NREL
NATIONAL RENEWABLE ENERGY LABORATORY

Caution: Photovoltaic system performance predictions calculated by PVWatts® include many inherent assumptions and uncertainties and do not reflect variations between PV technologies nor site-specific characteristics except as represented by PVWatts® inputs. For example, PV modules with better performance are not differentiated within PVWatts® from lesser performing modules. Both NREL and private companies provide more sophisticated PV modeling tools (such as the System Advisor Model at https://sam.nrel.gov) that allow for more precise and complex modeling of PV systems.

The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

The energy output range is based on analysis of 30 years of historical weather data for nearby , and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

RESULTS

211,159,088 kWh/Year*

System output may range from 201,297,959 to 213,355,143 kWh per year near this location.

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)	Value ($)
January	4.94	11,791,114	1,592,980
February	5.82	12,663,077	1,710,782
March	7.71	18,282,754	2,470,000
April	9.34	20,616,706	2,785,317
May	10.75	23,477,548	3,171,817
June	11.35	23,889,754	3,227,506
July	10.22	22,347,876	3,019,198
August	9.69	20,706,960	2,797,510
September	8.56	17,877,022	2,415,186
October	7.09	16,206,565	2,189,507
November	5.47	12,550,953	1,695,634
December	4.40	10,748,762	1,452,158
Annual	7.95	211,159,091	$ 28,527,595

Location and Station Identification

Requested Location	jacumba hot springs, ca
Weather Data Source	Lat, Lon: 32.61, -116.18 1.0 mi
Latitude	32.61° N
Longitude	116.18° W

PV System Specifications *(Commercial)*

DC System Size	99000 kW
Module Type	Standard
Array Type	1-Axis Tracking
Array Tilt	0°
Array Azimuth	180°
System Losses	14.08%
Inverter Efficiency	96%
DC to AC Size Ratio	1.2
Ground Coverage Ratio	0.4

Economics

Average Retail Electricity Rate	0.135 $/kWh

Performance Metrics

Capacity Factor	24.3%