DOCKETED	
Docket Number:	25-IEPR-03
Project Title:	Electricity and Gas Demand Forecast
TN #:	264912
Document Title:	Presentation by Southern California Edison (SCE)
Description:	Presentation by Southern California Edison during the July 16 DAWG Workshop
Filer:	Denise Costa
Organization:	Southern California Edison Company
Submitter Role:	Energy Commission
Submission Date:	7/18/2025 4:41:16 PM
Docketed Date:	7/18/2025

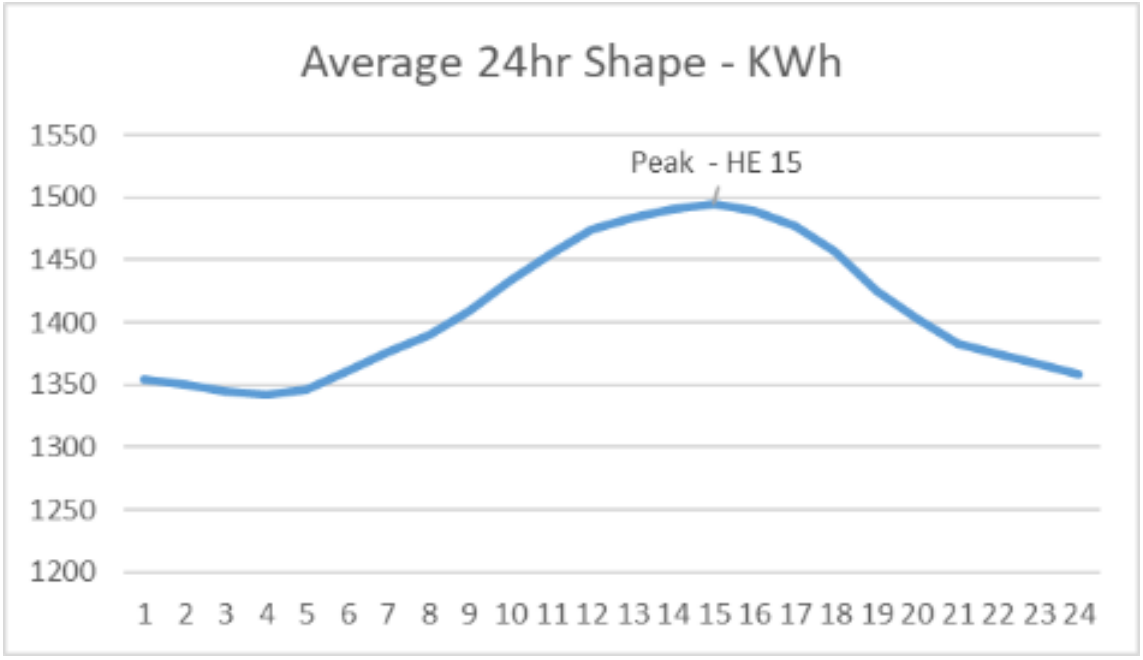
SCE Data Center Tracking and Forecasting

7/16/25 DAWG Workshop

Brent Buffington, SCE

Existing Data Center Demand

- ~80 MW coincident peak impact
- Existing data centers are small relative to recent requests
- Existing data center demand peaks during the super-peak hours
  - Cooling load
- Load factors between 60-90%



Data Center Project Tracking

1. Initiation
   - Customer inquiries or requests
2. Feasibility Assessment
   - Engineering Analysis Report
   - Method of Service (MOS) Study
3. Estimated Timelines Based on System Upgrade Scope
   - Moderate system work: 18-24 months
   - Substantial system work: 24-36 months
   - Long-lead system work: 36+months

Customer requests and inquiries remain dynamic

- Sixteen (16) new projects have recently been added to our tracking list
  - Each is undergoing assessment to update confidence levels
- Of forty-three (43) projects tracked last year:
  - Increased the likelihood of eight (8) projects
  - Decreased the likelihood of nineteen (19) projects
  - Maintained the likelihood of sixteen (16) projects
- Reasons for likelihood changes
  - Method of Service (MOS) or other study progress
  - Level of customer engagement
  - Shifts in stated development timelines
  - Reported site or permitting issues
  - Completeness of technical data submittal
  - Redundancy with other active inquiries

Bottoms-up Data Center Forecasting Example

Generally, projects deeper in the process are assigned higher success rates

Project ID	Project Status	Example Success Rate
A	“Method of Service” Study Completed	70%
B	MOS submitted	50%
C	Pre-MOS	25%
D	Contacted CS regarding potential sites	1%

Long-Term Data Center Growth Scenarios

Future growth rate needs to be considered

- Bottoms-up methods rely on actual requests and inquiries
- No one is requesting data centers with 2040 online dates

SCE's Current Scenarios

- Low Growth
  - Limited future data centers and/or significant self-generation
- Mid Growth
  - Tempered growth reflecting increased efficiency and some self-generation
- Continued Growth
  - Growth continues at near to mid-term rate

SCE Data Center Forecast Results

Forecast		Incremental Impact	Methods	Source
1. Start w/ Existing Demand	**Existing Data Center Demand**	80 MW	Carve out existing data center demand to forecast independently of baseline consumption.	Internal Customer Usage Data
2. Add in Impact from Planned Projects & Inquiries	**Near-Term Growth (2025-2028)**	200 MW	Known data center projects – from engineering studies, grid planning ops, etc.	Planned Data Center Projects
	Mid-Term Growth (2029-2035)	400 MW	Known projects that may require significant grid upgrades. Add potential impact from early-stage interconnection inquiries.	Planned Data Center Projects & Customer Inquiries
3. Use Growth Rate for Long-Term	**Long-Term Growth (2036+)**	300 MW	Developed four long-term growth scenarios & polled internal experts to get average view.	External Research & Internal Survey
Cumulative Impact		**980 MW**		