

## PRESS RELEASE

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### TNB ACCELERATES COMMITMENT TO 3 NETR FLAGSHIP PROJECTS IN LARGE-SCALE CLEAN TECHNOLOGY AND RENEWABLE ENERGY (RE) ZONES

- Powering the nation, TNB plans to generate 3,000MW RE by 2040 under NETR.
- Leadership in sustainability, co-firing implementation as early as 2024 at selected TNB coal plants.
- Driving renewable growth, TNB's commitment to add 1,200MW domestic RE capacity by 2025.

**Tenaga Nasional Berhad (TNB)** is making substantial strides in its commitment to drive large-scale renewable energy (RE) and clean technology initiatives, spearheading three pivotal flagship projects as outlined in the National Energy Transition Roadmap (NETR).

At a recent analyst briefing for its second-quarter financial results announcement, **Dato' Indera Ir. Baharin Din, TNB President and Chief Executive Officer**, announced TNB's role as the champion behind the Large-Scale Solar Park (LSSP), Hybrid Hydro-Floating Solar (HHFS), and co-firing hydrogen and ammonia projects, all of which are integral to advancing the nation's green agenda while fostering economic growth.

"TNB's Energy Transition Plan aligns with the NETR, emphasizing three key pillars: accelerating generation decarbonization, developing a flexible cross-border grid, and empowering cross-sector electrification and prosumers."

Baharin unveiled TNB's plans to generate a total of 3,000 megawatts (MW) of renewable energy by 2040 within the ambit of its NETR flagship projects. This includes harnessing 2,500MW through innovative hybrid hydro-floating solar (HHFS) technology, alongside an additional 500MW from five distinct LSSPs, with a 100MW capacity each.

#### **Hybrid Hydro-Floating Solar (HHFS)**

"The HHFS project will be executed in four phases from 2023 to 2040, located at TNB hydro dam reservoirs. TNB Power Generation Sdn Bhd (TNB Genco) will lead the construction of a 230MW capacity installation at the Temenggor and Chenderoh hydro plants as part of the 2.5GW pipeline. The project targets completion by 2025."

## **Large-Scale Solar Park (LSSP)**

Baharin disclosed that TNB's New Energy Division (NED) is supporting the Corporate Green Power Programme (CGPP) and is set to generate 90MW when it becomes operational in 2025. The program addresses the growing demand for sustainable energy solutions through LSSPs, complementing existing projects in Sepang, Selangor (50MW), Bukit Selambau (30MW) and Bukit Selambau 2 (50MW) Kedah which is projected to be fully operational by the end of this year.

## **Co-firing Hydrogen and Ammonia**

TNB is partnering with PETRONAS for co-firing hydrogen and ammonia projects and with Mitsui & Chugoku for ammonia and biomass initiatives, aiming to diversify its energy sources. "Small-scale co-firing projects are underway at selected coal plants in Port Dickson, Negeri Sembilan (Jimah East Power), and Lumut, Perak (Manjung 1 and Manjung 4). This Front End Engineering Design (FEED) phase serves as a crucial prerequisite for the co-firing implementation, that we are targeting for specific coal assets."

TNB is on track to achieve its 8.3GW renewable energy (RE) target by 2025. Baharin added, "As of June 2023, we have already achieved 48 per cent of our total target capacity. Including NETR Part 1 projects, we anticipate adding another 1,200MW of domestic RE capacity by 2025. We firmly believe that domestic RE will play a pivotal role in our portfolio, aligning with the nation's objective of reaching 70 per cent installed RE capacity by 2050."

TNB is actively fostering partnerships with regional counterparts to support the realisation of the ASEAN Power Grid (APG). Baharin noted, "We have secured 10 Memorandum of Understanding and Letters of Intent, signifying our commitment to advancing interconnection infrastructure development and renewable energy investments." This underscores TNB's dedication to regional collaboration and sustainable energy progress.

Baharin emphasized that these NETR initiatives would not only contribute significantly to the nation's economy but also to meeting the country's net zero carbon aspiration. He stated, "We take pride in TNB's ability to make significant contributions to the Nation through our participation in pivotal projects while simultaneously ensuring the readiness of our Grid for the challenges of the future."

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TNB President and Chief Executive Officer, Dato' Indera Ir. Baharin Din (centre), TNB Chief Financial Officer, Nazmi Othman (right) and TNB Chief Operating Officer, Datuk Ir. Megat Jalaluddin Megat Hassan (left), during a briefing session for analysts on the Group's second quarter financial results at TNB headquarters in Bangsar on Monday, 4 September 2023.