Energy storage for renewable energy kuala lumpur

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KUALA LUMPUR (Jan 26): Tenaga Nasional Bhd will kick-start a 400 megawatt-hour (MWh) battery energy storage system (BESS) pilot project in this quarter, marking Malaysia"s first utility-scale battery storage project to address intermittency issues of renewable energy (RE).

The pilot project will be executed by the national utility outfit, operated by Grid System Operator (GSO), and overseen by the Energy Commission, according to the Ministry of Energy Transition and Public Utilities.

"The execution of the pilot BESS project will support the nation"s energy transition aspiration through the strengthening of the electricity supply grid network," the ministry said in a statement in conjunction with the International Day of Clean Energy.

Battery storage is seen as an expensive but necessary new component of the electricity supply infrastructure, as more of power suppliers and consumers opt for renewable energy (RE) such as solar.

The intermittent nature of solar energy, which is only available when the conditions are right, requires battery storage to ensure firm supply of electricity at times when the sun does not shine.

Efforts by the government to introduce battery storage in recent solar projects, such as under the Corporate Green Power Programme (CGPP), have not seen active take-up by developers or offtakers, due to high cost of batteries. It is estimated that a solar project with battery storage could double the tariffs imposed by the project developer to ensure the project is financially viable.

Amid the ongoing push by the government to accelerate RE adoption and concerns around how to fund the costly battery storage installations, questions have been raised over who will undertake and own these infrastructure moving forward -- a new component not seen before in the electricity supply ecosystem.

In a recent interview with The Edge, outgoing TNB president and CEO Datuk Seri Baharin Din said "initial calculations estimate that for 1GW of solar, you require about 500MW of battery storage to be paired with it".

Other countries are similarly seeing BESS installations in recent months, including 40MW in the Philippines at several geothermal sites; a 150MW/300MWh BESS in Texas, US; and a 40MWh BESS in China accompanying a 50MW solar plant near Shannan, Tibet.

Kuala Lumpur, Malaysia, 09 March 2023 – New report confirms Malaysia’s ability to meet its net zero goal with increased use of local and affordable renewables. According to the report’s findings, transitioning to renewable energy will save Malaysia between USD 9 billion and USD 13 billion annually by

2050 in avoided energy, climate, and health costs.

Developed by the International Renewable Energy Agency (IRENA) in collaboration with the Ministry of Natural Resources, Environment and Climate Change (NRECC), Malaysia, the report shows that by aligning its low-emission development strategies with IRENA’s 1.5°C Scenario, the Southeast Asian country can increase its share of renewables to over half its final energy mix by 2050, up from just 5% today.

With its renewed pledge to be carbon neutral by 2050 and expected increase in energy demand due to almost a tripling size of its economy in the same period, Malaysia needs to decide between continuing with fossil fuels or tapping into its significant potential of renewable energy sources. Launched in an official ceremony organised by NRECC in Kuala Lumpur today, the Malaysia Energy Transition Outlook offers a long-term energy pathway to a cleaner and more sustainable energy system.

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