



# THE GEYSERS: NORTH AMERICA'S LARGEST GEOTHERMAL OPERATION

## THE GEYSERS BY THE NUMBERS

The Geysers Geothermal Field 2024 Statistics



### 15 Geothermal Power Plants spanning Lake and Sonoma Counties in Northern California

The Geysers, spanning nearly 45 square miles along the Sonoma and Lake County border, is the largest complex of geothermal power plants in the world. Today, there are 15 geothermal power plants operating at The Geysers and Calpine Corporation, the largest geothermal power producer in the U.S., owns and operates 13 power plants with a net generating capacity of up to 725 megawatts of electricity - enough to power 725,000 homes and businesses

- **Calpine's Lake County power plants:** Calistoga U-19, Big Geysers U-13, Quicksilver U-16
- **Calpine's Sonoma County power plants:** Aidlin U-1, McCabe U-5/6, Ridge Line U-7/8, Eagle Rock U-11, Cobb Creek U-12, Lake View U-17, Sulphur Springs U-14, Sonoma U-3, Grant U-20, Socrates U-18
- **Northern California Power Agency's Sonoma County power plants:** Unit 1 & Unit 2



### Calpine's Geothermal Operations:

- 28,447 acres, about 44.5 square miles
- Located 75 miles north of San Francisco in the Mayacamas Mountain Range
- 13 Operating Geothermal Power Plants
- 10 Power Plants in Sonoma County; 3 Power Plants in Lake County
- Steam Pipelines = 92.2 miles
- Injection Waterlines = 72 miles
- 21kV Power Lines = 75 miles
- Project Roads = Over 171 miles



### Geothermal Wells:

- Calpine Active Steam Wells: 322
- Calpine Active Injection Wells: 60
- Average Well Depth: 8,500 ft
- Deepest Well: 12,900 ft
- Total Calpine Geysers wells drilled to date: 616
- Today's average grassroots drilling time: 77 days (65 days drilling + 7 rig up/down)
- 2024 Average Steam Production Per Well: 36,083 Pounds Per Hour
- Flow Weighted Average Well Head Temperature: 366.6 Deg F
- Flow Weighted Average Well Head Pressure: 81.1 psig
- Most Recent Steam Well Drilled: Prati State 66 completed on January 7, 2025
- Most Recent Injection Well Drilled: GDC36 completed on January 30, 2024

### Power Generation:

- First Exploratory Well Drilled in 1920; First Modern Well Drilled in 1955, and is still in production today
- 1960: PG&E Geysers Unit 1 began operation, the first large-scale geothermal power plant in the USA
- 2024 Max Capacity: 694 Net Megawatts
- 2024 Generation: 5,471,562 Net Megawatt Hours
- 2024 Average Unit Availability: 93.6631%



Calpine Corporation is America's largest generator of electricity from natural gas and geothermal resources with operations in competitive power markets. Our fleet of 79 energy facilities in operation represents over 27,000 megawatts of generation capacity. Through wholesale power operations and our retail businesses, we serve customers in 22 states and Canada. Our clean, efficient, modern and flexible fleet uses advanced technologies to generate power in a low-carbon and environmentally responsible manner. We are uniquely positioned to benefit from the secular trends affecting our industry, including the abundant and affordable supply of clean natural gas, environmental regulation, aging power generation infrastructure and the increasing need for dispatchable power plants to successfully integrate intermittent renewables into the grid.



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