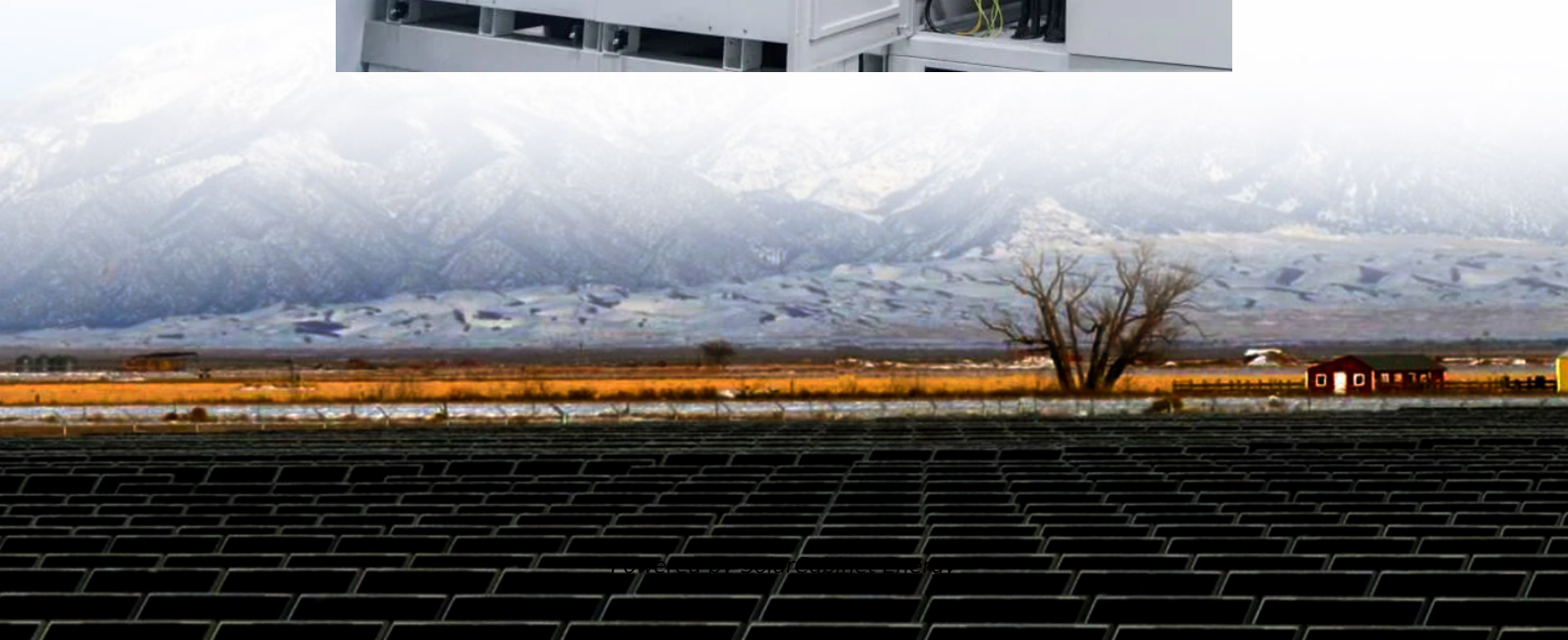


Philippines Mengguang Storage and Transmission





Overview

How many MW is battery energy storage system in the Philippines?

As of 2021, the Battery Energy Storage System (BESS) installed capacity in the Philippines is only 10 MW and is connected to the Luzon Grid (Department of Energy (DOE), 2021). Furthermore, both government entities and the private sector are actively investing in energy storage projects.

Why should the Philippines invest in energy storage?

The Philippines has a substantial incentive to face the challenges of the effects of climate change as a tropical archipelago. The country wants 50% renewables in the energy mix by 2040. As an essential part of a low-carbon energy system, the Philippines' energy storage market holds great potential.

What is the transmission system in the Philippines?

The transmission system in the Philippines encompasses Luzon, the largest island, and the Visayas region, which is comprised of multiple islands. On the other hand, Mindanao, the southernmost major island, has its own transmission grid known as the Mindanao Grid.

How many kV transmission lines are there in the Philippines?

As of 2023, the Philippines' transmission network comprised about 15,316 ckt km of transmission lines at voltage levels of 115-500 kV. Of this, 43 per cent was at the 230 kV level, followed by 38 per cent at the 138 kV level. The transmission network grew at a CAGR of about 2.3 per cent between 2019 and 2023.

How many mw can a Naga substation transfer?

d at 230 kV. The Naga Substation is also the termination point for the HVDC Interconnection System (commissioned in 1998) that could allow the exchange of power for up to 440 MW between Luzon and the Visayas Grids. The 500 kV backbone in the south facilitates the transfer of about 3,300 MW from



Ilijan Natural Gas, Pagbilao a.

What is the current electricity supply mix in the Philippines?

The current electricity supply mix in the Philippines is dominated by fossil fuels, which poses challenges to the climate and atmosphere. Therefore, it is encouraged to increase the share of RE sources, particularly solar and wind energy, in the electricity supply mix.



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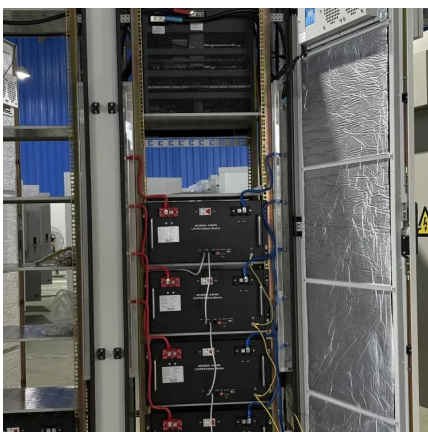
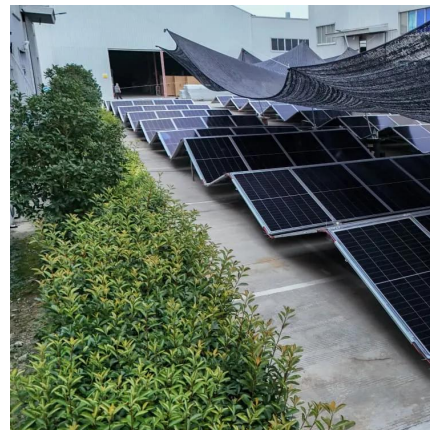


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