



**YANMAR**

News Release

January 19, 2024

Yanmar Holdings Co., Ltd.

# Yanmar Power Technology Secures Japan's First Approval in Principle for Maritime Hydrogen Fuel Cell System



Maritime Hydrogen Fuel Cell System (300kW)

Osaka, Japan (January 19, 2024) – Yanmar Power Technology Co., Ltd. (Yanmar PT), a subsidiary of Yanmar Holdings, has achieved a significant milestone as the first company in Japan\* to receive the Approval in Principle (AiP) for its "Maritime Hydrogen Fuel Cell System" from Nippon Kaiji Kyokai (ClassNK), a prominent Japanese maritime association.

The primary objective of this system is to advance the use of zero-emission ships in the maritime sector, effectively eliminating emissions such as CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>x</sub>, PM, and others. The design emphasizes ease of installation, with a configuration that seamlessly integrates key auxiliary components like gas valve units into the system housing. Additionally, the system's capability for parallel connection of multiple units and flexibility in adjusting the number of installed modules in its housing allow it to cater to diverse ship output requirements.

Both the system and its installed modules have successfully met the prescribed requirements for fuel cell power systems based on ClassNK's "Guidelines for Fuel Cell Ships (2nd Edition)." This confirmation follows test results conducted in accordance with relevant standards.

Yanmar PT proposed this innovative system to a range of vessels, including passenger ships, workboats, and cargo ships, that operate in coastal areas with access to hydrogen infrastructure. This development marks a significant step towards sustainable and environmentally friendly maritime solutions.



AiP Certificate Award Ceremony

Left: Toshiyuki Shigemi, Senior Executive Vice President, ClassNK;

Right: Masaru Hirose, Director, General Manager of Large Power Products Business, Yanmar PT

\*As of January 17, 2024. First AiP of a maritime hydrogen fuel cell system by ClassNK.

## 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/>

Note: Information contained in the news release is valid at the time of publication and may differ from the most recently available information.

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