



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 <http://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.

RESULTS

98,599 kWh/Year*

System output may range from 94,586 to 102,868kWh per year near this location.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)	Energy Value (\$)
January	2.26	4,409	376
February	3.96	6,919	589
March	4.38	8,234	702
April	5.28	9,073	773
May	5.88	10,624	905
June	6.27	10,573	901
July	6.73	11,367	969
August	6.48	10,925	931
September	5.43	8,867	755
October	4.18	7,552	643
November	2.70	5,106	435
December	2.57	4,949	422
Annual	4.68	98,598	\$ 8,401

Location and Station Identification

Requested Location	moscow, id
Weather Data Source	(TMY3) PULLMAN/MOSCOW RGNL, WA 5.7 mi
Latitude	46.75° N
Longitude	117.12° W

PV System Specifications (Commercial)

DC System Size	73.5 kW
Module Type	Standard
Array Type	Fixed (open rack)
Array Tilt	46.7°
Array Azimuth	180°
System Losses	14%
Inverter Efficiency	96%
DC to AC Size Ratio	1.1

Economics

Average Cost of Electricity Purchased from Utility	0.09 \$/kWh
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Performance Metrics

Capacity Factor	15.3%
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