

**Sizing a solar system for a home is complex.** It requires accurate answers to the following questions:

What has been your average electrical consumption for the past 12 months?

> Do you have **sufficient area exposed to the sun** to provide a 100% offset?

> What is the **typical amount of sunshine** you get at your location?

<b>RESULTS</b>		10.000		Location and Station Identification	
NEODE IO	<b>15,853</b> kWh/Year*		Requested Location	126 Harvey Road easley SC	
		ge from 15,246 to 16,343 kWh pe		Weather Data Source	Lat, Lon: 34.81, -82.5 0.6 n
Month	Solar Radiation (kWh/m <sup>2</sup> /day)	AC Energy (kWh)	Value (\$)	Latitude	34.81° N 82.5° W
January	(xum/m=/day) 4.24	1,118	134	Longitude	
February	4.69	1,110	133	PV System Specifications	
March	5.31	1,356	163	DC System Size	10.5 KW
April	6.02	1,460	175	Module Type	Premium
May	6.33	1,571	188	Array Type Array Tilt	Fixed (roof moun 26*
June	6.46	1,507	181	Array Azimuth	26
July	6.15	1,481	178	System Losses	12%
August	6.13	1,470	176	Inverter Efficiency	96%
September	5.74	1,358	163	DC to AC Size Ratio	1.2
October	5.34	1,315	158	Economics	
November	4.47	1,105	133		a 0.120 \$/kWh
December	3.78	1,002	120	Average Retail Electricity Rate	e 0.120 \$xkWh
Annual	5.39	15,853	\$ 1,902	Performance Metrics Capacity Factor	17.2%

The weather affects the level of solar generation possible. Sunny days generate more energy than cloudy days.

**PV Watts** is a government website that allows consumers to determine the amount of solar energy they can expect to be generated at their location based upon the last 30 years of weather data.

We use PV Watts as an aid in sizing your system.

U.S. Energy Solutions, 3146 Wade Hampton Blvd, Taylors, SC 29687 • 864-729-4707 • WhyGreenEnergy.com



## **PV Watts Calculator**

## **RESULTS**

## 15,853 kWh/Year\*

System output may range from 15,246 to 16,343 kWh per year near this location.

Month	Solar Radiation (kWh/m <sup>2</sup> /day)	AC Energy (kWh)	Value (\$)
January	4.24	1,118	134
February	4.69	1,110	133
March	5.31	1,356	163
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Annual	5.39	15,853	\$ 1,902

## **Location and Station Identification Requested Location** 126 Harvey Road easley SC Weather Data Source Lat, Lon: 34.81, -82.5 0.6 mi Latitude 34.81° N 82.5° W Longitude PV System Specifications (Residential) DC System Size 10.5 kW Module Type Premium Fired (as a Arrow Tuno

Array Type	Fixed (roof mount)	
Array Tilt	26°	
Array Azimuth	180°	
System Losses	12%	
Inverter Efficiency	96%	
DC to AC Size Ratio	1.2	
Economics		
Average Retail Electricity Rate	0.120 \$/kWh	
Performance Metrics		
Capacity Factor	17.2%	

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