

# GEYSERS BY THE NUMBERS

## The Geysers Geothermal Field 2019 Calpine Statistics



Geothermal – Clean, Reliable,  
Renewable, Baseload Power

The Geysers, comprising 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 about 725 megawatts of electricity - enough to power 725,000 homes, or a city the size of San Francisco.

### The Geysers' 15 Geothermal Power Plants span two Northern California counties, Lake and Sonoma:

- Calpine's 10 geothermal power plants in Sonoma County: Aidlin, Sonoma, McCabe, Ridge Line; Eagle Rock, Cobb Creek, Sulphur Springs, Lake View, Socrates, Grant
- Northern California Power Agency's 2 geothermal power plants in Sonoma County: Unit 1 & Unit 2
- Calpine's 3 geothermal power plants in Lake County: Calistoga, Big Geysers & Quicksilver

### Calpine Geothermal Operations:

- 28,447 Acres (44.5 square miles)
- 13 Geothermal Power Plants
- 80 Miles of Steam Pipelines
- 69 Miles of Injection Waterlines
- 70 Miles of 21kv Power Lines
- Over 167 Miles of Project Roads
- First Commercial Power Plant Online: September 1960
- Most Recent Geothermal Power Plant Built: Aidlin 1989

### Geothermal Wells:

- 235 Calpine Steam Wells
- 43 Calpine Injection Wells
- Deepest Well: 12,900 feet
- Average Well Depth: 8,500 feet
- Total Calpine Geysers Wells Drilled to Date: 594
- Today's Average Grassroots Drilling Time: 82 days  
(75 days drilling + 10 rig up/down)
- First Exploratory Well Drilled in 1920
- First Modern Well Drilled in 1955
- 2019 Average Steam Production Per Well: 33,151 Pounds per hour
- Flow Weighted Average Well Head Temperature = 371.8 °F
- Flow Weighted Average Well Head Pressure = 81.8 PSIG
- Most Recent Steam Well Drilled/Work Over: Prati 40 on March 11, 2020
- Most Recent Injection Well Drilled: Prati 15 on July 27, 2019

### The Geysers Recycled Water Injection Projects:

- Two Large Scale Projects Daily Average = 15.18 million gallons
  - Santa Rosa Geysers Recharge Project Average: 11.74 MGD
  - Calpine Southeast Geysers Effluent Pipeline Average: 3.44 MGD
  - Calpine + Northern California Power Agency Average: 6.57 MGD

### Calpine's Power Generation:

- 2019 Average Output: 594.6 Net Megawatts
- 2019 Generation: 5,208,321 Net Megawatts
- 2019 Average Unit Availability: 86.24%

### Visit The Geysers

- **Visit:** Calpine's Geothermal Visitors Center in Middletown, California  
Open Wednesdays through Saturday, 11:30 a.m. to 5 p.m.
- **Tours:** Schedule and Info at [www.geysers.com](http://www.geysers.com) or Call 707-987-4270



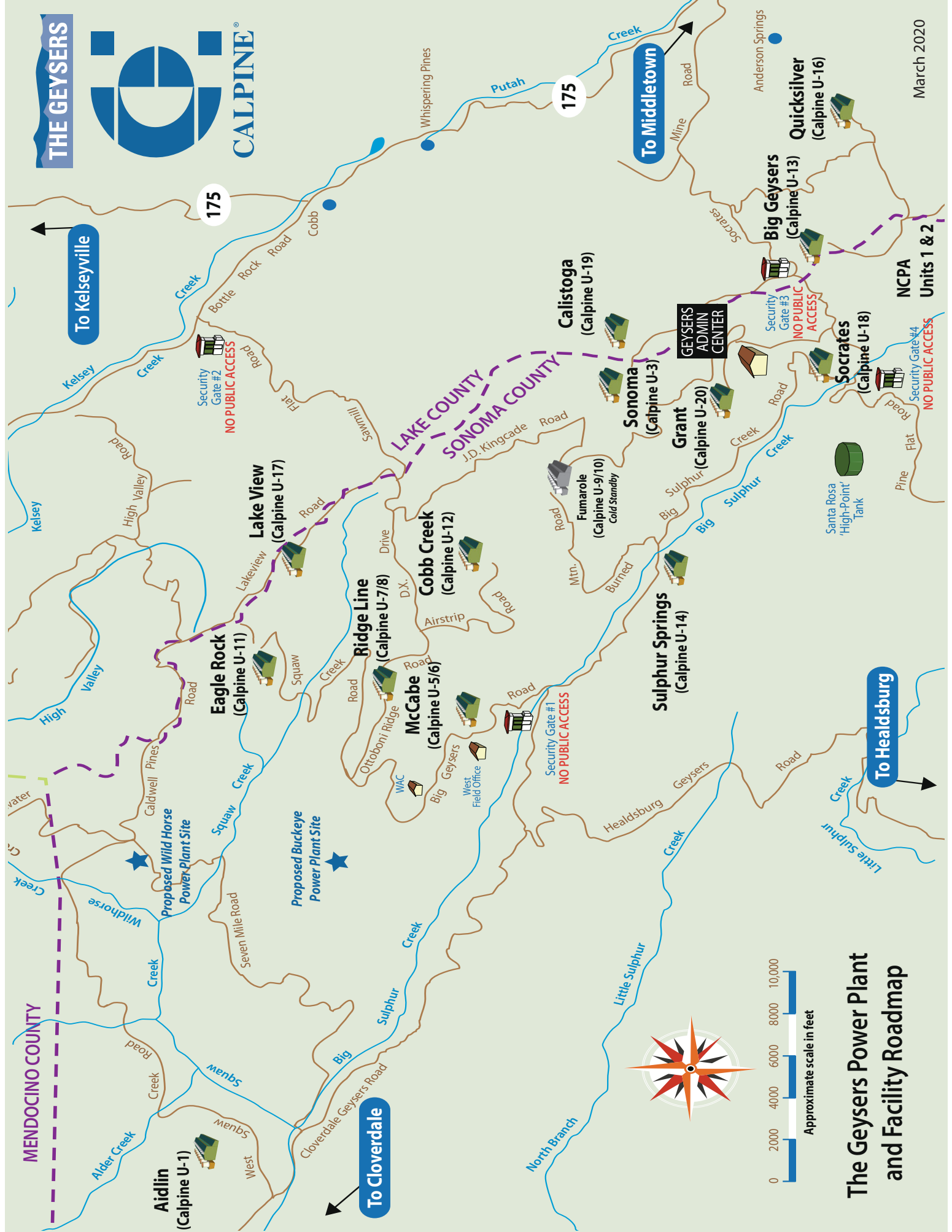
### About Calpine

Calpine Corporation is America's largest generator of electricity from natural gas and geothermal resources with operations in competitive power markets. Our fleet of 78 power plants in operation or under construction represents nearly 26,000 megawatts of generation capacity. Through wholesale power operations and our retail businesses, we serve customers in 23 states, Canada and Mexico. 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.



[www.calpine.com](http://www.calpine.com)  
[www.geysers.com](http://www.geysers.com)

March 2020



# The Geysers Power Plant and Facility Roadmap