



YANMAR

News Release

July 23, 2025

Yanmar Holdings Co., Ltd.

Passenger Ship HANARIA Equipped with Yanmar's Maritime Hydrogen Fuel Cell System Wins Marine Engineering of the Year 2024



Ceremony for the Marine Engineering of the Year 2024

Osaka, Japan (July 23, 2025) — The passenger vessel HANARIA, equipped with Yanmar Power Technology Co., Ltd.'s GH240FC maritime hydrogen fuel cell system, has received the Marine Engineering of the Year 2024 (Dokou Memorial Award). The honor is awarded by the Japan Institute of Marine Engineering for outstanding technological innovation in the field. This year, the award recognized four companies: MOL Techno-Trade, Ltd., HONGAWARA Ship Yard Co., Ltd., Toyota Motor Corporation, and Yanmar Power Technology, a subsidiary of Yanmar Holdings.

HANARIA is Japan's first hybrid passenger ship powered by both hydrogen and biodiesel. Operated by MOL Techno-Trade, Ltd., the vessel features Yanmar's first maritime hydrogen fuel cell system, a proprietary lithium-ion battery system developed by Yanmar, and an integrated management system that controls all onboard power. It features two operating modes: a zero-emission mode using only hydrogen fuel cell systems and lithium-ion batteries, and a hybrid mode that combines hydrogen fuel cells, lithium-ion batteries, and a biodiesel generator running in parallel.

The onboard systems aim to reduce the environmental footprint of vessels—a challenge in the hard-to-electrify maritime sector—while also enhancing passenger comfort by significantly cutting noise, vibration and exhaust odor.

Furthermore, HANARIA has been selected for the “Ship of the Year 2024,” an award presented by the Japan Society of Naval Architects and Ocean Engineers that recognizes vessels demonstrating technical, artistic, and social excellence. This marks the first time in history that a vessel has received both the "Marine Engineering of the Year" and the "Ship of the Year" awards.

The Yanmar Group continues to advance its sustainability goals through its YANMAR GREEN CHALLENGE 2050 initiative and remains committed to providing decarbonization solutions that meet customer needs.

References:

Press release (November 9, 2023): Yanmar Makes First Delivery of Maritime Hydrogen Fuel Cell System to Hybrid Passenger Ship

<https://www.yanmar.com/global/marinecommercial/news/2023/11/09/130776.html>

Press release (July 9, 2025): Yanmar Maritime Hydrogen Fuel Cell System Wins Red Dot Design Award 2025

<https://www.yanmar.com/global/news/2025/07/09/154079.html>

About Yanmar

With beginnings in Osaka, Japan, in 1912, Yanmar was the first ever to succeed in making a compact diesel engine of a practical size in 1933. A pioneer in diesel engine technology, Yanmar is a global innovator in a wide range of industrial equipment, from small and large engines, agricultural machinery and facilities, construction equipment, energy systems, marine, to machine tools, and components — Yanmar’s global business operations span seven domains. On land, at sea, and in the city, Yanmar provides advanced solutions to the challenges customers face, towards realizing A Sustainable Future. For more details, please visit the official website of Yanmar Holdings Co., Ltd. <https://www.yanmar.com/global/about/>

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