

DOCKETED

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Item 5: Demand Scenarios Adoption

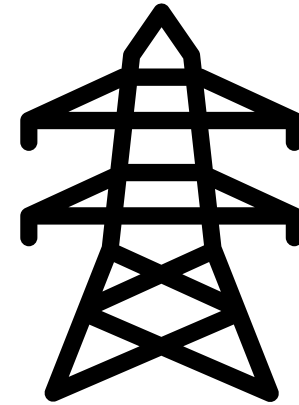
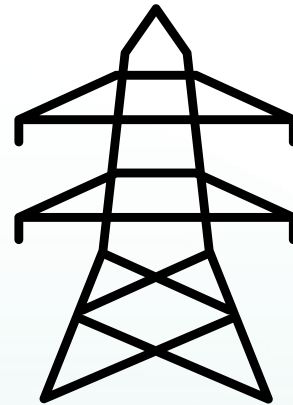
May 24, 2022 Business Meeting

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Benefits to Californians

- Inform planning for state's goals
- Reduce GHG emissions
- Maintain grid reliability





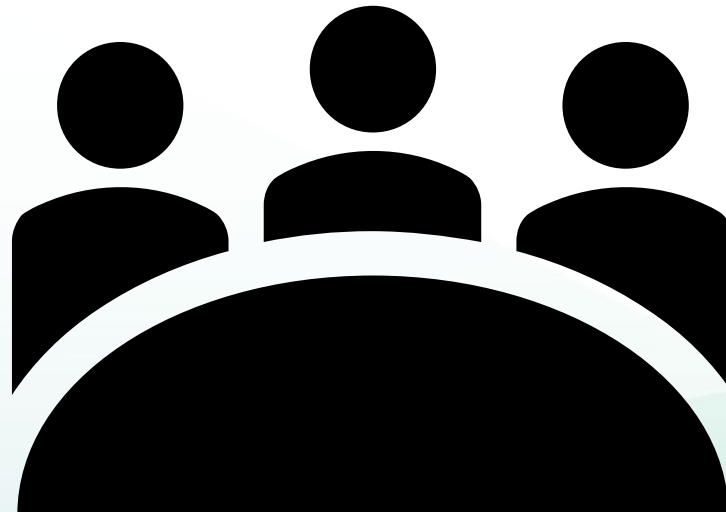
Overview of Demand Scenarios

- **Purpose:** Assess statewide annual energy consumption through 2050
- **Scenarios:**
 - 1) Reference - Extends 2021 IEPR forecast to 2050
 - 2) Policy Compliance - Includes proposed policies and programs
 - 3) Mitigation - Includes additional strategies



Stakeholder Process

- One Demand Analysis Working Group meeting 9/15/21
- Two IEPR workshops 12/2/21 and 4/7/22
- Joint Agency Steering Committee discussion





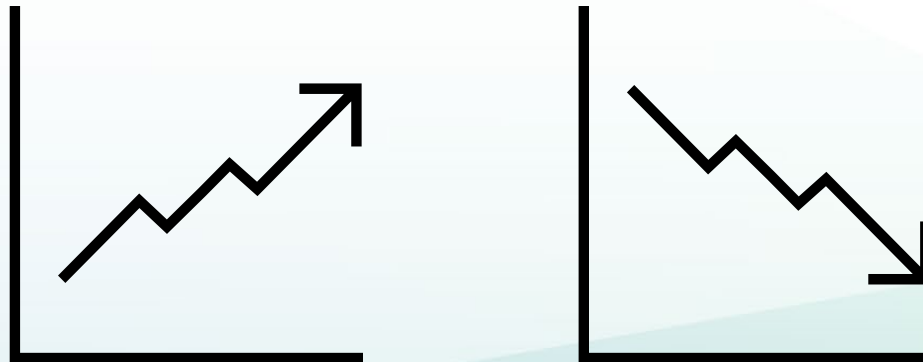
Demand Scenarios Findings

Scenario	2030 GHG Target	2050 GHG Target
Reference	Does not meet	Does not meet
Policy Compliance	Does not meet	Does not meet
Mitigation	Meets	Does not meet



Scenarios for Grid Planning

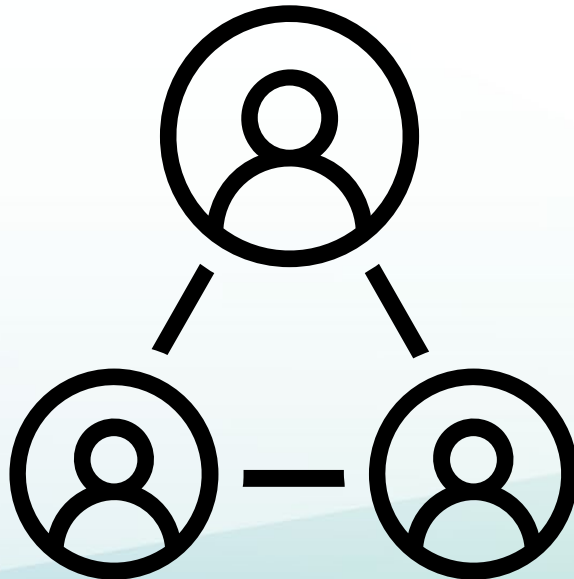
- Grid upgrades require a long lead time
 - CPUC and CAISO requested scenarios to inform grid planning for electrification
- CEC staff developed 2 scenarios (see appendix)
 - Interagency High Electrification Scenario
 - Additional Transportation Electrification Scenario





Deviation from 2021 IEPR Forecast

- CPUC, CAISO, and CEC agreed to higher levels of electrification for:
 - CAISO 2022-2023 Transmission Planning
 - CPUC's Integrated Resource Plan to develop 2023-2024 Transmission Planning Process portfolio





Staff Recommendation

- Adopt demand scenarios to support planning for state's GHG reduction targets
- Adopt scenarios for grid planning



Appendix

Scenarios for Grid Planning: Framework and Results



Scenarios for Grid Planning: Framework

	Mid-Mid (CED 2021)	Interagency High Electrification (Interagency HE)	Additional Transportation Electrification (Additional TE)
Baseline Demand Case	Mid Case	Mid Case	Mid Case
Electric Vehicles	Mid Case	Policy	Mid 2021 - 2027 Policy 2028 - 2035
Additional Achievable Energy Efficiency	Scenario 3	Scenario 4	Scenario 3
Additional Achievable Fuel Substitution	Scenario 3	Scenario 4	Scenario 3
CARB State Implementation Plan NOx Rules	—	Included	—



Seasonal CAISO System Peaks

