

MN472

7119 80TH AVE SE

MERCER ISLAND, WA 98040

SOLAR ACCESS

7119 80th Ave SE, Mercer Island, WA 98040, USA
GO

✓ Analysis complete. Your roof has:

1,032 hours of usable sunlight per year
Based on day-to-day analysis of weather patterns

1,903 sq feet available for solar panels
Based on 3D modeling of your roof and nearby trees



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

3796 Exceeds 3600 kWh/Year for 3 Credits

3,796 kWh/Year*

System output may range from 3,623 to 3,924 kWh per year near this location.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)
January	1.02	101
February	1.80	165
March	2.63	266
April	4.36	416
May	4.95	487
June	5.50	510
July	6.16	581
August	5.55	529
September	3.85	361
October	2.02	200
November	1.04	101
December	0.81	79
Annual	3.31	3,796

Location and Station Identification

Requested Location	Mercer Island
Weather Data Source	Lat, Lng: 47.57, -122.22 0.7 mi
Latitude	47.57° N
Longitude	122.22° W

PV System Specifications

DC System Size	4 kW																								
Module Type	Standard																								
Array Type	Fixed (roof mount)																								
System Losses	11.42%																								
Array Tilt	20°																								
Array Azimuth	270°																								
DC to AC Size Ratio	1.2																								
Inverter Efficiency	97%																								
Ground Coverage Ratio	0.4																								
Albedo	From weather file																								
Bifacial	No (0)																								
Monthly Irradiance Loss	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Jan</td><td>Feb</td><td>Mar</td><td>Apr</td><td>May</td><td>June</td> </tr> <tr> <td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td> </tr> <tr> <td>July</td><td>Aug</td><td>Sept</td><td>Oct</td><td>Nov</td><td>Dec</td> </tr> <tr> <td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td><td>0%</td> </tr> </table>	Jan	Feb	Mar	Apr	May	June	0%	0%	0%	0%	0%	0%	July	Aug	Sept	Oct	Nov	Dec	0%	0%	0%	0%	0%	0%
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