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Description:	3.Asish Gautam, CEC			
Filer:	Raquel Kravitz			
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## Incorporating New Load Energization Requests to Utilities

Asish Gautam, Energy Assessments 8/6/2025



# **IOU Distribution Planning**

- CPUC's High DER proceeding encourages proactive planning by utilities to meet CA economic, climate, and energy goals
  - Distributed resources, building and transportation electrification
  - Other new large loads
- Identify local areas in need of infrastructure investments for future GRC funding cycle
- IOUs include new energization requests, captured in the Known Loads Database, for consideration in distribution planning



### **Known Loads Data**

- Issued joint CPUC-CEC data request to obtain project level data from IOUs
  - Information collected include load category, capacity, status, distribution circuit ID, transmission substation, local capacity area
  - Known Loads data will help inform IEPR of near-term load growth
- Staff to incorporate project level data as part of baseline sales by sector
  - Apply load profiles
  - Additional analysis of AMI data to understand variation in load
  - Propose that EV charging stations be handled as before in 2024 IEPR
- For 2025 IEPR, staff proposes that Known Loads are included as part of Local Reliability scenario



# Incorporating Known Loads Data in IEPR Demand Forecast

- To avoid double counting impacts, CEC proposes to examine impacts by major sector (residential, commercial, industrial) and on an annual energy basis
- Add the "net load" of impacts from Known Loads data to IEPR baseline sales/consumption to avoid double counting

Illustrative Example							
				Net Addition			
		IEPR Baseline		to Baseline			
Year	Sector	Sales	Known Loads	Sales			
2027	Residential (MWh)	1,000	1,200	200			
2028	Residential (MWh)	1,000	900	-			



### Potential Peak Impacts from Incorporating Known Loads Data

		Share Coincident with System			2024 IEPR Reliability
SDG&E		(MW)			Scenario (Form1.5D)
					1-in-10 Peak Demand
Year	Total Capacity (MW)	10%	25%	50%	Annual YOY Growth (MW)
2026	88	9	22	44	73
2027	200	20	50	100	99
2028	228	23	57	114	157
2029	250	25	62	125	145
2030	254	25	64	127	135
		Share Coincident with System		ith System	2024 IEPR Reliability
SCE		(MW)			Scenario (Form1.5D)
					1-in-10 Peak Demand
Year	Total Capacity (MW)	10%	25%	50%	Annual YOY Growth (MW)
2026	846	85	211	423	230
2027	1,158	116	290	579	345
2028	1,315	131	329	657	491
2029	1,361	136	340	680	619
2030	1,393	139	348	697	567
		Share Coincident with System		ith System	2024 IEPR Reliability
PG&E		(MW)			Scenario (Form1.5D)
					1-in-10 Peak Demand
Year	Total Capacity (MW)	10%	25%	50%	Annual YOY Growth (MW)
2026	696	70	174	348	503
2027	1,055	105	264	527	561
2028	1,250	125	312	625	1,317
2029	1,382	138	345	691	1,121
2030	1,998	200	500	999	1,253

- Depending on how coincident Known Load projects are with utility system peak, Known Loads could significantly increase peak demand.
- For 2025 IEPR, CEC recommends that impacts from Known Loads data only be included for Local Reliability scenario to limit downstream impacts (RA, IRP, etc).
- Future IEPR cycles could include Known Loads in Planning Scenario



- Near-term:
  - CEC to include impacts of Known Load data into 2025 IEPR forecast to reflect impacts at system level as part of local reliability scenario
- Long-term:
  - CEC to explore models/tools to develop a more granular forecast



# **Thank You!**

#### **Questions or Comments**

Asish Gautam (Asish.Gautam@energy.ca.gov)