



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.

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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

2,389,311 kWh/Year*

System output may range from 2,227,793 to 2,490,140 kWh per year near this location.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)
January	5.17	157,526
February	6.52	181,601
March	8.00	225,831
April	7.10	208,804
May	8.49	250,779
June	8.14	230,447
July	8.79	254,370
August	8.48	244,735
September	7.23	204,653
October	5.54	168,402
November	4.45	135,796
December	4.02	126,368
Annual	6.83	2,389,312

Location and Station Identification

Requested Location	60 shaw dr rochester nh
Weather Data Source	Lat, Lng: 43.29, -70.94 0.7 mi
Latitude	43.29° N
Longitude	70.94° W

PV System Specifications

DC System Size	1281 kW
Module Type	Standard
Array Type	2-Axis Tracking
System Losses	14.08%
Array Tilt	0°
Array Azimuth	180°
DC to AC Size Ratio	1.281
Inverter Efficiency	96%
Ground Coverage Ratio	0.4
Albedo	From weather file
Bifacial	Yes (0.7)

Monthly Irradiance Loss	Jan	Feb	Mar	Apr	May	June
	0%	0%	0%	0%	0%	0%
Monthly Irradiance Loss	July	Aug	Sept	Oct	Nov	Dec
	0%	0%	0%	0%	0%	0%

Performance Metrics

DC Capacity Factor	21.3%
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