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TNB actively operationalising target of 70% RE capacity by 2050

KUALA LUMPUR: Tenaga Nasional Bhd (TNB) is actively operationalising its roadmap to achieve 70% renewable energy (RE) capacity by 2050, chief sustainability officer Leo Pui Yong said.

This commitment is manifested among others, through a robust pipeline, including a 2.5-gigawatt hydro hybrid floating solar initiative and a 500-megawatt (MW) solar farm development.

As of 2025, RE accounted for about 26.5% of TNB's total generation capacity, with a total installed green capacity of 4,303MW.

"To anchor these efforts, TNB's carbon management plan focuses on optimising current generation assets to ensure every megawatt carries a lower emissions footprint, reinforcing a practical and immediate pathway towards sustainability," she said at the Sustainability Week Asia 2026 held recently.

While expanding generation capacity is crucial, grid readiness remains the ultimate enabler.

"Under the Incentive-Based Regulation framework, the current Regulatory Period 4 (RP4) allocates RM43 billion for grid investments, which is more than double the previous cycle."

This unprecedented capital commitment underscores TNB's resolve to build a smarter grid capable of managing increased renewable penetration. To further secure this infrastructure, TNB is launching a Battery Energy Storage System (BESS) pilot to mitigate intermittency and enhance overall grid stability.

TNB's energy evolution also serves as a regional anchor, Leo said.

Existing cross-border links already facilitate security of supply, with 1,000MW of connectivity to Singapore and 380MW to Thailand.

In a major step towards the Asean Power Grid (APG), TNB has operationalised Enegem (Energy Exchange Malaysia). This platform facilitates up to 50MW of cross-border green electricity trading, transforming regional integration into a functional and agile ecosystem.

TNB has been actively contributing to the APG, as evidenced by cross-border connectivity projects such as the Vietnam-Malaysia-Singapore, Malaysia-Indonesia, and Malaysia-Sarawak interconnections. – Bernama