



# NREL PVWatts<sup>®</sup> Calculator

Introduction to the PVWatts  
Calculator - replaced legacy  
Versions 1 and 2 in 2015



# Disclaimer

- **Disclaimer of Endorsement**

- Reference herein to any specific commercial products, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the New Jersey Board of Public Utilities (NJBPU), Office of Clean Energy (NJOCE), or Clean Energy Program™ (NJCEP). The views and opinions of authors expressed in the available or referenced documents do not necessarily state or reflect those of the NJBPU, NJOCE, or NJCEP.



# NJCEP Requirements

## Mandatory

- **“Ideal”** PVWatts
  - DC System Size (kW)
- **“As Built”** PVWatts (*Per Array Plane*)
  - DC System Size (kW)
  - Array Type (*fixed, 1-axis, 2-axis, etc.*)
  - System Losses % (*DC-to-AC Derate Factor*)
  - Tilt (°)
  - Azimuth (°)
  - Inverter Efficiency (%)
- **“As Built”** Loss Calc. (*derate calculator*)
  - (*PV Module*) Nameplate (*DC*) rating (%)
  - Shading (%) [*not “Solar Access”* %]

## Optional

- “Ideal” PVWatts
  - “Draw Your System”
- “As Built” PVWatts
  - “Draw your System”
- **Do not alter any further values or options when submitting to the NJCEP.**



# NJCEP Requirements

- The guidelines have changed regarding hard-copy submittal of PVWatts and Shading Report. Hard copies are not required to be submitted with the final As-Built packet. ***BUT...***
- The NJCEP reserves the right to request a complete copy of production estimates, a full shade analysis, or any relevant documentation from the installer at any time.



# NREL Hyperlinks

- **Current NREL Versions accepted by NJCEP**
  - NREL PVWatts Calculator
    - <http://pvwatts.nrel.gov/> (*standard interface-click this link to follow slides*)
  - NREL System Advisor Model (SAM)
    - <https://sam.nrel.gov/> (*advanced design interface*)
- **Legacy Calculators**
  - PVWatts Version 1 (*RETIRED 2015*)
    - ~~<http://rredc.nrel.gov/solar/calculators/PVWATTS/version1/>~~
  - PVWatts Version 2 (*RETIRED 2015*)
    - ~~[http://gisatnrel.nrel.gov/PVWatts\\_Viewer/index.html](http://gisatnrel.nrel.gov/PVWatts_Viewer/index.html)~~



# PVWatts Calculator Release

## PVWatts Release

NREL released a new version of PVWatts® in September 2014 which changes the results significantly to more accurately reflect PV performance outputs from current systems. Note that the results will typically increase 7 to 10 percent. This version updates the default derate/loss values, uses a modern inverter curve and adds several options. You can read more about this update [here](#). The old versions PVWatts V1 and PVWatts V2 have been retired.

Please click on the “Feedback” button below to provide feedback to us.

Please do not show this dialog on startup

FEEDBACK

CLOSE

NREL released a new version of PVWatts® in September 2014 which changes the results significantly to more accurately reflect PV performance outputs from current systems. Note that the results will typically increase 7 to 10 percent. This version updates the default derate/loss values, uses a modern inverter curve and adds several options. You can read more about this update [here](#). The old versions PVWatts V1 and PVWatts V2 have been retired.

Please click on the “Feedback” button below to provide feedback to us.

Please do not show this dialog on startup

FEEDBACK

CLOSE

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PVWatts® is a registered trademark by Alliance for Sustainable Energy, LLC in Golden, CO, 80401.

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The newest revised version of PVWatts uses updated values. More information on value changes ([http://pvwatts.nrel.gov/version\\_5.php](http://pvwatts.nrel.gov/version_5.php)). (click “Close” to continue on the site)



# NREL's PVWatts Calculator

**PVWatts® Calculator**

Get Started:  **GO >>**

Release Notice (?) HELP FEEDBACK ALL NREL SOLAR TOOLS

## NREL's PVWatts® Calculator

Estimates the energy production and cost of energy of grid-connected photovoltaic (PV) energy systems throughout the world. It allows homeowners, small building owners, installers and manufacturers to easily develop estimates of the performance of potential PV installations.

What's New

Follow @PVWatts

333

NREL is a national laboratory of the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, operated by the Alliance for Sustainable Energy, LLC.

PVWatts® is a registered trademark by Alliance for Sustainable Energy, LLC in Golden, CO, 80401.

To begin, enter the address of the job site, then click on “**GO >>**”.



# NREL's PVWatts Calculator

**PVWatts® Calculator**

My Location: 75 Lincoln Highway, Iselin, NJ 08830  
» Change Location

Release Notice (?) HELP FEEDBACK ALL NREL SOLAR TOOLS

RESOURCE DATA SYSTEM INFO RESULTS

## SOLAR RESOURCE DATA

The recommended weather data source is initially listed below. This is usually a good choice for your location, but you can optionally change the weather data using the map below.

Selected weather data for your location: (TMY2) NEWARK, NJ 14 mi

### Optionally, Select Different Weather Data

Currently, PVWatts® defaults to the closest TMY2 weather file (or international file). This will be the standard for the foreseeable future. We also offer the TMY3 locations and a 10 km gridded data set from SolarAnywhere®. We will not be including the older 40 km gridded data from PVWatts Version 2 as the other datasets are superior. The selected weather source pin is wrapped with a blue background. Click a different pin to select that source. If you enable SolarAnywhere® data for the continental US, then **double-click** anywhere on the map to select that grid cell (it must be enabled for each location). Refer to [Help](#) for more detailed information.

Enable SolarAnywhere® Gridded Data

Go to system info

Confirm that the default weather station is optimal for the site address. Select **“Go To system info”** to continue.





# “Ideal” PVWatts Calculator

**PVWatts® Calculator** **NREL**  
NATIONAL RENEWABLE ENERGY LABORATORY

My Location: 75 Lincoln Highway, Iselin, NJ 08830 Release Notice (?) HELP FEEDBACK

ALL NREL SOLAR TOOLS

RESOURCE DATA   **SYSTEM INFO**   RESULTS

## SYSTEM INFO

Modify the inputs below to run the simulation.

**DC System Size (kW):**  i

**Module Type:** Standard i

**Array Type:** Fixed (open rack) i

**System Losses (%):** 14 i

**Tilt (deg):** 20 i

**Azimuth (deg):** 180 i

**Draw Your System**  
Click below to customize your system on a map. (optional)

Go to PVWatts® results

Loss Calculator

For “Ideal” PVWatts, only change “DC System Size (kW)”. All other values remain default. System Losses (%) remains “14”. Click on **“Loss Calc.”** to view.



# “Ideal” Derate Calculator

**Calculate System Losses Breakdown**

Modify the parameters below to change the overall System Losses percentage for your system.

Soiling (%):	<input type="text" value="2"/>	<input type="button" value="i"/>
Shading (%):	<input type="text" value="3"/>	<input type="button" value="i"/>
Snow (%):	<input type="text" value="0"/>	<input type="button" value="i"/>
Mismatch (%):	<input type="text" value="2"/>	<input type="button" value="i"/>
Wiring (%):	<input type="text" value="2"/>	<input type="button" value="i"/>
Connections (%):	<input type="text" value="0.5"/>	<input type="button" value="i"/>
Light-Induced Degradation (%):	<input type="text" value="1.5"/>	<input type="button" value="i"/>
Nameplate Rating (%):	<input type="text" value="1"/>	<input type="button" value="i"/>
Age (%):	<input type="text" value="0"/>	<input type="button" value="i"/>
Availability (%):	<input type="text" value="3"/>	<input type="button" value="i"/>

Estimated System Losses:  
**14 %**

For “*Ideal*” PVWatts, no values should be altered. The “**Estimated DC to AC Factor**” should remain “14%.” Screen capture of the “Ideal Derate Calculator” is not required. Click “**Cancel**” to return to previous page without changes.



# “Ideal” PVWatts Calculator

**PVWatts® Calculator** NREL  
NATIONAL RENEWABLE ENERGY LABORATORY

My Location: 75 Lincoln Highway, Iselin, NJ 08830 Release Notice (?) HELP FEEDBACK

ALL NREL SOLAR TOOLS

RESOURCE DATA **SYSTEM INFO** RESULTS

## SYSTEM INFO

Modify the inputs below to run the simulation.

**DC System Size (kW):**  ⓘ

**Module Type:** Standard ⓘ

**Array Type:** Fixed (open rack) ⓘ

**System Losses (%):** 14 ⓘ Loss Calculator

**Tilt (deg):** 20 ⓘ

**Azimuth (deg):** 180 ⓘ

RESTORE DEFAULTS

**Draw Your System**  
Click below to customize your system on a map. (optional)

Go to resource data Go to PVWatts® results

Verify only the “**DC System Size (kW)**” changed. Then click “**Go to PVWatts results**” to generate “Ideal” summary.



# “Ideal” PVWatts Calculator

**PVWatts® Calculator**

My Location: 75 Lincoln Highway, Iselin, NJ 08830 Release Notice (?) HELP FEEDBACK

ALL NREL SOLAR TOOLS

RESOURCE DATA SYSTEM INFO RESULTS

**RESULTS** **5,100 kWh per Year \***

Print Results

Month	Solar Radiation ( kWh / m <sup>2</sup> / day )	AC Energy ( kWh )	Energy Value ( \$ )
January	2.78	301	45
February	3.52	341	51
March	4.34	453	67
April	4.95	483	72
May	5.69	557	83
June	5.86	541	80
July	5.73	540	80
August	5.47	511	76
September	4.91	457	68
October	3.99	397	59
November	2.68	269	40
December	2.35	251	37
<b>Annual</b>	<b>4.36</b>	<b>5,101</b>	<b>\$ 758</b>

The results page displays the “*Ideal* Estimated Annual Production” required on the NJCEP Final As Built Technical Worksheet, **Page 2, Section D, 2b**.



# Roof Azimuth



Capture the Azimuth measurement either on-site or by utilizing an available online measurement tool. For this example, we will use orientation **228.1°**.

(Example screen capture from Solmetric.com, Roof Azimuth Tool)



# “As Built” PVWatts Calculator

RESOURCE DATA SYSTEM INFO RESULTS

## SYSTEM INFO

Modify the inputs below to run the simulation.

RESTORE DEFAULTS

Go to resource data

DC System Size (kW): 4

Module Type: Premium

Array Type: Fixed (roof mount)

System Losses (%): 25.20

Tilt (deg): 10

Azimuth (deg): 228.1

Draw Your System

Click below to customize your system on a map. (optional)

Go to PVWatts® results

Loss Calculator

Advanced Parameters

DC to AC Size Ratio: 1.1

Inverter Efficiency (%): 97.5

Ground Coverage Ratio: 0.4

- For “**As Built**” PVWatts, change all system information, *as permissible within NJCEP*. Input “**Inverter Efficiency (%)**”, based upon manufacturer-specification.
- Update Derate Factor to reflect equipment and shading using the “**Loss Calculator**”. Click on “**Loss Calculator**” to view.



# “As Built” Derate Calculator

**Calculate System Losses Breakdown**

Modify the parameters below to change the overall System Losses percentage for your system.

Soiling (%):	2	i
<b>Shading (%):</b>	<b>12</b>	i
Snow (%):	0	i
Mismatch (%):	2	i
Wiring (%):	2	i
Connections (%):	0.5	i
Light-Induced Degradation (%):	1.5	i
<b>Nameplate Rating (%):</b>	<b>5</b>	i
Age (%):	0	i
Availability (%):	3	i

Estimated System Losses:  
**25.20%**

HELP RESET CANCEL **SAVE**

- “**As Built**” PVWatts, only change “(PV Module) **Nameplate Rating (%)**” [*i.e.*, *power tolerance factor*], and **Shading (%)** [*not Solar Access %*].
- **Save a Screen Capture** of the “As Built Derate Calculator”.
- Click “**Save**” to apply the updated “Derate Factor”/System Losses.



# “Draw Your System” (Optional)

**Customize Your System To Your Roof**

On the map below, click the corners of the desired system.

Module Efficiency:  System Size: 77.3

RESET CANCEL SAVE

**Draw Your System**

Click below to customize your system on a map. (optional)

You may optionally “Draw Your System” using the corresponding button, but this feature does not print out with the summary report. **Not NJCEP-required.**





# “As Built” PVWatts Calculator

**PVWatts® Calculator** NREL NATIONAL RENEWABLE ENERGY LABORATORY

My Location: 75 Lincoln Highway, Iselin, NJ 08830 Release Notice (?) HELP FEEDBACK ALL NREL SOLAR TOOLS

RESOURCE DATA **SYSTEM INFO** RESULTS

## SYSTEM INFO

Modify the inputs below to run the simulation.


RESTORE DEFAULTS

Go to resource data Go to PVWatts® results

DC System Size (kW):	<input type="text" value="4"/>	<a href="#">i</a>
Module Type:	<input type="text" value="Premium"/>	<a href="#">i</a>
Array Type:	<input type="text" value="Fixed (roof mount)"/>	<a href="#">i</a>
System Losses (%):	<input type="text" value="25.20"/>	<a href="#">i</a> <a href="#">Loss Calculator</a>
Tilt (deg):	<input type="text" value="10"/>	<a href="#">i</a>
Azimuth (deg):	<input type="text" value="228.1"/>	<a href="#">i</a>

Draw Your System

Click below to customize your system on a map. (optional)




Advanced Parameters

DC to AC Size Ratio:	<input type="text" value="1.1"/>	<a href="#">i</a>
Inverter Efficiency (%):	<input type="text" value="97.5"/>	<a href="#">i</a>
Ground Coverage Ratio:	<input type="text" value="0.4"/>	<a href="#">i</a>

Verify the “**System Info**” is all correct. Confirm that the “System Losses (%)” represents the final value from the Loss Calculator. Scroll down the screen.






# “As Built” PVWatts Calculator



Go to resource data


### INITIAL ECONOMICS (Optional)

Modify the inputs below to provide an initial rough estimate of the cost of energy produced by the system. Note that complex utility rates and third-party financing can significantly change these values

System Type:	Residential	
Avg. Utility Electricity Price (¢/kWh):	0.13	
Initial Cost (\$/Wdc):	3.70	

### Available Incentives

The list below shows the available PV system incentives for the location filtered for the selected size and type. Select or unselect each incentive by clicking on them. Recent changes might not yet be captured and the data is collected by the DSIRE Team at <http://www.dsireusa.org>




**Capacity Based Incentives (CBI)**


- New Jersey Renewable Energy Incentive Program  
Rate: \$0.75 - Maximum Amount: \$5,625.00

**Investment Tax Credit (ITC)**

- Residential Renewable Energy Tax Credit  
Percent of Cost: 30%



Go to pvwatts results



Scrolling down further on the page will reveal information that is not required to be selected or altered. Not required by the NJCEP. Finally, click “**Go to pvwatts results**” to generate “**As Built**” PVWatts summary.



# PVWatts Summary Page



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.

Disclaimer: The PVWatts® Model ("Model") is provided by the National Renewable Energy Laboratory ("NREL"), which is operated by the Alliance for Sustainable Energy, LLC ("Alliance") for the U.S. Department of Energy ("DOE") and may be used for any purpose whatsoever.

The named DOWNGRADE shall not be used in any representation, advertising, publicity or other manner whatsoever to endorse or provide any entity that adopts or uses the Model. DOWNGRADE shall not provide

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## RESULTS

# 4,159 kWh per Year \*

Month	Solar Radiation (kWh / m <sup>2</sup> / day)	AC Energy (kWh)	Energy Value (\$)
January	2.26	209	31
February	3.01	250	37
March	3.94	358	53
April	4.74	407	61
May	5.64	489	73
June	5.89	484	72
July	5.74	484	72
August	5.30	444	66
September	4.52	374	56
October	3.45	301	45
November	2.19	189	28
December	1.88	170	25
<b>Annual</b>	<b>4.05</b>	<b>4,159</b>	<b>\$ 619</b>

### Location and Station Identification

Requested Location	75 Lincoln Highway, Iselin, NJ 08830
Weather Data Source	(TMY2) NEWARK, NJ 14 mi
Latitude	40.7° N
Longitude	74.17° W

### PV System Specifications (Residential)

DC System Size	4 kW
Module Type	Premium
Array Type	Fixed (roof mount)
Array Tilt	10°
Array Azimuth	228.1°
System Losses	25.20%
Inverter Efficiency	97.5%
DC to AC Size Ratio	1.1

(Example of the "As-Built" PVWatts Results Page)



# “As Built” PVWatts Summary

**RESULTS** **4,159 kWh per Year \***

Print Results

Go to system info

Month	Solar Radiation ( kWh / m <sup>2</sup> / day )	AC Energy ( kWh )	Energy Value ( \$ )
January	2.26	209	31
February	3.01	250	37
March	3.94	358	53
April	4.74	407	61
May	5.64	489	73
June	5.89	484	72
July	5.74	484	72
August	5.30	444	66
September	4.52	374	56
October	3.45	301	45
November	2.19	189	28
December	1.88	170	25
<b>Annual</b>	<b>4.05</b>	<b>4,159</b>	<b>\$ 619</b>

User Comments

Optionally, add comments to include in the print out.

Download Results: [Monthly](#) | [Hourly](#) [Find A Local Installer](#)

The results page displays the “**As-Built** Estimated Annual Production” required on the NJCEP Final As Built Technical Worksheet, **Page 3, Section D, 2a**.



# “As Built” PVWatts Summary

**RESULTS** **68,778 kWh per Year**

[Print Results](#)

Go to system info

			Energy Value (\$)
January			442.34
February			550.05
March			782.73
April			885.67
May			1,061.32
June			1,039.56
July			1,033.63
August			945.50
September	4.52	6,191	804.77
October	3.45	4,942	642.43
November	2.19	3,069	398.97
December	1.88	2,724	354.18
<b>Annual</b>	<b>4.05</b>	<b>68,778</b>	<b>\$ 8,941</b>

Download Results **Monthly** Hourly [Find A Local Installer](#)

File Download

Do you want to open or save this file?

Name: pvwatts\_monthly.csv  
Type: Microsoft Excel Comma Separated Values File, 7...  
From: pvwattsbeta.nrel.gov

Open Save Cancel

While files from the Internet can be useful, some files can potentially harm your computer. If you do not trust the source, do not open or save this file. [What's the risk?](#)

For a “Monthly” or “Hourly” report, click on the coordinating button to save/print.



# “As Built” PVWatts Summary

PVWatts: Monthly PV Performance Data						
Requested Location: 75 Lincoln Highway, Iselin, NJ 08830						
Location:	NEWARK, NJ					
Lat (deg N):	40.7					
Long (deg W):	74.17					
Elev (m):	9					
DC System Size (kW):	4					
Module Type:	Premium					
Array Type:	Fixed (roof mount)					
Array Tilt (deg):	10					
Array Azimuth (deg):	228.1					
System Losses:	25.2					
Invert Efficiency:	97.5					
DC to AC Size Ratio:	1.1					
Average Cost of Elect	0.15					
Initial Cost	3.3					
Cost of Electricity Ge	0.26					
Month	AC System Output(kV	Solar Radiation (kWh	Plane of Array Irradia	DC array Output (kW	Value (\$)	
1	208.5287476	2.26105666	70.09275818	217.113266	31.03	
2	250.27742	3.00999665	84.27990723	259.4143982	37.24	
3	357.5105896	3.93590069	122.0129242	369.4858093	53.2	
4	406.8931885	4.74304867	142.2914581	420.4057617	60.55	
5	489.4229736	5.64286804	174.9289093	504.6875916	72.83	
6	484.1106873	5.88504219	176.5512695	499.7634583	72.04	
7	484.0104065	5.73821592	177.8846893	499.4909668	72.02	
8	444.1933289	5.29734945	164.2178345	458.3167114	66.1	
9	373.9916992	4.51975107	135.5925293	386.2345276	55.65	
10	300.553833	3.44738007	106.868782	311.1755981	44.72	
11	189.0877228	2.19017267	65.70517731	197.4369354	28.14	
12	170.1273346	1.87966979	58.26976395	178.2002106	25.31	
Total	4158.707932	48.55045187	1478.696003	4301.725235	618.83	

The “Monthly” or “Hourly” report can be saved/printed from the generated spreadsheet, which may be used in advanced design planning. **Not NJCEP-Required.**



# “As Built” PVWatts Summary

Location	
Requested Location	75 Lincoln Highway, Iselin, NJ 08830
Weather Data Source	(TMY2) NEWARK, NJ 14 mi
Latitude	40.7° N
Longitude	74.17° W
PV System Specifications (Residential)	
DC System Size	4 kW
Module Type	Premium
Array Type	Fixed (roof mount)
Array Tilt	10°
Array Azimuth	228.1°
System Losses	25.20%
Inverter Efficiency	97.5%
DC to AC Size Ratio	1.1
Initial Economic Comparison	
Average Cost of Electricity Purchased from Utility	0.15 \$/kWh
Initial Cost	3.30 \$/Wdc
Cost of Electricity Generated by System	0.26 \$/kWh

Verify all information was entered properly and measurements are accurate. Save a copy of the “**As-Built**” and “**Ideal**” PVWatts summary pages for your records.



# PVWatts Feedback

The screenshot shows the 'PVWatts Documentation' website. On the left is a navigation menu with the following items: GET STARTED, SOLAR RESOURCE DATA, SYSTEM INFO, ECONOMICS AND INCENTIVES, RESULTS, TECHNICAL REFERENCE, FOR DEVELOPERS, ABOUT, LEGAL DISCLAIMER, and FEEDBACK. A red-bordered modal window titled 'Feedback' is open, containing the text: 'If you would like to offer suggestions or feedback please email us at [PVWatts@nrel.gov](mailto:PVWatts@nrel.gov).' A red arrow points from the 'FEEDBACK' link in the menu to the modal. A 'CLOSE' button is located in the bottom right corner of the modal.

For feedback regarding the PVWatts Calculator, email comments to [PVWatts@nrel.gov](mailto:PVWatts@nrel.gov).





# Questions?

For questions pertaining to the NJCEP requirements within Final As Built Completion Packets, please refer to the following:

- SREC Registration Program Guidebook  
[http://www.njcleanenergy.com/files/file/Renewable\\_Programs/RE%20Forms/2012/SRP\\_Guidebook\\_2012\\_Ch8revrr\\_6\\_26\\_12.pdf](http://www.njcleanenergy.com/files/file/Renewable_Programs/RE%20Forms/2012/SRP_Guidebook_2012_Ch8revrr_6_26_12.pdf)
- SREC Registration Program Checklist
  - [Solar SRP Final As-Built Forms \(updated Jan 2015\) - .xlsx version \(Excel 2010\)](#)
  - [Solar SRP Final As-Built Forms \(updated Jan 2015\) - .xls version \(Excel 2003-2007\)](#)
    - Note: Microsoft provides an [Office Compatibility Pack](#) for those users that are still using the [earlier version of Excel \(.xls\)](#).
- call: **866-NJSMART (866-657-6278)**