ContainerPower Energy Solutions

Solar battery energy storage in Greece

Overview

For energy storage, the target for 2030 is at 2.5 GW of installed capacity for pumped hydro and a whopping 5.6 GW for battery storage. These batteries are expected to accompany 14.1 GW of solar capacity, 7.1 GW of onshore wind capacity, and 2.7 GW of offshore wind.

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Greece’s latest auction has awarded subsidies to 188.9 MW of standalone, front-of-the-meter, utility-scale battery energy storage. The auction was the third and final edition of a battery storage subsidy program launched in 2023, with the country now turning its focus towards a new 4.7 GW.

The Greek minister of energy has recently announced the targets of the new NECP which is expected to be published shortly. For energy storage, the target for 2030 is at 2.5 GW of installed capacity for pumped hydro and a whopping 5.6 GW for battery storage. These batteries are expected to accompany.

This study addresses this gap by proposing a modular framework for Renewable Energy Valleys (REVs), developed from real-world Community Energy Lab (CEL) demonstrations in Crete, Greece, which is an island with pronounced seasonal demand fluctuation, strong renewable potential, and ongoing hydrogen.

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