



RESULTS

1,708,108 kWh/Year*

System output may range from 1,636,368 to 1,787,023 kWh per year near this location.

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.

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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.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)	Value (\$)
January	4.00	99,654	11,560
February	4.76	106,967	12,408
March	6.25	151,463	17,570
April	7.63	175,692	20,380
May	8.37	191,677	22,235
June	8.38	180,494	20,937
July	8.14	179,882	20,866
August	7.45	165,353	19,181
September	6.45	141,756	16,444
October	5.44	127,962	14,844
November	4.24	101,148	11,733
December	3.50	86,059	9,983
Annual	6.22	1,708,107	\$ 198,141

Location and Station Identification

Requested Location	Waynesboro, GA
Weather Data Source	Lat, Lon: 33.09, -82.02 0.2 mi
Latitude	33.09° N
Longitude	82.02° W

PV System Specifications (Residential)

DC System Size	1000 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	0.116 \$/kWh
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Performance Metrics

Capacity Factor	19.5%
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