

Peru specific energy storage applications

On March 22, ENGIE Energía Perú, a power generation company, started the implementation of a Battery Energy Storage System (BESS) to provide the primary frequency regulation service to the system.

The BESS project will have an installed capacity of around 30 MWh, which will be installed at ENGIE Energía Perú's ChilcaUno Thermoelectric Power Plant, and will allow the plant to operate at full capacity, which translates into more efficient energy for the country, as well as contributing to improve the stability of the national power grid. The BESS system is expected to enter commercial operation during the second quarter of 2023.

"This project represents an important milestone in the development of energy storage systems with batteries in our country, as it allows adding experiences with complementary systems to electricity generation and thus contributing to the transition to a cleaner and more efficient energy matrix," said Cesar Cornejo, Vice President of Operations and Projects of ENGIE Energía Perú.

ENGIE Energía Perú, on the other hand, is building the Punta Lomitas Wind Power Plant in the Ica Region. With an installed capacity of 260 MW, the future plant will become the largest wind farm in Peru. Thanks to its renewable energy production, it will avoid 240,000 tons of CO₂ per year, which will directly benefit the environment.

Energy storage and EV infrastructure solutions firm NHOA has commissioned a 31MWh battery energy storage system (BESS) in Peru for multinational utility and IPP Engie.

The BESS unit was provided by NHOA to Engie Energía Perú on a turnkey basis and has been deployed at Engie's 800MW ChilcaUno thermoelectric power plant, in Chilca, on the coast near the capital Lima.

It was inaugurated on 15 September in a ceremony attended by the Peruvian Minister of Energy Oscar Vera, the Vice-Minister of Energy Jaime Lu and the French Ambassador to Peru, H.E. Marc Giacomini. Engie is headquartered in Paris while NHOA is primarily based in Italy, though active globally.

When Engie announced the ChilcaUno BESS project last year, it said it would both help the plant operate at full capacity while also providing primary frequency regulation services to the electricity grid in Peru.

Luca Roccia, VP Americas for NHOA, commented: "We are exceptionally proud to have successfully completed this iconic project, especially considering the unprecedented challenges posed by the global macroeconomic and geopolitical environment."

It is likely to be among the largest, if not the largest, BESS in the country. Another multinational utility and

independent power producer (IPP), Italy-headquartered Enel, brought a 14.6MW BESS online at its Ventanilla thermal power plant in Callao online in 2021. Enel then described it as the country's first large-capacity battery system;.

Engie's announcement comes two months after Canada-based stock market-quoted developer Polaris Renewable Energy announced it was launching a battery storage project in Peru, although gave no additional details and did not respond to a request from Energy-Storage.news when asked to do so.

Returning for the second edition in Santiago, Chile, the Energy Storage Summit Latin America will explore opportunities in countries such as Chile, Peru, Colombia, Argentina, Brazil and Mexico. Join Solar Media on October 17-18 to meet with investors, policy makers, developers, utilities, network operators, technology providers, EPCs, consultants, law firms and more to make sure you are a part of the rapidly evolving storage landscape in Latin America.

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