

LNG Floating Power Plant

A floating power plant which has realized power supply with lower environmental impact owing to its high electrical efficiency

Equipped with its own gas engine or combined cycle power plant (CCPP), each of which has achieved world leading level electrical efficiency and low NOx emission in its class, Kawasaki LNG Floating Power Plant can realize power supply with low CO₂ emission using LNG as fuel in regions where relevant infrastructure is insufficient.

Gas Engine

Electrical Efficiency at generator terminal (Engine Unit Only)	NOx Emission
49.5%	300ppm or less (@0%O ₂)

CCPP

Electrical Efficiency at generator terminal	NOx Emission
53.1%	52.5ppm or less (@0%O ₂)



Product Description

Kawasaki LNG Floating Power Plant is an integrated floating power generation plant which supplies power fueled by LNG with low environmental impact to island countries not having large-scale power grids or LNG terminals.

- Power generation capacity -

Gas Engine: 30 MW

CCPP: 80 MW

Kawasaki LNG Floating Power Plant is "All-in-One" system equipped with LNG receiving facilities, LNG storage tanks, fuel gas supply system, power generators and switchyard. In October 2019, Kawasaki obtained Approval in Principle (AiP) from DNV GL

Features

- Site acquisition, which is a matter in case of constructing power plants onshore side, is not required, because electric power is supplied from Kawasaki LNG Floating Power Plant located on sea side through onshore transmission network
- Flexible operation (emergency power supply in times of disaster, etc.) is realized by towing transport. Also, Kawasaki LNG Floating Power Plant is resistant to tsunami
- Long-term LNG storage performance is guaranteed by adopting aluminum alloy LNG tanks and relevant facilities, which has been used in LNG carriers for many years