Action for

Marine Logistics & Transportation

Providing propulsion systems that are environmentally friendly and economically efficient

Action report

Completion of Japan's first commercial electronically controlled gas injection diesel engine (ME-GI) that burns LNG

As a marine logistics professional that understands the entire global supply chain, we are expected to have a view upon which we collectively consider economic efficiency and environmental performance. We started with the evolution of the marine diesel engine. There is a growing interest in natural gas as a marine fuel alternative to heavy oil because it allows for a significant reduction in emission of sulfur oxide (SOx) and CO_2, and it is expected to help reduce emissions of nitrogen oxide (NOx) and particulate matter (PM). MES has established a system for responding to diverse fuel needs with engines such as the ME-GI (LNG and heavy oil), ME-GI-Ethane (ethane and heavy oil), and ME-LGI (methanol and heavy oil). In October 2015, we completed Japan's first commercial ME-GI. In addition, we are the first in the world to create a form of operation that combines ME-GI and fuel gas supply system (FGSS) compressor. Moving forward, we will continue to tackle these kinds of challenges.

Building a crank shaft into a marine diesel engine / Tamano Works, Okayama Prefecture