Kawasaki
Powering your potential

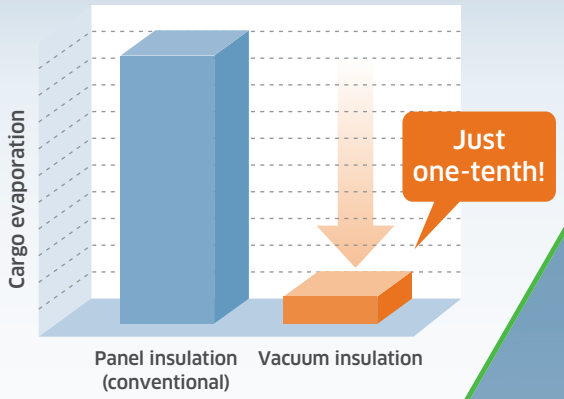
Vacuum insulated double wall tank system for liquefied hydrogen carriers

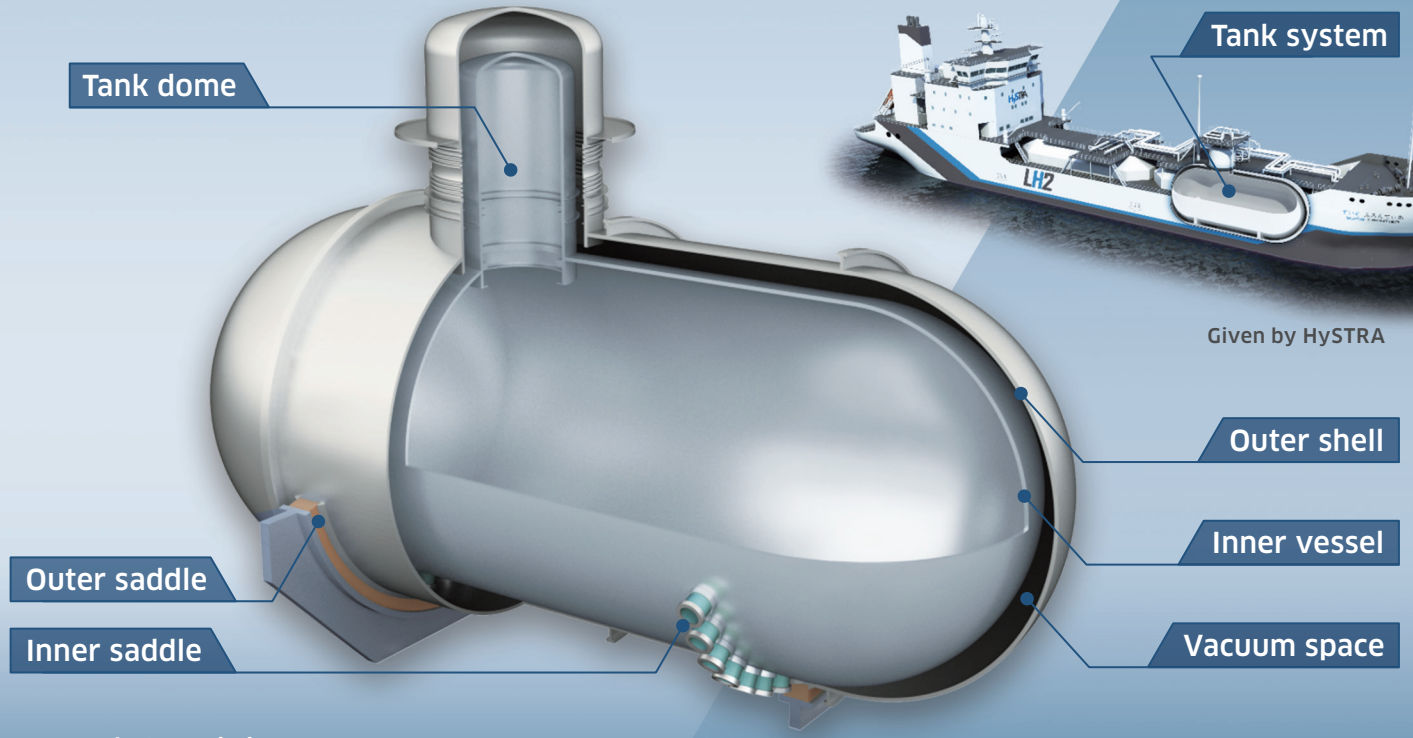
2022
Kawasaki
Ecological Frontiers
S class

Kawasaki Heavy Industries, Ltd.

Insulation performance highly enhanced

Heat input drastically reduced by vacuum insulation.
Cargo evaporation reduced to 1/10 compared with conventional liquefied gas carrier.





Given by HySTRA

Product Description

World's first liquefied hydrogen tank for marine transportation, mounted on the liquefied hydrogen carrier "Suiso Frontier"
Tank Capacity : 1,250 m^3

Features

- Double wall structure consisting of inner vessel and outer shell
- Austenitic stainless steel suitable for cryogenic and hydrogen environments is adopted
- GFRP* with low thermal conductivity is used for inner saddle
- Pressure accumulation tank type allows transport without emission of boil-off gas
- A mechanism to absorb the relative displacement due to a temperature difference of 300℃ between inner and outer

*GFRP: Glass Fiber Reinforced Plastic