AUTHOR: No author available SECTION: STARBIZ AUDIENCE : 175,986 PAGE: 8
PRINTED SIZE: 133.00cm² REGION: KL MARKET: Malaysia PHOTO: Black/White ASR: MYR 6,739
WORDS: 282 ITEM ID: DP0122424166



04 NOV, 2026

TNB boosts grid modernisation

The Star, Malaysia

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KUALA LUMPUR: Tenaga Nasional Bhd (TNB) is stepping up investments in grid infrastructure and accelerating network modernisation to strengthen Malaysia's electricity supply system, enhance renewable energy integration and meet future demand.

President and chief executive officer Datuk Seri Shamsul Ahmad said forward planning, faster project execution and stronger collaboration were essential to developing a smarter, more flexible and resilient national grid.

Speaking during the *The Grid of Tomorrow* panel at Singapore International Energy Week 2026, he said TNB was investing ahead of demand while balancing the need for affordable, sustainable and reliable electricity supply.

The utility serves approximately 11 million customers and has allocated about RM43bil for network investments under Regulatory Period 4, covering 2025 to 2027.

He said the investments would support the development of critical infrastructure, including the 500-kilovolt (kV) National Grid Backbone, targeted for completion by 2030, and the 100-megawatt (MW)/400-megawatt-hour Santong battery energy storage system (Bess) in Terengganu.

TNB began developing the National Grid Backbone in August 2026, with the approximately 500-km transmission system designed to connect strategic locations along the east coast of Peninsular Malaysia.

Upon completion, it will be the country's longest 500kV transmission system, strengthening grid capacity, flexibility and reliability.

Meanwhile, the Santong Bess, which commenced operations in April 2026, is Malaysia's first grid-connected Bess.

Located in Dungun, Terengganu, it can deliver 100MW of power for up to four hours, providing additional flexibility to manage electricity supply and support the integration of renewable energy sources.

At the regional level, Shamsul highlighted the growing momentum behind the Asean Power Grid or APG, supported by initiatives such as the Laos-Thailand-Malaysia-Singapore Power Integration Project and bilateral electricity trading arrangements between Malaysia and Singapore. — Bernama

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