



# Annual electricity generation of solar panels in Jakarta





## Overview

---

With 2,800 annual sunshine hours that could power 4.5 million homes, Indonesia's capital is sitting on a goldmine of untapped solar energy storage potential. But how does this tropical megacity plan to harness its 207 GW solar capacity (that's 14 times current national electricity).

With 2,800 annual sunshine hours that could power 4.5 million homes, Indonesia's capital is sitting on a goldmine of untapped solar energy storage potential. But how does this tropical megacity plan to harness its 207 GW solar capacity (that's 14 times current national electricity).

Jakarta, Indonesia, located at latitude -6.2114 and longitude 106.8446, is a suitable location for solar power generation due to its consistent sunlight exposure throughout the year. The average daily energy production per kW of installed solar capacity in each season is as follows: 4.68 kWh in.

Indonesia straddles the equator, making it an ideal location for solar energy generation. The country receives an average solar radiation of about 4.5 to 5.5 kWh/m<sup>2</sup>/day throughout the year (Mulyadi, 2020). This geographical advantage positions solar energy as one of the most feasible and abundant.

Specifically for Indonesia, country factsheet has been elaborated, including the information on solar resource and PV power potential country statistics, seasonal electricity generation variations, LCOE estimates and cross-correlation with the relevant socio-economic indicators. It is a part of.

A geospatial assessment of Indonesia's nationwide solar PV technical potential has been conducted using publicly sourced national and international data. The analysis finds that Indonesia's solar PV technical potential capacity ranges between 3,396 GWp up to 19,835 GWp (depending on land-use).

Jakarta's energy system relies heavily on fossil fuels, in particular natural gas (49%), crude oil (28%) and coal (19%). Most electricity is generated from coal-fired power plants, while gasoline and diesel are the main fuels for private vehicles and motorcycles. Jakarta's energy system faces.

Picture this: Jakarta's endless sea of rooftops transformed into solar panel arrays



feeding smart battery systems. With 2,800 annual sunshine hours that could power 4.5 million homes, Indonesia's capital is sitting on a goldmine of untapped solar energy storage potential. But how does this tropical.



## Annual electricity generation of solar panels in Jakarta



### [Beyond 207 Gigawatts: Unleashing Indonesia's ...](#)

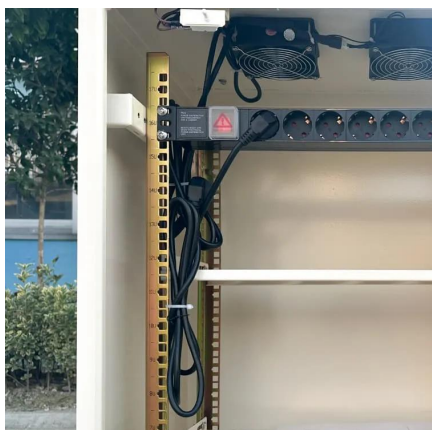
The findings presented in this work could be used to support solar power development in the country, while at the same time, meet future electricity ...

[Request Quote](#)

### [Unlocking Jakarta's Solar Energy Storage Potential: A ...](#)

With 2,800 annual sunshine hours that could power 4.5 million homes, Indonesia's capital is sitting on a goldmine of untapped solar energy storage potential. But how does this tropical ...

[Request Quote](#)



### Global Solar Atlas

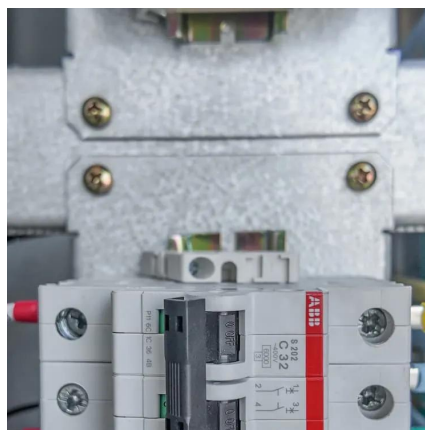
It is provided by the World Bank Group as a free service to governments, developers and the general public, and allows users to quickly obtain data and carry out a simple electricity output ...

[Request Quote](#)

## Urban Power Profile PREVIEWS

Developing renewable energy sources is a critical component of Jakarta's energy plan. The city is focusing on solar energy, WtE conversion and emerging technologies, such as wind power ...

[Request Quote](#)



### [450W Solar Panel Output in Jakarta, Size.Solar](#)

Estimate the energy output of a 450W solar panel in Jakarta with Size.Solar's free calculator. Get annual (612 kWh) and daily (1.7 kWh) production data.

[Request Quote](#)

### [Solar PV Analysis of Jakarta, Indonesia](#)

Jakarta, Indonesia, located at latitude -6.2114 and longitude 106.8446, is a suitable location for solar power generation due to its ...

[Request Quote](#)



### [Monthly solar irradiation in Jakarta.](#)

This research paper delves into a comprehensive analysis of seasonal tilt and solar tracking strategy scenarios for a 15 MW grid-connected PV ...

[Request Quote](#)

### [Solar PV Analysis of Jakarta, Indonesia](#)



Jakarta, Indonesia, located at latitude -6.2114 and longitude 106.8446, is a suitable location for solar power generation due to its consistent sunlight exposure throughout the year.

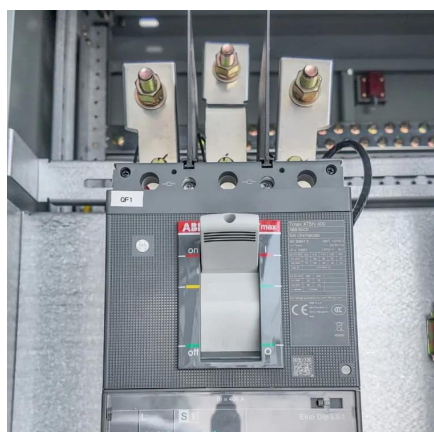
[Request Quote](#)



### [Solar Power Plants in Indonesia: Locations, ...](#)

With an installed capacity of 145 MW, it began operations in 2021 (Jakarta Post, 2023). The project utilizes an innovative floating ...

[Request Quote](#)



### **Global Solar Atlas**

It is provided by the World Bank Group as a free service to governments, developers and the general public, and allows users to quickly obtain data ...

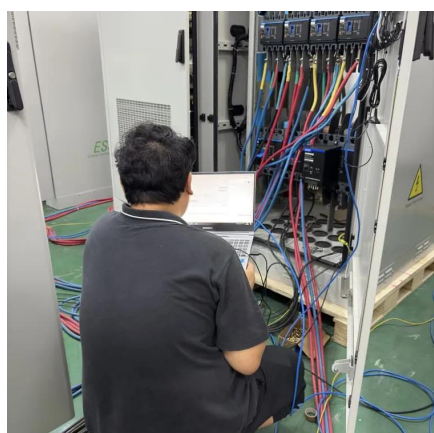
[Request Quote](#)



### **Solar Power Plants in Indonesia: Locations, Impacts, and Progress**

With an installed capacity of 145 MW, it began operations in 2021 (Jakarta Post, 2023). The project utilizes an innovative floating technology that allows solar panels to be ...

[Request Quote](#)



### **Awaiting Promised Support From the**



## West, Indonesia Proceeds ...

JAKARTA--A blanket of 340,000 solar panels floats on a crystal-blue reservoir outside Jakarta, generating enough energy to power 50,000 homes. Just 10 months old, the ...

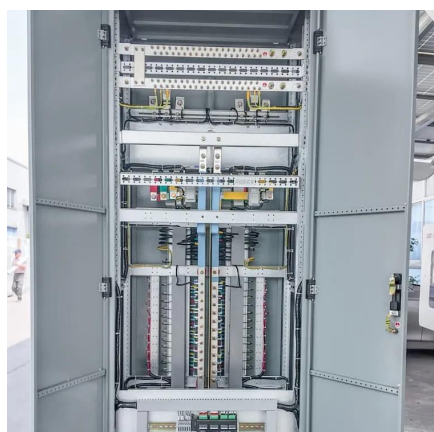
[Request Quote](#)



## [Bright hopes for rooftop solar expansion in Jakarta](#)

It is estimated to produce 1.7 million kilowatt-hours (kWh) every year, according to iForte. It is also claimed to be the largest rooftop solar panel installation on a commercial ...

[Request Quote](#)



## [Beyond 207 Gigawatts: Unleashing Indonesia's Solar Potential](#)

The findings presented in this work could be used to support solar power development in the country, while at the same time, meet future electricity demand and achieve renewable energy ...

[Request Quote](#)



## [Awaiting Promised Support From the West, ...](#)

JAKARTA--A blanket of 340,000 solar panels floats on a crystal-blue reservoir outside Jakarta, generating enough energy to ...

[Request Quote](#)



## [Monthly solar irradiation in Jakarta.](#)



This research paper delves into a comprehensive analysis of seasonal tilt and solar tracking strategy scenarios for a 15 MW grid-connected PV solar power plant situated in Kandahar ...

[Request Quote](#)





## Contact Us

---

For catalog requests, pricing, or partnerships, please visit:

<https://energyinnovationday.pl>

Phone: +48 22 335 1273

Email: [info@energyinnovationday.pl](mailto:info@energyinnovationday.pl)

Scan the QR code to contact us via WhatsApp.

