

Sentinel Energy Center

NORTH PALM SPRINGS, CA



LOCATION:

15775 Melissa Lane
North Palm Springs, CA 92258

NOMINAL CAPACITY:

850 MW

TYPE:

Natural Gas, Simple-Cycle Peaker

COMMERCIAL OPERATION DATE:

2013

Overview

The Sentinel Energy Center is an 850-megawatt (MW) natural gas, simple-cycle electric peaking generating station located in the LA Basin area of California. It is the largest plant of its kind in the world with eight state-of-the-art General Electric (GE) LMS100 aeroderivative combustion turbines. Sentinel supports California's increasing emphasis on renewable energy by providing flexible capacity that can start and stop on demand in response to fluctuations in supply from intermittent renewable electricity sources such as wind and solar. Sentinel is also currently developing a Battery Energy Storage System (BESS) on the site with its excess interconnect capacity.

California's population growth continually increases the need for clean, efficient electricity generation facilities. The ability of Sentinel enables the reliable integration and expansion of intermittent renewable resources such as wind and solar facilities, by producing sufficient electricity to stabilize the grid and power the entire Coachella Valley.

Project Benefits

RELIABLE GENERATION:

Available to operate an average of 98 percent of the scheduled time over the past five years.

COMMUNITY:

Sentinel generates new local revenues, including \$25 million in sales tax, \$6 million in annual property taxes, and 17 permanent jobs. During the construction phase, over 700 direct and indirect jobs were created with a \$55 million payroll.

RENEWABLE ENERGY AND THE ENVIRONMENT:

Sentinel's on-demand power supports existing and future renewable generation resources by providing "backstop" power to the grid when the sun isn't shining or the wind isn't blowing.



CAISO RESOURCE ID:

SENTNL_2_C TG1 SENTNL_2_C TG5
SENTNL_2_C TG2 SENTNL_2_C TG6
SENTNL_2_C TG3 SENTNL_2_C TG7
SENTNL_2_C TG4 SENTNL_2_C TG8

PNODE:

TOT032G1_7_N001 TOT032G5_7_N001
TOT032G2_7_N001 TOT032G6_7_N001
TOT032G3_7_N001 TOT032G7_7_N001
TOT032G4_7_N001 TOT032G8_7_N001

NQC BY UNIT:

107.68 (UNIT 1) 107.52 (UNIT 5)
103.98 (UNIT 2) 105.00 (UNIT 6)
105.69 (UNIT 3) 106.73 (UNIT 7)
106.55 (UNIT 4) 106.85 (UNIT 8)

**MINIMUM QUALIFIED FLEXIBLE
CAPACITY CATEGORY:**

Flex 1

TAC AREA:

SCE

CAPACITY AREA:

LA Basin

RESOURCE CATEGORY, CPUC:

4, All Hours

Sentinel Energy Center is owned by Sentinel Energy Center LLC, which includes the affiliates of Diamond Generating LLC, Meridian Clean Energy and Voltage Finance LLC.

 **GAS INTERCONNECTION:**
SoCalGas

 **ELECTRIC INTERCONNECTION:**
SCE, Devers

 **OTHER:**
Local Generation
Local Employees

 **SITE:**
37 acres



Sentinel Energy Center
15775 Melissa Lane
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Tel: (760) 288-7900
Attn: Asset Manager or Plant Manager

