

# Indonesia has wind power solar power storage and transmission



## Overview

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The government aims to achieve a total of 69.5 gigawatts (GW) in new power generation capacity by 2034. Of this, 76% will come from renewable energy sources such as solar, hydro, wind, and geothermal, supported by energy storage systems like batteries and. Jakarta, Febru- Indonesia's vast technical renewable energy potential, exceeding 3,686 GW, is a crucial asset for increasing the country's renewable energy mix beyond 23 percent, potentially reaching 50 percent by 2030. A recent study by the Institute for Essential Services Reform. In 2019, the total energy production in Indonesia is 450. The country's power system is entering a dual-track phase of expansion, scaling renewables while retaining thermal stability. Maintaining thermal stability ensures consistent supply across isolated island grids while renewable infrastructure continues to scale up. Credit: Rumagia Bangun Setiawan. Indonesia was the world's fourth-most populous country in 2024, with a population of 283 million. Its gross domestic product (GDP) grew 5% from the previous year, according to government statistics.

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### Indonesia has 333GW of viable renewable energy projects identified

Conducted by the Institute for Essential Services Reform (IESR), this analysis highlights Indonesia's capability to harness its abundant renewable resources, including ground-mounted solar ...

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### Indonesia's renewable power capacity to reach 38.1GW in 2035

Indonesia is advancing its clean energy transition while maintaining a strong reliance on thermal generation, supported by major investments in solar photovoltaic (PV), onshore wind and ...



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### Indonesia's Renewable Power Set To Surge To 38.1 GW By 2035

Indonesia's renewable energy capacity is projected to reach 38.1GW by 2035, driven by solar, wind, and geothermal growth.

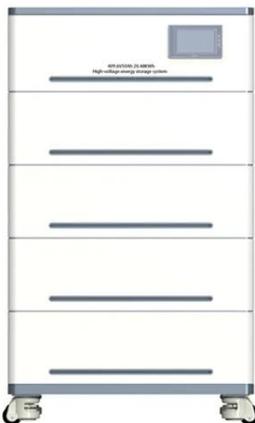
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## Full Summary of Indonesia's RUPTL 2025-2034

Of this, 76% will come from renewable energy sources such as solar, hydro, wind, and geothermal, supported by energy storage systems like batteries and pumped-storage hydropower.

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## Energy in Indonesia

Summary Overview Energy by sources Use of energy Government policy Renewable energy policies Major energy companies in Indonesia Greenhouse gas emissions

According to the IEA, energy production increased 34% and export 76% from 2004 to 2008 in Indonesia. In 2017, Indonesia had 52,859 MW of installed electrical capacity, 36,892 MW of which were on the Java-Bali grid. In 2022, Indonesia had an electrical capacity of 81.2 GW with a projected capacity of 85.1 GW for 2023. In 2021, Indonesia's total energy supply (TES) comprised 30.3% coal, 28.9% oil, an...

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## Energy in Indonesia

In 2021, Indonesia's total energy supply (TES) comprised 30.3% coal, 28.9% oil, and 14.4% natural gas. Renewable energy sources also added to the mix, with biofuels and waste accounting for 13.8%, ...

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## Country Analysis Brief: Indonesia

Nickel is used in the energy sector in steels and alloys, energy storage technologies, electric vehicle batteries, wind turbines, solar panels, and as a catalyst in green hydrogen production.<sup>24</sup>

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## The Future Of Renewable Energy In Indonesia: 2025 ...

Indonesia's push for a greater renewable energy mix faces obstacles in financing, grid readiness, and policy clarity. Explore how we can tackle these issues.

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## Renewable Energy in Indonesia: Current Development and

Currently, the country's renewable



energy mix includes hydropower, geothermal, bioenergy, wind, and solar energy. These resources are in varying stages of development, with some ...

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## Indonesia Has 333 GW of Financially Viable Renewable Energy Projects

"Renewable energy and energy storage technologies are becoming increasingly advanced and affordable. In some countries, the combination of solar and wind farms with ...

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## New Sources of Renewable Energy in Indonesia: Current ...

Currently, the country's renewable energy mix includes hydropower, geothermal, bioenergy, wind, and solar energy. These resources are in varying stages of development, with some ...

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