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Offshore Wind in the CPUC's Integrated Resource Planning (IRP) Portfolios

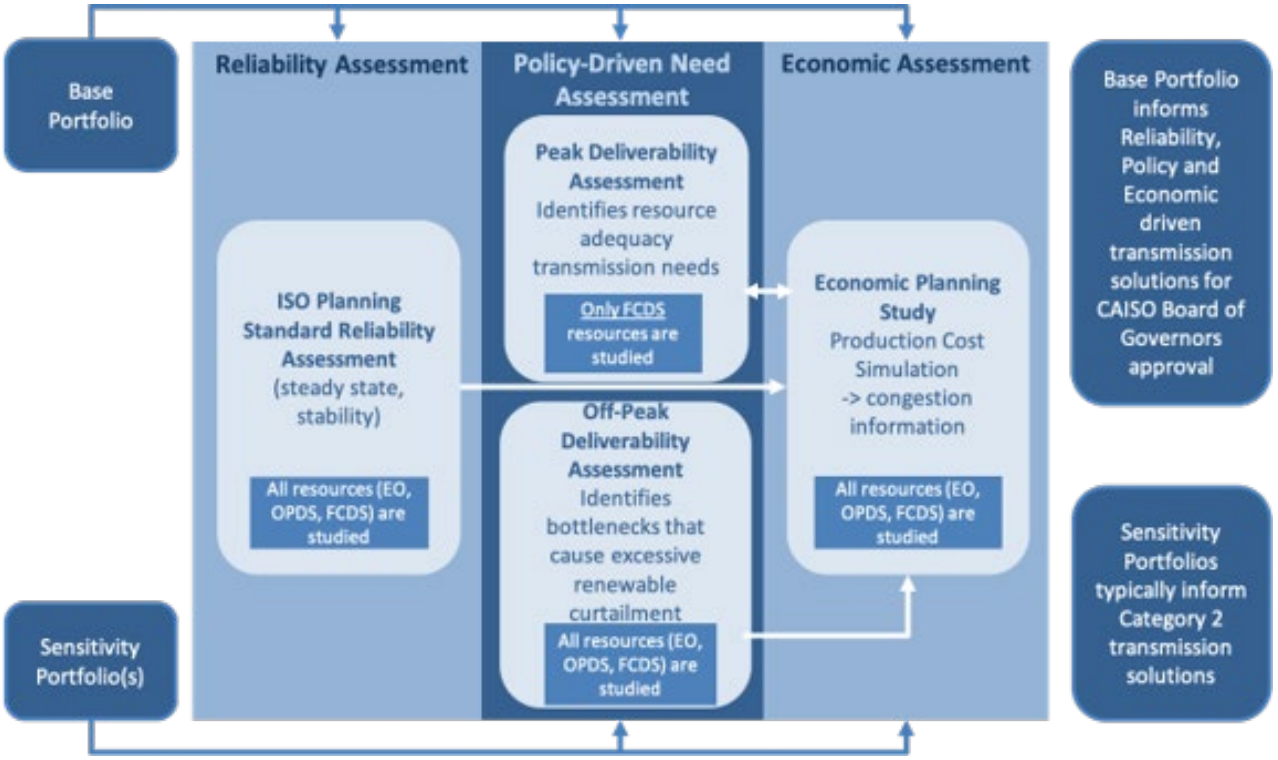
CEC Workshop on AB 525

October 6, 2022

IRP Interaction with the CAISO's Transmission Planning Process (TPP)

- CAISO's TPP is an annual comprehensive evaluation of the CAISO transmission system to address grid reliability requirements and identify upgrades needed to successfully meet California's policy goals. Historically it has focused on grid needs 10-years out.
- For each TPP, the CAISO uses CPUC resource portfolios and CEC demand forecasts.

- The CPUC typically transmits multiple distinct portfolios developed in the IRP process:
  - Reliability and Policy-Driven Base Case portfolio
  - Policy-Driven Sensitivity portfolio(s)



2021-2022 TPP Cycle (Most Recently Completed)

- CPUC conveyed in D.21-02-008 the reliability and policy-driven base case portfolio that meets a 46 million metric ton (MMT) greenhouse gas (GHG) emissions target by 2031.
  - The Decision also conveyed a policy-driven sensitivity portfolio that included a large segment of offshore wind resources, so to improve the transmission assumptions relevant to offshore wind for the benefit of future planning.
- CAISO's 2021-2022 Transmission Plan approved $3 billion in new transmission projects that are needed to ensure grid reliability and deliverability of projected renewable resources.
  - CAISO also analyzed constraints and transmission implications from 8,350 MW of offshore wind in north and central coast wind areas.

2022-2023 TPP Cycle (Ongoing)

- CPUC adopted in D.22-02-004 the "Preferred System Plan" for the CAISO's analysis in this current TPP. This portfolio adopts a 38 MMT target for GHG emissions by 2030, which drops to 35 MMT by 2032.
  - This base portfolio includes 1.7 GW of offshore wind in 2032.
  - CAISO also was asked (see Transmittal Letter) to analyze a portfolio with a 30 MMT emission limit using high electrification demand assumptions. This sensitivity portfolio includes 4.7 GW of offshore wind in 2035.

- CAISO's analysis is ongoing.
  - CAISO's draft Transmission Plan will likely be posted March 31, 2023 and brought to its Board for approval in May 2023.

2023-2024 TPP Cycle (Upcoming)

- CPUC staff will shortly propose (through ALJ ruling within R.20-05-003) the portfolios to be analyzed by the CAISO in the TPP that begins next year.
- The recommendation for this actionable base case will likely be the portfolio with a 30 MMT emissions target in 2030 with a high load assumption using the CEC's "2021 IEPR Additional Transportation Electrification" scenario.
  - This includes 3.1 GW in Morro Bay area and 1.6 GW in Humboldt area in 2035.
  - Also recommended for CAISO analysis: two complementary sensitivity portfolios designed to identify transmission needs associated with offshore wind.
- CAISO is encouraged to identify / approve transmission needs in the current 2022-2023 TPP to get a "head start" on transmission development.

Process for Portfolio Development in 2023-2024 TPP Cycle

- October 2022: CPUC invites stakeholder comments on staff recommendations for the portfolios (with busbar mapping methodology) to be analyzed by the CAISO in the TPP that begins next year.
- November 2022: Stakeholder comments due
- December 2022: Proposed Decision on TPP portfolios
- First Quarter 2023: Commission Decision on TPP portfolios
- First Quarter 2023: CAISO initiates 2023-2024 TPP