

System output may range from 24,093 to 25,600kWh 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 <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.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)	Energy Value (\$)
January	2.27	1,291	199
February	3.20	1,648	253
March	3.87	2,149	331
April	4.96	2,585	398
May	5.89	2,992	460
June	5.88	2,823	434
July	6.14	2,981	458
August	5.51	2,725	419
September	4.56	2,241	345
October	3.34	1,743	268
November	1.97	1,051	162
December	1.71	973	150
Annual	4.11	25,202	\$ 3,877

Location and Station Identification

Requested Location	stone ridge ny
Weather Data Source	(TMY2) ALBANY, NY 65 mi
Latitude	42.75° N
Longitude	73.8° W

PV System Specifications (Residential)

DC System Size	22.11 kW
Module Type	Standard
Array Type	Fixed (roof mount)
Array Tilt	18.43°
Array Azimuth	225°
System Losses	18%
Inverter Efficiency	96%
DC to AC Size Ratio	1.1

Economics

Average Cost of Electricity Purchased from Utility	0.15 \$/kWh
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Performance Metrics

Capacity Factor	13.0%
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