



Item 7: California Energy Demand 2023-2040 Forecast of Electricity and Gas Consumption

February 14, 2024 Business Meeting

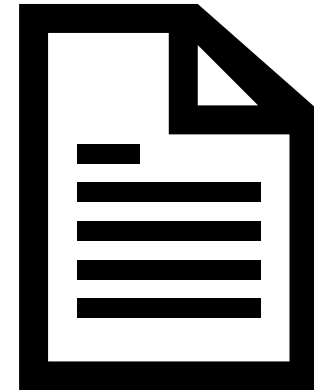
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Benefits & Purpose of the Forecast

Procurement and system planning at
California Public Utilities Commission and
California Independent System Operator

- Integrated Resource Planning
- Distributed Resource Planning
- Resource Adequacy
- Transmission Planning





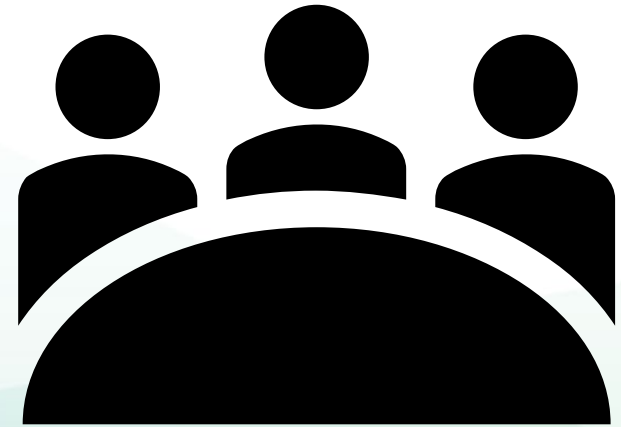
Updates to Forecast

- Extended forecast horizon to 2040
- Additional historical load, interconnection, and generation data
- Updated economic, demographic, and electricity rate projections
- New climate simulation data
- Updated baseline hourly electricity consumption profile
- Model updates
 - Refurbished residential end-use model
 - NREL dGen model
- Planning Scenario includes zero-emission appliance standard impacts



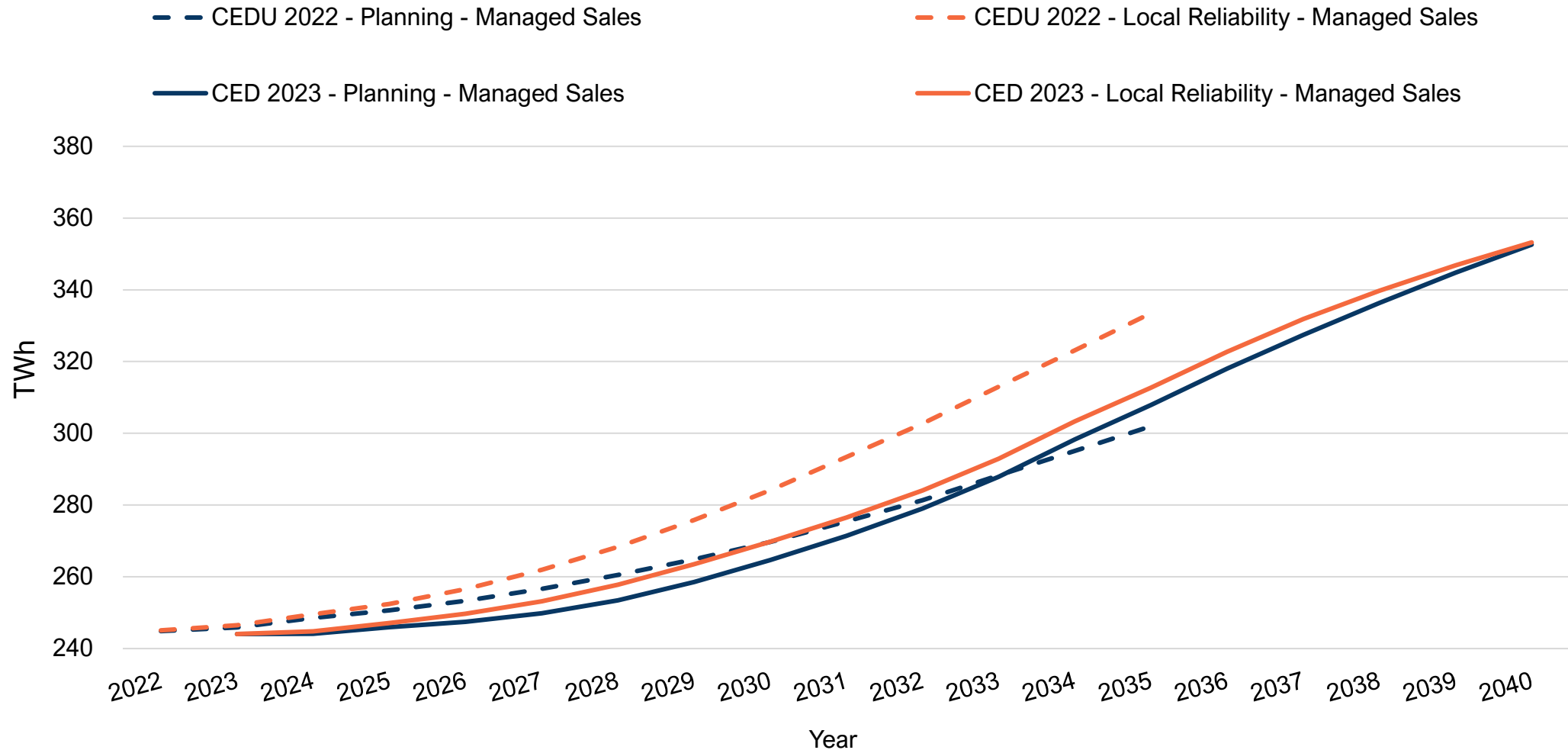
Stakeholder Process

- IEPR workshops
- Demand Analysis Working Group meetings
- Joint Agency Steering Committee discussion
- Single Forecast Set agreement





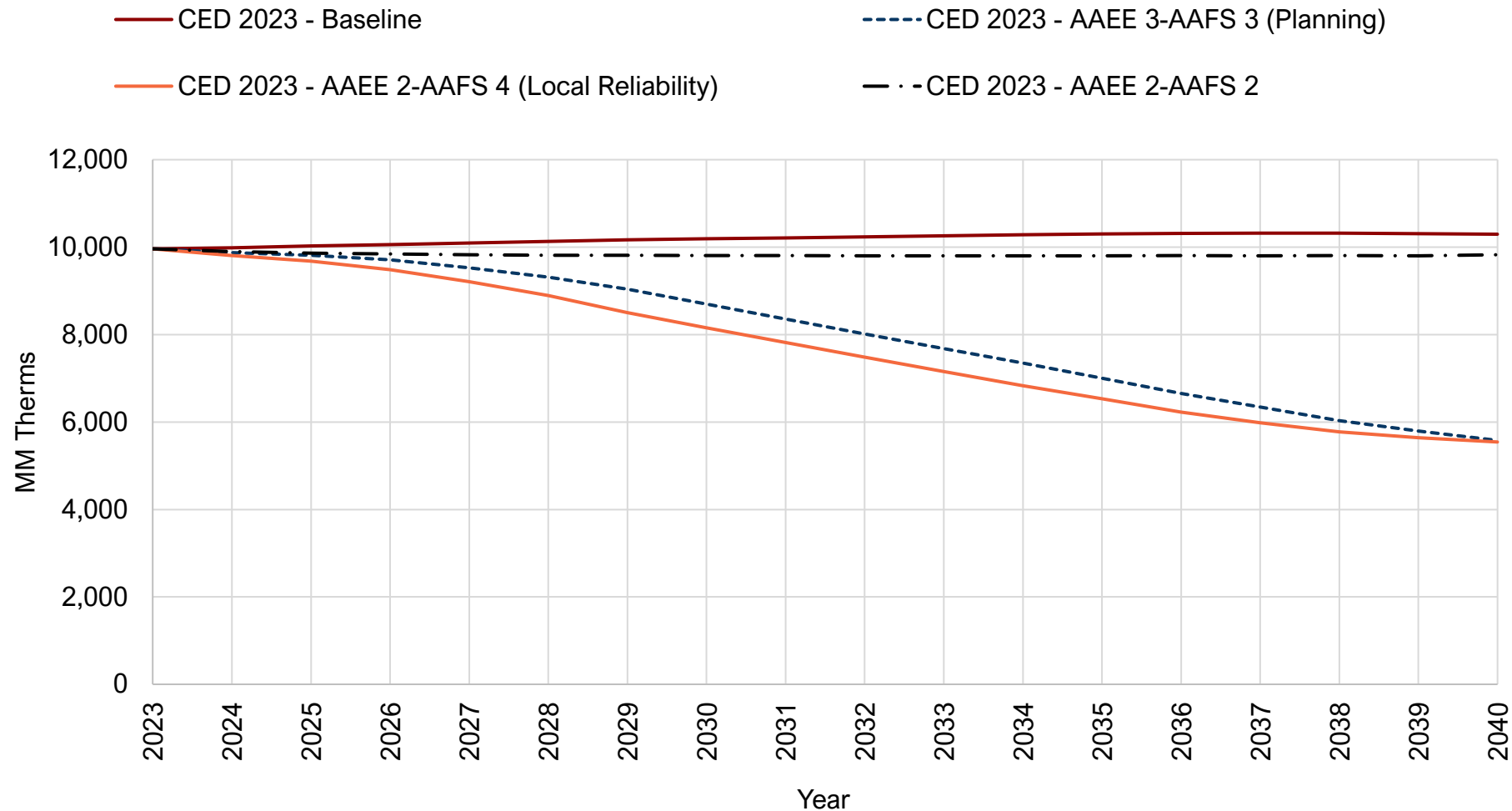
Statewide Electricity Sales



Source: CEC

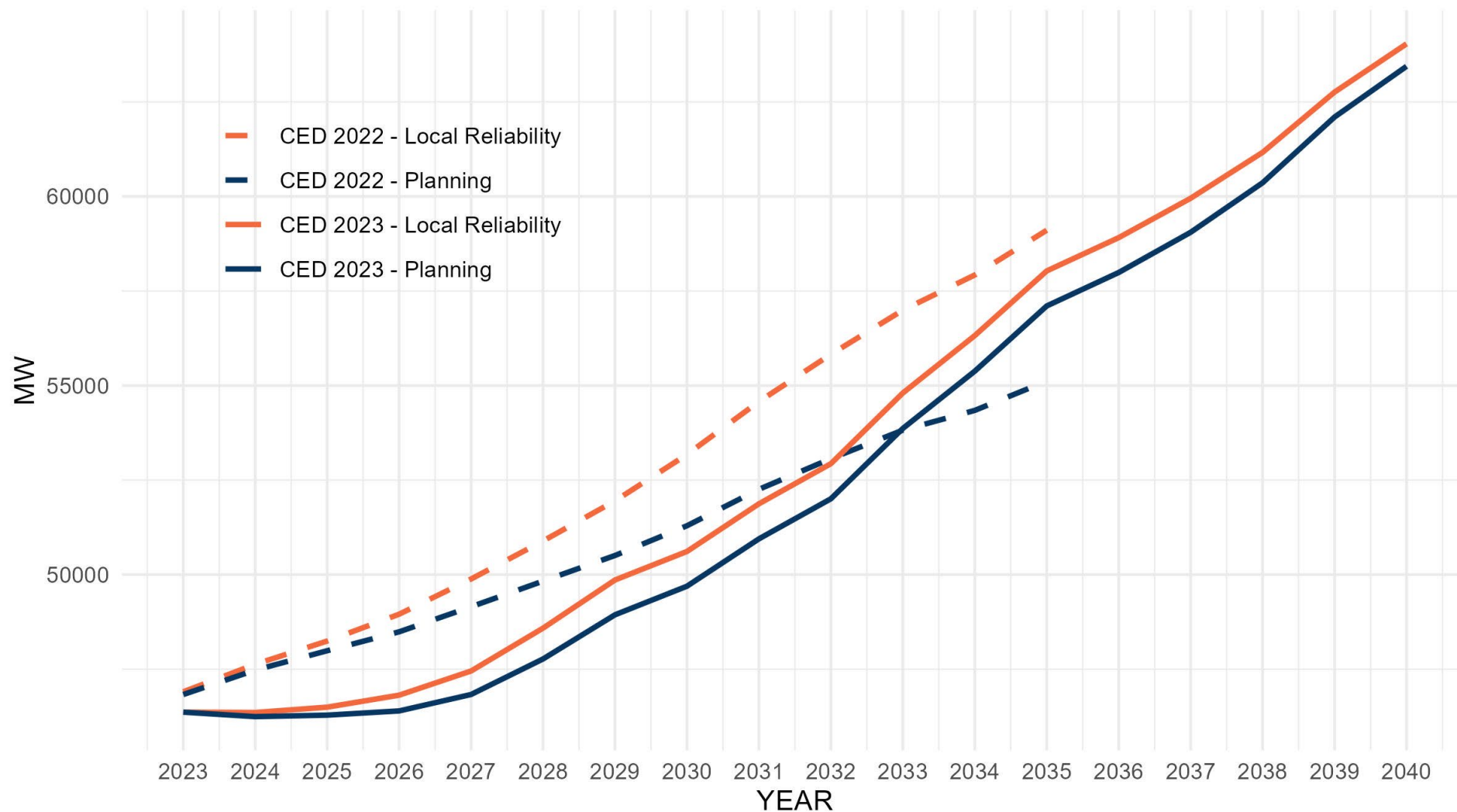


Statewide Gas Consumption





Managed Peak Demand (CAISO)





Staff Recommendation

- Adopt California Energy Demand Forecast, 2023-2040