

# Keeping Data Centers Clean *and in the Public Interest*

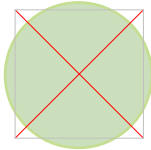
**Nico Procos**  
Electric Utility Director

April 13, 2026

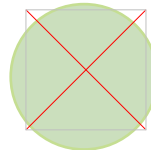


# About Silicon Valley Power

Vertically Integrated Utility – Transmission, Generation, Distribution



**129 years young**  
Established in 1896



**Department of the  
City of Santa Clara**

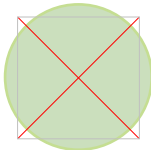


**3<sup>RD</sup>**

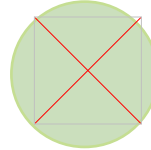
**Largest Municipal Utility**  
Retail Sales in CA



**19.3 sq. Miles**  
Service Area



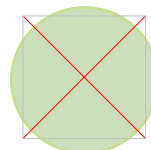
**746 MW**  
Peak Demand



**131,062 Residents**  
60,980 Electric Accounts



**235 SVP Employees**



**58 Data Centers**  
Largest data center cluster on  
West Coast



# Data Center Cluster Map



Tech. Alley



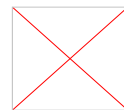
Santa Clara University / Mission College



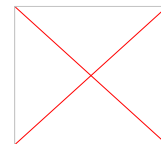
Data Center



Levi's Stadium



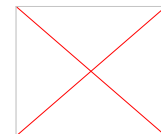
City Hall



Great America



Police Department



SJC Airport

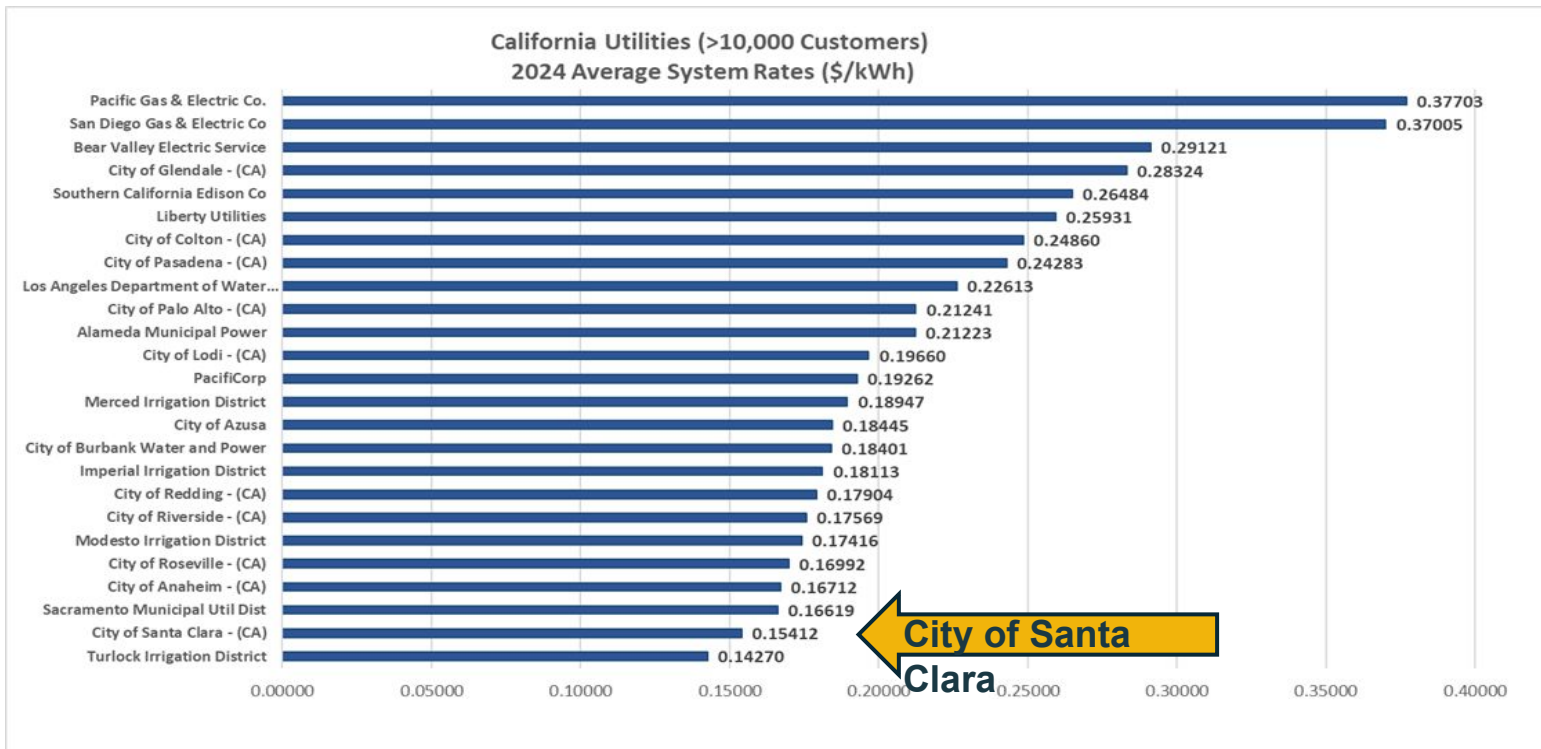
# Energy Density



	City of Santa Clara	City of Palo Alto	City of San Jose
Sq. Miles	19.3	26	181
Population	131,062	66,010	970,000
Peak Load	714 MW	170 MW	1,236 MW
Energy Intensity	36.9 MW / sq. mile *	6.5 MW / sq. mile	6.8 MW / sq. mile

\* Projected load growth to 1,300 MW increases energy density to 67 MW per square mile.

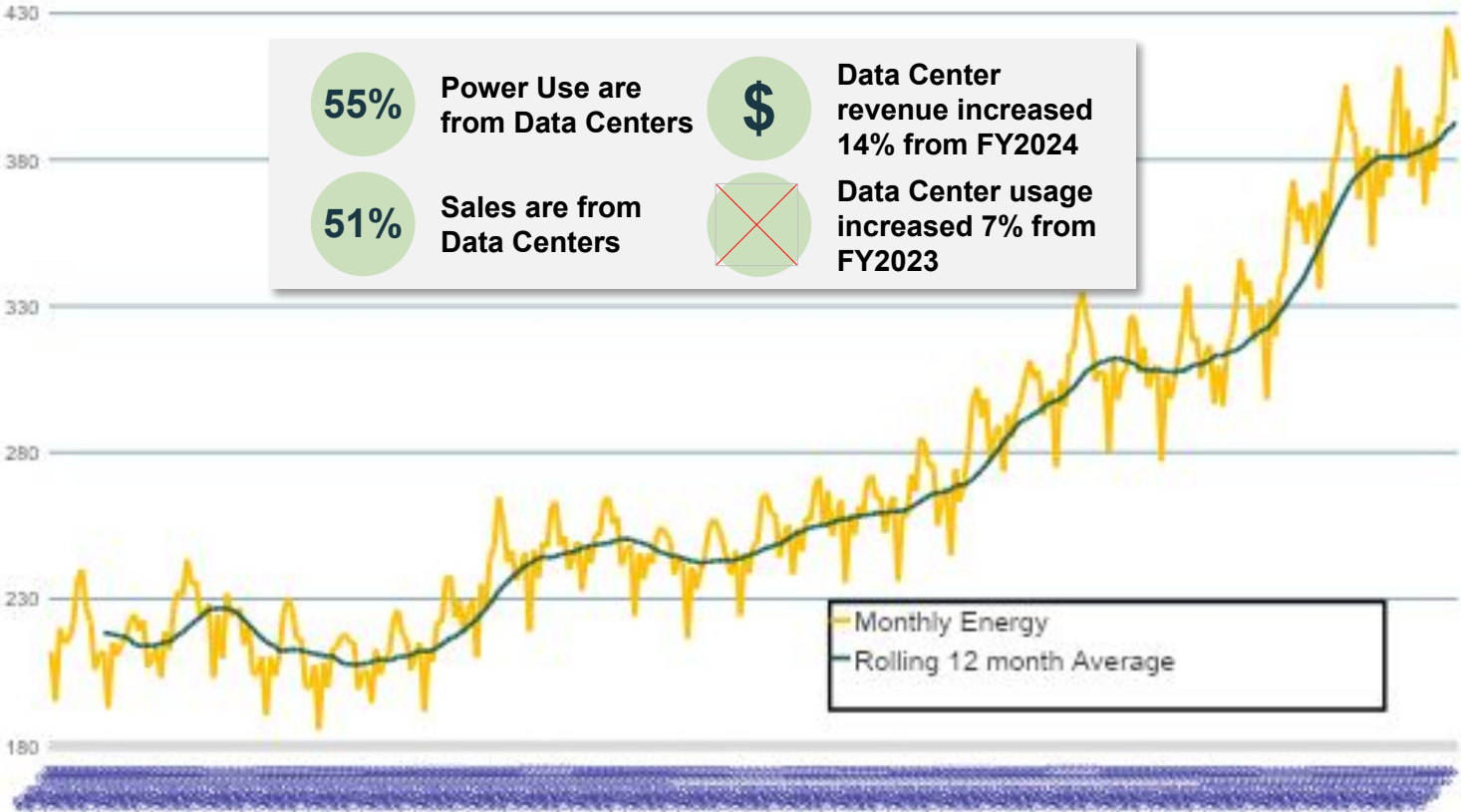
# Average System Rate Comparison with Utilities in CA



Based on Form EIA-861 - Annual Electric Power Industry Report, collects data from distribution utilities and power marketers of electricity.





# SVP Historic Load Growth

Monthly Gigawatt Hours  
(GWh)




# Powering the South Bay



## In Progress Bay

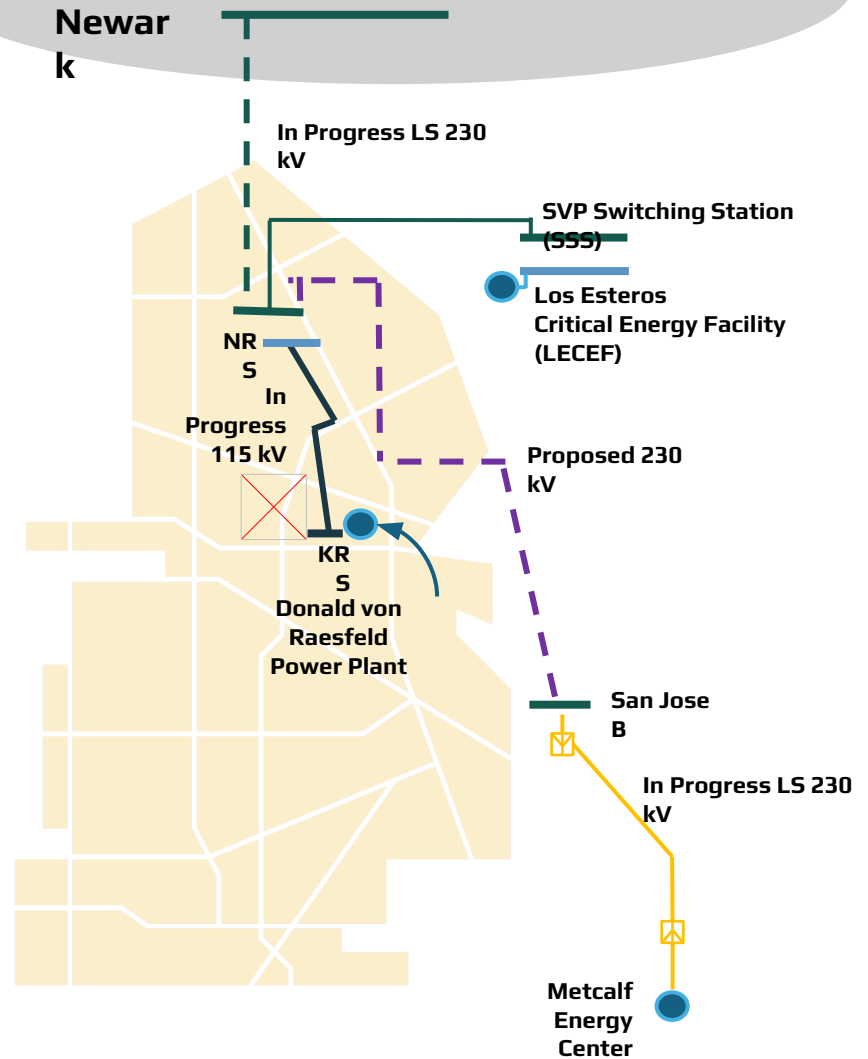
-  LS 230 kV (Newark to NRS)
-  LS 230 kV (Metcalf to San Jose B)
-  115 kV (NRS to KRS)
-  50MW/200MWh Battery Energy Storage Project

## Proposed

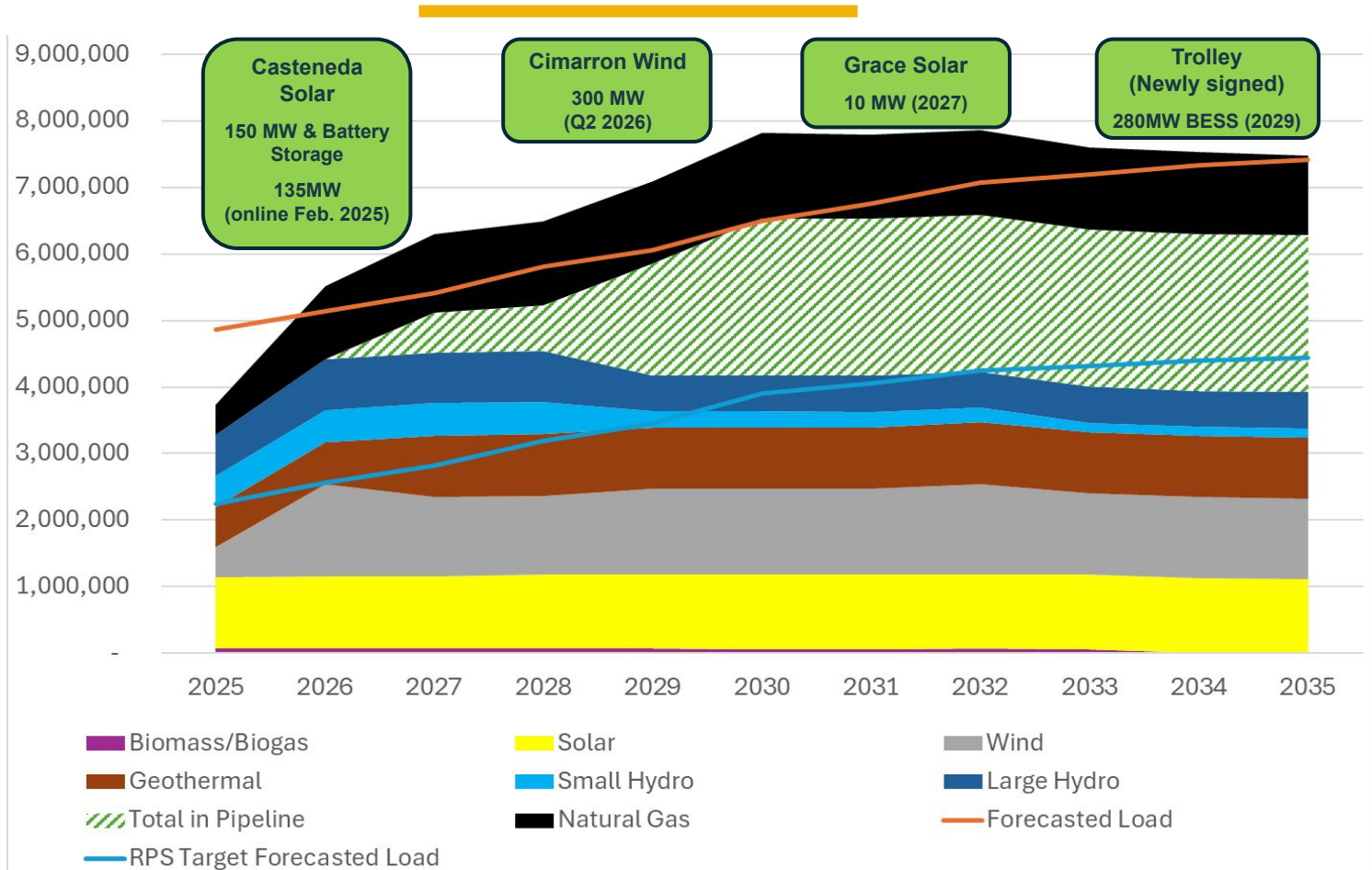
-  230 kV (San Jose B to NRS)

## Regional

-  Power Plant
-  Alameda County



# Resource Stack 2025-2035





Powering The Center of What's Possible

# ELECTRIC RESOURCE MAP

M-S-R Big Horn I Wind | 105 MW

M-S-R Big Horn II Wind | 17 MW

South Feather Power Project | 78 MW

Grizzly Hydroelectric | 20 MW

Camp Far West | 6.8 MW

Stony Creek Hydroelectric | 11.6 MW

G2 Landfill Gas | 1.3 MW

NCPA Geothermal | 55.7 MW

Geysers Geothermal | 50 MW / 100 MW  
Coming 2025/2027

Western Area Power Administration (WAPA) | 136 MW

Altamont Wind Projects | 49.5 MW  
TBD

NCPA Lodi Energy Center Natural Gas | 72 MW

Ameresco Vasco Landfill Gas | 4.6 MW

NCPA Calaveras Hydroelectric | 93.6 MW

NCPA Combustion Turbine Facilities | 31 MW

Tri-Dam Small Hydroelectric | 16.2 MW

## IN TOWN RESOURCES 📍 Santa Clara, CA



Jenny Strand Solar PV System | 100 kW  
Tasman Parking Structure Solar PV | 400 kW



Ameresco Santa Clara Landfill Gas | 750 kW



Donald Von Raesfeld Power Plant | 147.8 MW  
Gianera Generating Station | 49.5 MW  
230 kV Transmission Line | 400 MW Capacity

Ameresco Forward Landfill Gas | 4.6 MW

Friant Small Hydroelectric | 25 MW

Friant II Small Hydroelectric | 7 MW

Tri-Dam Large & Small Hydroelectric | 109.5 MW

Central 40 Solar | 40 MW

Aquamarine Solar | 75 MW

Rio Bravo Hydroelectric | 14.4 MW

Manzana Wind Power | 50 MW

Rosamond Solar | 20 MW

Cimarron Wind | 300 MW  
Coming 2026

## LEGEND



Wind



Solar



Geothermal



Hydroelectric



Landfill



Natural Gas

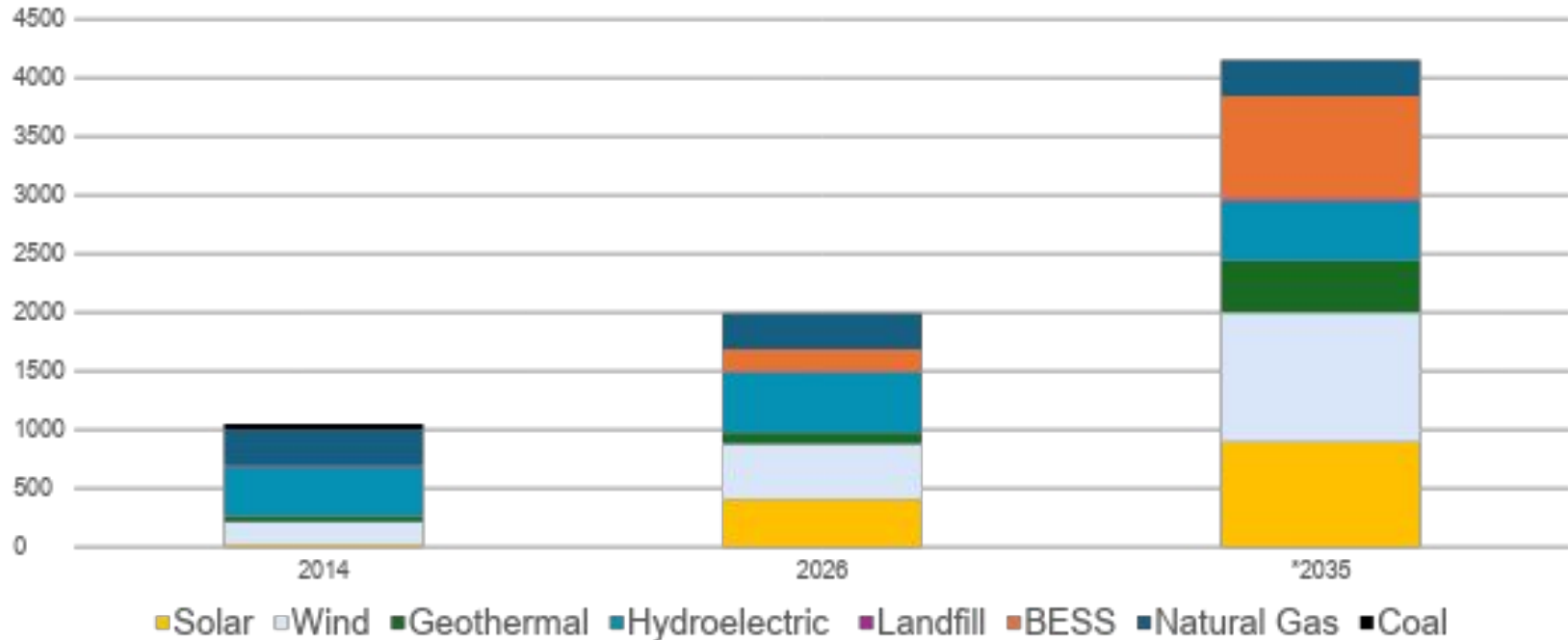
## SVP Jointly Owned Transmission Projects

California-Oregon Transmission Project

Tesla-Midway Transmission Service



# Renewable Energy Then, Now, and Ahead



\* Resource in 2035 are estimated based on resources under contract + projects under consideration + generic resources considered in SVP's 2023 IRP

# THANK YOU



*Powering* The Center of What's Possible

