

When did Thailand reach a solar power milestone?

A solar power milestone was reached in Thailand in 2017 as cumulative installed capacity surpassed the 3-gigawatt (GW) mark. At the beginning of 2019, Thailand looks back to eight tumultuous years of mostly favorable solar energy developments and a few failures.

Does Thailand have solar power?

While Thailand's power generation is currently characterised by a high share of fossil fuels (81% of total electricity generation in 2021 came from gas and coal), the country has tremendous solar PV potential, both at utility scale and for rooftop PV, thanks to high irradiance and high daily solar exposure. IEA. Licence: CC BY 4.0

How many solar PV installations are there in Thailand?

As of December 2016, Thailand has nearly doubled the 2015 reference point used for AEDP 2015 by reaching solar PV installations of 2 446 MW (already in operation as defined by the COD record), of which 95% are from ground-mounted utility-scale installations. Another 307 MW are in the process of reaching COD.

Can small-scale solar power be used in Thailand?

The Thai government and power industry have also experimented with using small-scale solar, as well as hydro and biomass, to electrify off-grid communities and improve lives and livelihoods in agricultural and remote areas.

Does Thailand need a new national energy plan?

The IEA has provided recommendations to Thailand as input to their discussions on the drafting of a new national energy plan. The IEA examined the priorities for Thai power system decarbonisation, and how hybrid technologies can contribute and provide value to the system.

What is solar thermal & how does it work in Thailand?

Solar thermal is also an important source of renewable energy in the end-use sectors. The technology can provide domestic hot water in the residential sector, but also in sub-sectors such as tourism. In industry, Thailand has a history of solar thermal systems providing low-temperature heat and pre-heating services.

Thailand ranks 26th in the world for cumulative solar PV capacity, with 3,049 total MW's of solar PV installed. This means that 2.90% of Thailand's total energy as a country comes from solar PV (that's 29th in the world).

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The plan, which includes a significant increase in solar energy usage, is estimated to require investments of over 2.9 trillion baht and is projected to reduce CO2 emissions by more than 106 million tonnes by 2037.

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Utility-scale solar power farms account for nearly all the solar power capacity that has been installed in Thailand to date -- well above 90 percent according to one study. Similar to an FiT, a "solar adder" fueled the rapid growth.

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By August 2024, some sections of the Blue and Purple lines will start using solar energy, and the project is expected to generate electricity at full capacity by February 2025. The MRT Blue Line covers about 48km around Bangkok and has 38 stations. The line passes through several residential and business districts as well as cultural spots.

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