



Energy storage for microgrids lebanon

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Global PV inverter manufacturer and energy storage solutions provider Sungrow will supply equipment including battery storage to eight solar microgrid projects in Lebanon.

Sungrow has signed deals with undisclosed local partners for what will be the first utility-scale microgrids to be built in the Middle Eastern country, it said yesterday.

Cumulatively, the projects add up to 12.4MW of PV generation capacity and 14MW/24.9MWh of battery energy storage system (BESS) technology. Sungrow will provide both PV inverters and BESS, with the company's integrated energy storage solutions including power conversion system (PCS) as well as the batteries.

Due to come online in the fourth quarter of this year, the projects are the largest of their type in Lebanon to date, but follow Sungrow having already worked on 20 smaller projects of similar scope in the Lebanese market since entering it last September.

The microgrids will be installed at local businesses to power daily operations, with the country's electricity supply situation in crisis for years, made worse amid economic difficulties caused by factors including the COVID-19 pandemic.

According to various reports, many Lebanese people only get electricity from the grid for up to about three hours a day. Most power comes from fossil fuels, with growing dependence on private generators which are also powered with imported fossil fuels. Inflation of the costs of electricity as well as water and gas hit almost 600% year-over-year in the middle of 2022.

Sungrow's manager for the Levant region and Yemen, Zaid Al-Helo, said projects such as the microgrids are enabling local businesses and facilities to gain energy independence and decarbonise their operations. Lebanon, with around 300 days of sunshine a year, "is a perfect place to install solar projects," Al-Helo said.

The solar and batteries will mean recipients of the microgrids can reduce their draw of electricity from the grid at peak times, while also protecting them from the worst impacts of disruptions to the grid and mitigating the electricity supply crisis.

Beirut, Lebanon, June 5th, 2023 /PRNewswire/ -- Sungrow signed eight contracts with local partners to supply the first batch of Utility-scale micro-grid BESS in Lebanon. The projec ...

Sungrow, the global leading inverter and energy storage system solution supplier, signed eight contracts with local partners to supply the first batch of Utility-scale micro-grid BESS in Lebanon. The projects" cumulative



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capacities are 14MW/ 24.9MWh and the PV capacity at 12.4MW, providing power to communities and facilities, mitigating the ongoing electricity crisis caused by the weak and insufficient infrastructure, and decarbonizing the economy.

The electricity crisis in Lebanon recently reached a record high. The energy issue cripples Lebanon's economic development and paralyzes normal life. The power supply is contracting due to the rising price of fossil fuels which are the major energy sources for the country. To prepare for energy needs, Lebanon has set out to diversify its energy mix by adding more renewables. The micro-grid project combining PV and energy storage systems offers a possible way to mitigate the energy crisis.

Sungrow will provide the contracted eight micro-grid projects with its PV inverter and energy storage system solutions. The energy storage system is highly integrated with both the Power Conversion System (PCS) and Batteries, which minimizes the footprint, and streamlines the installation process. The solar-plus-storage system can power the loads during peak times without consuming pricy electricity from the generators and minimize the power shortage caused by insufficient infrastructure.

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