

MEDIA RELEASE

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NMB Acknowledges MRANTI Park's Role in Advancing Malaysia's Battery Innovation Ecosystem

Kuala Lumpur, 16 March 2026 – NMB (NanoMalaysia Berhad), a company limited by guarantee under the Ministry of Science, Technology and Innovation (MOSTI) today expressed its appreciation to MRANTI Park for its support and collaboration in enabling the growth of Malaysia's battery innovation ecosystem, particularly through the Hydrogen Energy and Battery Technology (HEBATT) initiative.

With HEBATT concluding its operations at MRANTI Park, NMB took the opportunity to recognise MRANTI's role in supporting the development of advanced battery technologies and strengthening Malaysia's capabilities in energy storage innovation.

Established in 2022, HEBATT is a battery innovation and commercialisation initiative aimed at advancing Malaysia's battery technology capabilities. Operating within the MRANTI Park, the initiative enabled the establishment of a battery laboratory and a pilot production line equipped with core cell manufacturing equipment, including mixing, coating, calendaring, welding, formation, and testing systems, alongside the formation of a specialised technical team focused on cell, module, and battery pack assembly.

Through this platform, NMB and its collaborators successfully translated research outputs into proof-of-concept and prototype battery technologies, including a 3.6V 4Ah pouch cell, an 18V 10Ah graphene-enhanced lithium-ion battery pack, and electrode fabrication for a 36V 10Ah micro-mobility battery system designed for e-scooter applications. Bench simulations and validation testing demonstrated the potential of these technologies for e-mobility applications.

Beyond product development, HEBATT also supported technology diversification and local capability building, including validation work on sodium-ion cathode materials, aluminium-ion battery scale-up, and emerging research in metal-organic framework (MOF) and solid-state battery technologies. The initiative further integrated active-material recycling research to support circular-economy approaches in battery development.

NMB's Chief Executive Officer, Dr Rezal Khairi Ahmad, said: "MRANTI Park has played an important role in nurturing innovation and enabling collaboration between researchers, technology developers and industry partners. The support provided by its ecosystem has enabled the incubation of initiatives like HEBATT to progress from research concepts to tangible prototypes, a crucial step towards commercialisation and the generation of early investment interest. These efforts contribute to strengthening Malaysia's advanced battery technology pipeline and supporting the country's ambitions in mobility electrification, energy storage innovation as a critical component for renewable energy transition and high-value manufacturing."

HEBATT also served as a centre for knowledge exchange and skills development, offering structured training programmes in battery technologies, while achieving key milestones such as successful intellectual property filings covering lithium-ion cathode and anode technologies, sodium-ion cathode synthesis, and MOF battery innovations. One of these initiatives of battery technology development was recognised internationally with a Silver Medal at the International Invention, Innovation & Technology Exhibition (ITEX) 2025.

Strategic collaborations were also established in the ASEAN region, including partnerships with NEU Battery Materials Singapore on developing recycled lithium and with Indonesia's National Battery Research Institute (NBRI) on NMC material innovation, thereby supporting efforts to advance sustainable battery materials and next-generation battery performance.

As NMB continues its journey towards developing Malaysia's gigafactory capabilities, it looks forward to working with partners across government, academia and industry to accelerate the growth of Malaysia's battery ecosystem.

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For media enquiries, kindly contact corporateaffairs@nanomalaysia.com.my