



Item 6: City of Burbank Water and Power Integrated Resource Plan (IRP)

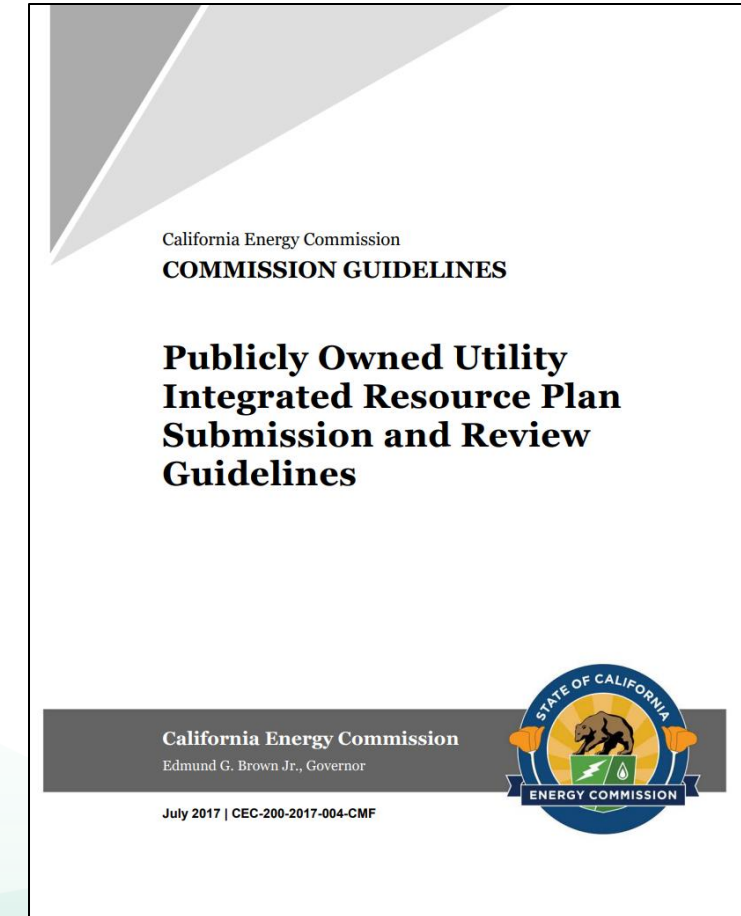
May 8, 2025 Business Meeting

Bryan Neff
Energy Assessments Division



IRP Overview

- Comprehensive planning document describing:
 - Energy and capacity resource needs
 - Policy goals
 - Physical and operational constraints
 - Other utility priorities
- Developed and adopted by 16 largest POUs
- Submitted to CEC every five years
- CEC reviews for consistency with statutory requirements as specified in the IRP Guidelines
- CEC determination adopted at a Business Meeting





Public Utilities Code (PUC) Section 9621

An IRP must address statutory requirements in the areas of:

- ✓ GHG emissions targets
- ✓ Renewables Portfolio Standard
- ✓ Just and reasonable rates
- ✓ System and local reliability
- ✓ Diverse, resilient, and sustainable energy system and communities
- ✓ Localized air pollutants with priority on disadvantaged communities
- ✓ Diverse portfolio of energy resources

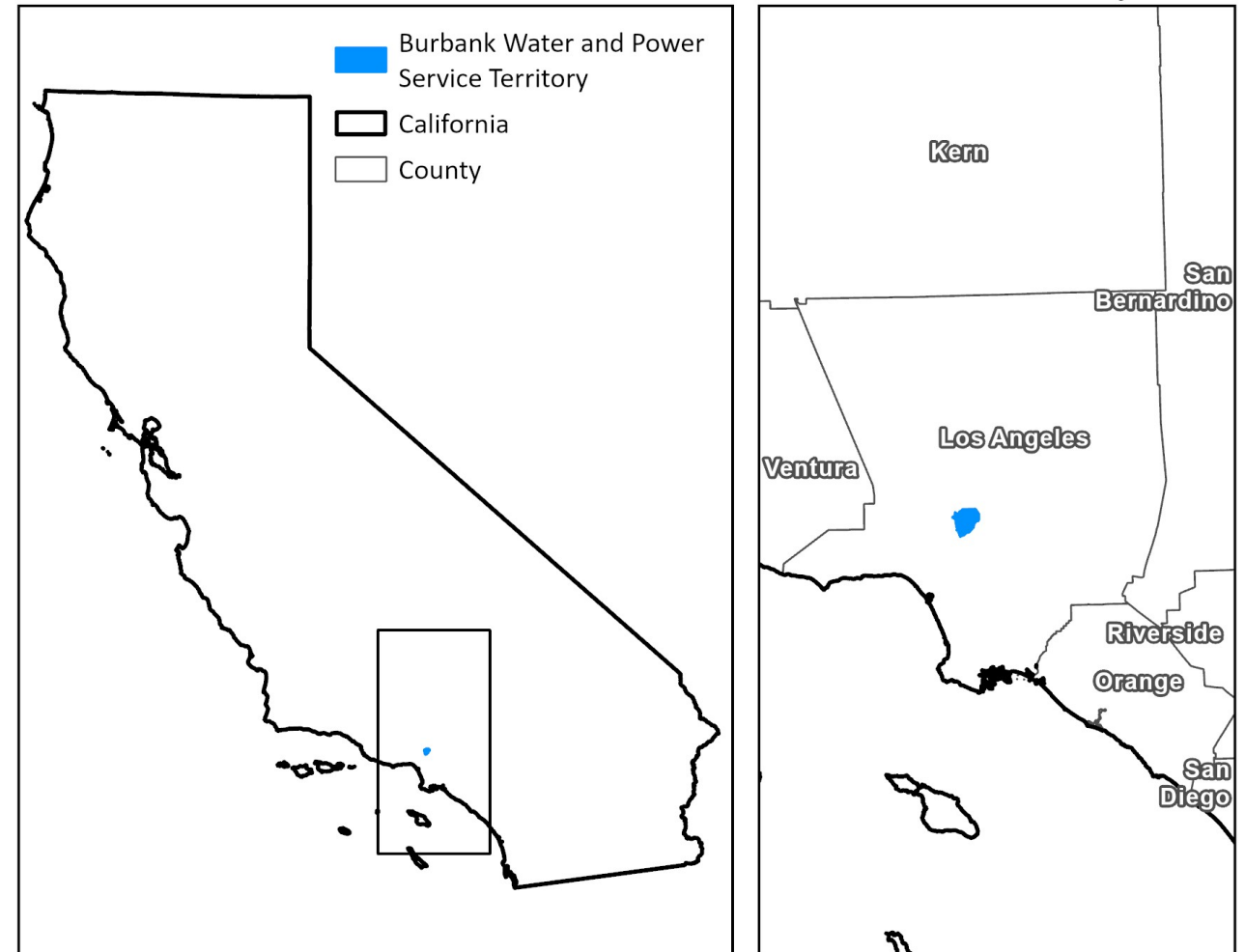


Burbank 2024 IRP

City of Burbank Water and Power (BWP) serves:

- City of Burbank
- Home to 105,000 people
- 46,290 residential accounts
- 6,880 commercial accounts
- 82 large commercial accounts
- IRP approved by Burbank City Council

Burbank Water and Power Service Territory

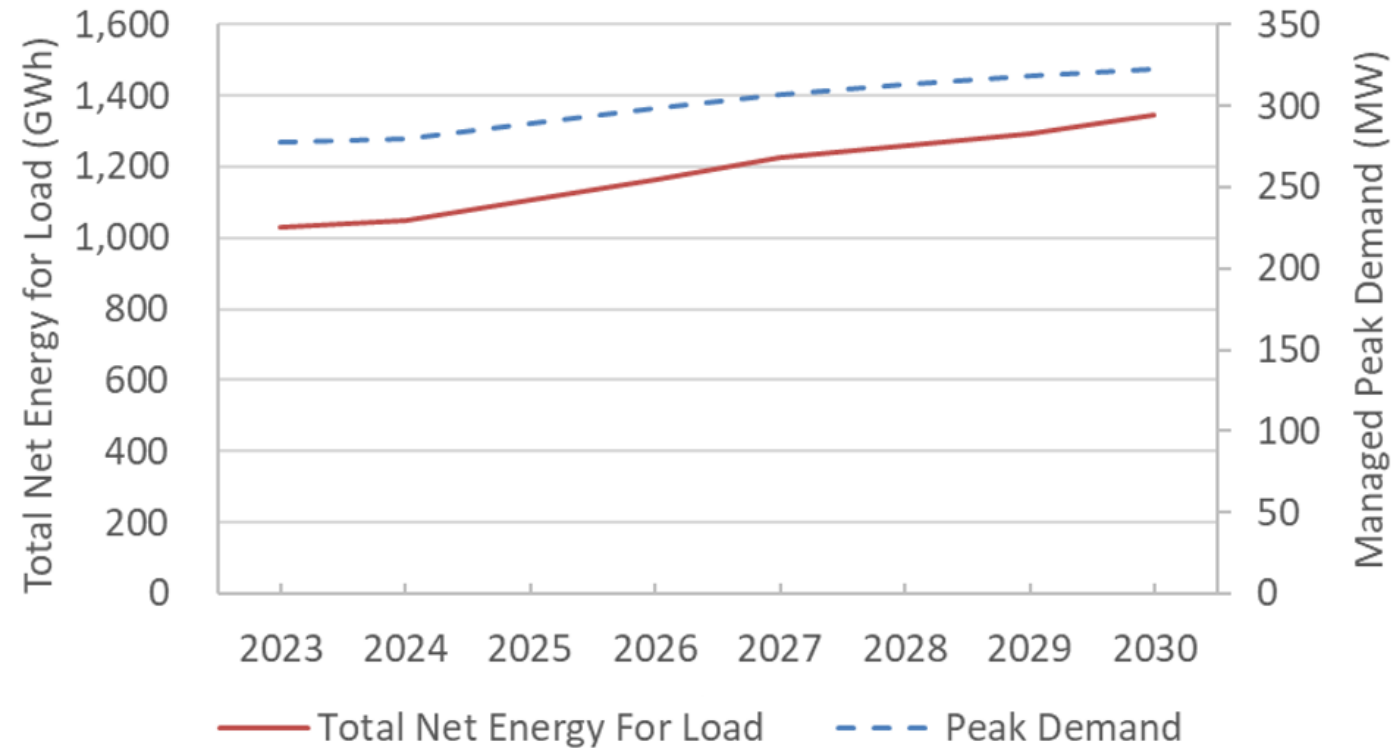


Source: CEC



2023 – 2030 Demand

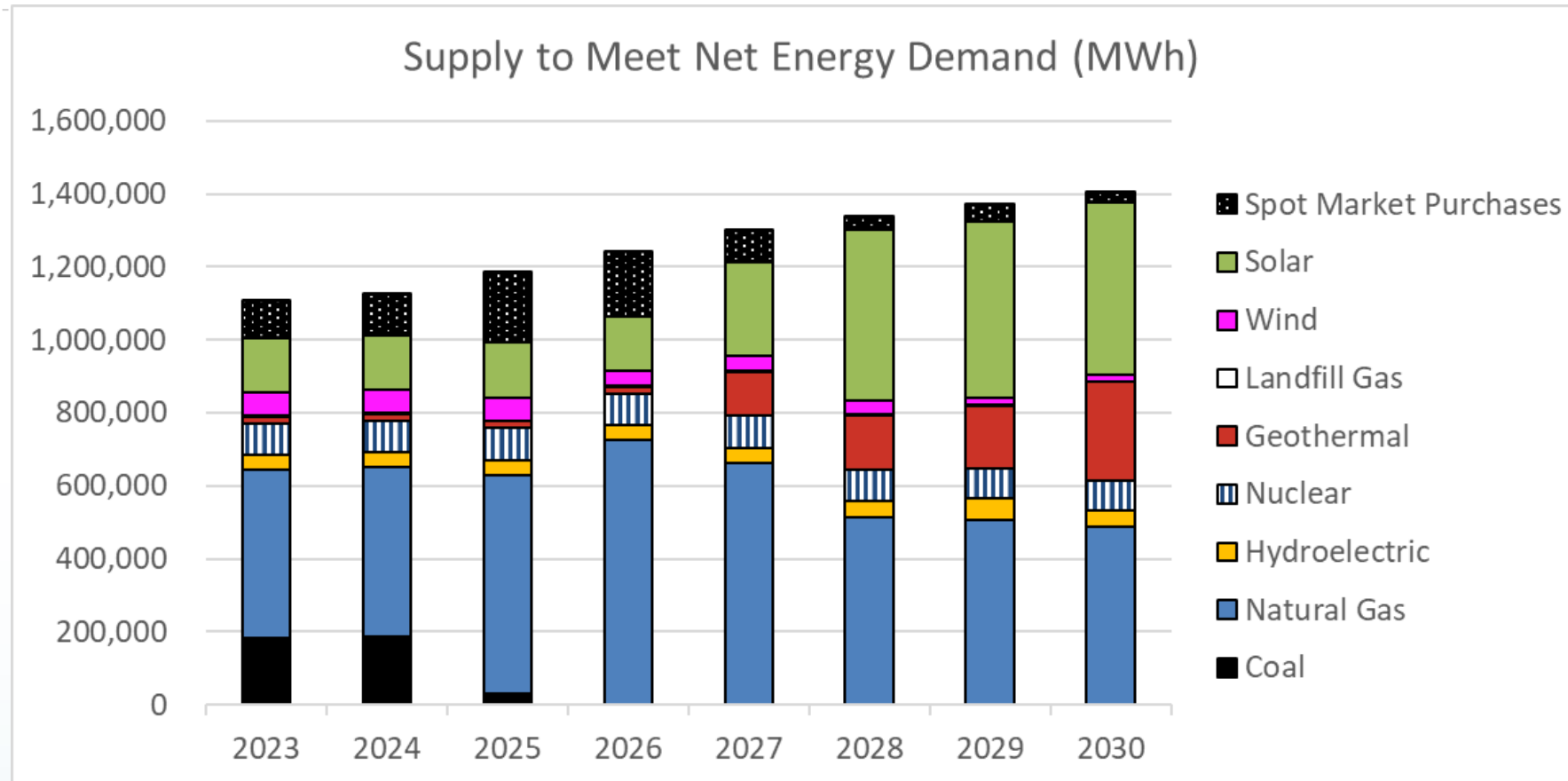
- Key Drivers of increased load:
 - Electrification of existing residential and commercial loads
 - New developments
 - Light duty PEVs
- Forecast includes load reduction measures:
 - Energy efficiency
 - BTM solar



Source: CEC analysis of BWP's 2024 IRP



New Transmission Scenario: Energy Supply

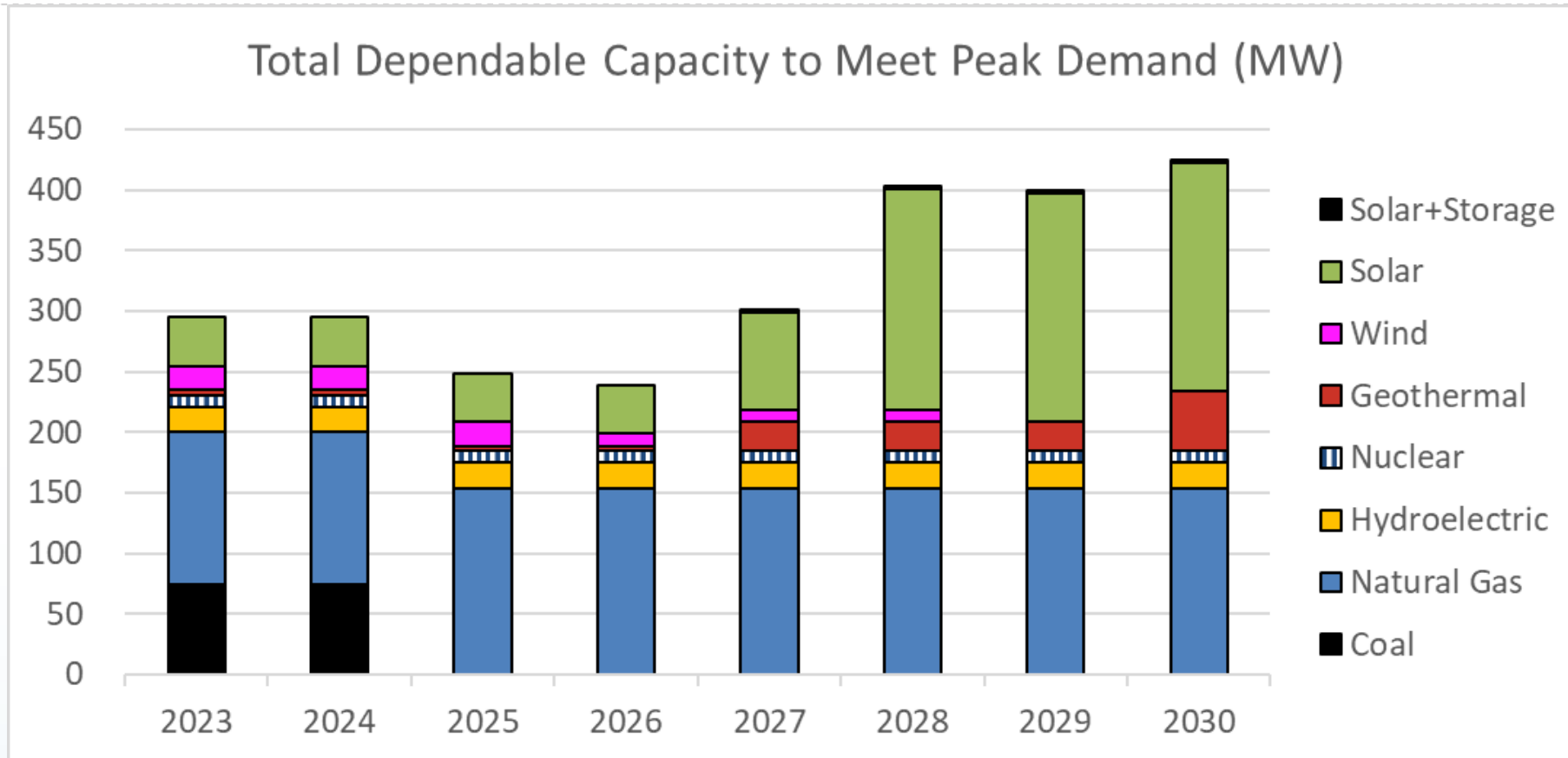


Source: CEC
analysis of
BWP's 2024
IRP

- Coal is retired
- Increased geothermal and solar
- Reduced spot market purchases
- Expiring wind and landfill gas contracts
- New transmission online in 2035



New Transmission Scenario: Dependable Capacity

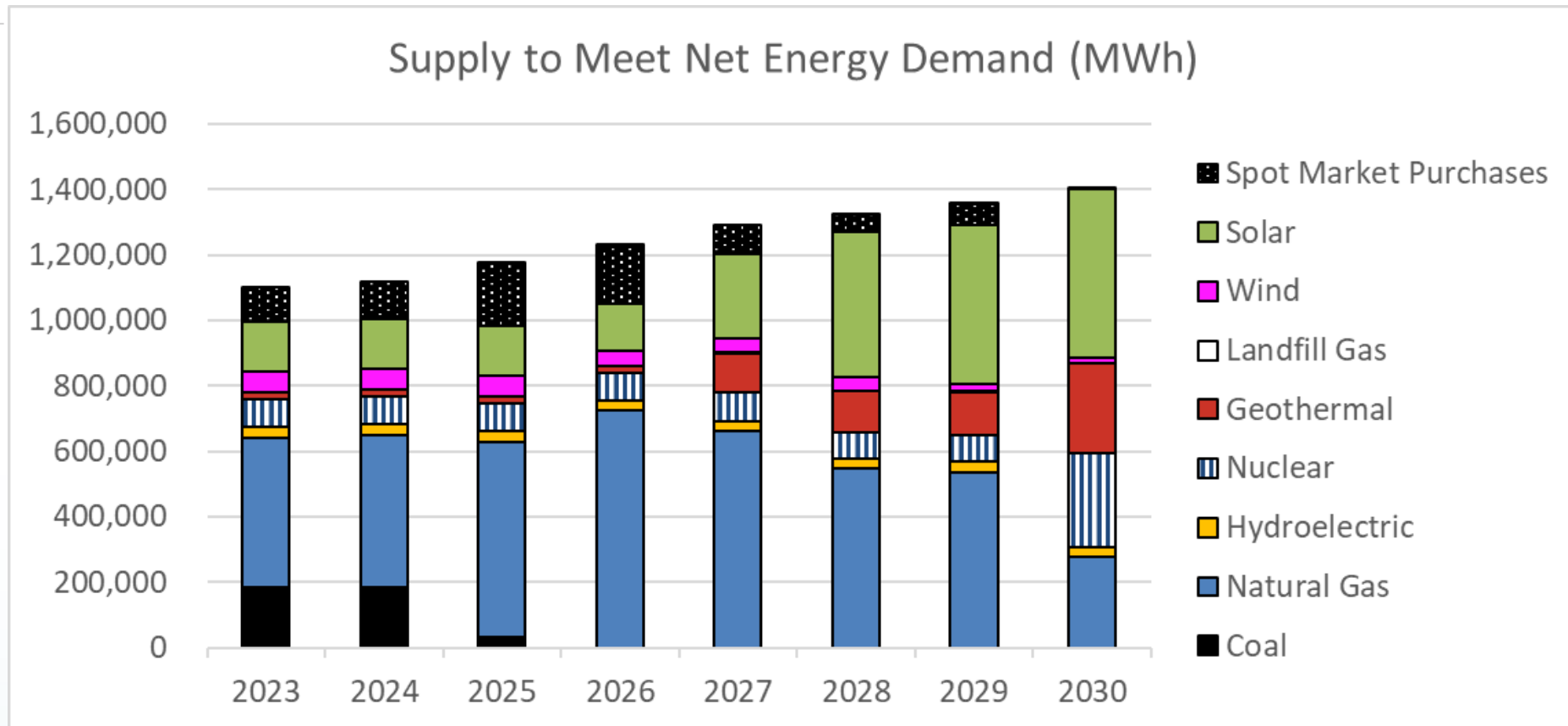


Source: CEC
analysis of
BWP's 2024
IRP

- Near term reliability shortfall managed through agreement with LADWP
- New capacity primarily geothermal and solar
- Natural gas needed to meet peak demand



Small Modular Reactor: Energy Supply

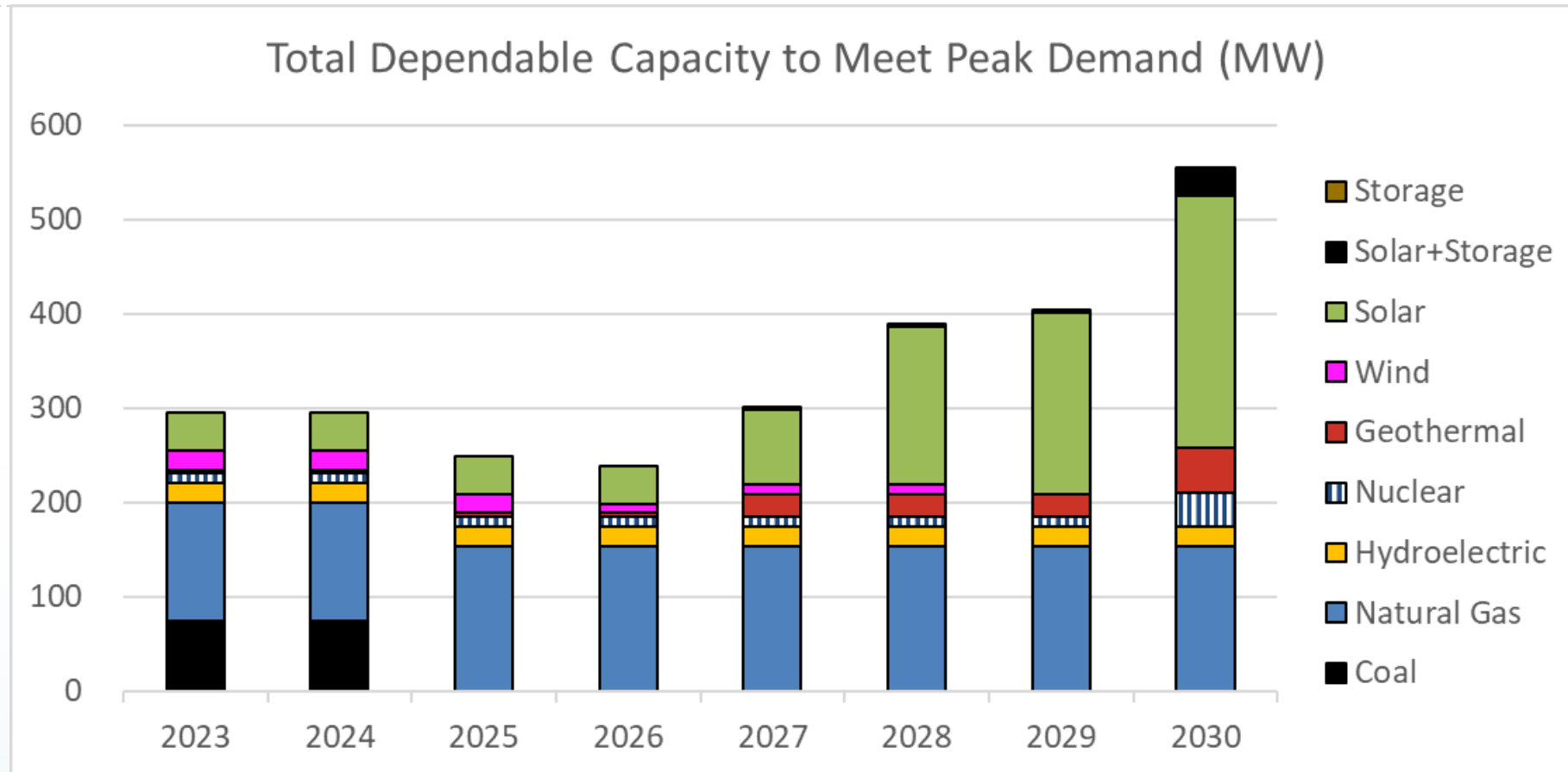


Source: CEC
analysis of
BWP's 2024
IRP

- Coal is retired
- Increased geothermal and solar
- Reduced spot market purchased
- Expiring wind and landfill gas contracts
- Small modular reactor online in 2030



Small Modular Reactor Scenario: Dependable Capacity



Source: CEC
analysis of
BWP's 2024
IRP

- Near term reliability managed through agreement with LADWP
- Emphasis on solar and solar plus storage
- Natural gas to meet peak demand



Burbank IRP Take-Aways

Vision for the Future:

- Multiple pathways to succeed
- Phase out coal
- Invest in geothermal and solar
- Fuel switch: natural gas to green hydrogen in 2035
- Scenarios diverge in 2030
 - New out of state transmission to bring in wind and solar; OR
 - Solar, storage, and a small modular reactor

Challenges Ahead:

- Long lead time of new transmission
- Commercial availability of hydrogen generation and small modular reactor
- Prospective rate increases
- Availability of cost sharing opportunities
- Accelerated GHG targets



CEC Staff Determination

BWP's IRP is consistent with PUC 9621 statutory requirements in the areas of:

- ✓ GHG emissions targets
- ✓ Renewables Portfolio Standard
- ✓ Just and reasonable rates
- ✓ System and local reliability
- ✓ Diverse, resilient, and sustainable energy system and communities
- ✓ Localized air pollutants with priority on disadvantaged communities
- ✓ Diverse portfolio of energy resources



Staff Recommendation:
Approve order adopting staff's determination that Burbank Water and Power's IRP filing is consistent with Requirements of Public Utilities Code Section 9621.