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NanoMalaysia pilots EV charger using RENEW concept

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

KUALA LUMPUR: NanoMalaysia Bhd is piloting electric vehicle (EV) charger at Temasya Petronas station located along the Federal Highway in Klang Valley.

The leading agency for localisation of EV technology development under the Ministry of Science, Technology and Innovation said the charger would be using Renewable Energy Nanogrid (RENEW) concept powered by clean, renewable energy technology using nano-enhanced solar panels.

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NanoMalaysia chief executive officer Dr Rezal Khairi Ahmad, said RENEW was a significant milestone that the company was now commercially deploying.

"Importantly, through this project, we are aggressively nudging the country to be at least a regional leader in EV technology and innovation rather than just mere users of imported products.

"Success from this pilot project will strengthen the local EV industry and expedite the government's target to achieve 10,000 EV charging stations in Malaysia by 2025 under the Low Carbon Mobility Development Plan 2021-2030.

"This may increase the percentage of EV numbers towards 38 per cent total industry volume in the country in line with Malaysia's Low Carbon National Aspiration 2040," he said.

RENEW collectively consists of a fast-charging 50 kilowatt (kW) 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 the gross domestic product by 45 per cent by 2030 and reach carbon neutrality as early as 2050.