



# Sungrow energy storage 430 kWh

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## Sungrow's Energy Storage System Provides Support to Future Networks and Grid Operators

The ESS is not a simple mechanical stack-up. The success of an ESS is based on experience in different fields, including electrochemistry, power electronics, and power grid support ...

Sungrow, the global leading inverter and energy storage solution supplier and Enlight Renewable Energy, an Israeli traded (TASE: ENLT) Developer and IPP with global operation across the US, Europe, and Israel, announced a joint agreement which in that Sungrow will supply Enlight with 430 MWh of its flagship liquid cooled energy storage system (ESS). The contract is the largest ESS agreement signed to date in Israel, bolstering the country's energy transition and marking a massive scale-up in installations for the newly launched system.

Last year the Israeli government introduced its goal of generating 30% of its electricity needs via renewables by 2030. Solar PV is expected to contribute to most of it, corresponding to 26% of Israel's renewable electricity in 2030, indicating 12 GW to 15 GW of new PV installations in the coming decade. To reach such a high percentage of solar usage, Israel is currently aiming to develop an advanced solar-plus-storage system to ensure a stable and reliable electricity grid.

Sungrow will supply 430 MWh of its latest 4-hour liquid-cooled ESS, a combination of a contracted 230 MWh for stage 1 and a locked 200 MWh battery for stage 2, which enables profitability, flexibility, and safety.

The capital and operating expenses of Sungrow's ESS are reduced as a result of pre-assembly, easy on-site installation, and a more effective cell working environment which slows capacity loss substantially. With the modular DC/DC converter, the battery rack can be fully charged and discharged. Further, the system is optimized in safety performance because of its standout anti-leakage design and an integrated aerosol fire fighting system. Combining with the solar system, the highly integrated ESS can be widely used in multiple applications, including energy shifting, ancillary service, like ramp rate control, reactive power provision, and more.

"We are excited to announce our first strategic procurement agreement in the energy storage arena via the selection of Sungrow's New ESS Li-ion Solution. We believe that the combination of Sungrow's product leadership and CATL's cell technology will provide us with the superior solution we need for our advanced solar plus battery projects, driving best-in-class plant performance," said Gilad Yavetz, CEO of Enlight Renewable Energy.

"Following a stringent selection process including visits to Sungrow's ESS reference sites and



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manufacturing facility, and strict technical specifications, we are proud to be selected as the solution provider for Enlight's 430 MWh project in Israel, a landmark of installations which represents our commitments to the decarbonization process that Israel is leading," said Tzvi Ben David, Country Manager of Sungrow Israel.

James Wu, Vice President of Sungrow also commented, "The advanced liquid-cooled ESS technologies we offer make it easier for our customers to turn more solar energy into assets. Israel is the key market for Sungrow to expand the global business. The booming of renewable energy entails a broader trajectory for energy storage development. Through our efforts, we have seen an intense desire by the people and the government to continue evolving in ways to the grid parity and a cleaner future."

Israel, though a country with scarce land and natural resources, attaches great importance to technological innovation. As one of the most innovative and energetic PV and ESS players, Sungrow made its first entry into the Israeli market two years ago and has built a professional local team offering responsive service. Adding the 430 MWh project to its portfolio, the Company will gain over 50% of the Israeli market share in 2022. The Company endeavors to create value through its technology initiatives and application teaming up with more partners.

Intelligent insights & conversations with global power industry professionals

LONDON, Feb. 27, 2023 /PRNewswire/ -- Imagine the future, in which renewables will be the primary source of electricity generation, much of it from wind and solar plants. The power system impedance will become increasingly higher and the power system inertia will decline. As a result, the power system will become weak with a huge instability in both voltage and frequency.

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