



RESULTS

3,867 kWh/Year*

System output may range from 3,691 to 3,998 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	1.70	147	15
February	2.50	195	20
March	3.41	293	30
April	4.98	406	42
May	5.15	433	45
June	5.94	471	49
July	6.13	495	51
August	6.07	492	51
September	4.74	379	39
October	2.87	242	25
November	2.00	168	17
December	1.66	145	15
Annual	3.93	3,866	\$ 399

Location and Station Identification

Requested Location	4609 89th Ave SE Mercer Island, WA 98040
Weather Data Source	Lat, Lon: 47.57, -122.22 0.5 mi
Latitude	47.57° N
Longitude	122.22° W

PV System Specifications (Residential)

DC System Size	5.2 kW
Module Type	Premium
Array Type	Fixed (open rack)
Array Tilt	30°
Array Azimuth	180°
System Losses	43.31%
Inverter Efficiency	98%
DC to AC Size Ratio	1.23

Economics

Average Retail Electricity Rate	0.104 \$/kWh
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Performance Metrics

Capacity Factor	8.5%
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