DOCKETED	
Docket Number:	21-IEPR-03
Project Title:	Electricity and Natural Gas Demand Forecast
TN #:	243222
Document Title:	05 Item 05 Adoption of Demand Scenarios
Description:	May 24, 2022, CEC Business Meeting - Item 5: Demand Scenarios Adoption
Filer:	Raquel Kravitz
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	5/23/2022 9:28:36 AM
Docketed Date:	5/23/2022



Item 5: Demand Scenarios Adoption

May 24, 2022 Business Meeting

Heidi Javanbakht, Manager Energy Assessments Division, Demand Analysis Office



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





• 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



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





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



- 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





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





- 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





	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	



