

DOCKETED	
Docket Number:	25-IEPR-03
Project Title:	Electricity and Gas Demand Forecast
TN #:	267170
Document Title:	Presentation - Draft Impacts of Known Loads for the 2025 IEPR Demand Forecast
Description:	4. Asish Gautam, CEC
Filer:	Raquel Kravitz
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	11/12/2025 11:10:32 AM
Docketed Date:	11/12/2025



Draft Impacts of Known Loads for the 2025 IEPR Demand Forecast

Asish Gautam
Demand Analysis Branch
November 13, 2025



Utility Known Load Data

- Energization requests at the distribution system level, submitted to CPUC as part of distribution system planning in the High DER proceeding
- Project level data from each IOU (joint CEC-CPUC data request)
 - As of May 2025
 - Capacity
 - Customer sector
 - Energization date
 - Load profiles
- Examples:
 - apartment buildings
 - single family housing developments
 - warehouses
 - retail stores
 - medical facilities
 - schools and colleges
 - industrial facilities



Assumptions

- **Cancellation rates**

- Based on August 2025 Grid Needs Assessments filing with CPUC

- **Ramp rates**

- Residential and commercial capacity will ramp equally every 3 months
- Industrial sector will ramp equally every 6 months

- **Utilization factor**

- Adjusted requested capacity to reflect estimated peak demand
 - PG&E based on AMI analysis of completed Known Loads projects
 - SCE applies an adjustment to capacity requested by customer
 - For SDG&E, assumed adjustment similar to SCE



Proposed Utilization Factors and Cancellation Rates

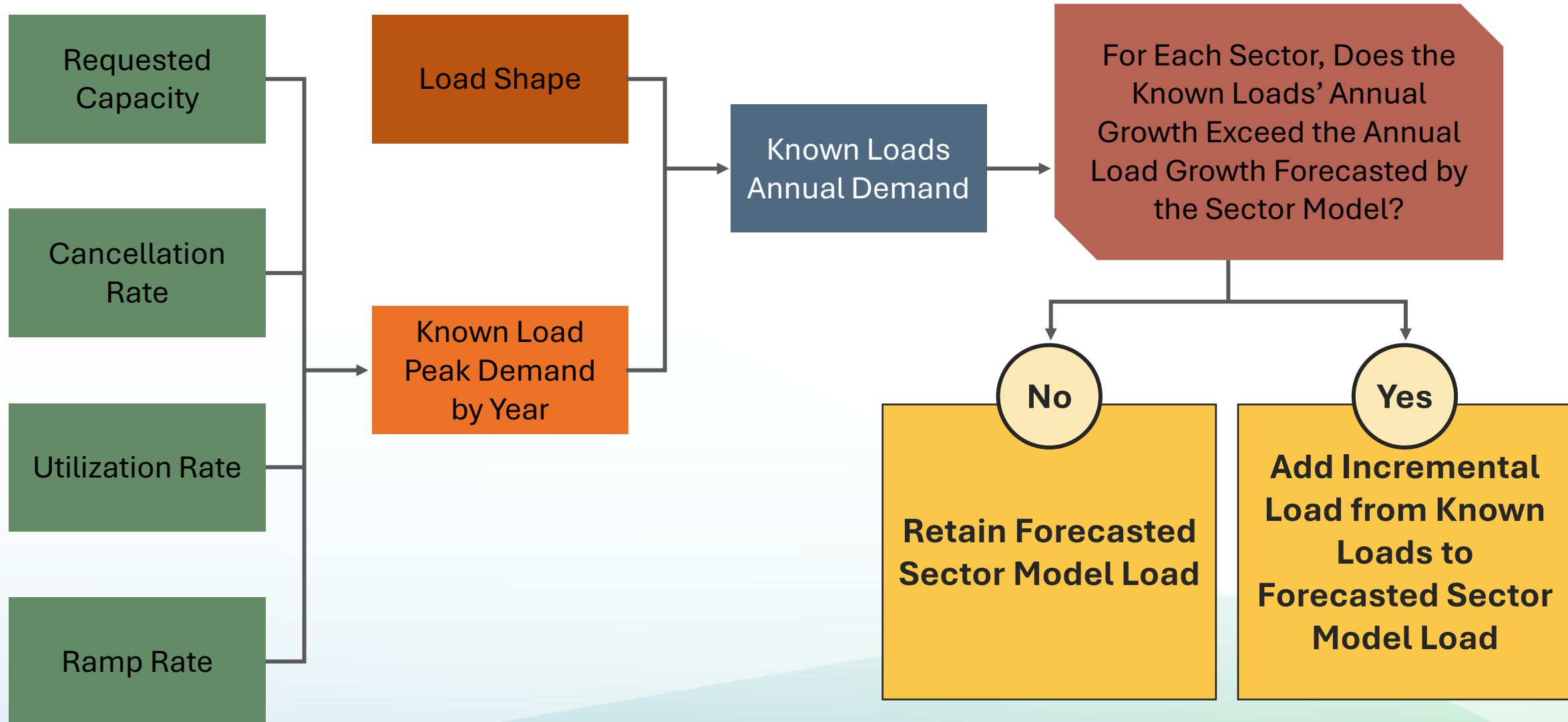
- Adjusted requested capacity to reflect estimated peak demand
- Analysis of PG&E's AMI data focuses on industrial, commercial, and agriculture sectors
- Interest in continuing to refine utilization factors for SCE and SDG&E

Utility	Sector	Utilization Factor	Cancellation Rate
PGE	Industrial	53%	15%
PGE	Commercial	65%	13%
PGE	Agriculture	99%	20%
SCE	Industrial	87%	6%
SCE	Commercial	80%	11%
SCE	Agricultural	86%	0%
SDGE	Industrial	90%	0%
SDGE	Commercial	80%	3%

Source: CEC

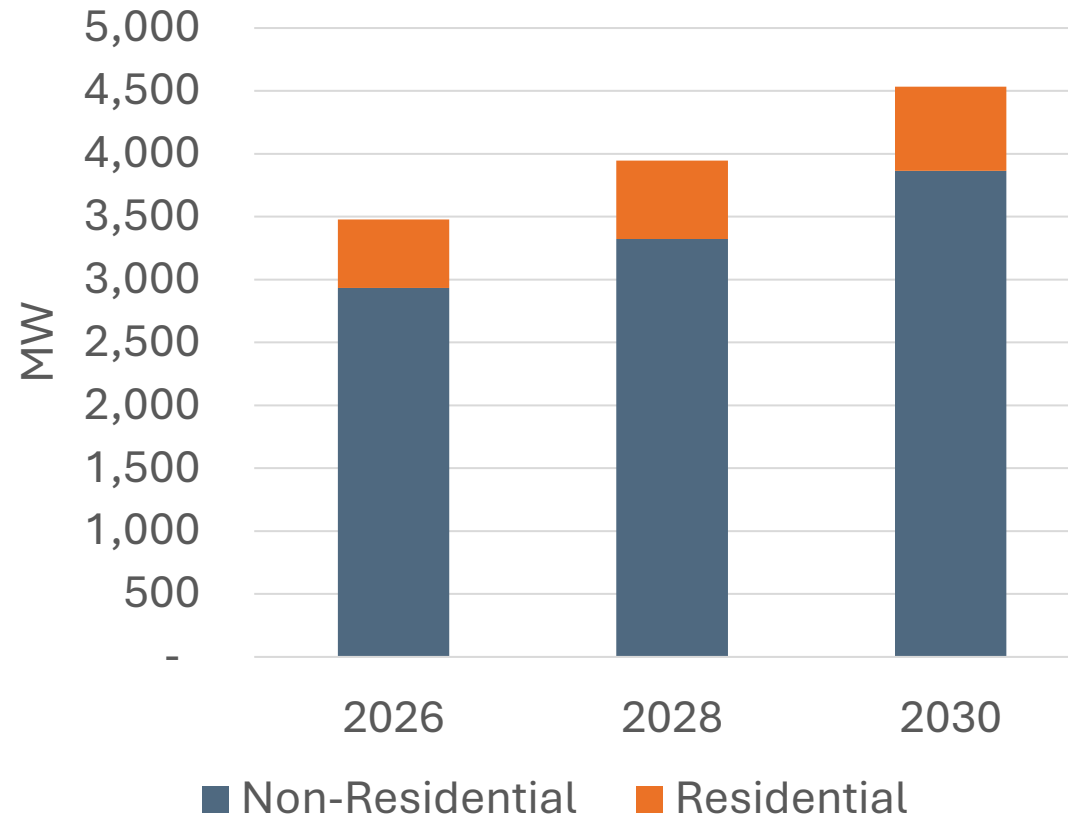


Methodology Flowchart





PG&E Known Loads Cumulative Capacity

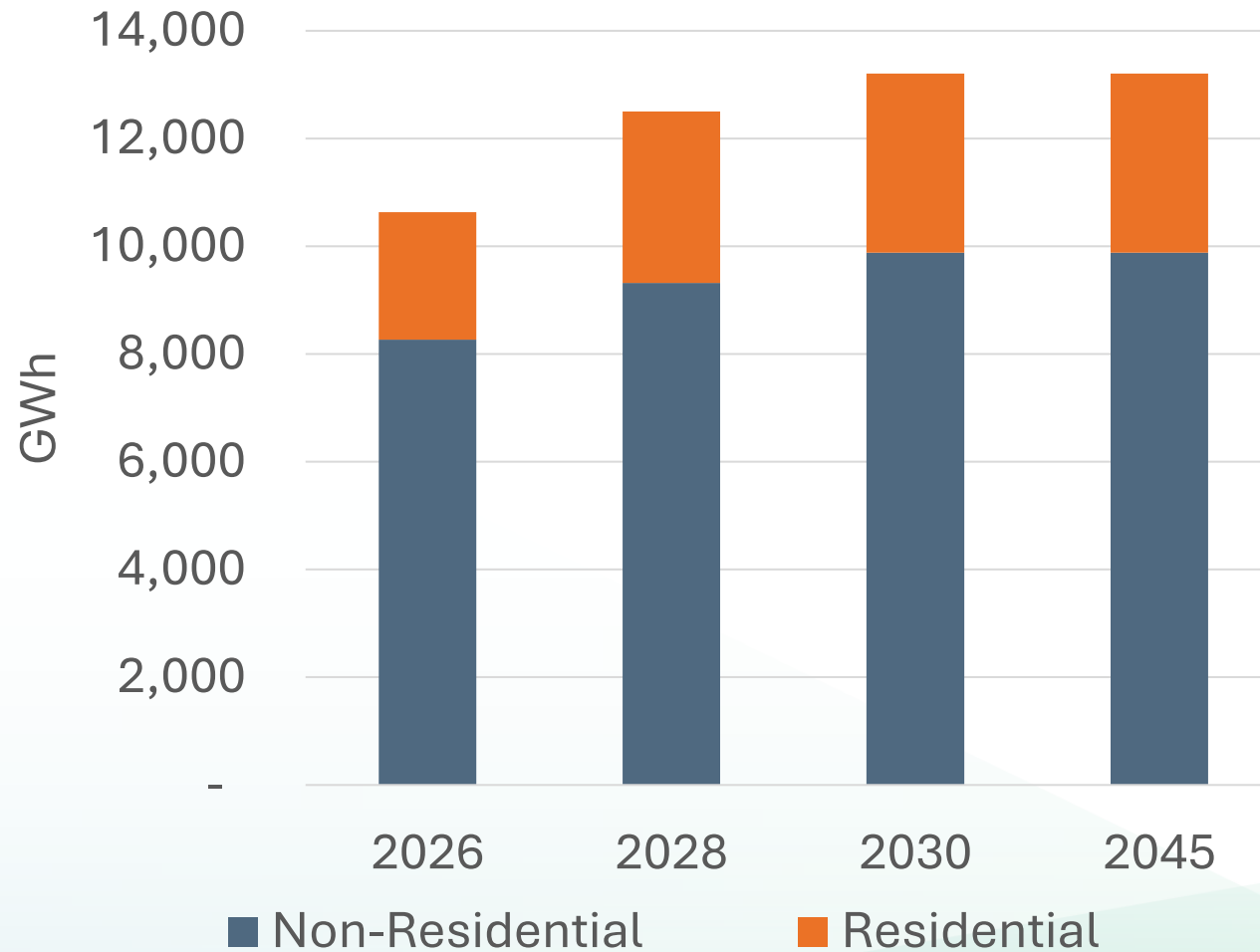


Source: CEC



PG&E Known Loads Sales Forecast

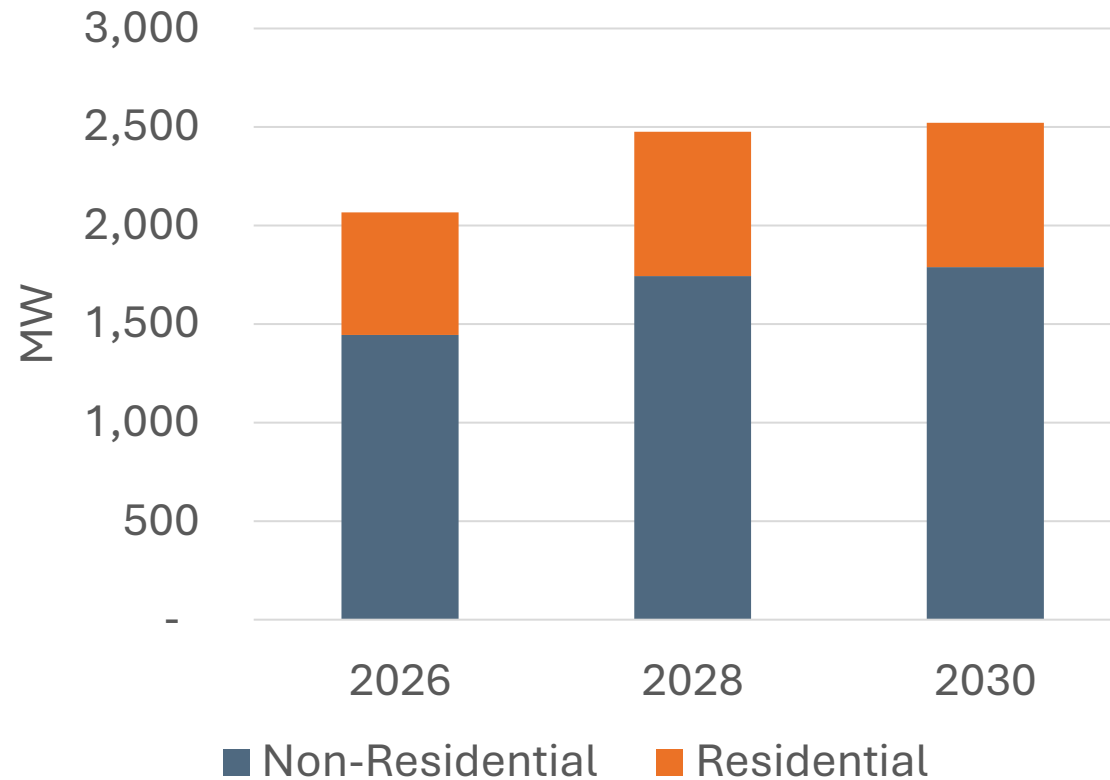
By 2030, impact of
Known Loads is
~15% of PG&E's
2024 reported sales



Source: CEC



SCE Known Loads Cumulative Capacity

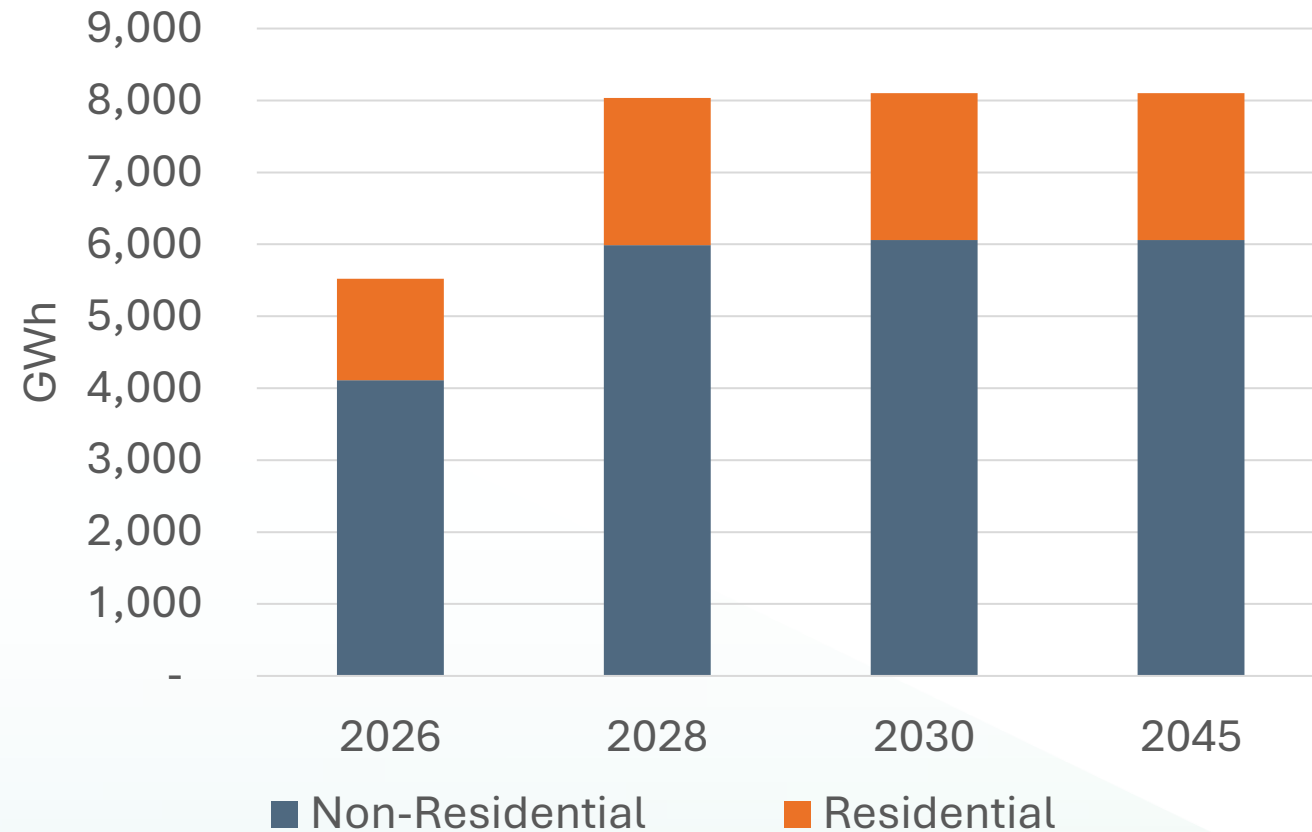


Source: CEC



SCE Known Loads Sales Forecast

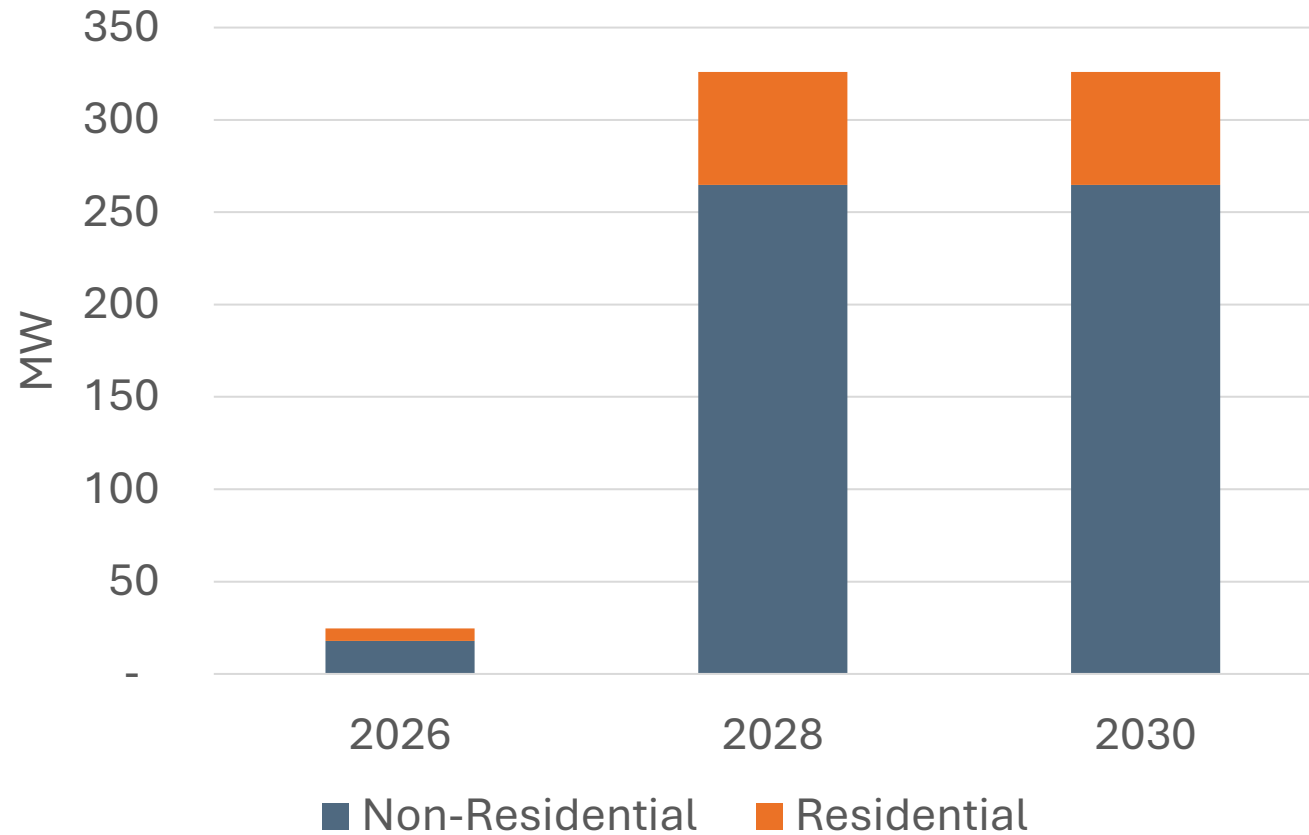
By 2030, impact of Known Loads is ~9% of SCE's 2024 reported sales



Source: CEC



SDG&E Known Loads Cumulative Capacity

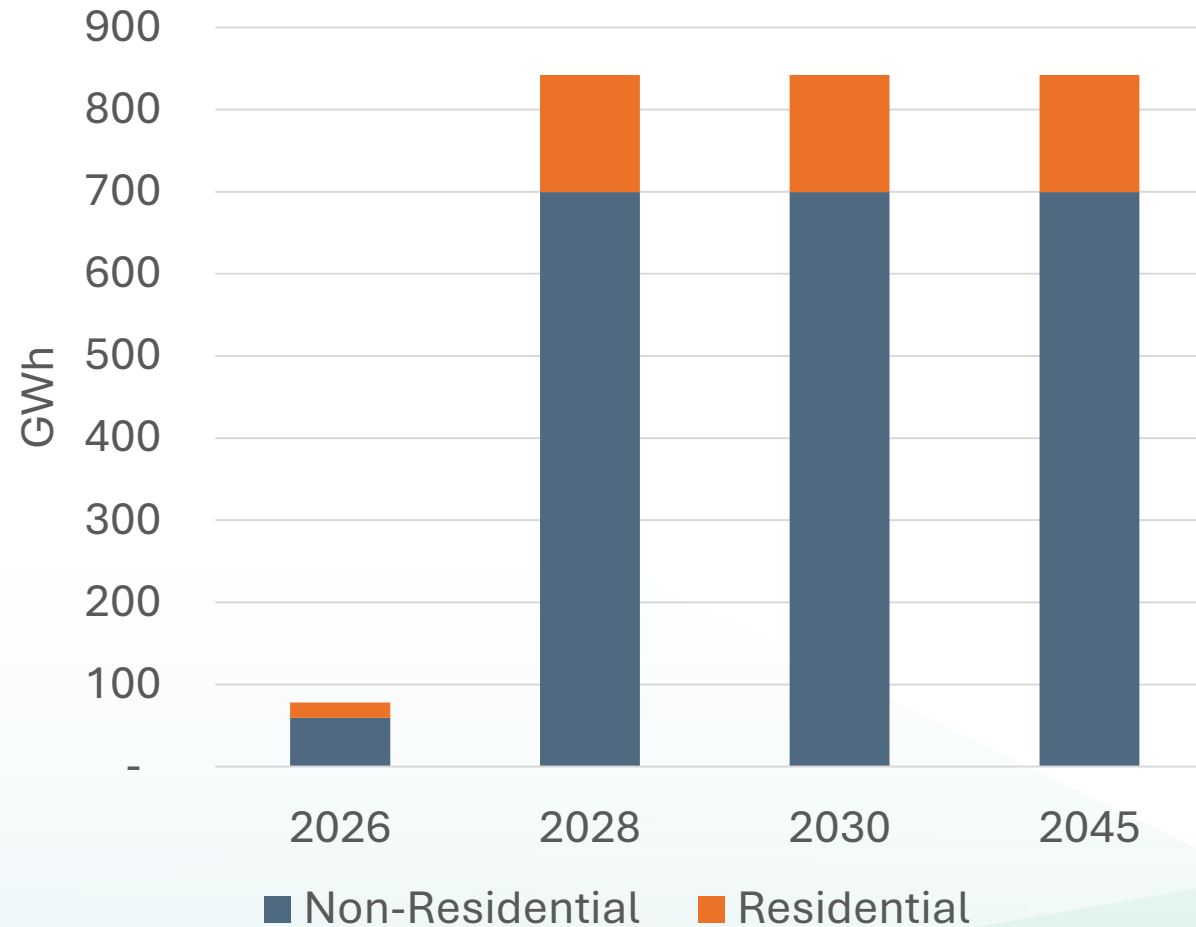


Source: CEC



SDG&E Known Loads Sales Forecast

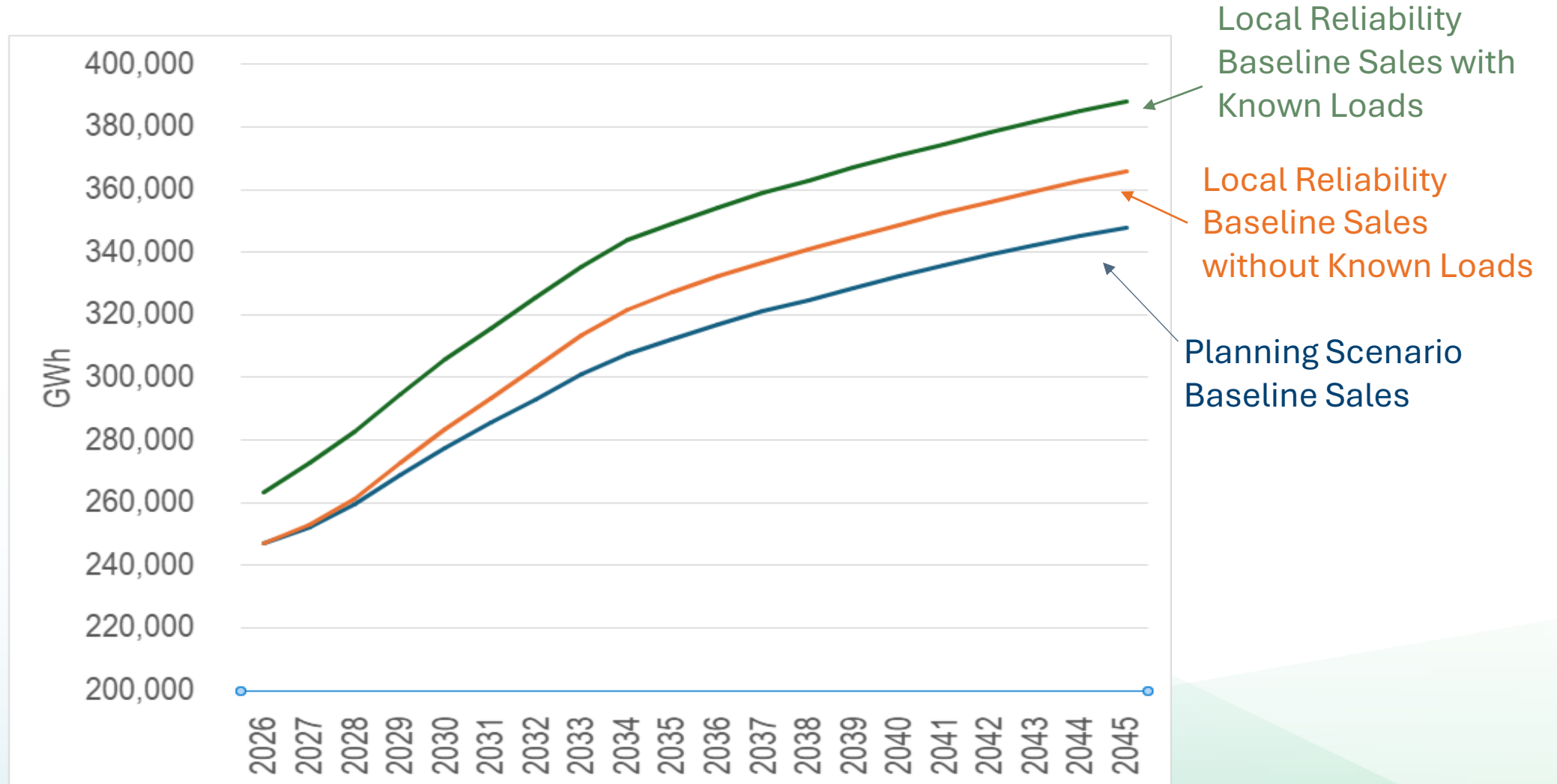
By 2030, impact of Known Loads is ~5% of SDG&E's 2024 reported sales



Source: CEC



Known Loads' Impact to the Baseline Sales



Source: CEC



Next Steps

- Updates to Known Loads dataset
- Allocation of Known Loads sales forecast to individual LSEs
- Continue AMI analysis including requesting data from SCE and SDG&E
- Consider new “Pending Loads” data for scenario analysis for future IEPR cycle
- Initiating project with Itron to look at options on how to bridge the IEPR system forecast to better support distribution planning
 - Facilitate stakeholder engagement to better understand forecast product needs
 - Evaluate approaches for a CEC Distribution Forecasting Framework
 - Evaluate methods and recommend an approach to calibrate new distribution level forecast with CEC system level forecast

Thank You!



Asish Gautam (Asish.Gautam@energy.ca.gov)
Demand Analysis Branch
Energy Assessments Division