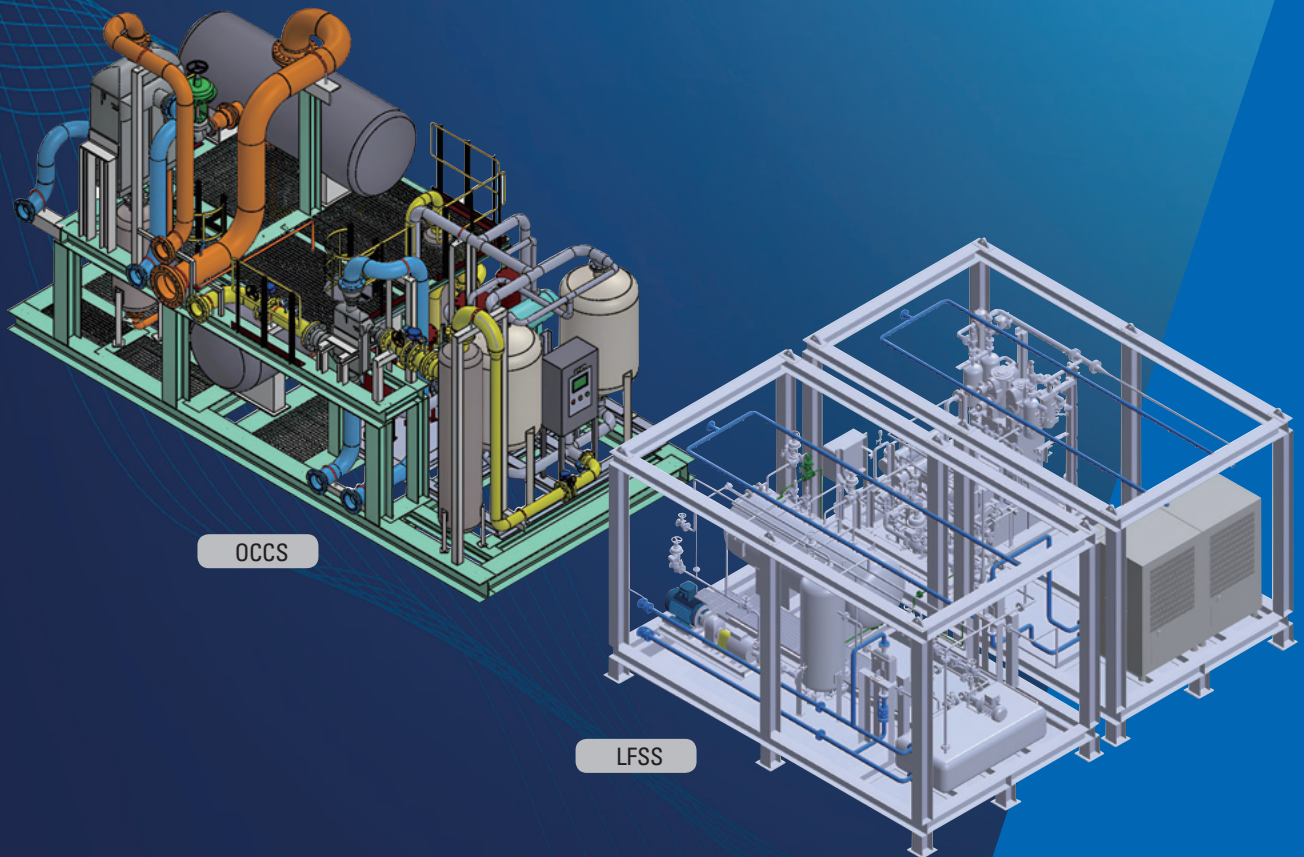


▶ **First Mover** for low carbon and green energy technologies

C02 Emission Solution

- On-board Carbon Capture System [OCCS]
- NH3 Fuel Supply & Re-liquefaction System [LFSS]



CO2 Emission Solution

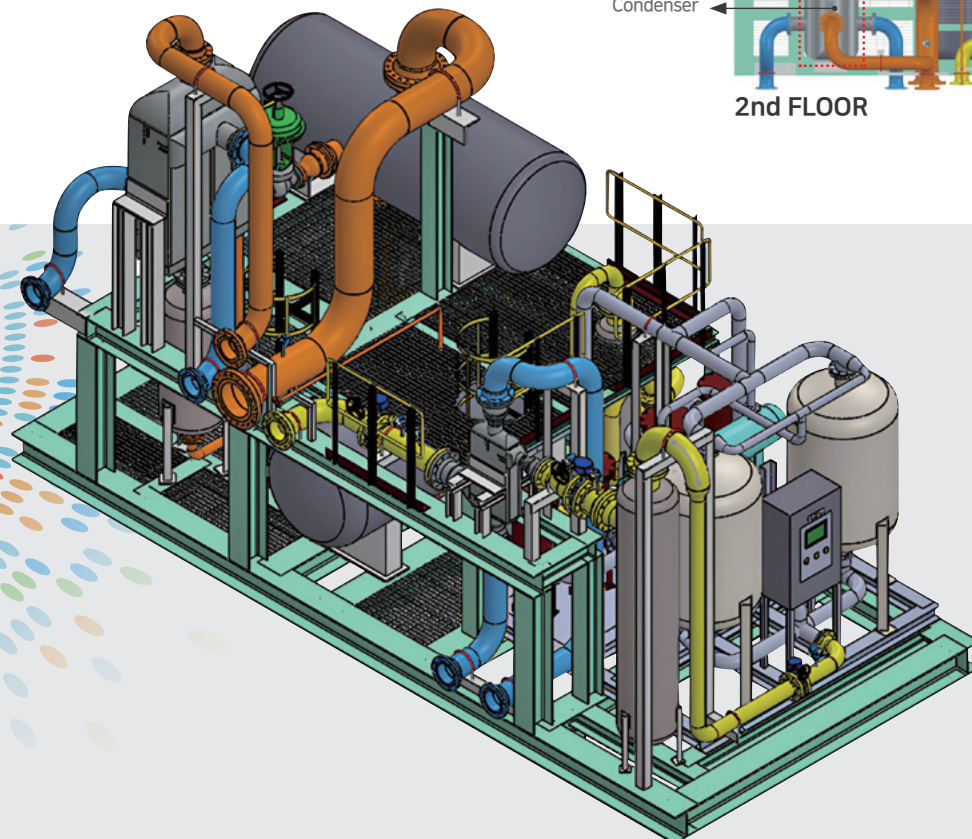
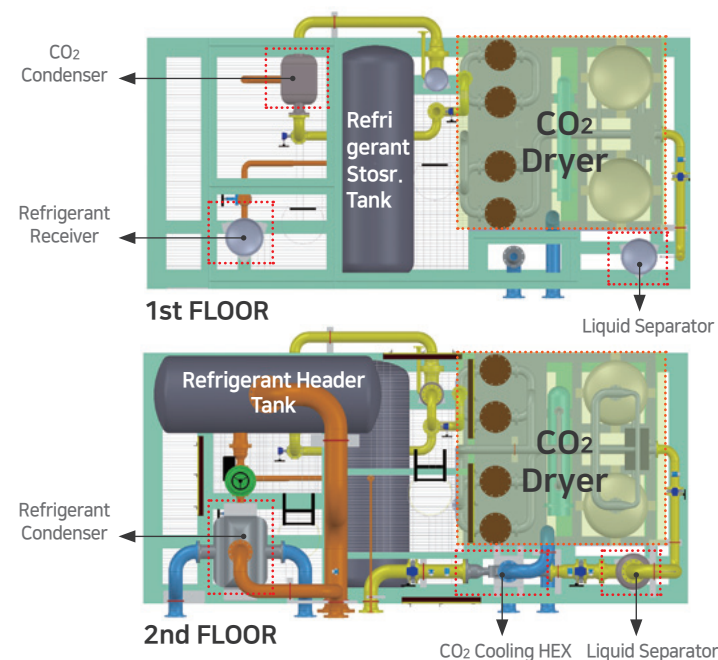
On-board Carbon Capture System [OCCS]

The system is designed to capture, liquefy and store CO₂ among exhaust gases generated from ships. In preparation for the CO₂ emission regulations, this system can capture and store all CO₂ emissions from ships as CO₂ emissions should be reduced 100% until 2050 versus 2008.

Stored CO₂ can be used for food and beverage, medical and chemical purposes based on its purity.

Main Equipment

- CO₂ Condenser (Shell & Plate or PCHE)
- Refrigerant Condenser (Shell & Plate or PCHE)
- CO₂ Compressor (Option)
- Refrigerant Compressor (Option)
- Dryer

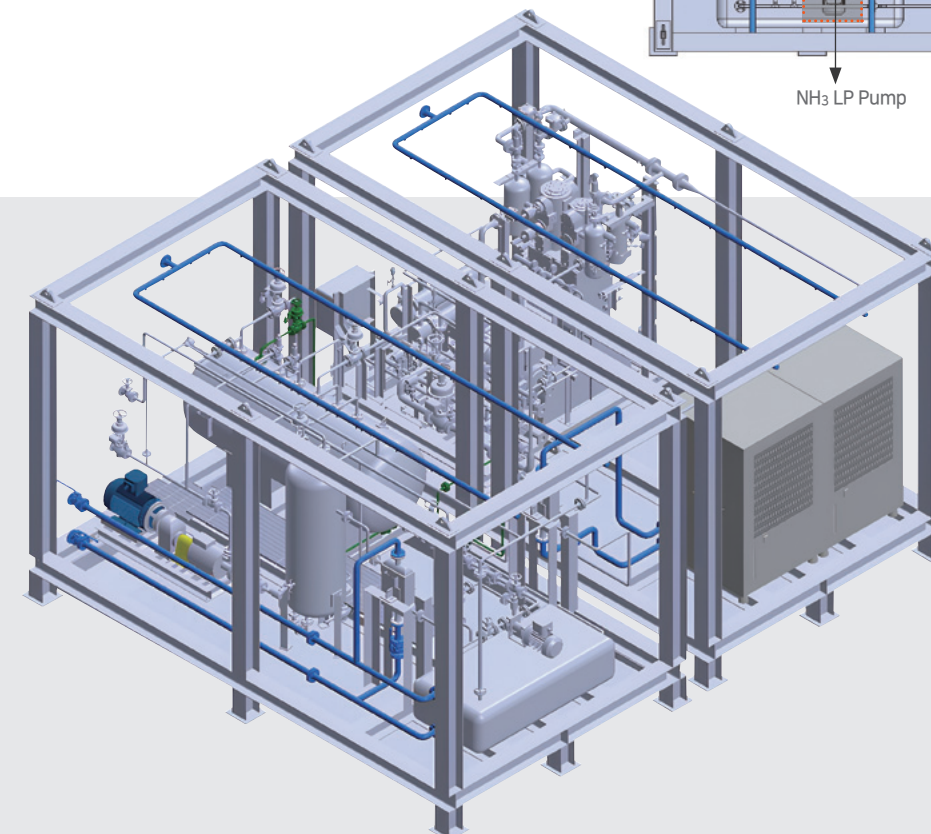
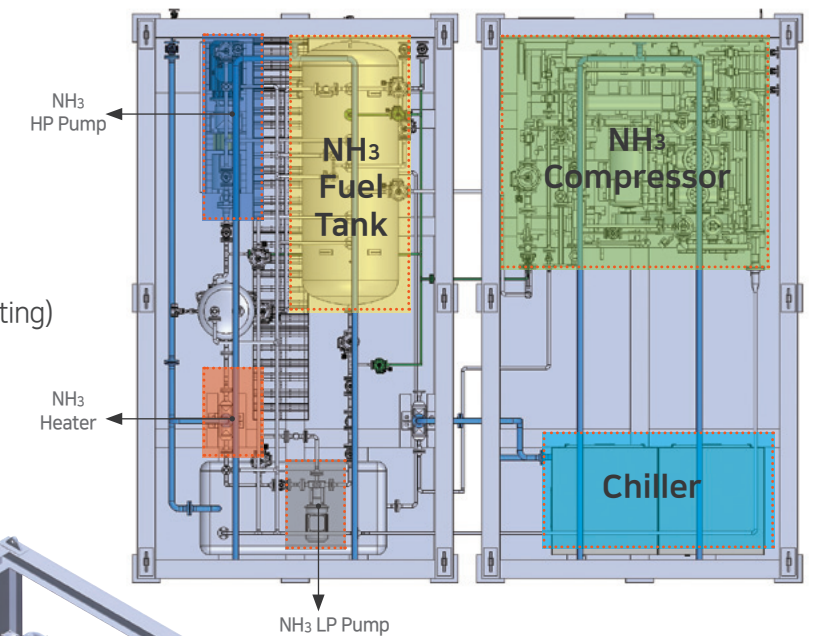


NH₃ Fuel Supply & Re-liquefaction System [LFSS]

This system is designed to meet the engine requirements for ammonia to be used as fuel for ships and supply ammonia by controlling its temperature, pressure and flow. Ammonia is the only carbon-free fuel except hydrogen but should be handled with care due to its toxicity and corrosiveness. With ammonia's boiling point at -33.4°C based on the atmospheric pressure, if it is not stored above about 9bar.G, it continues to vaporize due to outdoor temperature to generate BOG(Boil-Off Gas). A re-liquefaction system may be required to re-liquefy and recover ammonia to a storage tank using an ammonia compressor for its stable recovery.

Main Equipment

- LP & HP Pump
- NH₃ Heater (Shell & Plate or PCHE)
- NH₃ Compressor (Oil-Free Reciprocating)
- Dilution Tank



First Mover for low carbon and green energy technologies

DongHwa Entec

DONGHWA ENTEC CO., LTD.

Noksan Office and Factory



7, Noksansandan 261-ro, Gangseo-gu, Busan, Korea
T. +82-51-970-1000 / F. +82-51-970-1001

Hwajeon Office and Factory



20, Hwajeonsandan 1-ro, 63beon-gil, Gangseo-gu, Busan, Korea
T. +82-51-970-1100 / F. +82-51-970-1105

R & D Center



7, Gwahaksandan-ro, 305beon-gil, Gangseo-gu, Busan, Korea
T. +82-51-970-0711 / F. +82-51-970-0730

SUBSIDIARY COMPANY

DongHwa Pneutec



75, Mieumsandan-ro, 8beon-gil, Gangseo-gu, Busan, Korea
T. +82-51-974-4800 / F. +82-51-974-4899

DongHwa Hytec



20, Hwajeonsandan 1-ro, 63beon-gil, Gangseo-gu, Busan, Korea
T. +82-51-970-1370 / F. +82-51-970-1380

DongHwa Entec(Jiangsu) Co.,Ltd.



No.268, Jin Qiao West Roda, Tongzhou District, Nan Tong City, Jiangsu Province
T. +86-8659-6689

DongHwa Entec(Shanghai) Co., Ltd.



Room 404, Building No. B4, Lane 9 North Yunjuan Road, Lingang District, Shanghai, China 201306 / T. +86(0)21-5197-5001