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 //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, 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

1,509,450 kWh/Year*

System output may range from 1,438,959 to 1,528,318 kWh per year near this location.

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)
January	5.28	113,135
February	5.50	105,292
March	6.41	131,913
April	6.41	126,313
May	6.54	130,517
June	7.27	138,728
July	6.97	135,260
August	7.19	138,593
September	7.20	137,027
October	6.61	133,362
November	5.37	108,224
December	5.11	111,086
Annual	**6.32**	**1,509,450**

Location and Station Identification

Requested Location	715 W. 4th Street, Beaumont, CA 92223
Weather Data Source	Lat, Lng: 33.93, -116.98 0.7 mi
Latitude	33.93° N
Longitude	116.98° W

PV System Specifications

DC System Size	870 kW
Module Type	Standard
Array Type	Fixed (open rack)
System Losses	14.08%
Array Tilt	33°
Array Azimuth	180°
DC to AC Size Ratio	1.2
Inverter Efficiency	96%
Ground Coverage Ratio	0.4
Albedo	*From weather file*
Bifacial	No (0)
Monthly Irradiance Loss	Jan 0% Feb 0% Mar 0% Apr 0% May 0% June 0% July 0% Aug 0% Sept 0% Oct 0% Nov 0% Dec 0%

Performance Metrics	
DC Capacity Factor	19.8%