

Kuala lumpur energy storage systems

Kuala Lumpur, Thursday, 10 October 2024 - Leader Energy Group Berhad ("Leader Energy") via its wholly-owned subsidiary Leader Solar Energy II Sdn Bhd ("LSE II") today signed an agreement with Plus Xnergy Services Sdn Bhd ("Plus Xnergy") to deploy the country's first sodium-sulfur (NaS) battery energy storage system (BESS).

Plus Xnergy will install the 1.45MWh capacity BESS in LSE II's large scale solar (LSS) farm located at Bukit Selambau, Kedah. The groundbreaking system utilises NaS battery technology which has greater energy density and can fully discharge without cell degradation. As a result, it can store more energy in a smaller footprint while having longer life span.

This project is also Malaysia's first utility-scale BESS connected to an operational LSS farm. BESS alleviates intermittency challenges by enabling excess energy from the LSS farm to be stored and discharged as required for a stable and uninterrupted output of energy. This system's scalable design allows for future expansion through a two-layer stacked configuration, further enhancing energy security in a highly efficient manner.

Plus Xnergy Group CEO Ko Chuan Zhen said, "Pioneering this NaS BESS system represents another milestone for us in supporting Malaysia's net zero ambitions. We are pleased with the foresight of Leader Energy in piloting this technology, which has tremendous benefits for our renewable energy industry. The project will contribute to meeting the rising demand for stable renewable energy, particularly with Malaysia emerging as a regional data and cloud centre hub."

Construction of the NaS BESS system will commence in mid-October 2024, with completion expected by the end of the year. Once operational, the system will contribute to an estimated annual carbon avoidance of 126.5 tCO₂e and support Malaysia's net-zero ambitions.

The deployment of BESS encourages integration of renewable energy into the grid and the enhanced energy stability is expected to have significant upside for the economy. BESS ensures a steady power supply, even during peak demand or when generation is low. This not only stabilises the grid but also lowers energy costs in the long run, supporting economic growth. BESS also helps reduce carbon emissions, improve air quality, and create new job opportunities in the renewable energy and technology sectors for the community.

The contract exchange ceremony between Leader Energy and Plus Xnergy was witnessed by Deputy Prime Minister YAB Dato Sri Haji Fadillah bin Haji Yusof and took place at the International Greentech & Eco Products Exhibition & Conference Malaysia (iGEM) 2024 in Kuala Lumpur Convention Centre.

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