

21 October 2025

ITM Power plc

Launch of ALPHA 50 - a new global standard for execution at scale

ITM is proud to unveil ALPHA 50, our new flagship 50MW full-scope green hydrogen plant designed to set a new global benchmark in scalable, cost-effective hydrogen production. Powered by our proven and leading stack technology, ALPHA 50 is fully skid-mounted, prefabricated and standardised. It consolidates central process units and offers in-built redundancy for key components to maximise plant uptime.

With its compact footprint, ALPHA 50 can be easily configured into larger plants. It is capable of being deployed globally. Needing only tap water and electricity, ALPHA 50 reliably provides high-purity hydrogen at 30 bar pressure.

ALPHA 50 is designed for outdoor installation and can cope with the widest ambient temperature range, minimising construction and civil works. Offering superior energy efficiency and capable of load changes within seconds, ALPHA 50 maximises hydrogen production.

Now available to customers, ALPHA 50 offers unmatched value. The full-scope plant is priced at €50m; substantially more competitive than any comparable solution, regardless of technology or provider.

Dennis Schulz, CEO, said: "Our containerised 5MW plant NEPTUNE V redefined how mid-size projects are executed today. It's now time to disrupt how large-scale projects are deployed. ALPHA 50 makes available our high-performing and proven technology in the most competitive full-scope solution for large-scale projects. ALPHA 50 will transform the industry and set a new standard for execution at scale."

For further information, please visit www.itm-power.com or contact:

ITM Power plc

Justin Scarborough, Head of Investor Relations +44 (0)114 551 1080

Berenberg

Ciaran Walsh, Harry Nicholas +44 (0)20 3207 7800

J.P. Morgan Cazenove

Richard Perelman, Charles Oakes +44 (0)20 7742 4000

About ITM Power plc:

ITM Power was founded in 2000 and ITM Power plc was admitted to the AIM of the London Stock Exchange in 2004. Headquartered in Sheffield, England, ITM Power designs and manufactures electrolyzers based on proton exchange membrane (PEM) technology to produce green hydrogen, the only net zero energy gas, using renewable electricity and water.

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