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## NanoMalaysia pilots EV charging project at Temasya Petronas station

New Straits Times, Malaysia



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### 'RENEW' CONCEPT

# NanoMalaysia pilots EV charging project at Temasya Petronas station

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

NanoMalaysia, the leading agency for localisation of EV technology development under the Science and Technology Ministry, said the charger would use the Renewable Energy Nanogrid (Renew) concept that is powered by renewable energy technology using nano-enhanced solar panels.

The technology development is managed by Nano Commerce Sdn Bhd, a wholly owned subsidiary and business arm of NanoMalaysia, in partnership with a local EV enterprise.

NanoMalaysia chief executive officer Dr Rezal Khairi Ahmad, said Renew was a significant milestone for the agency.

"Importantly, through this project, we are pushing 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 have 10,000 EV charging stations nationwide by 2025 under the Low Carbon Mobility Development Plan 2021-2030.



*NanoMalaysia Bhd chief executive officer Dr Rezal Khairi Ahmad says the agency is pushing the country to be at least a regional leader in electric vehicle technology and innovation.*

"This may raise the EV numbers to 38 per cent of total industry volume, in line with Malaysia's Low Carbon National Aspiration 2040."

Renew consists of a fast-charging 50-kilowatt EV charger, nano-enhanced solar photovoltaic (PV) panels and lithium-ion batteries. The PV panels are enhanced by a nano coating supplementing the hydrophobic properties, allowing for greater efficiency during inclement weather.

With Renew additionally powered by solar energy and having energy storage capabilities, the

system's dependency on grid power is reduced by up to 20 per cent.

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

Emerge focuses on developing EV 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.



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### SUMMARIES

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