

SolarTech Power Solutions

Philippines grid-connected energy storage project



Overview

The MTerra Solar Project, under development by Terra Solar Philippines Inc. (TSPI), a wholly owned subsidiary of SP New Energy Corp, is a 3.5 GW solar and 4.5 GWh battery energy storage system (BESS) spread between the municipalities of Nueva Ecija and Bulacan on the island of Luzon. Which NGCP power plant will connect to Luzon grid?

The facility will connect to the grid through NGCP's 69 kV Naga-Libmanan transmission line. The ERC also approved Megasol Energy 1 Inc.'s 41.244 MW Gamu Solar Power Plant in Isabela. The project will connect to the Luzon grid through the 69 kV Gamu-Roxas line.

What is the largest solar installation in the Philippines?

At the time, 778 MW of solar had been installed, making it already the largest solar installation in the Philippines. The first phase, which also includes a 500 kV transmission line to the Nagsaag-San Jose connection, is due for completion in 2026.

How will Bess & NGCP connect to Luzon power grid?

A transmission line will connect the plant and BESS to the Luzon power grid managed by the National Grid Corporation of the Philippines (NGCP). The hybrid project will feature a 500kV 13km long transmission line with 89 towers. The infrastructure will use 4-410mm 2 Thermal Resistant Aluminium Alloy Conductors Steel Reinforced (TACSR) per phase.

Will MERALCO PowerGen develop a solar-plus-battery network in the Philippines?

Image: Meralco PowerGen Corp., Terra Solar Philippines Inc. ERC, the energy regulator of the Philippines, has approved an application from the world's largest solar-plus-battery project under construction to develop and own its own transmission network.

How many MW of solar has been installed in the Philippines?

In July, a project update revealed that 54% of the first phase of works had been completed within eight months of construction, marking progress ahead of schedule. At the time, 778 MW of solar had been installed, making it already the largest solar installation in the Philippines.

Does Aboitiz Power have a hybrid energy storage system in Cebu?

Aboitiz Power Corporation, one of the Philippines' major utilities, has launched a project that reflects this shift toward hybrid infrastructure. The company is constructing a 30-megawatt hybrid Battery Energy Storage System (BESS) in Cebu, in collaboration with East Asia Utilities Corporation.

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