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Joint Planning Roles

• CEC – Develops demand forecasts and conducts supporting analyses

• CPUC – Sets resource procurement requirements for CPUC-jurisdictional entities

• California ISO – Acts as the balancing authority responsible for maintaining wholesale electric reliability for 80% of the load in California
CEC Reliability Actions

• Enhance demand forecasts

• Launch new analytical products
  • Reliability assessments
  • DERs

• Plan for contingencies in collaboration with California ISO and CPUC
  • ESF-12 responsibilities
  • Summer 2021 contingencies

• Leverage additional CEC responsibilities
  • Siting
  • Research – EPIC
Enhance Demand Forecasts

CEC forecasts began in the 1970’s
Enhance Demand Forecasts

• Included 1 in 30 peak forecast in 2020 IEPR (pursuant to Governor Newsom’s request)
• Consider likelihood of extreme events
• Examine a longer forecast horizon – 15-year timeframe
• Expand hourly forecasts to examine a wider range of weather patterns
Reliability Assessments

• Near-term
• Mid-term
• Long-term
Reliability Assessments – Near Term

• Assess supply and demand under different weather conditions for the upcoming summer
  • Summer 2021 Reliability Hourly Stack Analysis
Reliability Assessments – Mid Term

• Model a range of possible conditions to evaluate reliability for 2021 – 2026
Reliability Assessments – Long Term

- Model various scenarios of renewables build-out
- Assess transmission needs
Distributed Energy Resources Assessments

• Assess DER performance
• Understand DER impacts on reliability
• Project future impacts
• Maximize DER benefits
Summer 2021 Contingency Planning

- Collaborate with CAISO and CPUC
- Collaborate with partners not under CPUC jurisdiction
Leveraging CEC Responsibilities - Siting

• Work with powerplants on efficiency improvements
  • Held workshop to identify add’l opportunities
  • Permitting add’l power now
  • 65 – 122 MW
Leveraging CEC Responsibilities – Load Flexibility

• Hosted roundtable with multiple DR providers, in collaboration with CPUC and CAISO

• Planning to leverage Load Management Standards to assess potential load flexibility
Leveraging CEC Responsibilities – EPIC

Electric Program Investment Charge program
Leveraging CEC Responsibilities - EPIC

• Invested $74M in demand flexible technologies to support load flexibility
• Load shifting anticipated this summer from recently approved projects:
  • 25 MW – grant to Ohm Connect
  • 18 MW – grants to Polaris Energy Services and Ag Monitor

Image credit: LBNL
Thank You!