

RETI Phase 2 Work Group
Draft Meeting Notes
November 5, 2008

The RETI Phase 2 Work Group met at PG&E in San Francisco on November 5, 2008, beginning at 10:00 AM. Attendees listed below. Draft notes compiled by Dave Olsen.

Summary of Action Items

- **Map revisions:** CEC will be the map owner for Phase 2. CEC will add BLM and Section 368 corridors to the CREZ maps produced by Black & Veatch. Roger Johnson to be the CEC contact: Rjohnson@energy.state.ca.us.
- **Add to base map.** IID (approved IID system upgrades); SCE (proposed CREZ connection plan); PG&E (C3ETP); and TANC (Project Zeta) will send project descriptions and GIS files (Shape Files or Line Files) to the CEC, which will add these transmission projects to the maps to be used in Phase 2 work.
- **Transmission included in base CREZ map.** Anne Gillette to check with B&V to determine whether Sunrise, TRTP and DPV2 are included in the B&V base map.
- **CREZ Transmission costs assumed by B&V in Phase 1**—Anne Gillette will get.
- **RIR.** Joe Tarantino will feed Northern California Regional Integration of Renewables work into Phase 2.
- **SSC guidance.** At its Nov. 14 meeting, SSC to provide guidance on assumptions to be used in conceptual planning, including: Out of State CREZ to be included in Phase 2 planning; curtailment of existing fossil generation with large amount of new renewables added; out of state and out of area imports; import limits; Phase 2 MW planning target (e.g., 1.5 x RETI net short).
- **Next Meeting.** Nov. 19 at CEC, Sacramento; Roger Johnson/Mark Hesters to confirm availability of meeting space.

Revised Scope and Organization of Phase 2 Work

Phase 2 will be organized around three main tasks:

1. **Conceptual Transmission Planning:** development of a statewide conceptual transmission plan identifying electrically robust, cost-effective and environmentally sensitive ways of connecting priority CREZ to the backbone grid, and grid enhancements necessary to make CREZ generation deliverable to consumers. Transmission plan to incorporate assessment of environmental feasibility of conceptual routings.
 2. **CREZ Refinement:** on-the-ground evaluation of CREZ to confirm developability and MW generation potential, after consideration of restrictions and obstacles to development not included in Phase 1 analysis.
 3. **Phase 2 Report** will be the vehicle for communicating RETI's final list of priority CREZ, modified to reflect any adjustment of CREZ boundaries or ranking as result of CREZ refinement; and the recommended statewide conceptual transmission plan integrating final CREZ into the grid.
- Given these tasks, the group decided Phase 2 requires two work groups:
 - **Conceptual Planning Work Group.** This group will develop the conceptual transmission plan in Task 1 above. It will be co-chaired by CAISO (Gary DeShazo)

and LADWP (Mo Beshir). EWG members will participate to provide high-level environmental feasibility screening of conceptual routings.

- **CREZ Refinement Work Group.** This group will confirm generation-transmission developability, adjusting CREZ boundaries and estimated generation potential as appropriate.

Conceptual Transmission Planning Work Group

- After discussion, the sense of the meeting was that conceptual planning should not be broken into Northern California and Southern California subcommittees and instead, that the work group should look at the state as one electrical system.
- The work group will consider all 29 CREZ i.e., those in Northern as well as in Southern California, beginning with the most highly-ranked ones appearing on both the economic assessment and environmental assessment priority lists.
- This work will be iterative. If any initial CREZ are downgraded in economic or environmental ranking as a result of CREZ refinement, other CREZ will be moved up and conceptual planning will adjust to include the revised list of CREZ.
- The first, and largest CREZ to be considered, and thus the first set of conceptual connections, are in Southern California. The work group will move on to consider N-S transfers, and access to resources in Northern California, with the understandings that: 1) RETI's goal is to identify major additions to the backbone transmission system; and 2) that many viable generating projects can be developed without reference to RETI and that RETI will not be able to develop transmission plans to access every renewable generation project.
- Highest-ranking Out of State CREZ should be added to the list of 29 in-state CREZ for inclusion in the conceptual plan.
- We will build flexibility into the conceptual plan, e.g., to accommodate generation at different locations, anticipating possibilities that CREZ ranking may change, and that some generating projects may ultimately not be built, even in priority CREZ.
- The SSC should submit all 29 CREZ into the CAISO Request Window by November 30, 2008, to ensure consideration in the ISO 2009 Transmission Planning Process. The work group can refine conceptual plans to connect priority CREZ in early 2009, after a final list of CREZ and corresponding estimates of MW/MWh generation potential is approved by the SSC.
- SSC to provide guidance at its Nov. 14 meeting on assumptions to be used in conceptual planning, including: curtailment of existing fossil generation with large amount of new renewables added; out of state and out of area imports; import limits; Phase 2 MW planning target (e.g., 1.5 x RETI net short).

CREZ Refinement Work Group

EWG co-chairs Johanna Wald and Carl Zichella will chair. Major tasks include:

- **Land ownership fragmentation.** Land ownership of potential CREZ areas divided among large numbers of owners may present an obstacle to development.
- **Zoning and Abandoned Lands.** Some Phase 1 potential CREZ are located in areas zoned for residential or commercial development; but some of these previously planned developments were never built. The work group will evaluate the ability of such areas to accommodate renewable energy development. Abandoned lands, including farmland not considered in Phase 1 may in fact be available for CREZ development. The work group

will evaluate such areas and recommend adjusting CREZ boundaries to take advantage of such lands as appropriate.

- The CEC (Roger Johnson) will coordinate work on land ownership, zoning and related issues.
- **1% Development Cap.** CREZ identification in Phase 1 did not take a BLM cap on development into account for areas of the Mojave, because BLM had not yet processed applications for development in affected areas. The work group will identify CREZ that may be affected by this cap on development (for all purposes, not just energy projects) and adjust CREZ boundaries and generation potential as appropriate.
 - EWG will coordinate work on the 1% development cap and related issues, including outreach to Desert Managers Group, who have expressed interesting reviewing the RETI Phase 1 report; Western Regional Partnership, which includes state and federal agencies in the 11 western states; and The Nature Conservancy, which has data that may be useful in evaluating proposed CREZ.

Phase 2 Report

- Any changes in CREZ boundaries or generation potential resulting from detailed evaluation of candidate CREZ in Phase 2 will require the economic and environmental assessments performed in Phase 1 to be revised. This may change CREZ priority ranking. The Phase 2 report will produce a final list of CREZ best able to support backbone transmission projects to access them.
- Report schedule remains unchanged: Draft Phase 2 Report due by mid-February, 2009 for review by the RETI Stakeholder Steering Committee, and a Final Phase 2 Report by March 31, 2009.
- The Phase 2 report will include an integrated conceptual plan for providing transmission access to final priority CREZ while enhancing the grid to accommodate large renewable power flows; environmental evaluation of priority CREZ and permitting feasibility of identified conceptual transmission connections, to be provided by the EWG; high-level estimates of the financial cost of the plan; and a summary of stakeholder involvement in development of the plan.

Stakeholder Involvement

- Sense of the meeting was that stakeholders should be involved early, and that the SSC and Phase 2 work groups should proactively inform key stakeholder groups of Phase 2 work.
- We will schedule a plenary/public meeting to explain Phase 2 work for December 2008. Agenda to include the principles and major assumptions transmission planners will use to develop the statewide conceptual transmission plan, such as making maximum use of existing infrastructure and ROW, focusing on system upgrades and network connections, looping in as much transmission capacity as possible with the fewest lines.
- Additional public meetings should be scheduled when Phase 2 work groups will have products available to discuss.
- The CREZ Refinement Work Group will establish contact with the state Working Group on Section 368 Corridors, which includes all state agencies and counties. This group can help confirm early that CREZ are permissible. We will request the SSC to invite this state Working Group to participate in the January 2009 SSC meeting.

Next Meeting

- November 19, at CEC in Sacramento, 10:00 AM-4:00 PM. Roger Johnson and Mark Hesters of CEC to confirm availability of meeting space at the CEC that day.

The meeting was adjourned at 3:15 PM.

Work Group Members Attending

PG&E	John Eric Thalman
SDG&E	Jan Strack
SCE	Shashi Pandey
SMUD	Joe Tarantino
IID	Juan Carlos Sandoval
CAISO	Gary DeShazo
Sierra Club	Carl Zichella
Solar	Rainer Aringhoff, Arthur Haubenstock
Wind	Dariush Shirmohammadi
NRDC	Johanna Wald
CPUC	Anne Gillette, Tom Flynn
CEC	Mark Hesters

Observers

CAISO	Robin Smutny-Jones
CEC	Roger Johnson
CPUC	Billie Blanchard
DWR	Lee Terry, Mark Saghai
FPLE	Duane McCloud
Navigant/ TANC	David Oliver
Opti-Solar	Greg Blue
PG&E	Robert Jenkins
Hays Consulting	Bonnie Hays

Coordinators:

Rich Ferguson, Dave Olsen – CEERT