

CTPG Phase 4 Scenario Development

RETI RTWG Meeting
Regional Transmission Working Group
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Presentation Caveats

- The suggested SW import scenario development outline in this presentation is intended **for discussion purposes only.**
- The goal of this presentation is to continue discussion of the key decisions that must be made.
- Additional data is being sought by CTPG and RETI.
- A final RETI scenario must be approved by the RETI SSC.

SW Import Scenario Caveat

- Resource choices are **for purposes of scenario development only** and are not intended to represent expected development patterns.

SW Imports @ 40% of Net Short

- Net short = 52,764 GWh/yr in 2020
 - 40% = 21,106 GWh/yr
 - 60% = 31,658 GWh/yr
- First RETI/CTPG scenario
 - CA total = 36,717 GWh/yr
 - DiscoCore = 16,598 GWh/yr

CA Scenario Resources

- California Resources in Scenario
 - 60% of net short = 31,658 GWh/yr
 - DiscoCore = 16,598 GWh/yr
 - Non-core = 15,060 GWh/yr
 - (First RETI/CTPG non-core 20,120 GWh/yr)
 - **CA proposal** – include entire DiscoCore and reduce non-core to 15,060 (25% reduction.)

Proposed Scenario OOS Resources

- Basic Outline – starting point for discussion
 - Use generic resources, not projects
 - Assume energy shows up at CA portals to avoid issues with transmission to CA
 - Identify
 - Portals
 - Energy percentage at each portal
 - Technology splits
 - Resource characteristics

Proposed CA Portals

- Initially proposed portals & energy
 - Eldorado - 50% of total imported energy
 - Blythe (Colorado R.) - 25%
 - North Gila - 25%
- Assume equal amounts of solar and wind energy at each

Proposed Alternatives

- Include IPP as portal?
 - % of total energy imports?
 - Technology mix?
- Include Control as portal?
 - Geothermal energy
 - Amount?

Outstanding Issues

- Capacity factors at each portal for each technology
- Time-of-day profiles for each technology at each portal
- Ask Black & Veatch to supply estimates?

Next Steps

- Prepare RTWG summary for SSC meeting 10/7
 - Outline RTWG consensus positions
 - Outline options for SSC
 - Provide narrative of RTWG discussion