Energy Commission in the *2005* and *2007 Strategic Plans*
plus El Dorado-Ivanpah Transmission Project

2005 Projects

- IID Upgrades
- SCE Tehachapi segments 1-3
- SCE DPV2
- SDG&E Sunrise Powerlink
- TransBay Cable

2007 Projects

- PG&E C3ETP
- TNHC TE/VS
- Green Path Coordinated Projects
- LADWP Barren Ridge
- SCE TRTP



Second priority: RETI “No regrets” line segments that do not require new corridors, **plus two to reach load centers**

- **Kramer-Lugo 500 kV**
- **Lugo-Victorville #2 500 kV**
- **Devers-Mira Loma #1 and #2 500 kV**
- **Gregg-Alpha Four 500 kV**
- **Tracy-Alpha Four 500 kV 1 & 2**
- **Devers-Valley #3 500 kV**
- **Tesla-Newark 230 kV**
- **Tracy-Livermore 230 kV**



Third priority: Begin outreach for RETI “no regrets” segments that require new corridors; begin developing phased solutions to interconnect specific renewable zones as generators commit to developing power plants.



2009 Strategic Plan Recommendations

- **The Energy Commission staff should continue supporting ongoing RETI-related activities by providing appropriate personnel and contract resources.**
 - **Coordinating Committee**
 - **Stakeholder Steering Committee**
 - **Various working groups**



2009 Strategic Plan Recommendations

- **The Energy Commission staff should continue to coordinate with the RETI stakeholders group to incorporate RETI's new information in applying the method described in Chapter 6 to reach consensus on the appropriate transmission line segments that should be considered for corridor designation to promote renewable energy development.**



RETI Transmission Line Segment Case Study

- **Attributes considered for assessing transmission line segments for corridor designation**
 - **On-line service date**
 - **Environmental concerns**
 - **Type of right-of-way required**
 - **Energy potential of each line segment**



2009 Strategic Plan Recommendations

- **Other high-priority recommendations:**
 - The Energy Commission should continue participation in, and support for, Western Interconnection transmission planning efforts.
 - The Energy Commission staff should identify and establish a method for the *2011 Strategic Plan* that uses scenarios in the development of a 30-year transmission plan for California, building upon the long-term planning process described in Chapter 4 as well as the scenario analysis in Chapter 7.



2009 Strategic Plan Appendices

- **Appendix A – Trends in Transmission Research for Renewables Integration**
- **Appendix B – ARRA 2009 Regional Transmission Planning Responses**
- **Appendix C – Summary of Projects Supported in the *2005* and *2007 Strategic Plans***
- **Appendix D – Summary of Proposed Regional Transmission Projects**



Next Steps

- **October 23 – Written comments due on Draft *2009 Strategic Plan***
- **By November 16 – Release Joint Committees Final *2009 Strategic Plan***
- **December 2 – Energy Commission adoption of *2009 Strategic Plan***

