

Solar power generation in China and Thailand



Overview

China installed a record 315 GW (AC) of new solar capacity in 2025, lifting cumulative installed PV capacity to 1.2 TW and pushing non-fossil power sources past thermal generation for the first time. China's National Energy Administration (NEA) released its 2025 power sector statistics on Jan. 2 TW dc

- China continued to dominate the global market, representing ~60% of 2024 installs, up 52% y/y.
- The IEA reported Pakistan's rapid rise to fourth place in annual. In 2023, Thailand's power generation system generated 219,540. The electricity was generated from diverse fuel sources, with natural gas remained the dominant source with 128,678. 61%), followed by coal/lignite. (Yicai) Jan.

China's wind and solar power installed capacity totaled 1,840 GW at Singapore, - Scaling up renewables would be the most economic pathway for Thailand to make progress toward its climate-related goals, according to BloombergNEF's latest report, Thailand: Turning Point for a Net-Zero Power Grid, published today.

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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 ...

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 ...



China adds 315 GW of solar in 2025 - pv magazine International

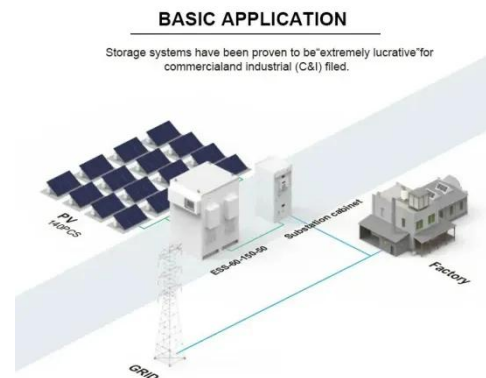
China installed a record 315 GW (AC) of new solar capacity in 2025, lifting cumulative installed PV capacity to 1.2 TW and pushing non-fossil power sources past thermal generation for the

first time.



Ambitious solar and storage targets to save 'billions' for Thailand

Adding 32GW of new solar capacity, plus 15GWh of batteries, to Thailand's power generation deployment targets could cut power generation costs by as much as US\$1.8 billion.



A comparative study of energy governance on energy resilience: process

Despite significant progress in solar power deployment, its penetration in the electricity mix remains relatively low. This study employs process tracing to compare solar power development in China ...

China's Wind, Solar Power Installed Capacity Exceeded

1,800 GW for

The country added 120 GW of wind and solar power in 2022, 290 GW in 2023, 360 GW in 2024, and 434 GW last year, of which about 119 GW of wind power and 315 GW of solar power, according to NEA ...



Spring 2025 Solar Industry Update

- Together, utility -scale solar and wind generation accounted for more power than coal generation. - Solar overtook hydropower to be the second -largest source of renewable energy generation in ...

Hydro-floating solar projects showcase China-Thailand clean energy

Two recent hybrid hydro-floating solar energy projects jointly built by Chinese and Thai companies showcase an innovative blend of solar and hydroelectric technologies to optimize both ...



Solar, Wind and Batteries Could Enable Thailand to



Reduce Reliance on

BNEF's report shows that the levelized cost of electricity generation (LCOE) for a new utility-scale solar power plant became cheaper than a new combined-cycle gas turbine and coal power plant in ...

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.



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