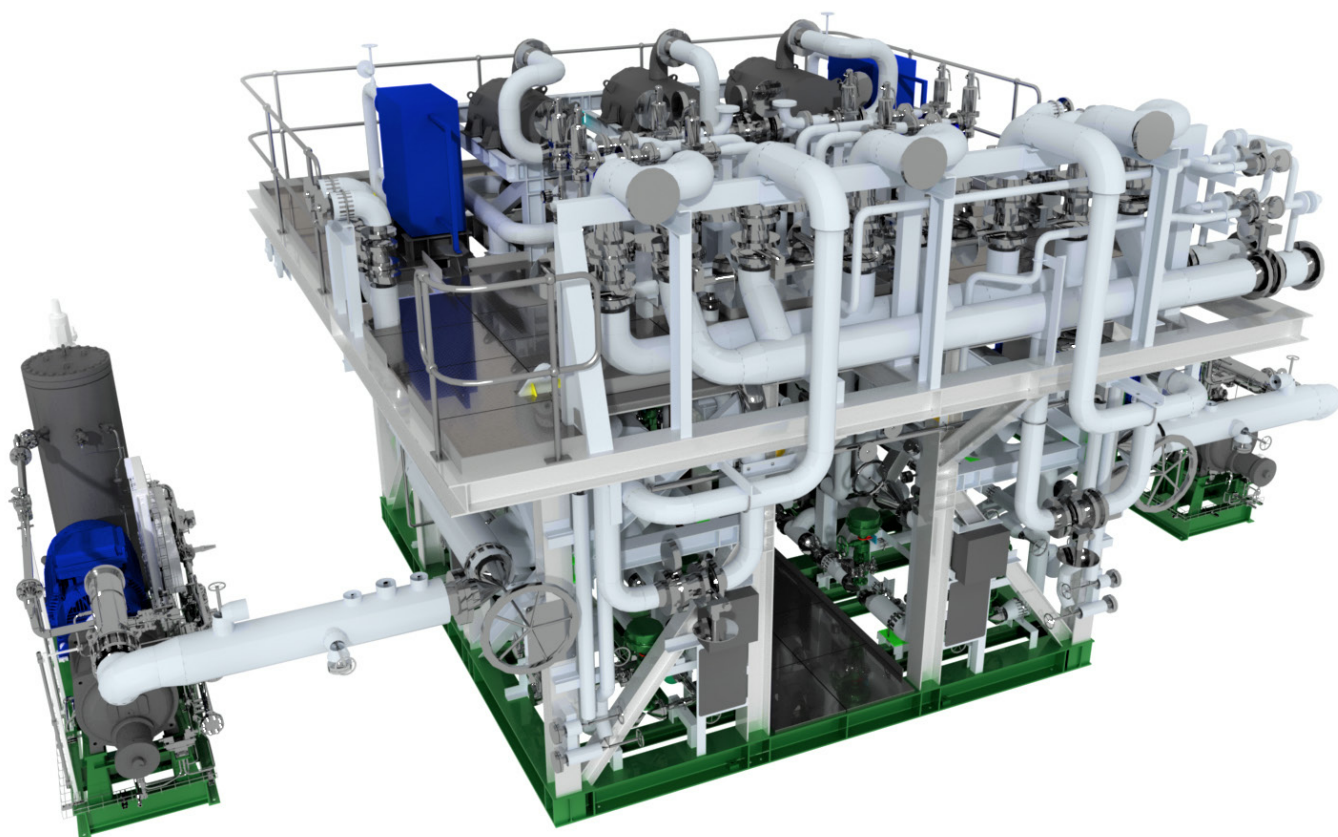




ecoCO2®

**Marine CO₂ transportation. Flexible integration.
Engineered around the project.**

Babcock LGE is a world-leading provider of cargo handling and fuel gas supply systems for the liquefied gas markets. Our environmentally focused technologies improve efficiency and enhance performance, delivering value to customers throughout the vessel's lifetime.

ecoCO2® is Babcock LGE's cargo handling, conditioning and reliquefaction system for the marine transportation of refrigerated liquid CO₂. It is engineered for the requirements of the complete CCUS transport chain. The system can be configured for different vessel designs, cargo conditions, transportation pressures and terminal interfaces.

CO₂ cargo management:

Engineered to safely load, condition, transport and discharge refrigerated liquid CO₂ while maintaining the required cargo pressure, temperature and quality.

Multi-cargo capability:

Creates potential for CO₂, LPG, ammonia, ethane and ethylene transport, increasing trade optionality while dedicated CO₂ routes mature.

Proven engineering:

Uses standardised, field-proven components where possible to support operational safety, integrity and maintainability.

Project specific integration:

Loading, voyage duration, cargo composition, storage and discharge are considered together when defining the system.

Flexible vessel design:

Supports different tank capacities, geometries, pressure and vessel configurations.

Terminal and transport chain flexibility:

Cargo system architecture can be matched to different capture, loading, shipping, receiving and discharge conditions across the wider CCUS chain.

Flexible trading

ecoCO2® starts with the conditions the project needs to connect. Loading terminal requirements, voyage duration, cargo composition, storage conditions, discharge parameters and required volume are considered together to define the cargo-handling and reliquefaction architecture.

The result is a vessel engineered as part of the complete CCUS logistics system.

Understand the interfaces. Engineer the connection.

Low-pressure CO₂. Multi-gas capability. Commercially proven.

The world's first cargo handling and reliquefaction architecture for a low-pressure CO₂ cargo tank design, developed for large-scale refrigerated CO₂ transportation.

The system architecture can support CO₂, LPG and ammonia, creating greater trading optionality while CO₂ trade routes develop.

Proven commercial progression with Lloyd's Register Approval in Principle in 2023. First contract in 2023. First vessel gas trial in 2025, and commercial deployment in 2026.

22,000m³ – first commercial ecoCO2® vessel

Delivering value

ecoCO2® connects the vessel to the wider CCUS value chain by engineering the interfaces between capture, shipping and storage. Flexible system architecture helps customers meet the requirements of individual projects while retaining options as the CO₂ transport market develops.

Connect capture to storage without making the ship the constraint.

Contact us:

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