



# Why is there no solar power generation in Thailand





## Overview

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Why is solar energy rarely used in Thailand?

1. Limited Infrastructure Development, 2. Among these, economic constraints play a significant role. 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. The decision was approved by the National Energy Policy Council on 27 October. The government has quadrupled the annual quota for public solar power projects, from 100 MW to 400 MW in 2024, as part of a broader push to cut electricity costs by 8% and reach carbon neutrality by 2065. [3] 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. In 2023, Thailand's power generation system generated 219,540. 04 GWh, representing an increase of 7,792. The electricity was generated from diverse fuel sources, with natural gas remained the dominant source with 128,678. 61%), followed by coal/lignite.



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### [Analysis: Thailand's solar sector faces hurdles in net-zero push](#)

Solar panels can be made in Thailand, or they can be made in China. But the most important point is whether or not Thailand can install enough of them to reduce its carbon footprint fast enough to meet ...

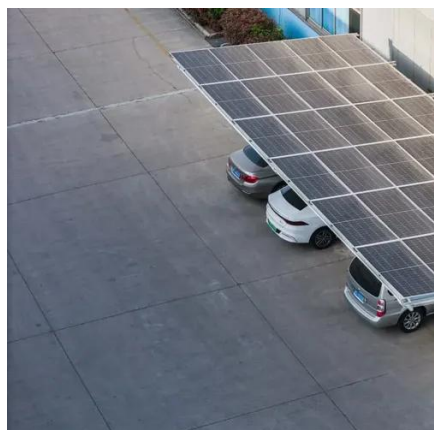
### [Inside Thailand Renewable Energy Expansion Plans](#)

Thailand is making big moves toward a cleaner energy future. The government has quadrupled the annual quota for public solar power projects, from 100 MW to 400 MW in 2024, as part of a broader push to ...



### [Thailand's solar sector faces hurdles in net zero push](#)

For Thailand to go net zero by 2050, it needs around 250 GW of solar power. That number currently stands at just 3.78GW [and projected to reach 6.97 GW by 2030], so to reach this goal, Thailand ...



### [Why is solar energy rarely used in Thailand? . NenPower](#)

The infrastructure for solar energy in Thailand remains underdeveloped primarily due to historical reliance on fossil fuels. Investments have concentrated on conventional energy sources, leading to neglect in ...



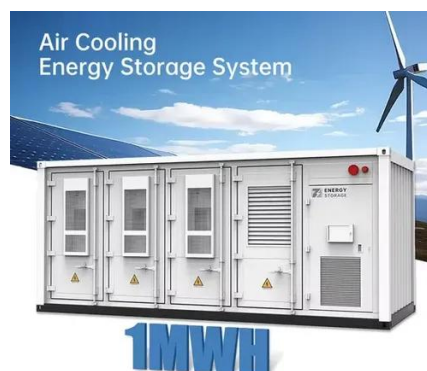
### [Why are there no solar lights in Thailand? , NenPower](#)

The adoption of solar energy in Thailand faces various hurdles ranging from economic challenges to infrastructural constraints. In areas where the standard of living remains low, individuals often prioritize ...



### [Thailand Approves 1,500 MW Community Solar Programme to Slash Power](#)

The decision was approved by the National Energy Policy Council on 27 October 2025 and sets the stage for community-level solar farms to bolster local energy security and reduce electricity costs for ...



### [Solar Energy In Thailand: Policy Aspiration to Economic Engine](#)

One of the primary hurdles to solar energy development in Thailand is its current energy grid. The grid faces load balancing and storage issues that struggle to handle the intermittency of renewables.



## **Thailand's Power Generation Statistics**



Thailand's solar electricity production accounted for approximately 21.09% of total renewable energy generation and about 2.20% of the country's overall electricity production.



### [Thailand's Path to Clean Energy: Solar, Wind, and Policies](#)

Thailand has a very strong solar potential, making it ideal for large-scale solar farms. Although the country's wind energy potential remains limited, rapid advancements in wind turbine technology may help ...

### **Solar power in Thailand**

In January 2015, Thailand's Energy Regulatory Commission (ERC) announced a new regulation for the purchase of electricity from ground-mounted solar projects, replacing the "adder" scheme with the "feed-in-tariff" (FiT) ...





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