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28 DEC, 2022

NanoMalaysia to implement pilor electric vehicle charger

Borneo Post (Kuching), Malaysia

NanoMalaysia to implement pilor electric vehicle charger

KUALA LUMPUR: NanoMalaysia Bhd (NMB), the leading agency for localisation of electric vehicle (EV) technology development under the Ministry of Science, Technology and Innovation (MOSTI) is piloting an EV charger at Temasya Petronas station located along the Federal Highway in Klang Valley using the RENEW (Renewable Energy Nanogrid) concept powered by clean, renewable energy technology using nano-enhanced solar panels.

The technology development is managed by Nano Commerce Sdn Bhd (NCSB), a wholly-owned subsidiary and business arm of NMB, partnering with a local EV enterprise.

RENEW collectively consists of a fast-charging 50kW EV charger, nano-enhanced solar PV panels, and lithium-ion batteries. The solar PV is enhanced through nano coating supplementing hydrophobic properties allowing greater efficiency during inclement weather. With RENEW additionally powered by solar energy with energy storage capabilities, the system's dependency on grid power is reduced by up to 20 per cent which effectively will assist Malaysia's decarbonisation.

This 18-month trial project is part of NanoMalaysia's Enabling Mobility Electrification for Green Economy (EMERGE) initiative.

EMERGE focuses on developing electric vehicle technologies to support low-carbon mobility through the enhancement and deployment of energy storage and management system, the Internet of Nano-Things and off-grid green charging stations, and building EV prototypes as validation platforms for eventual industrial adoption.

This initiative supports Malaysia's target to reduce carbon intensity against GDP by 45 per cent by 2030 and reach carbon neutrality as early as 2050.

NanoMalaysia has been spearheading the nation's EV technology agenda since 2021, along with other relevant EV technology development programmes such as the NanoMalaysia Energy Storage Technology Initiative (NESTI), Hydrogen EcoNanoMy (HyEN), Rapid Electric Vehicles Innovation Validation Ecosystem (REVIVE) and Campuses for Local Electric Vehicle Expeditious Roll-out (CLEVER).

This strategic collaboration between NanoMalaysia and Petronas Dagangan Berhad aligns with the National Energy Policy 2022-2040 of early-stage public-private initiatives to support charging infrastructures to enable and accommodate EV penetration.
— Bernama

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SUMMARIES

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