



PRESS RELEASE

MINISTRY OF SCIENCE, TECHNOLOGY AND INNOVATION

MALAYSIA'S FIRST MOBILE HYDROGEN REFUELLING STATION (MHRS) LAUNCHED IN PENINSULAR MALAYSIA

PUTRAJAYA, 09 MAY 2025 - The Launching Ceremony of the Mobile Hydrogen Refuelling Station (MHRS) Development Project was officiated by YB Tuan Chang Lih Kang, Minister of Science, Technology, and Innovation, marking the first pilot project in the hydrogen mobility sector in Peninsular Malays

In alignment with the Hydrogen Economy and Technology Roadmap (HETR), this initiative represents Malaysia's first step towards becoming a leader in the global hydrogen economy. It also aligns with the MADANI Government's aspiration to achieve net zero carbon by 2050, promoting a sustainable and prosperous future.

This project is supported by the Ministry of Science, Technology, and Innovation (MOSTI) through the National Nanotechnology Centre (NNC) and NanoMalaysia Berhad (NMB), in collaboration with PETRONAS Technology Ventures Sdn Bhd (PTVSB), Sime UMW, UMW Toyota Motor Sdn Bhd (UMWT), and the Malaysian Green Technology and Climate Change Corporation (MGTC).

The MHRS project reflects the MADANI value of prosperity (Kesejahteraan) by enhancing the quality of life through clean energy solutions that foster economic growth, environmental health, and social well-being. To proactively stimulate a hydrogen mobility ecosystem, collaboration with hydrogen fuel cell electric vehicle (FCEV) suppliers is essential for technology verification, pilot deployment, and demonstration of hydrogen-powered vehicles. Concurrently, basic infrastructure for FCEV refuelling should be established to accelerate the adoption of hydrogen as a fuel in the transportation and mobility sector.

The successful completion of the MHRS project is the result of a strategic collaboration among hydrogen industry leaders in Malaysia. NMB, as the asset administrator representing MOSTI, is utilizing the MHRS as a testbed for new technologies to explore long-term commercial opportunities. PTVSB supplies hydrogen and oversees the station's engineering, procurement, construction, and

commissioning (EPCC). Sime UMW and UMWT provide three Toyota Mirai hydrogen-powered vehicles and offer essential operational and maintenance services. MGTC conducts a feasibility study on the use of FCEV vehicles on local roads, supported by data from UMWT and the MHRS supplier, Hydrexia Sdn Bhd

Putrajaya, being the Government's administrative centre, provides an ideal setting for the MHRS demonstration due to its well-developed infrastructure, supporting efficient logistics and accessibility for the station. MHRS presents opportunities for pilot deployment of hydrogen-powered public transport, such as buses and taxis, showcasing the technology's feasibility before nationwide expansion. The city's commitment to becoming a low-carbon smart city positions it as an ideal location for hydrogen-powered transport in Malaysia's transition to sustainable energy use in both commercial and private vehicles

The successful launch of the MHRS project will serve as a catalyst for deeper industry engagement, attracting investors, stakeholders, and industry players to actively participate in the development of Malaysia's hydrogen ecosystem. With the global hydrogen market projected to grow significantly over the next decade, the MHRS project positions Malaysia at the forefront of the hydrogen economy. As the market for small hydrogen refuelling stations is forecasted to exceed USD 7.3 billion by 2034, the MHRS sets the stage for further growth, investment, and innovation in Malaysia's clean energy sector.

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Prepared by:

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