

Why does Thailand have a high share of natural gas in PES?

The power sector in Thailand is highly dependent on natural gas to meet the electricity demand resulting in the high share of natural gas in PES. Other renewables (solar, wind, geothermal, etc.) will grow during 2020-2050, however, their share will be only 5 % by 2050 compared to 0.5 % in 2020.

Why is power system flexibility important in Thailand?

With the growing share of renewable energy and emerging technologies, establishing and maintaining adequate flexibility is an important part of Thailand's power system development and modernisation, and the country's clean energy transition. Power system flexibility is crucial for ensuring security of supply.

Which energy source will be the dominant energy source in PES?

Natural gas will remain the dominant energy source in the PES during the period, followed by oil. The power sector in Thailand is highly dependent on natural gas to meet the electricity demand resulting in the high share of natural gas in PES.

Can the Thai power system reduce its emissions?

Building upon the current PDP, this report analyses how the Thai power system can decrease its emissions to meet the targets by increasing the amount of wind and solar PV in its system, and how it can integrate these variable renewable energy sources efficiently.

How are independent power producers contracted in Thailand?

In Thailand many independent power producers are contracted through physical power purchase agreements that have minimum-take obligations, defined as the minimum generation EGAT is contractually obligated to buy.

Should Thailand invest in solar and wind power?

The study indicates that flexibility will not be an issue and that the Thai power system can cope with the variability introduced by solar and wind power. Further investment in solar PV and wind power would be feasible and even economically optimal. Investing in more biomass would also boost Thailand's energy security.

Source: Power System Control and Operation Division, EGAT Power generation from renewable energy causes fluctuations and uncertainties that can be managed with accurate forecasting systems.

two scenarios were considered for Thailand: a reference scenario based on the Alternative Energy Development Plan (Ministry of Energy, 2015) with insights from the Power ...

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Thailand's primary energy supply (PES) increases by more than 60 % between 2020 and 2050 in the BAU, an increase from 128 Millions of tonnes of oil equivalent (Mtoe) to 209 Mtoe in 2050 (Fig. 4). The increase in PES is led by natural gas. The consumption of biomass, coal and oil would also increase during 2020-2050.

Thailand has an enhanced single-buyer system, which means that the vertically integrated utility buys power from both its own generation assets and from independent power producers. This study is conducted in the context of the enhanced single-buyer system, and identifies contractual flexibility within this scope.

Source: Power System Control and Operation Division, EGAT Power generation from renewable energy causes fluctuations and uncertainties that can be managed with accurate forecasting ...

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two scenarios were considered for Thailand: a reference scenario based on the Alternative Energy Development Plan (Ministry of Energy, 2015) with insights from the Power Development Plan (EGAT, 2015), and a REmap scenario based on the Thailand Renewable Energy Outlook (IRENA, 2017a), which considers higher renewables deployment and lower thermal

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GOAL: to promote an understanding, on a global scale, of the dynamics of change in energy systems, quantify emissions and their impacts, and accelerate the transition to carbon-neutral, environmentally benign energy systems while providing affordable energy to all.

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