



CTPG Stakeholder Meeting

2010 Phase 2 CTPG 2020 Draft Study Plan

2/2/10

Meeting Introduction

Mo Beshir - LADWP

Meeting Agenda

•Meeting Introduction	10:00 – 10:05	Mo Beshir
•Phase 2 Study Objectives and Scope	10:05 – 10:15	Jon Eric Thalman
•Guidelines and Criteria	10:15 – 10:20	Mike Deis
•Input Assumptions - Net Short - Additional Renewable Resource Portfolios/Out of State Assumptions	10:20 – 10:35	Udi Helman
•Generation Re-Dispatch	10:35 – 10:40	Garry Chinn
•Stakeholder Questions and Comments	10:40 – 11:55	Mike Deis
•Meeting Wrap-Up	11:55 – 12:00	Mo Beshir

PHASE 2 STUDY OBJECTIVES AND SCOPE

Jon Eric Thalman – PG&E

Phase 2 Study Objectives

- Develop a California state-wide transmission plan to meet the state's 33% Renewable Portfolio Standard by the year 2020
- Build on Phase 1 work
- Provide opportunities for stakeholder input
- Incorporate stakeholder recommendations when possible
 - Net Short
 - Renewable Scenarios
 - Generation Re-Dispatch
- Conduct sensitivity analysis for assumptions when quantitative data is not readily available (70/30)

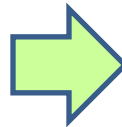
Phase 2 Scope: Base Cases

- Case A: 2020 Northern California adverse peak weather (90/10)
 - How much additional transmission is needed during a northern CA 1 in 10 peak to achieve 33% goals assuming high imports from the Pacific Northwest
- Case A-SN (South- North) Sensitivity to Case A
 - How much additional transmission is needed during high S-N flows
- Case B: 2020 Southern California adverse peak weather (90/10)
 - How much additional transmission is needed during a southern CA 1 in 10 peak to achieve 33% goals without predetermining import flows
- Case C: 2020 (50/50) expected peak weather
 - Designed to develop the first set of needed transmission elements to accommodate a controlled set of renewable resources under in a light summer case.
- Case L: 2020 Normal Load
 - Assess the California's transmission needs under light loads conditions
- Other case variations will include Out-of-State and Spring/Autumn seasonal analysis

Phase 2 Scope: Base Cases

Stakeholder Input

- Consider more Out of State
- Remove Green Path from cases
- Provide information on what projects are included in the WECC 2019 Seed Case



Phase 2 Study Plan

- Northwest and Southwest Out-of-State Scenarios added
- Green Path Removed from Seed Case
- Information provided in study plan on what projects are included in WECC 2019 Seed Case

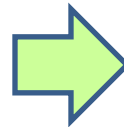
STUDY GUIDELINES AND CRITERIA

Mike Deis - SMUD

Phase 2 Study Criteria

Stakeholder Input

- Will an alternative analysis be done to review the potential of mitigation measures in lieu of building transmission projects?
- Will a deliverability analysis be done to identify deliverability related requirements?
- Clarify Study Criteria



Phase 2 Study Plan

- An alternative analysis will be performed by the entity responsible for the respective transmission improvements.
- A deliverability analysis will be performed by the entity responsible for respective transmission improvements.
- Additional clarification of study criteria is provided.

INPUT ASSUMPTIONS

Udi Helman - CAISO

Phase 2 Input Assumptions

Stakeholder Input

- Consider RETI updated Net Short Analysis
- For commercial interest analysis, consider projects that are in CAISO queue.



Phase 2 Study Plan

- RETI Net Short will be utilized in Phase 2
- Phase 2 will model the CAISO queue projects and comparable projects from other planning agencies (Such as LADWP, IID, SMUD, TID)

Phase 2 Input Assumptions

- Generation Interconnection Queue-based Portfolio
 - CAISO Queue Projects
 - Serial interconnection studies (LGIP and SGIP) – All renewable projects with all interconnection studies completed and that have either signed or are in process of signing their interconnection agreement.
 - All remaining renewable projects in the ISO Transition Cluster (after posting of financial securities).
 - Other Planning Agency Projects
 - Criteria to be established that identifies projects in a similar status to the criteria above

Phase 2 Input Assumptions

Stakeholder Input

- Include RETI provided renewable resource scenarios (under development with CPUC)
- Consider Out-of-State Scenarios



Phase 2 Study Plan

- Phase 2 or Phase 3 will include RETI scenarios depending on when data is provided
- Northwest and Southwest scenarios added to Phase 2

Phase 2 Input Assumptions

- RETI Scenario Approach
 - CPUC will provide a “Discounted Core”
 - Resources that are considered to have a high likelihood of implementation
 - ✓ CAISO Queue Projects - Serial group or transition cluster
 - ✓ Non-CAISO Queue Projects – Beyond first state of interconnect studies
 - ✓ Environmental permitting underway (AFC, Use Permit, ROW)
 - ✓ PPA Approved or pending approval
 - Reasonable distributions of additional higher risk RETI CREZ resources, including out-of-state resources, would then be added to this “discounted core” to achieve several 33% RPS scenarios.

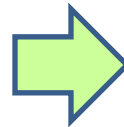
GENERATION RE-DISPATCH

Garry Chinn - SCE

Phase 2 Generation Re-Dispatch

Stakeholder Input

- Explore other Scenarios to the Economic Approach
- Provide a explanation for 70/30 assumption for In State/Out of State Re-Dispatch



Phase 2 Study Plan

- Phase 2 includes a Carbon Footprint Approach to Re-Dispatch
- Phase 3 will include a 70/30 Assumption Sensitivity Analysis

Questions and Comments

Mike Deis - SMUD

Phase 2 Schedule – Key Dates

Date	Activity
January 20	Stakeholder Input Session
January 25	Stakeholder Input Session Conference Call
January 28	RETI Transmission Working Group Meeting
January 29	Draft Study Plan Posted
February 2	Draft Study Plan Conference Call
February 8	Study Plan Comments Due
February 10	Final Phase 2 Study Plan Posted
Mid-March	Draft Phase 2 Study Report Posted
TBD	Stakeholder Meeting
TBD	Study Report Comments Due
End-March	Final Phase 2 Study Report Posted

Meeting Wrap-up

Mo Beshir - LADWP