

PRESS RELEASE:

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WinGD and Hyundai Heavy Industries collaborate on ammonia two-stroke engine development

WinGD and Hyundai Heavy Industries' Engine Machinery Division (EMD) are to collaborate on delivering the first WinGD engine capable of running on ammonia, providing a vital step in shipping's progress towards decarbonisation.

Under an MOU (Memo of Understanding) signed during the Posidonia exhibition on 7 June, the two parties will aim to deliver a first engine by 2025, in line with WinGD's previously announced timeframe for bringing ammonia engines to market. The project will explore ammonia concepts for both diesel-fuelled WinGD X-type engines and dual-fuel LNG X-DF engines.

Dominik Schneider, VP R&D, WinGD said: "This project will give WinGD and HHI an important advantage in the development of ammonia-fuelled marine engines. It will set the path for a new generation of two-stroke engine technology applicable to a wide range of cargo vessels in the coming decades."

Kwang-Hean An, President COO, EMD said: "There is strong market demand for commercialised ammonia-powered vessels in the near future. This collaboration with WinGD will ensure that EMD is ready to support that demand with the required engine technologies."

The project will include developing relevant safety, emissions abatement and fuel supply solutions for ammonia engines targeting the local market.

Ammonia is a hydrogen based zero-carbon fuel that can be produced with no greenhouse gas emissions using renewable electricity. It is likely to have an important role in the decarbonisation of shipping, particularly in deep-sea shipping where net-zero carbon fuel options with the required energy density for feasible onboard storage are limited.

Ammonia-fuelled engines will join WinGD's solutions ecosystem designed to help ship owners and operators decarbonise their vessels. Alongside its multi-fuel engines WinGD has developed a range of optimisation solutions, including hybrid power system integration and state-of-the-art digital optimisation systems, to minimise fuel costs and provide operational flexibility.

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WinGD in brief

WinGD advances the decarbonisation of marine transportation through sustainable energy systems using the most advanced technologies in emissions reduction, fuel efficiency, hybridisation and digital optimisation. With their two-stroke low-speed engines at the heart of the power equation, WinGD sets the industry standard for reliability, safety, efficiency and environmental design, backed by a global network of service and support. Headquartered in Winterthur, Switzerland since its origin as the Sulzer Diesel Engine business in 1893, today it is powering the transformation to a sustainable future.

WinGD is a CSSC Group company.

For more information visit: www.wingd.com