

PRESS RELEASE

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TNB COMMISSIONS 100MW/400MWh SANTONG BESS, MALAYSIA'S FIRST GRID-CONNECTED BESS TO DELIVER A MORE RELIABLE ELECTRICITY SUPPLY FOR THE RAKYAT

- Stronger and more stable electricity supply in the East Coast through large-scale energy storage
- Malaysia's first smart "energy bank" with grid-forming technology supporting renewable energy integration
- TNB's strategic investment accelerates renewable energy integration in line with the National Energy Transition Roadmap (NETR)

Tenaga Nasional Berhad (TNB) today marked another significant milestone in the nation's energy transition journey with the commissioning of the 100 megawatt (MW) / 400 megawatt-hour (MWh) Santong Battery Energy Storage System (BESS) at the 132/33kV Santong BESS Main Intake Substation (PMU), Dungun, Terengganu, making it the first BESS in Malaysia connected to the grid.

The facility is among TNB's strategic initiatives to strengthen the capabilities of the national grid system, particularly in terms of controlled energy storage and discharge, to enhance electricity supply stability and reliability in line with the aspirations of the National Energy Transition Roadmap (NETR).

The strategic project was officially launched by the Deputy Prime Minister and Minister of Energy Transition and Water Transformation (PETRA), Datuk Amar Fadillah Yusof.

Strategic Role in Grid Stability

TNB President/Chief Executive Officer, Datuk Ir. Ts. Shamsul Ahmad, said Santong BESS plays a vital role in ensuring grid system stability through its fast-response capability in addressing supply and demand imbalances, including supporting peak load management and enabling greater solar energy integration through its grid-forming capability.

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

He added that Santong BESS can function as an "energy bank", storing electricity generated from renewable energy sources such as large-scale solar farms and hybrid hydro floating solar systems before discharging it back to the grid when required.

"Through this capability, Santong BESS is able to balance fluctuations in electricity supply and demand in real time, particularly during peak demand periods or system disturbances,

S.A. 2026/05/18_10 (HQ)

thereby reducing pressure on the grid and enhancing electricity supply stability. The system is also capable of supporting electricity demand equivalent to approximately 40,000 households in the East Coast region, depending on prevailing consumption patterns,” he said.

Shamsul further shared that the project was successfully completed within 309 days from project commencement to commercial operation, reflecting TNB’s capability to deliver energy infrastructure projects efficiently and swiftly.

Digitalisation Driving the Grid of the Future

The adoption of analytics and digital approaches in forecasting energy demand, optimising supply distribution, and conducting real-time asset monitoring has strengthened grid operational efficiency, making the grid smarter, more flexible, and more resilient.

In line with the NETR, the development of the Santong BESS reflects TNB’s continued commitment to strengthening grid infrastructure to support wider renewable energy integration while enhancing the efficiency and resilience of the nation’s energy system.

Released in Dungun, Terengganu on 18 May 2026

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About Tenaga Nasional Berhad

Tenaga Nasional Berhad (www.tnb.com.my) is a leading Malaysian utility company in Asia with an international presence in the United Kingdom (UK), Ireland, Australia, Turkiye, Saudi Arabia, Kuwait, Pakistan, and Cambodia. Within the renewable energy space, TNB has a total gross portfolio of 3.3 Gigawatts (GW) in Peninsular Malaysia (including 2.5GW of large hydro) and 1.3GW across the UK, Ireland, Australia, and Turkiye, comprising mainly solar, wind, and hydro energy generation assets. In addition to being the nation’s primary electricity generation enterprise, TNB also transmits and distributes electricity across Peninsular Malaysia, Sabah, and the Federal Territory of Labuan. As of 31 March 2026, TNB supplies electricity to over 11 million customers.



Deputy Prime Minister and Minister of Energy Transition and Water Transformation (PETRA), Datuk Amar Fadillah Yusof, officiates the launch of the 100MW/400MWh Santong Battery Energy Storage System (BESS) in Paka, Dungun on 18 May 2026.

Accompanying him, from left: Tenaga Nasional Berhad (TNB) President/Chief Executive Officer, Datuk Ir. Ts. Shamsul Ahmad; Energy Commission Chief Executive Officer, Siti Safinah Salleh; and TNB Chairman, Tan Sri Abdul Razak Abdul Majid.

From right: Sustainable Energy Development Authority (SEDA) Chief Executive Officer, Dato' Hamzah Hussin; Secretary-General of the Ministry of Energy Transition and Water Transformation (PETRA), Dato' Sri Haji Mad Zaidi Mohd Karli; and Terengganu Menteri Besar Representative and Chairman of the State Tourism, Culture, Environment and Climate Change Committee, Datuk Razali Idris.



Deputy Prime Minister and Minister of Energy Transition and Water Transformation (PETRA), Datuk Amar Fadillah Yusof, and Terengganu Menteri Besar Representative and Chairman of the State Tourism, Culture, Environment and Climate Change Committee, Datuk Razali Idris, accompanied by TNB Chairman, Tan Sri Abdul Razak Abdul Majid (far left), and TNB President/Chief Executive Officer, Datuk Ir. Ts. Shamsul Ahmad (second from right), listen to a briefing delivered by TNB Chief Grid Officer, Hasmarizal Hassan (second from left), following the official launch of the **100MW/400MWh Santong Battery Energy Storage System (BESS)** in Paka, Dungun, today.



Deputy Prime Minister and Minister of Energy Transition and Water Transformation (PETRA), Datuk Amar Fadillah Yusof, accompanied by TNB President/Chief Executive Officer, Datuk Ir. Ts. Shamsul Ahmad (far left), and TNB Chief Grid Officer, Hasmarizal Hassan (far right), visits the Santong BESS site following the official launch of the 100MW/400MWh Santong Battery Energy Storage System (BESS) in Paka, Dungun, today.



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Santong BESS functions as a smart “energy bank” equipped with liquid-cooled technology and grid-forming capability, enabling larger-scale renewable energy integration while providing rapid response to changes in system conditions.



TNB technical personnel conduct inspections and monitoring of the Santong BESS system to ensure operations remain at an optimum, safe and reliable level in supporting national grid stability.