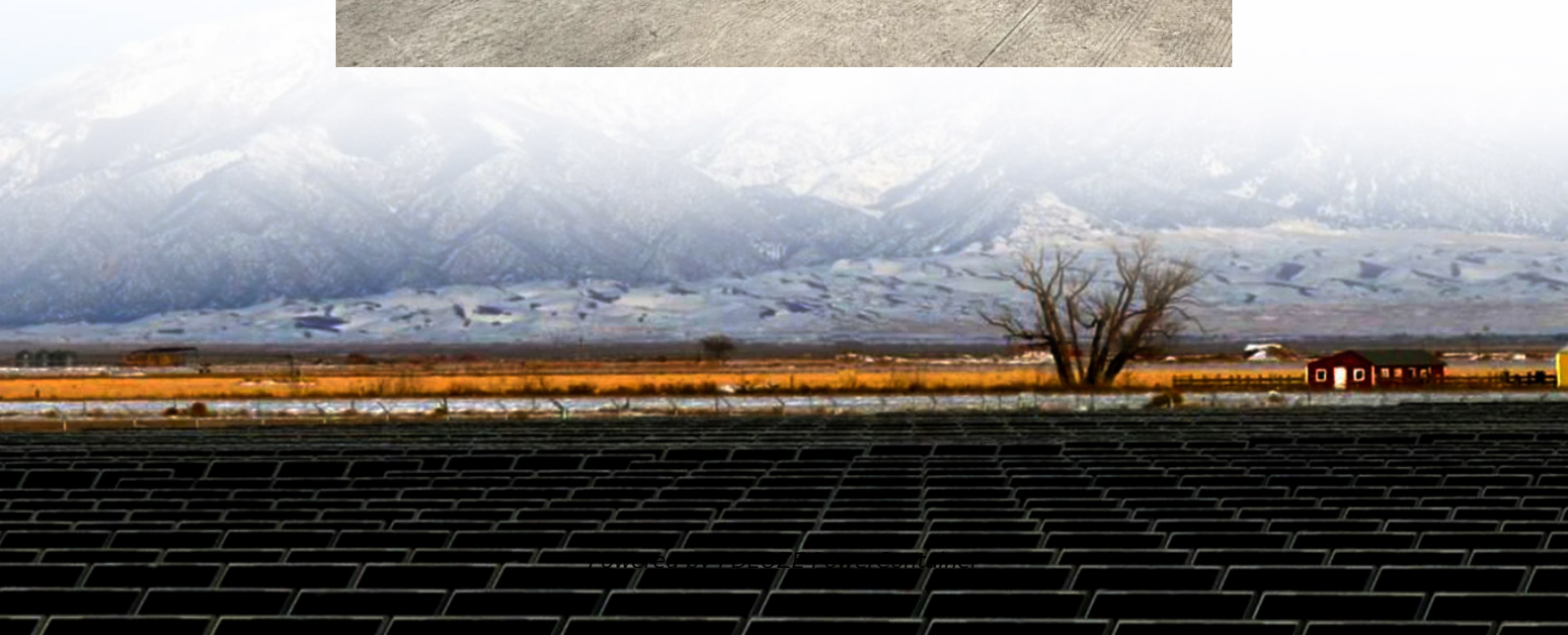


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Indonesia s floating wind power storage



Overview

Floating offshore wind farms, moored in the deep waters off Java, Nusa Tenggara and Sulawesi, could give Indonesia a new path to reliable electricity generation without the land constraints that complicate solar power and onshore wind power projects. How big is Indonesia's wind energy potential?

Estimations differ across studies, but the wind energy potential at least consists of tens of GWs for both onshore and offshore wind. Currently no offshore wind has been developed yet in Indonesia, while onshore wind energy reached just over 150 MW with only two utility size wind farms realized in the country.

Can Indonesia generate offshore wind power?

This Policy Recommendation Paper will give insight into the opportunity to generate offshore wind power in Indonesia. Six of the most promising areas will be presented: Aceh (1), Banten (2), Garut (3), Banyuwangi (4), Kupang (5), and Sulawesi Selatan (6).

How to accelerate wind energy adoption in Indonesia?

In addition, simpler and more transparent regulations in the licensing process are also needed to accelerate the adoption of wind energy in Indonesia. The implementation of the PLTB project will be more effective if combined with more stable power plants such as hydroelectric power plants (PLTA) or geothermal power plants (PLTP).

Why is wind energy important in Indonesia?

One form of renewable energy that has received special attention is wind energy. In the context of Indonesia, an archipelago with significant wind potential, the utilization of wind energy becomes strategic to achieve energy sustainability targets and to reduce the negative impacts of climate change.

Can wind turbines be used as power plants in Indonesia?

Wind turbine development in Indonesia is undergoing a continuous increase to meet renewable energy targets. The potential for wind energy in all 34 provinces has been mapped, while identifying areas with wind speeds of at least 4 m/s. The next step is to strategically implement wind turbines as power plants in these locations.

Can wind energy be used as a land-use priority in Indonesia?

Investments and development attraction: The potential position of wind energy as one of the technologies crucial for Indonesia's energy transition, could be used as a motive to obtain land-use priority or land acquisition.

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