

Semi solid state battery St Kitts and Nevis

Swiss battery maker Leclanche SA (SWX:LECN) and its Saint Kitts and Nevis government partners last week launched construction of a solar-plus-storage project in the Caribbean island nation.

The Government of St. Kitts and Nevis, along with SKELEC, the state-owned St. Kitts Electricity Company Ltd, have executed an amended Power Purchase Agreement (PPA) with SOLEC Power Ltd, a subsidiary JV of Leclanché, for the solar photovoltaic and battery storage project located in Basseterre.

On successful completion of this fully integrated solar photovoltaic system and a lithium-ion battery energy storage system (BESS), the facility will supply Saint Kitts with 30% to 35% of consumers" annual electricity demand by utilizing sustainable and renewable solar energy with ZERO carbon emissions.

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The solar project on St. Kitts will be oversized, allowing a portion of that electricity to meet current electric demand on the island, and the remainder to charge the large-scale battery storage system to meet island demand after the sun sets.

6 ???· by Eulana Weekes St. Kitts and Nevis (WINN): The Nevis Electricity Company (NEVLEC) will develop a grid code to ensure the safety, solidity, and efficiency of the electricity supply in Nevis. While he welcomes the growing adaptation to clean energy solutions, Premier Mark Brantley explained during his fiscal year 2025 budget presentation that the need [...]

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By removing the anode and using inexpensive, abundant sodium instead of lithium, this new form of battery will be more affordable and environmentally friendly to produce. Through its innovative solid-state design, the battery also will be safe and powerful.

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Real Project Implementation in St Kitts and Nevis Daily PPA Profile, excess Solar energy generated during the day is used to charge the battery for evening peak discharge o Leclanche designed a BASE LOAD Product for the 20-Year PPA from intermittent Solar PV generation o Allowed Utility to reduce carbon emissions by over 41,500 metric tons

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