

## Energy storage research and development philippines bin

Sungrow, the global leading PV inverter and energy storage system provider, showcased its cutting-edge solar-plus-storage solutions at Solar & Storage Live Philippines 2024. As the Philippines embraces renewable energy and seeks sustainable development, the need for efficient and reliable solar-plus-storage solutions has become increasingly urgent. Sungrow's participation in Solar & Storage Live Philippines 2024 not only demonstrated its technological prowess in renewable energy but also signalled its commitment to supporting the country's energy transition.

During the expo, Sungrow showcased the solar-plus-storage solutions, including "1+X" modular inverter, SG350HX-20 string inverter, and the new generation of the PowerTitan liquid-cooled energy storage system.

PowerTitan2.0, Sungrow's latest addition to its liquid-cooled energy storage system line, surpasses the capabilities of traditional all-in-one solutions. It seamlessly integrates a cutting-edge AC storage design, an embedded PCS, and a standard 20-foot, 5MWh fully liquid-cooled energy storage system, offering scalability up to 10MWh. Throughout its operational lifespan, the string PCS enables independent charging and discharging of battery racks, significantly boosting the system's discharged energy capacity by over 8%.

In addition to providing multi-MPPT string inverter SG125CX-P2 for 1000 VDC System, for rooftop application scenarios, the Rapid Shutdown SR20D-M and Power Optimizer SP600S further optimize existing solutions to provide customers with a safer and more efficient energy system.

The Rapid Shutdown (SR20DM) holds the patented FHC bypass technology that decreases loss and avoids overheating. It can shut down rapidly in only 20 seconds and prevent risk with 10 seconds of pre-protection. SR20D-M is easy to install; its quick plug installation helps save installation time and O& M costs.

And SP600S smart power optimizer is a groundbreaking MLPE (Module Level Power Electronics) product from Sungrow that enhances solar system efficiency and safety. It uses smart Shade-Proof technology, which could increase system efficiency to 0.5%, and power generation to 30%. A patented SP600S structure reduces installation time by up to 45 percent, and the rooftop angle can be optimized to maximize the solar system. Besides these, SP600S is a safe and efficient system.

Sungrow's SG6.0RS PV inverter, a single-phase solution with a capacity of 6kW, is ideal for Philippines household use, fulfilling the needs of families. It features two MPPTs, enabling connections to two independent solar arrays of panels facing diverse directions. Compact and weighing just 10kg, this model is the ideal choice for residential systems.

The Philippines Department of Energy (DOE) has outlined new draft market rules and policies for energy storage, a month after the country allowed 100% foreign ownership of renewable energy assets.

The document ‘Adoption of Energy Storage System in the Electric Power Industry’, set out the Department’s policy for energy storage technology in the country’s power market, following focus group discussions and studies in November.

The country is aiming for a renewable energy generation mix of 50% by 2040 and, the new document reads, growing intermittency ‘necessitates enhancement of the existing ESS policy and regulation to accommodate the development of ESS in support to the renewable energy integration and grid stability.’

It is not clear if the document goes as far as changing the classification of ESS technology from ‘generation’, a situation which could be preventing generation companies from investing in the asset class because of limitations on market share.

The document went on to outline the four technologies it considers part of ESS technologies although said the list was not exhaustive. The technologies are battery energy storage systems (BESS), compressed air energy storage (CAES), flywheels and pumped hydro energy storage (PHES).

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