

# 2008 CAISO Transmission Plan



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**California ISO**  
Your Link to Power

Board of Governors  
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# Our accomplishments have been significant

## A year ago

- Realigned CAISO planning vision to a proactive planning focus
- Championed process, coordination, and transparency through numerous stakeholder meetings
- Single Transmission Plan for CAISO Controlled area
- First CAISO Transmission Plan presented to CAISO Board

## During 2007

- Completed implementation of our “New Planning Process”
- Formalized planning process in a Transmission BPM
- Completed our FERC 890 compliance filing
- Established a clear schedule for our annual planning cycle
- Completed SLA with External Affairs to align our stakeholder processes with broader CAISO standards

# Transmission accomplishments during 2007

- 64 transmission projects were placed into service during 2007
- 90 new transmission projects were proposed as part of the 2007 planning cycle
  - 36 projects proposed by the CAISO<sup>1</sup>
  - 54 project proposed by the PTOs
- Of the 54 proposed by the PTOs for CAISO approval
  - CAISO management approved 36 projects representing a total cost of more than \$360M
  - 15 projects exceed \$50M and will be brought to the Board of Governors for review and approval
  - 3 projects require additional information and were not approved

<sup>1</sup>CAISO cost estimates are pending from the PTOs

# Forward & Backward Looking Reliability Management Cost Analysis

- 🌐 Looking forward – CAISO Short-term Plan
  - Analysis of “gaps” between real time operation and planning
  - 69 locations of congestion and reliability concern were identified
  - 36 upgrades were recommended; 8 have been implemented
- 🌐 Looking Backward from 2006 to 2007
  - Preliminary data indicates that reliability management costs have decreased from 2006 to 2007 by \$150M
  - Key upgrades are the Devers Static Var System (SVS), 500 kV series capacitor replacement projects, a new Miguel – Sycamore #2 230 kV line, a new Miguel – Old Town 230 kV line, and 2x63 Mvar shunt capacitors at Miguel 230 kV
  - These infrastructure improvements contributed to the overall reduction in reliability management costs accumulated during 2007

# Local Capacity Requirements

- Three scenarios of LCR analysis conducted
  - Next year (2008)
  - Long-Term (2010, and 2012)
- Not accounting for infrastructure additions, overall, LCR requirements will trend upward by approximately 2% due to expected load increases
- Accounting for planned infrastructure additions that have been approved by the CAISO, our overall LCR requirements will decrease by approximately 5,000 MW by 2012

# Further Enhancements & New Initiatives

- 🌐 FERC Order 890 brought new components & refinements
  - Request Window (August 1 through October 31)
  - Economic planning methodology
  - Long-Term Congestion Revenue Rights
  - Locally Constrained Resource Interconnections
  - Availability of Information
- 🌐 Transmission Business Practice Manual
- 🌐 Review and Revision of CAISO Planning Standards
- 🌐 San Francisco Greater Bay Area Long-Term Study
- 🌐 Aging Power Plant Study
- 🌐 Assessment of the system impact of a continued “drought”
- 🌐 Initiation of a stakeholder process for PG&E’s Central California Clean Energy Transmission Project
- 🌐 Renewable integration – our next step