



# How many watts of solar power does Tbilisi generate





## Overview

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Tbilisi, K'alak'i T'bilisi, Georgia (latitude: 41.6959, longitude: 44.832) is a suitable location for solar PV installations due to the varying average daily energy production per kW of installed solar capacity across different seasons - 6.71 kWh/day in Summer, 3.19 kWh/day in.

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Optimize your solar installation with PVGIS, the leading photovoltaic calculator! Do you want to estimate the solar electricity production of your solar panels before investing in a photovoltaic system?

PVGIS provides you with a detailed and precise simulation of your solar yield, regardless of.

Figure 1.1 Tbilisi average monthly percentage of solar and wind energy // heating degree and cooling degree days. Figure 1.2 Tbilisi daily solar energy plot. Figure 1.3 Tbilisi daily heating degree days plot. Figure 1.4 Tbilisi daily cooling degree days plot. Acknowledgement: many thanks to the.

With solar capacity growing 18% annually since 2022 and wind projects multiplying across Kakheti region, Georgia's capital faces a renewable integration crisis. The national grid operator recently reported 127 hours of renewable curtailment in Q1 2025 alone—enough wasted energy to power 12,000.

Estimates the energy production 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. Operated by the Alliance for Sustainable.



With 300+ days of sunshine annually, Georgia's capital is practically begging for solar solutions. But who's paying attention?

Let's break it down: The "Aha!" Moment for Georgian Energy Remember the 2019 Tbilisi blackout that lasted 12 hours?

That's when local bakery chain Puri Ltd. lost \$20k in. How much electricity does a 6.7 kW solar system produce?

A 6.7 kW solar system produces 30.15 kWh of electricity per day. And to build a 6.7 kW solar system, you need 14 500-watt solar panels. If you have a smaller household, you could cover your energy use with a less expensive 4 kW solar system that produces 18 kWh of electrical energy per day, and you can build it with just 8 500W solar panels.

How much electricity does a 5kw Solar System produce?

However, if you have a 5kW solar system (comprised of 50 100-watt solar panels), the whole system will produce 21.71 kWh/day at this location. This might be enough to cover 100% of your electricity needs, for example.

How much energy does a 300 watt solar panel produce?

A 300-watt solar panel will produce anywhere from 0.90 to 1.35 kWh per day (at 4-6 peak sun hours locations). A 400-watt solar panel will produce anywhere from 1.20 to 1.80 kWh per day (at 4-6 peak sun hours locations). The biggest 700-watt solar panel will produce anywhere from 2.10 to 3.15 kWh per day (at 4-6 peak sun hours locations).

How much energy does a 400 watt solar panel produce?

A 400-watt solar panel will produce anywhere from 1.20 to 1.80 kWh per day (at 4-6 peak sun hours locations). The biggest 700-watt solar panel will produce anywhere from 2.10 to 3.15 kWh per day (at 4-6 peak sun hours locations). Let's have a look at solar systems as well:



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### [How Much Energy Does A Solar Panel Produce?](#)

Most solar panels you can find today are rated between 250 and 550 watts of power. The wattage (W) is what solar manufacturers and ...

### [Solar Panel Output Calculator , Get Maximum Power Output](#)

Input your solar panel system's total size and the peak sun hours specific to your location, this calculator simplifies the complex process of estimating the energy your solar ...



### [How Many kWh Does A Solar Panel Produce Per Day?](#)

For 1 kWh per day, you would need about a 300-watt solar panel. For 10kW per day, you would need about a 3kW solar system. If we know both the solar panel size and peak sun hours at ...

## Tbilisi

In this work, hourly data is post-processed into yearly, monthly and daily statistics - and visualized using boxplots. The main focus of PVGIS is photovoltaic solar. Wind statistics are ...



## [Solar panel system calculator "Tbilisi"](#)

Do you want to estimate the solar electricity production of your solar panels before investing in a photovoltaic system? PVGIS provides you with a detailed and precise simulation of your solar ...

## **Solar Power System Prices in Tbilisi: A 2024 Cost Guide for ...**

This guide breaks down solar power system prices in Tbilisi, explores key factors affecting installation costs, and reveals how businesses like EK SOLAR deliver customized solutions for ...



## [Solar Panel Output Calculator , Get Maximum ...](#)

Input your solar panel system's total size and the peak sun hours specific to your location, this calculator simplifies the complex ...





## Solar PV Analysis of Tbilisi, Georgia

Finding the exact optimal angle to maximise solar PV production throughout the year can be challenging, but with careful ...



## **PVWatts Calculator**

NREL's PVWatts ® Calculator Estimates the energy production of grid-connected photovoltaic (PV) energy systems throughout the world. It allows homeowners, small building owners, ...

## **Tbilisi Energy Storage: How Photovoltaic Solar Lights Are ...**

Real data: Tbilisi's solar output only drops 22% in winter versus 65% in Germany. Not too shabby!



## How Much Energy Does A Solar Panel Produce?

Most solar panels you can find today are rated between 250 and 550 watts of power. The wattage (W) is what solar manufacturers and installers put first in the product ...



## Tbilisi's Energy Storage Revolution in 2025: Powering a ...

Let's face it--Tbilisi's 40MW solar farm produces zero energy after sunset. Wind turbines in nearby Gori district? They're practically idle on calm summer days. This unpredictability ...



## Solar PV Analysis of Tbilisi, Georgia

Finding the exact optimal angle to maximise solar PV production throughout the year can be challenging, but with careful consideration of historical solar energy and ...

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For 1 kWh per day, you would need about a 300-watt solar panel. For 10kW per day, you would need about a 3kW solar system. If we know both the ...





## Contact Us

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