

Study on technical, economic, environmental efficiency of self-consumption rooftop solar power using lithium-ion battery for households in Vietnam

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Since 2017, the company has been developing and operating renewable energy projects in Vietnam, which include the 252 MW wind project in Quang Binh and the 80 MW solar plants in Khanh Hoa and Dak Lak.

This study examines the costs and benefits of rooftop solar plus battery in a sample factory in Ha Tinh province, using roughly 115 MWh of grid-connected electricity ...

However, accommodating further growth of solar generation could be challenging without deployment of technologies like battery energy storage systems (BESS) that could ease its integration to the grid.

This study examines the costs and benefits of rooftop solar plus battery in a sample factory in Ha Tinh province, using roughly 115 MWh of grid-connected electricity annually in manufacturing building materials, and installing 137 kWp solar with battery to be self-sufficient.

The two companies are Vietnam's only battery manufacturer and solar PV module maker respectively and their new partnership will emphasise the domestic "Make in Vietnam" aspect (the official slogan created by the Vietnamese Ministry of Information and Communications).

The purpose of the pilot project is to demonstrate the commercial viability of energy storage in Vietnam, a country which has rapidly adopted solar PV in the past few years, but is yet to start doing the same for batteries, or other forms of energy storage technology.

A battery energy storage system (BESS) will be retrofitted to a utility-scale solar PV power plant in Vietnam, in a pilot project aimed at supporting the spread of renewable energy in the country while reducing power losses.

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In essence, Vietnam is revolutionizing its energy landscape through BESS, aiming for a smarter, sustainable, and secure energy future. Actual images of some rooftop solar projects with BESS storage batteries by PC1. (Source: PC1 Group)

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After the Asian country experienced rapid growth in installed solar PV capacity, power generation from the renewable source is being curtailed, largely due to network congestion.

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