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TNB launches Santong BESS

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ENERGY STORAGE SYSTEM

TNB launches Santong BESS

Tenaga Nasional Bhd's Santong battery energy storage system has a capacity of 100 megawatt/400 megawatt per hour. BERNAMA PIC

KUALA LUMPUR: Tenaga Nasional Bhd (TNB) has launched Santong battery energy storage system (BESS) with a capacity of 100 megawatt/400 megawatt per hour (MWh) to strengthen the national grid system.

The system is located at the Santong BESS main intake substation in Dungun, Terengganu, which is the first BESS system that is connected to the grid.

Energy Transition and Water Transformation Minister Datuk Seri Fadillah Yusof officiated at the project's launch ceremony.

TNB president and chief executive officer Shamsul Ahmad said the Santong BESS played a key role in ensuring grid system stability through its fast response capability to supply and demand imbalances and the integration of solar energy on a larger scale through grid-forming capability.

"This system uses liquid-cooled technology and grid-forming capability, enabling the integration of renewable energy on a larger scale, while providing rapid response to changes in system conditions."

He said that the system could function as an "energy bank" that stored electricity from renewable energy sources, such as large-scale solar farms and hybrid hydro-floating solar systems, before channeling it back into the grid when needed.

"Through this capability, the Santong BESS can balance fluctuations in electric supply and demand in real time, particularly during peak hours or system disruptions, thereby reducing pressure on the grid and improving the stability of electricity supply. The system is capable of supporting electricity needs equivalent to about 40,000 households around the East Coast, depending on current usage patterns."

Shamsul said the project was completed within 309 days from commencement date to commissioning, reflecting TNB's capability to implement energy infrastructure projects efficiently and swiftly.