

## SolarTech Power Solutions

# How much power do solar panels in Thailand have



## Overview

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Solar power in Thailand is targeted to reach 6,000 by 2036. In 2013 installed photovoltaic capacity nearly doubled and reached 704 MW by the end of the year. At the end of 2015, with a total capacity of 2,500-2,800 MW, Thailand has more solar power capacity than all the rest of Southeast Asia combined. Thailand has great solar potential, especially the southern and northern parts.

Thailand started 2024 with just under 5 GW of cumulative photovoltaic (PV) capacity and a compound annual solar growth rate of 20% since 2012. This accounted for 9% of the country's installed electricity generation capacity.

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Individuals like Yor Yak - man, grappling with exorbitant monthly bills upwards of 7,000 baht, and became popular, thanks to his posts on Facebook about personal solar panel installation experience have found respite through solar panel installations. Yor Yak's investment of 370,000 baht in rooftop.

The government's 2023-2027 Power Development Plan (PDP) aims to add an impressive 8.5 GW of solar capacity, with 5.2 GW specifically allocated to the private sector. This substantial investment underscores Thailand's commitment to increasing renewable energy and reducing its reliance on fossil.

Due to the persistently high electricity rates in Thailand, people are increasingly turning to solar power. This year, a total of 1,878 applications were successfully submitted for the "Residential Solar Project" (โครงการส่งเสริมการติดตั้งโซลาร์รูฟท็อปสำหรับครัวเรือน), marking a new record since the project's launch in 2019.

With power demand rising 2% a year and domestic fossil fuel resources

declining, solar now sits at the intersection of energy security, trade competitiveness and rural development. Thailand started 2024 with just under 5 GW of cumulative photovoltaic (PV) capacity and a compound annual solar growth.

How much solar power does Thailand have?

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Solar PV capacity accounted for 16.4% of total power plant installations globally in 2023, according to GlobalData, with total recorded solar PV capacity of 1,496GW. This is expected to contribute 33.7% by the end of 2030 with capacity of installations aggregating up to 4,822GW. Of the total global solar PV capacity, 0.34% is in Thailand.

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How much does solar energy cost in Thailand?

While prices range from 105,000 to 760,000 baht for rooftop solar panel installations, the long-term savings on electricity bills render solar investments economically prudent. Can Solar Energy Power an Entire House in Thailand?

The prospect of running households entirely on solar power garners widespread interest.

How much solar power does Thailand have in 2024?

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Does Thailand have a good solar potential?

Thailand has great solar potential, especially the southern and northern parts of the northeastern region of Udon Thani Province and certain areas in the central region. Around 14.3% of the country has a daily solar exposure of around 19–20 MJ/m<sup>2</sup> /day, while another 50% of the country gains around 18–19 MJ/m<sup>2</sup> /day.

What is Thailand doing with solar energy?

Flagship solar energy projects in Thailand are becoming increasingly innovative: the state utility, EGAT, is tendering a 24 MW floating solar array at Ubol Ratana Dam, the first phase of a 2.7 GW hydro-floating solar hybrid program that avoids land-use conflicts while boosting reservoir efficiency. Policy momentum is catching up with engineering.

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