

Does Indonesia have a potential for solar photovoltaic (PV) energy?

In this paper, we conclude that Indonesia has vast potential for generating and balancing solar photovoltaic (PV) energy to meet future energy needs at a competitive cost. We systematically analyse renewable energy potential in Indonesia.

What is Indonesia's solar energy capacity?

The capacity of solar energy in Indonesia is steadily climbing. With total capacity reaching over 322.6 MW as of the first half of 2023, this is an increase of over 800% in the last 10 years. This progress is part of Indonesia's solar energy plan, which targets 5 GW of installed capacity by 2030.

Does Indonesia have solar power?

Indonesia has been able to develop 0.4% of its renewable energy potential. Indonesia, ranked third in the region for solar potential, has almost no installed solar capacity. Despite having 3.294 GW of solar potential, Indonesia only added 74 MW solar power to the grid, a mere 0.017% of its potential. This means Indonesia has the lowest rate of solar use.

Can solar power improve Indonesia's energy security?

Indonesia Solar Energy Outlook 2025 highlights the crucial role of solar power in improving Indonesia's energy security. The report analyzes how solar PV can help reduce dependence on fossil energy, improve the reliability of electricity supply, and address the challenges of climate change.

What is Indonesia's solar energy plan?

This progress is part of Indonesia's solar energy plan, which targets 5 GW of installed capacity by 2030. The growth of solar power in Indonesia reflects not just a commitment to shift away from its fossil fuel-dominated energy system but also recognises the immense potential the solar energy holds in the Indonesian archipelago.

Can Indonesia harness solar energy?

While solar energy capacity is increasing in Indonesia, the current installed capacity is just a fraction of the potential capacity of solar power development. As a nation that straddles the equator, it gets direct, high-intensity solar irradiance, putting it in an ideal position to harness solar energy.

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According to the Indonesian Ministry of Energy and Mineral Resources, Indonesia's renewable energy potential is very large and is estimated to be 417.8GW in total. Among them, the potential of solar energy in Indonesia is high as 207.8GW, accounting for more than half of the total potential.

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ISEO 2023 provides an update on the progress of solar PV as the primary energy source in Indonesia's energy transition, as well as its challenges and market opportunities. Previously, solar progress was included in the IESR's annual flagship report Indonesia Energy Transition Outlook (IETO), but this year we made it into a separate publication.

The future appears bright for Indonesia's solar energy sector as Southeast Asia's biggest economy aims to raise its renewable energy capacity to meet its climate commitments, experts said. Indonesia has pledged to reduce emissions by 29 percent under a business-as-usual scenario, and by 41 percent, with international support, by 2030.

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