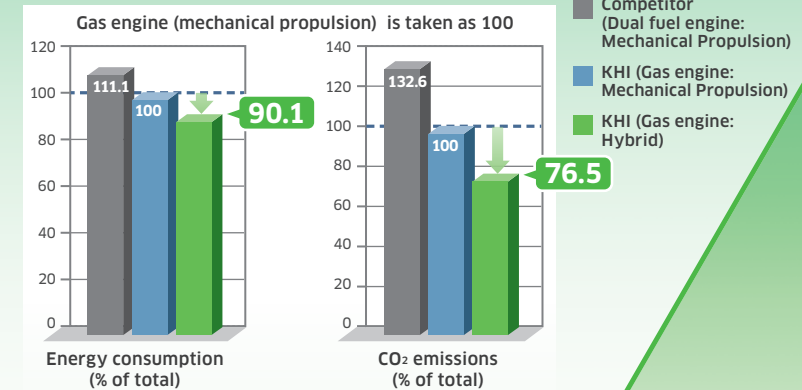


# Kawasaki Electric and Hybrid Propulsion Systems

Integrated system for ship propulsion and power supply can achieve major reductions in energy consumption and CO<sub>2</sub> emissions

Reduced CO<sub>2</sub>, as well as reduced energy consumption for propulsion and hotel load, can be achieved by the highly integrated propulsion system packaged with attractive marine machinery products such as gas engines, batteries, lithium-ion capacitors, and power conversion module, etc.

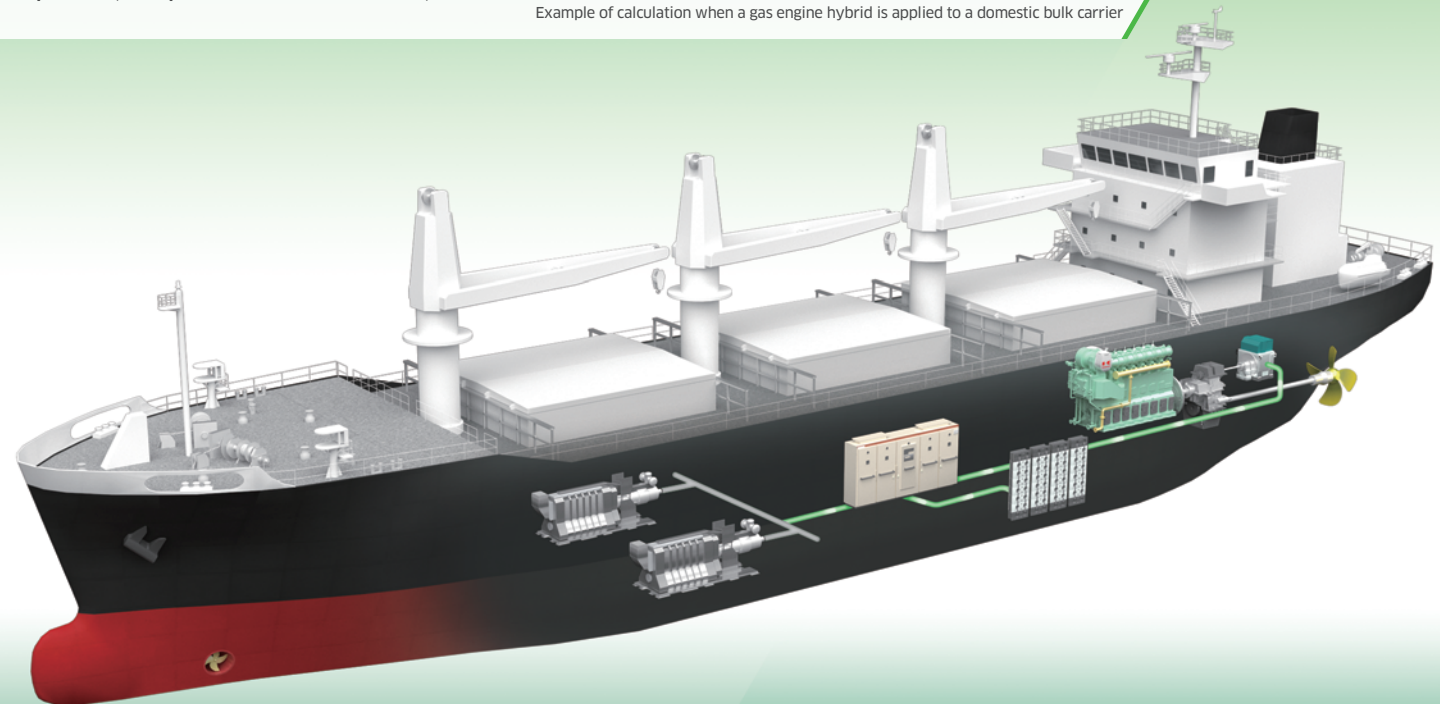


Example of calculation when a gas engine hybrid is applied to a domestic bulk carrier



**2024**  
 Kawasaki  
 Ecological Frontiers  
 S class

Initial registration: 2021



## Product Description

The system can offer significant efficiency improvement and lower emissions by switching various power sources according to ship operation, such as zero-emission battery propulsion when entering or leaving port, and mechanical propulsion with an focus on propulsion efficiency when cruising.

## Features

- The most optimal equipment configuration (main engine, main generator, battery, propeller, etc.) and specifications are available according to vessel size, application, and operational profile
- Integration of all components including energy management system can enhance vessel performance
- The system configuration may consist of future energy devices such as hydrogen engines and fuel cells