

Daily electricity generated by solar panels in Surabaya Indonesia





Overview

What is the average solar energy output in Surabaya Indonesia?

Average 5.58kWh/day in Autumn. Average 5.62kWh/day in Winter. Average 5.88kWh/day in Spring. To maximize your solar PV system's energy output in Surabaya, Indonesia (Lat/Long -7.2484, 112.7419) throughout the year, you should tilt your panels at an angle of 8° North for fixed panel installations.

Is Surabaya a good location for solar power generation?

Surabaya, East Java, Indonesia, located in the tropics, is a very suitable location for solar power generation throughout the year. This is due to its consistent sunlight exposure and tropical climate characterized by wet and dry seasons.

How much does solar power cost in Surabaya?

There is an average of 2975 hours of sunlight per year (of a possible 4383) with an average of 8 hours 08 minutes of sunlight per day. 1 The average annual solar output per kWh of installed solar PV in Surabaya is within 1,821 - 2,051 kWh/kWp. 2 So, the average electricity cost in 2022 was approximately 0.0899 USD per kilowatt-hour. 3.

Can solar panels be installed in Surabaya?

The climate in Surabaya is tropical, with high temperatures and humidity throughout the year, making it quite suitable for solar PV installations. However, considering the dense urban development in Surabaya city itself, large-scale solar PV installations might be challenging due to space constraints.



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Indonesia

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Performance Evaluation of Roof Tile Solar PV under Tropical Climate of Surabaya, Indonesia
Elieser Tarigan^{1,2*}, Fitri Dwi Kartikasari^{1,3}, Fenny Irawati^{1,4}, Rafina Destiarti Ainul^{1,4}, and ...



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Daily specific energy production in kWh/kWp ...

The daily average specific energy production for crystalline silicon panel for each facing direction panels is shown in Table 5.



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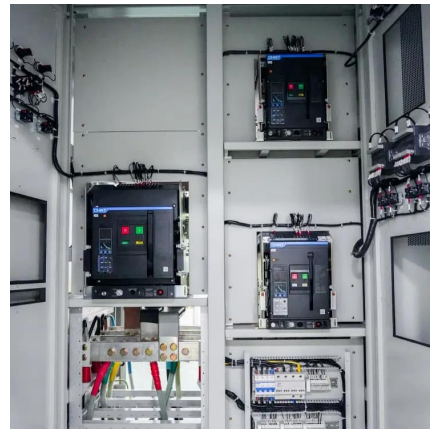


Daily specific energy production in kWh/kWp of Silicon PV

The daily average specific energy production for crystalline silicon panel for each facing direction panels is shown in Table 5.

Solar PV Analysis of Surabaya, Indonesia

Mar 13, 2024 · Surabaya, East Java, Indonesia, located in the tropics, is a very suitable location for solar power generation throughout the year. This is due to its consistent sunlight exposure ...



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