

Minutes from RIR Stakeholder's Conference Call, June 3, 2008 at 11:00am(Next Stakeholder Call: August 5th, 11a.m.-noon)

Third RIR Stakeholder call called to order by Chifong Thomas at 11:05am with participants joining in online and by phone.

Purpose of this stakeholder call:

- Update to the stakeholders on RIR base case development (summer peak, spring and fall cases), progress, assumptions and data sources.
- Provide stakeholders a presentation on base case work thus far by Davis Power Consultants (Ron Davis presenting)
- Opportunity to clarify approach, ask questions and receive input

After initial introductions and review of topics for discussion, Chifong asked Ron Davis to present the work so far on base cases (see slides).

Summary of progress:

- Summer base case is complete, spring and fall cases are near completion. All cases will be reviewed by CAT team prior to stakeholder presentations
- Base case includes all generators with publicly known signed contracts with California utilities
- Northern CA scenarios are being developed with assumptions on renewable locations and conventional generation and will consider in-state and out-of-state resources
- Southern CA renewables assumptions provided in slides. For purposes of this study, renewables in addition to the ones already in the base case are assumed to be in-area, known and fixed for assumed 20%, 26% and 33% penetration levels. Link between northern and southern CA is via Path 26.
- Using variety of resources to develop potential renewable resources from previous state reports, queues, stakeholder feedback

Questions/Discussion Following:

Question	Concern about the validity and completeness of using CAISO queue to gather renewable development potential since the CAISO queue may be more an indication of the perceived transmission availability in the area than the development potential. (Ex. Northeast CA not accounted for in the CAISO Queue)
Response	Project will utilize a variety of resources to identify renewable resource potential which includes getting insight from the CAISO queue. Will also rely on input from stakeholders as well as other technical resource potential developed and published in a number of Energy Commission public reports which do suggest significant potential for wind and solar and geothermal in the northeastern part of CA.

Question	Slide 5 – southern CA proposed mix, are there biomass and low wind speed potential? Do the solar numbers include CSP and PV?
Response	Will check on the biomass numbers and low wind speed to see if there are significant resources. Solar numbers are only CSP. 3000MW of PV for California solar initiative are accounted for but not tallied in the portfolio numbers.

Question	Referring to the maps, where would Nevada geothermal resources connect to transmission into CA?
Response	Connections via Summit or Malin to Tesla are known but options are open. Alternative connections can be explored as the options are investigated. Work via this working group to determine transmission options to relieve congestion.

Question	Why does this study need to know the amount of renewables for Southern CA?
Response	We need to have a basis to add renewables from, so that when we run scenarios for northern CA (changing mixes, location of renewables, different transmission options), we can understand and recognize the impacts from and to southern CA. For example, if the northern CA scenarios look at importing AZ resources or from other parts of southern CA, there may be impacts on southern CA transmission system. One of the focuses of this project is to inform planners on potential impacts and make them aware of the situation, which may not necessarily be in their service territory.

Question	Please clarify - - will this study be looking at out of state resources or only in state?
Response	For this study, for southern CA needs (beyond the portion already met with renewable resources already in the base case), only in-area resources will be assumed. This assumption is adequate for this study because southern CA can pool resources from in or out of state; however, note that the tie to northern CA is via Path 26, and this Northern CA RIR study won't be looking at transmission for southern CA. Because the goal of this project is to develop Northern CA transmission options based on different renewable scenarios, both in-state and out-of-state resources that are presently known, have been identified or are potential for future development will be considered. While the project will

	not rank any resource areas or development, it will look at the common transmission options necessary to connect them for various resource combinations.
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Question	What transmission options are being considered?
Response	The RIR effort focuses on developing transmission options for the 230kV and higher systems. The assumption is that if transmission problems are encountered at 115kV or lower, it would likely be load related, and the affected utilities will be responsible for resolving these types of in-area transmission issues. If 115kV or lower transmission issues affect the convergence of the cases, then the RIR group will consider developing a transmission solution, which will become a study assumption.

Question	Will presentations be available or posted?
Response	Yes, all minutes and presentations from stakeholder meetings have been and will continue to be posted on PG&E's RIR website, www.pge.com/rir . Chifong also will send out the URL to those that were online today.

Question	Can we receive presentations in advance of conference calls and items for stakeholder feedback prior to these calls?
Response	We'll aim to get the information out or posted in advance of the calls.

Vulcan Power, geothermal industry, provided some input on potential Oregon generation resource projects either in discussions or contracted, and will be sending written confirmation on sites, MW potential and other relevant information; Vulcan also noted that there is a USGS study estimating geothermal potential at the Newberry Caldera in OR. The RIR team requested Vulcan and other interested parties to send along information.

Northern CA utilities involved with the RIR project have already provided information on current publicly released and otherwise known generation resources in development.

Action Items:

- Minutes and slide presentation from today's call will be posted on the PG&E RIR website [www.pge.com/rir]
- Any questions and comments to be sent to Chifong Thomas: clt7@pge.com
- Next Stakeholder Call: August 5th, 11am-noon

Conference Call Attendees:

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Logan Winston	Horizon Wind
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Robert Jenkins (PG&E)	PG&E
Ronald Davis	DPC
Jesse Ante	CPUC
Mike Kane	CEC
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Steve Munson	Vulcan Power
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