

City of Santa Clara Electric Resource Map



Wind

M-S-R Big Horn I Wind Project
 Location: **Brickleton, WA**
 Owners: **Avangrid (PPA)**
 Size: **200 MW; 105 MW to SVP**
 Completed: **2006**

M-S-R Big Horn II Wind Project
 Location: **Brickleton, WA**
 Owners: **Avangrid (PPA)**
 Size: **50 MW; 17 MW to SVP**
 Completed: **2010**

Manzana Wind Power Project
 Location: **Kern County, CA**
 Owners: **Avangrid (PPA)**
 Size: **189 MW; 50 MW to SVP**
 Completed: **2012**

Altamont Wind Projects
 Location: **Alameda County, CA**
 Owners: **Rooney Ranch Wind LLC, Sand Hill A LLC, Sand Hill B LLC**
 Size: **49.5 MW**
 Completed: **TBD**

Cimarron Wind
 Location: **Baja, CA**
 Owners: **Energia Sierra Juarez U.S.**
 Size: **300 MW**
 Completed: **Coming 2026**



Hydroelectric

WAPA Central Valley Project
 Location: **Multiple**
 Owners: **WAPA (PPA)**
 Size: **136 MW to SVP**
 Completed: **1985**

NCPA Calaveras Hydroelectric Project
 Location: **Stanislaus River Basin**
 Owners: **NCPA (JPA)**
 Size: **252.8 MW; 93.6 MW to SVP**
 Completed: **1990**

Grizzly Hydroelectric Project
 Location: **Plumas County**
 Owners: **Silicon Valley Power**
 Size: **20 MW**
 Completed: **1993**

Stony Creek Hydroelectric System
 Location: **Stony Creek River System**
 Owners: **Silicon Valley Power**
 Size: **11.6 MW**
 Completed: **1998**

Tri-Dam Large & Small Hydroelectric Project
 Location: **Tuolumne County, CA**
 Owners: **The Tri-Dam Project (PPA)**
 Size: **109.5 MW**
 Completed: **2014**

Tri-Dam Small Hydroelectric Project
 Location: **Tuolumne County, CA**
 Owners: **The Tri-Dam Project (PPA)**
 Size: **16.2 MW**
 Completed: **2016**

Friant I Small Hydroelectric Project
 Location: **Fresno County, CA**
 Owners: **Friant Power Authority (PPA)**
 Size: **25 MW**
 Completed: **2016**

Friant II Small Hydroelectric Project
 Location: **Fresno County, CA**
 Owners: **Friant Power Authority (PPA)**
 Size: **7.3 MW**
 Completed: **2017**

Rio Bravo
 Location: **Kern County, CA**
 Owners: **Olcese Water District (PPA)**
 Size: **14 MW**
 Completed: **1989**

Camp Far West Hydroelectric Project
 Location: **Plumas County, CA**
 Owners: **SSWD (PPA)**
 Size: **6.8 MW**
 Completed: **2022**

South Feather Power Project
 Location: **Butte, Plumas, and Yuba County, CA**
 Owners: **SFWPA (PPA)**
 Size: **121.5 MW; 78 MW to SVP**
 Completed: **2021**



Solar

Jenny Strand Solar PV System
 Location: **Santa Clara, CA**
 Owners: **Silicon Valley Power**
 Size: **100 KW**
 Completed: **2012**

Tasman Parking Structure Solar PV
 Location: **Santa Clara, CA**
 Owners: **Silicon Valley Power**
 Size: **400 KW**
 Completed: **2013**

Rosamond Solar
 Location: **Kern County, CA**
 Owners: **Recurrent Energy (PPA)**
 Size: **20 MW**
 Completed: **2013**

Central 40 Solar
 Location: **Merced County, CA**
 Owners: **Central 40 LLC (PPA)**
 Size: **40 MW**
 Completed: **2021**

Aquamarine Solar
 Location: **Kings County, CA**
 Owners: **Aquamarine Westside**
 Size: **200 MW**
 Completed: **2021**

Castanea Solar + Storage
 Location: **Kings County, CA**
 Owners: **Castanea Project LLC (PPA)**
 Size: **Size 150 MW PV / 135 MW BESS**
 Completed: **2025**



Landfill

G2 Landfill Gas
 Location: **Wheatland, CA**
 Owners: **G2 Energy (PPA)**
 Size: **1.6 MW**
 Completed: **2009**

Ameresco Santa Clara Landfill Gas
 Location: **Santa Clara, CA**
 Owners: **Ameresco (PPA)**
 Size: **750 KW**
 Completed: **2009**

Ameresco Forward Landfill Gas
 Location: **Manteca, CA**
 Owners: **Ameresco (PPA)**
 Size: **4.2 MW**
 Completed: **2014**

Ameresco Vasco Landfill Gas
 Location: **Livermore, CA**
 Owners: **Ameresco (PPA)**
 Size: **4.3 MW**
 Completed: **2014**



Natural Gas

NCPA Combustion Turbine Facilities
 Location: **Alameda & Lodi, CA**
 Owners: **NCPA (JPA)**
 Size: **75 MW; 31 MW to SVP**
 Completed: **1986**

Gianera Generating Station
 Location: **Santa Clara, CA**
 Owners: **Silicon Valley Power**
 Size: **49.5 MW**
 Completed: **1986**

Donald Von Raesfeld Power Plant
 Location: **Santa Clara, CA**
 Owners: **Silicon Valley Power**
 Size: **147.8 MW**
 Completed: **2005**

NCPA Lodi Energy Center
 Location: **Lodi, CA**
 Owners: **NCPA (JPA)**
 Size: **302.6 MW; 77.9 MW to SVP**
 Completed: **2012**



Geothermal

NCPA Geothermal Project
 Location: **Sonoma/Lake County**
 Owners: **NCPA (JPA)**
 Size: **131.5 MW; 58.4 MW to SVP**
 Completed: **1983**

Geysers Geothermal
 Location: **Sonoma/Lake County**
 Owners: **Geysers Power Company (PPA)**
 Size: **35 MW/70 MW (2027)**
 Completed: **2025**

NOTE | For pre-existing resources, the completed date indicates when SVP began taking deliveries.





Powering The Center of What's Possible

ELECTRIC RESOURCE MAP



IN TOWN RESOURCES 9 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

LEGEND

- Wind
- Solar
- Geothermal
- Hydroelectric
- Landfill
- Natural Gas

SVP Jointly Owned Transmission Projects

- California-Oregon Transmission Project
- Tesla-Midway Transmission Service