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, 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

8,334 kWh/Year*

System output may range from 7,953 to 8,500 kWh per year near this location.

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)
January	3.55	532
February	4.00	546
March	5.04	744
April	5.79	818
May	6.14	873
June	6.13	818
July	5.65	774
August	5.59	763
September	5.35	721
October	4.82	688
November	3.99	574
December	3.22	482
Annual	4.94	8,333

Location and Station Identification

Requested Location	6801 Coventry St, New Orleans, LA 70126, USA
Weather Data Source	Lat, Lng: 30.05, -90.02 1.3 mi
Latitude	30.05° N
Longitude	90.02° W

PV System Specifications

DC System Size	6.12 kW
Module Type	Standard
Array Type	Fixed (open rack)
Array Tilt	20°
Array Azimuth	247°
System Losses	14.08%
Inverter Efficiency	96%
DC to AC Size Ratio	1.2

Performance Metrics

Capacity Factor	15.5%