



PRESS RELEASE

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TNB FORGES STRATEGIC ALLIANCE WITH CHINA'S STATE-OWNED UTILITIES TO REVOLUTIONISE ASEAN POWER GRID WITH HIGH-VOLTAGE DIRECT CURRENT (HVDC) TECHNOLOGY

- HVDC technology promises to revolutionise ASEAN's energy landscape by facilitating seamless power trading, enhancing resource sharing, and accelerating the integration of renewable energy across member countries
- The surging energy demands from burgeoning data centres, coupled with TNB's proactive Grid of the Future (GoTF) initiatives, emerge as key drivers of the ASEAN Power Grid (APG)
- TNB achieved a significant milestone, completing six data centre projects totalling around 292 megawatts (MW), showcasing its ability to meet energy demands and its dedication to sustainable energy solutions.

Tenaga Nasional Berhad (TNB) is spearheading a transformative partnership with China's state-owned power utilities, aiming to revolutionise the APG through cutting-edge high-voltage direct current (HVDC) technology. This strategic move underscores TNB's commitment as a regional energy leader dedicated to advancing sustainable energy solutions.

TNB President and Chief Executive Officer, Dato' Seri Ir. Baharin Din unveiled the ambitious initiative during a recent analyst briefing, emphasizing the pivotal role of HVDC technology in fostering efficient power trading, seamless resource sharing, and the integration of renewable energy (RE) sources among ASEAN nations.

"TNB is at the forefront of pioneering sustainable energy initiatives in the ASEAN region. Our exploration of HVDC technology is a testament to our unwavering commitment to innovation and sustainability. Interconnection using HVDC technology will benefit power trading, resource sharing and RE integration between neighbouring ASEAN countries. We are looking at potentially collaborating with China's state-owned power utilities.

"The potential partnership with China's state-owned utilities on HVDC projects is strategically designed to capitalise on their expertise and experience in developing complex HVDC projects in China and globally. This signifies a milestone in our growth and a testament to our dedication to pushing the boundaries of sustainability and technological innovation," he added.

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As a staunch advocate of the APG, TNB is taking a comprehensive approach to its responsible Energy Transition (ET) journey, recognising the pivotal role of regional interconnections. Baharin reaffirmed TNB's commitment to the APG by revealing that the company has inked 5 Memoranda of Understanding with neighbouring countries, focusing on interconnection and renewable energy generation.

Furthermore, Baharin stressed that the burgeoning energy demand from data centres, coupled with TNB's Grid of the Future (GoTF) efforts, serves as a driving force behind the APG's revolution. Notably, Malaysia is emerging as a focal point for data centre investments in the region, underpinned by increasingly favourable RE policies under the National Energy Transition Roadmap (NETR).

Highlighting TNB's recent milestones, Baharin disclosed the completion of six data centre projects, totalling approximately 292 megawatts (MW) of demand, with two projects commissioned ahead of schedule. He emphasised the strong interest in electricity demand, foreseeing a potential equivalent of over 7,000MW by 2035, solidifying the necessity for TNB's regulated GoTF investments.

Baharin stressed the importance of a flexible grid capable of swiftly accommodating extensive solar installations and facilitating rapid connections within distributed solar networks and energy resources to meet escalating demand. "Our focus lies in delivering NETR project, complementing ET, and prioritizing green, reliable, and affordable power solutions that empower our customers while ensuring national supply security."

TNB's vision extends beyond providing sustainable energy solutions; it encompasses a commitment to the community, stakeholders, and a sustainable future for generations to come.

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About TNB

Tenaga Nasional Berhad (www.tnb.com.my) is a leading Malaysian utility company in Asia with an international presence in the United Kingdom (UK), Australia, Turkiye, Saudi Arabia, Kuwait, Pakistan and Cambodia. Within the renewable energy space, as of December 2023, TNB has a total gross portfolio of 3,119MW in Peninsular Malaysia (including 2,536.1MW of large hydro) and 908MW across the UK, 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 all the electricity in Peninsular Malaysia, Sabah, and the Federal Territory of Labuan. As of 31 December 2023, TNB supplies electricity to approximately 10.9 million customers.

About HVDC

HVDC uses direct current (DC) for electric power transmission, in contrast with the more common alternating current (AC) transmission systems. HVDC lines are commonly used for long-distance power transmission, since they require less conductor and incur fewer power losses than equivalent AC lines. China currently has the longest HVDC link in the world, spanning 1,100 kilovolts (kV) over a distance of 3,300 km with a power capacity of 12 GW.



TNB President and Chief Executive Officer, Dato' Seri Ir. Baharin Din