



# RESULTS

# 5,241 kWh/Year\*

System output may range from 5,001 to 5,418 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 //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.

Month	Solar Radiation ( kWh / m <sup>2</sup> / day )	AC Energy ( kWh )
January	1.07	139
February	1.83	223
March	2.80	376
April	4.48	569
May	5.05	657
June	5.71	697
July	6.18	773
August	5.58	705
September	4.06	503
October	2.30	304
November	1.28	163
December	1.02	132
<b>Annual</b>	<b>3.45</b>	<b>5,241</b>

## Location and Station Identification

Requested Location	6520 82nd Ave SE, Mercer Island, WA 98040
Weather Data Source	Lat, Lng: 47.53, -122.22 1.1 mi
Latitude	47.53° N
Longitude	122.22° W

## PV System Specifications

DC System Size	5.46 kW
Module Type	Standard
Array Type	Fixed (open rack)
System Losses	14.08%
Array Tilt	4°
Array Azimuth	180°
DC to AC Size Ratio	1.2
Inverter Efficiency	96%
Ground Coverage Ratio	0.4
Albedo	From weather file
Bifacial	No (0)

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

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**Performance Metrics**

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DC Capacity Factor	11.0%
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