



# Technical Steering Committee Report

CTPG Executive Committee Meeting  
April 5, 2012



# Agenda

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- TSC Work Activities Update
- CTPG Accomplishments
- TSC 2012 Work Plan Options
- TSC Proposed Minimum Engagement Plan

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# TSC Work Activities Update

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- February 2, 2012 Executive Committee approved the 2011 Statewide Transmission plan contingent on incorporating all final stakeholder comments
- Responded to all written stakeholder comments by February 17, 2012
- Incorporated comments from Executive Committee and final comments from stakeholders into the Final CTPG Statewide Transmission Plan
- Finalized the 2011 CTPG Statewide Transmission Plan on February 24, 2012 and was posted on the CTPG.us on March 5, 2012
- Conducted teleconference meeting of TSC members on March 13, 2012 to discuss TSC Next Steps

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# CTPG Accomplishments

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- Enhanced Cooperation among California Utilities:
    - IOUs, POUs and CAISO; transmission planners; improved management level cooperation
  - Enhanced Cooperation among California Utilities and State Agencies and groups: CEC, CPUC, RETI
  - Provided mechanism to interact with WECC and TEPPC
  - Provided a good outreach by utilities to stakeholders
  - Developed study processes, software enhancements, and data bases to provide consistent assumptions and study results
  - Provided a forum for face-to-face meeting of all California utilities executives and planning engineers
  - Developed Statewide Transmission Plans that can be used by utilities and Balancing Authorities in their individual transmission planning
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# CTPG Contributions to Tran. Planning

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- California Net Short calculations
- Renewable development and dispatch assumptions
- Merit-order fossil generation re-dispatch methodology
- Development of transmission solutions
- California coastal plants OTC issues
- 33% RPS development scenarios

# CTPG 2010 Study Process



•Development of the CTPG membership

•Development of the CTPG 2010 Stakeholder and Study process

•Load Serving Entity Scenario

•Stakeholder recommended Generation Queue

•RETI recommended Heavy In State Scenario

•RETI Net Short

•Analysis of Stakeholder Alternatives

•Stakeholder recommended Northwest and Southwest Scenarios

•RETI Best CREZ Scenario

•Analysis of Stakeholder Alternatives

•Fall off-peak scenario

•Identification of High Ranked CREZs

•Identification of High and Medium Potential transmission elements

•Analysis of progress towards a 33% RPS

•Assess potential for increased out-of-state imports and potential impact on state-wide transmission plan

•Finalize 2010 Study High and Medium Potential transmission elements

**2010 State-Wide Transmission Plan**

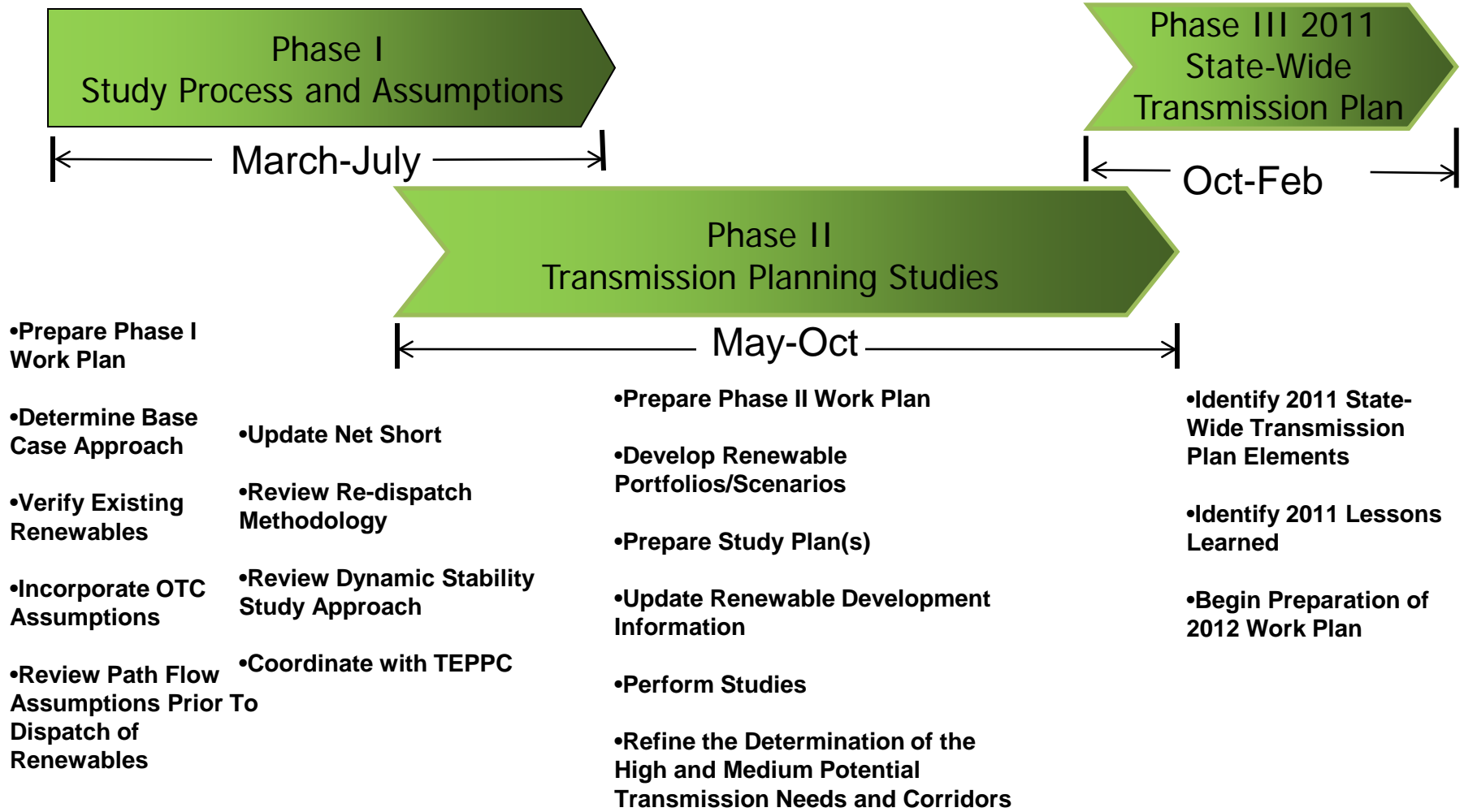
•Identification of state-wide transmission plan elements

•2010 Lessons Learned

•Begin preparation of 2011 Study Plan

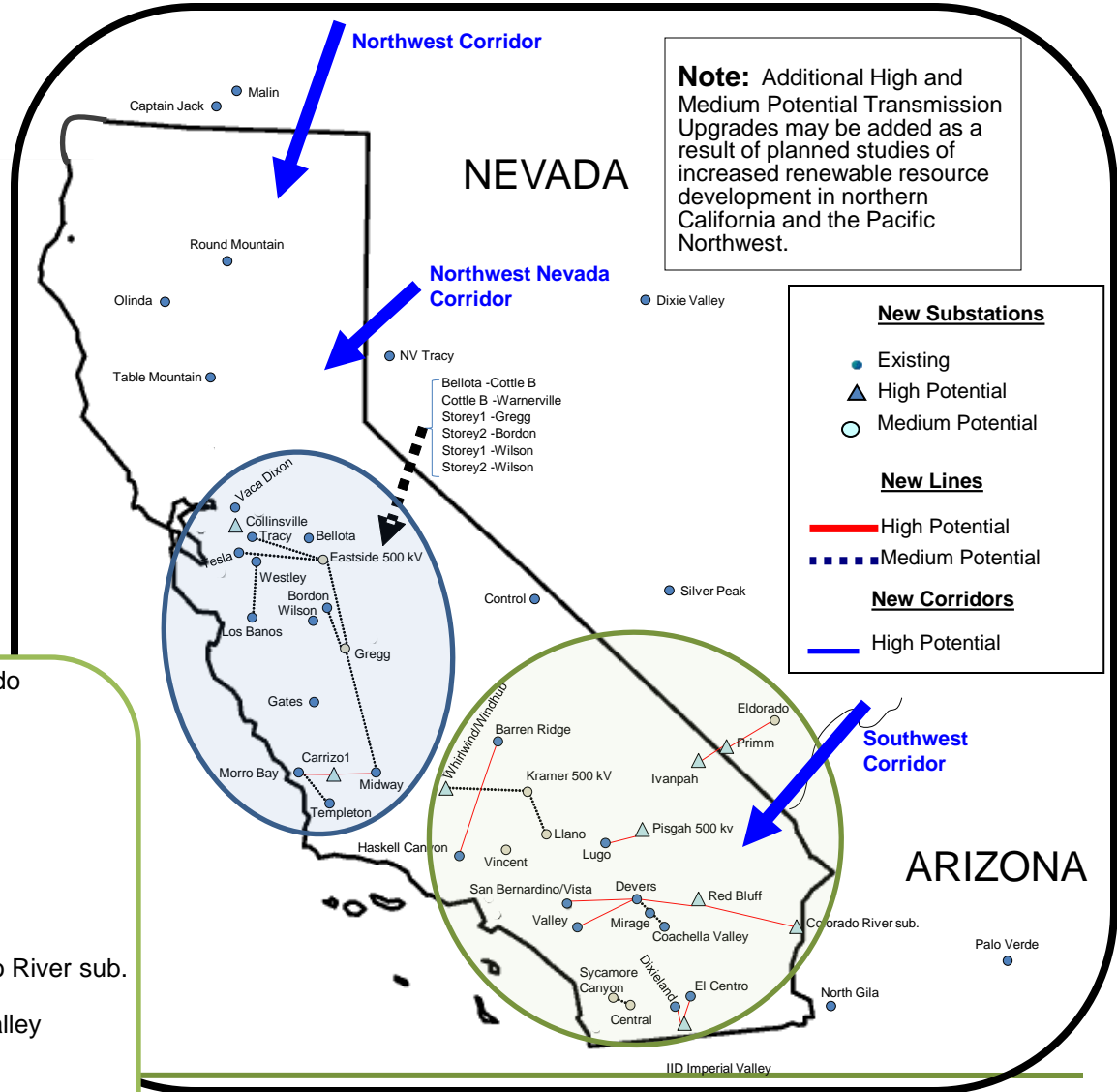
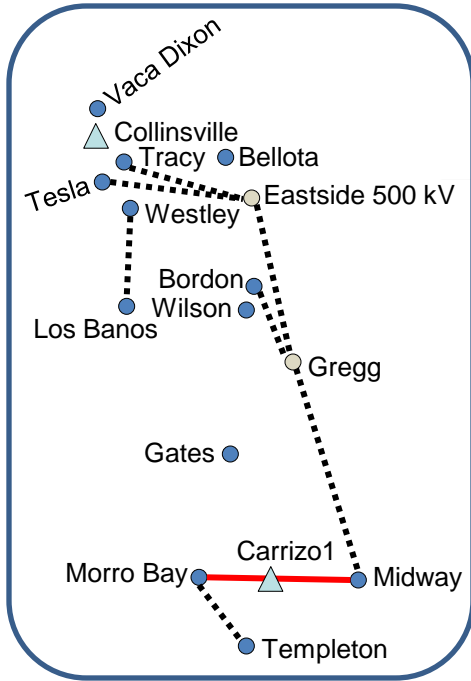


# CTPG 2011 Work Plan and Study Process



# 2010 CTPG Statewide Transmission Plan

## High and Medium Potential Transmission Upgrades and Corridors



**Note:** Additional High and Medium Potential Transmission Upgrades may be added as a result of planned studies of increased renewable resource development in northern California and the Pacific Northwest.

**New Substations**

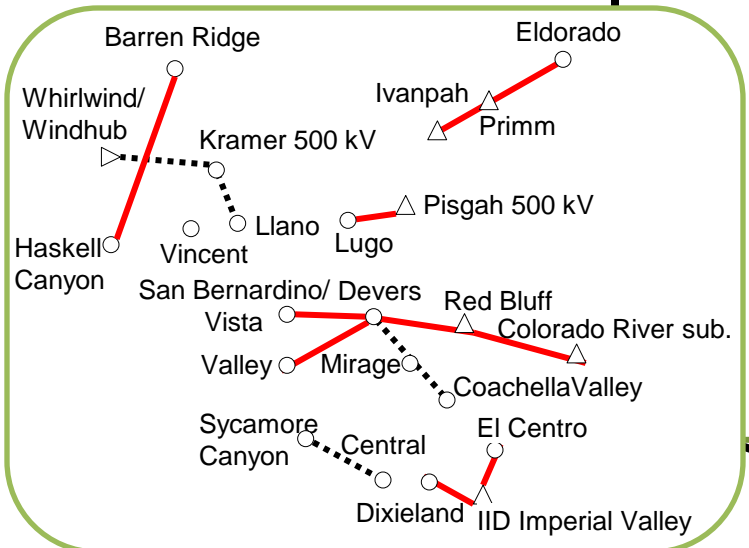
- Existing
- ▲ High Potential
- Medium Potential

**New Lines**

- High Potential
- - - Medium Potential

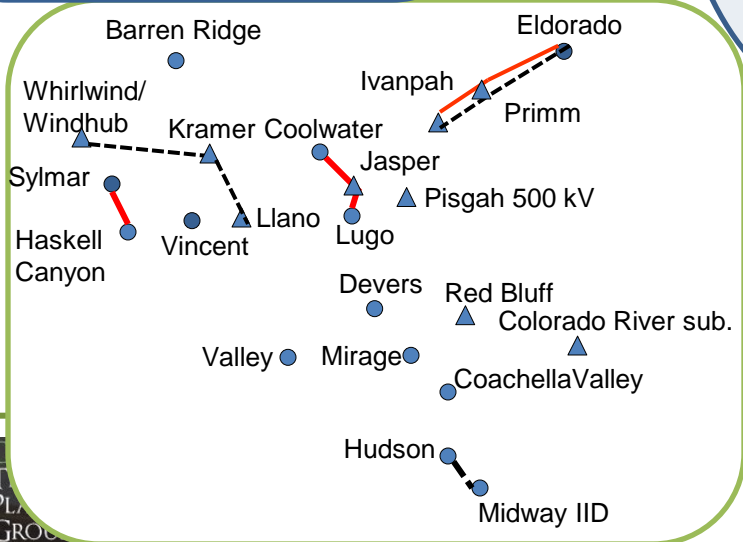
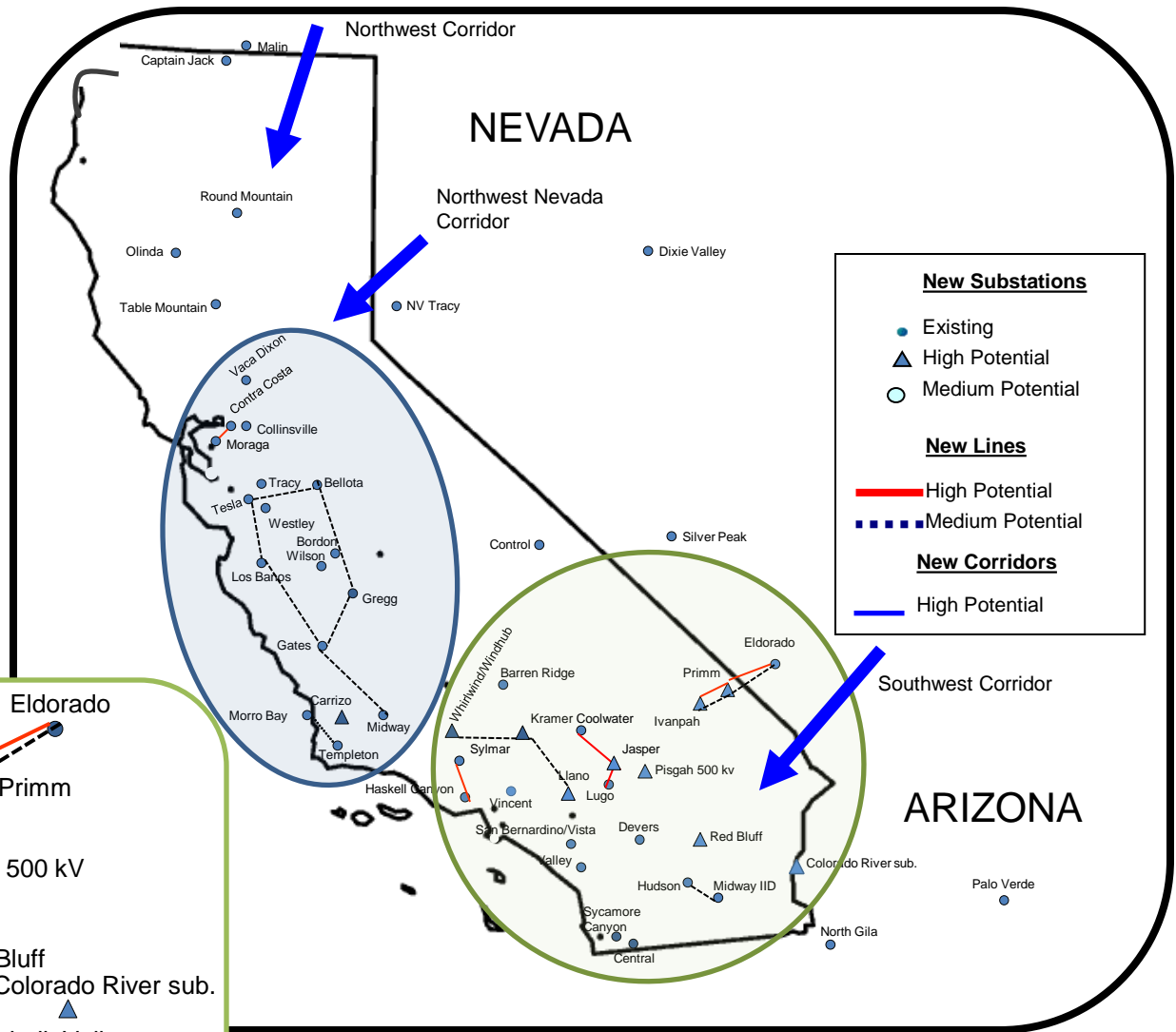
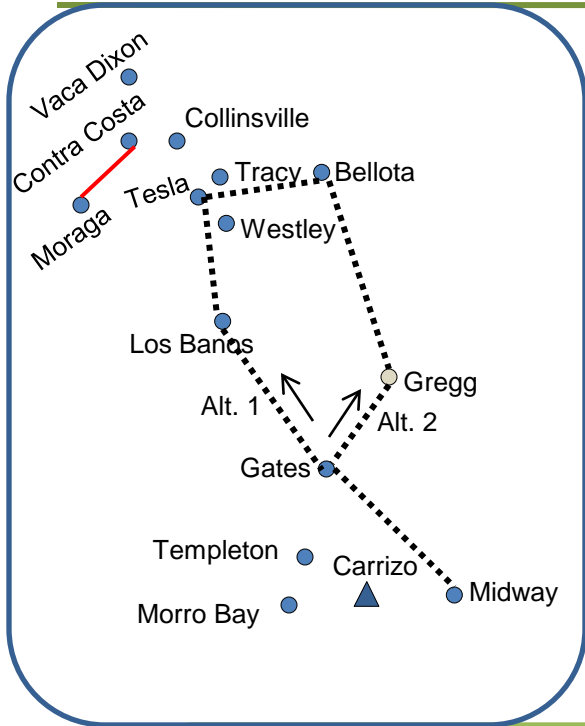
**New Corridors**

- High Potential



# 2011 CTPG Statewide Transmission Plan

## High and Medium Potential Transmission Upgrades and Corridors



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# TSC 2012 Work Plan Options

# 2012 TSC Work Plan Options

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1. **No Activity:** No formal work activities. Members elect not to commit resources to conduct new studies
  2. **Tier 1 Activities:** Update and enhance the 2010 and 2011 statewide transmission plans focusing on transmission-development based solutions to meet 33% RPS
  3. **Tier 2 Activities:** Conduct Tier 1 Activities with added considerations for advanced system issues and policies (aggressive DGs, CO2 policies, renewable integration, and non-transmission solutions)
  4. **Tier 3 Activities:** Conduct Tier 2 Activities with added consideration for economic evaluations of system scenarios and specific transmission projects
  5. **Tier 4 Activities:** Consideration for utility- or regional area-based issues
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# Tier 1 Activities

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- Update Net Short
- Update CPUC Discounted Core and equivalent information for POU's
- Establish the end-point of the relevant planning horizon (e.g., 2022?)
- Identify a “most likely” or “base case” and renewable resource development portfolio (for year 2022?)
- Update transmission additions to be included in seed cases
- Update generation resources to be modeled in seed cases

# Tier 1 Activities (cont.)

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- Identify out-of-state coal units likely to be retained
- Disposition of existing generating units using Once-Through-Cooling technology
- Application of TPL reliability standards to transmission facilities within the Balancing Authorities (BAs) adjacent to California BAs (e.g., BPA, APS, SRP, NV Energy, WAPA desert Southwest, PacificCorp, NV Energy). i.e. widen CTPG's study footprint

# Tier 2 Activities

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- Update on state's distributed generation goals
- Potential impact of carbon reduction rules on imports into California
- Whether, and which, new integration resources should be modeled
- Identifying reliability standard violations/mitigation for intervening time periods (e.g., for years 2017, 2020)
- Identifying the “most likely” evolution of the “base case” and renewable resource development portfolio over time (e.g., for years 2017, 2020)



# Tier 3 Activities

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- Implement final rulemaking for defining in-state vs. out-of-state resources
- Proposed transmission project alternative analysis, including economic analysis
- Evaluation of non-wire alternatives
- Inclusion of hourly economic dispatch modeling

# Tier 4 Activities

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- Whether, or when, to assume nuclear plant shut-down in California

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# TSC Proposed Minimum Engagement Plan

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- Assumption is CTPG members elect to go with Option 1 – No CTPG Activity for 2012
  - Re-valuate member interest at the beginning of 2013
- TSC Recommends the following minimum engagement plan:
  - Continue to monitor, review, and support:
    - Net Short and Discounted Core development activities by CEC, CPUC and CAISO
    - WECC TEPC ten-year and other long-term transmission planning activities
    - FERC Order 1000 activities
  - Provide support, as much as practicable, to:
    - CTPG members' requests in base case development and review, and other related issues
    - Independent transmission developers' or state agencies' requests in base case development and review, and other related issues



Thank you!

