PRESS RELEASE

WinGD and Hanwha Engine strengthen partnership to advance new engine roll-out

WINTERTHUR, SWITZERLAND (November 20, 2026)

Swiss marine power company WinGD has signed a collaboration agreement with Korean engine builder Hanwha Engine to prepare new engine technologies for production and commercial deployment. The agreement will mainly focus on WinGD's new high-pressure dual-fuel LNG engine, X-DF-HP – targeting large container ship newbuilds - and its X-DF-P dual-fuel LPG engine concept, suited to very large gas carriers.

The agreement was signed during a ceremony at Hanwha's engine production facility in Changwon, Korea on November 13. Building on the long-standing business relationship between the two companies, the agreement provides a framework for cooperation on specific engine projects and related technical aspects. The companies will also discuss key details related to the requirements for LNG carrier newbuild projects involving WinGD's market-leading X72DF-2.2 engine

As regulatory uncertainty extends shipping's energy transition, LNG and LPG are two examples of fuels that can help owners and operators manage the transition affordably. While the X-DF-HP can use bio- or e-methane without modification, the X-DF-P engine for LPG requires only a minor adaptation to run on carbon-neutral ammonia fuel, with the same performance as WinGD's X-DF-A ammonia engines already in service.

As well as fuel flexibility, both platforms offer ease of integration with existing standard vessel designs, using commonly deployed interfaces that simplify installation and commissioning. In the case of X-DF-HP, this is achieved while maintaining a far lower fuel gas supply pressure than other similar engines; for the X-DF-P it is achieved while maintaining the flexibility for a straightforward conversion to ammonia fuel. The collaboration with Hanwha will ensure these advantages are fully realized in early engine builds.

Close collaboration with engine builders, shipyards and ship owners is a fundamental element of WinGD's technology development approach and has been instrumental in the successful introduction of the X-DF-M methanol and ethanol engine platform and the X-DF-A ammonia-fueled engine, both of which are now in service.

WinGD Director Sales, Volkmar Galke said: "This agreement builds on an already fruitful working relationship to deliver the choice shipowners will need during the transition to net-zero emissions. Our latest LNG concept is designed to slot into standard designs for high-powered vessels, while our LPG engine minimizes lifecycle costs with straightforward conversion for ammonia fuel when needed. Both exemplify WinGD's engineering approach to delivering cost-effective fuel flexibility across all deep-sea vessel segments, and the steadfast support of partners like Hanwha is vitally important to that goal."

Hanwha Engine Head of Engine Business, Mr. Changho Hong said: "Through this collaboration, we aim to offer a wider range of options to shipyards and shipowners when selecting the engines that will power their fleets for decades to come. Working closely with WinGD will allow us to offer

a tailored engine for each customer's needs. We look forward to strengthening the long-standing cooperation between our two companies even further."

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Media Contact:
Kami Paulson
Head of Client Communications
Knights Media and Public Relations #knightsmpr
E-mail: kami@knightsmpr.com
Tel.: +44 7947 697 653

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 - supported by Global Service by WinGD, which delivers tailored 24X7 lifecycle engine support through Swiss engineering excellence, dependable maintenance, rapid global response, and genuine parts to keep engines performing at their best.

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.

For more information visit: www.wingd.com
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