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

5,188,967 kWh/Year*

System output may range from 4,951,831 to 5,292,227 kWh per year near this location.

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)	Value ($)
January	3.09	303,551	29,809
February	3.76	328,536	32,262
March	4.68	437,277	42,941
April	5.62	508,247	49,910
May	6.32	577,391	56,700
June	6.31	546,177	53,635
July	5.85	525,938	51,647
August	5.71	506,798	49,768
September	5.17	454,850	44,666
October	4.41	407,140	39,981
November	3.44	314,709	30,904
December	2.86	278,353	27,334
Annual	**4.77**	**5,188,967**	**$ 509,557**

Location and Station Identification

Requested Location	4818 Warrington Drive, New Orleans, LA, USA
Weather Data Source	Lat, Lon: 30.01, -90.06 0.6 mi
Latitude	30.01° N
Longitude	90.06° W

PV System Specifications *(Residential)*

DC System Size	3960 kW
Module Type	Standard
Array Type	Fixed (open rack)
Array Tilt	25°
Array Azimuth	90°
System Losses	14.08%
Inverter Efficiency	96%
DC to AC Size Ratio	1.2

Economics

Average Retail Electricity Rate	0.098 $/kWh

Performance Metrics

Capacity Factor	15.0%