MEDIA RELEASE

Ministry of Science, Technology and Innovation
Malaysia's First Mobile Hydrogen Refuelling Station (MHRS) Launched in Peninsular Malaysia
9 May 2025

Launching Ceremony of the Mobile Hydrogen Refueling Station (MHRS) Development Project was officiated by YB Tuan Chang Lih Kang, Minister of Science, Technology and Innovation (MOSTI) as the first pilot project in the hydrogen mobility sector in Peninsular Malaysia.

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

This project 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 support 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 refueling of FCEV should be made available in order to accelerate the use of hydrogen as a fuel in the transportation and mobility sector.

Success completion of the MHRS project results from collaboration among hydrogen industry leaders in Malaysia. NMB, as the asset administrator representing MOSTI, utilises MHRS as a testbed for new technologies towards exploring long-term commercial opportunities. PTVSB supplies hydrogen and overseeing the station's engineering, procurement, construction, and commissioning (EPCC). Sime UMW and UMWT contribute three Toyota Mirai hydrogen-powered vehicles and provide essential operation and maintenance services. MGTC conducts a feasibility study on the use of FCEV vehicles on our 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 demonstration of MHRS due to its well-developed infrastructure to support efficient logistics and accessibility for the station. MHRS offers opportunities for pilot deployment of hydrogen-powered public transport such as buses and taxis, demonstrating the feasibility of the technology before expanding nationwide. The city’s commitment to becoming a low-carbon smart city makes it an ideal location for hydrogen-powered transport in Malaysia’s transition to sustainable energy use in both commercial and private vehicles.

With the global hydrogen market projected to grow significantly over the next decade, the successful launch of the MHRS 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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