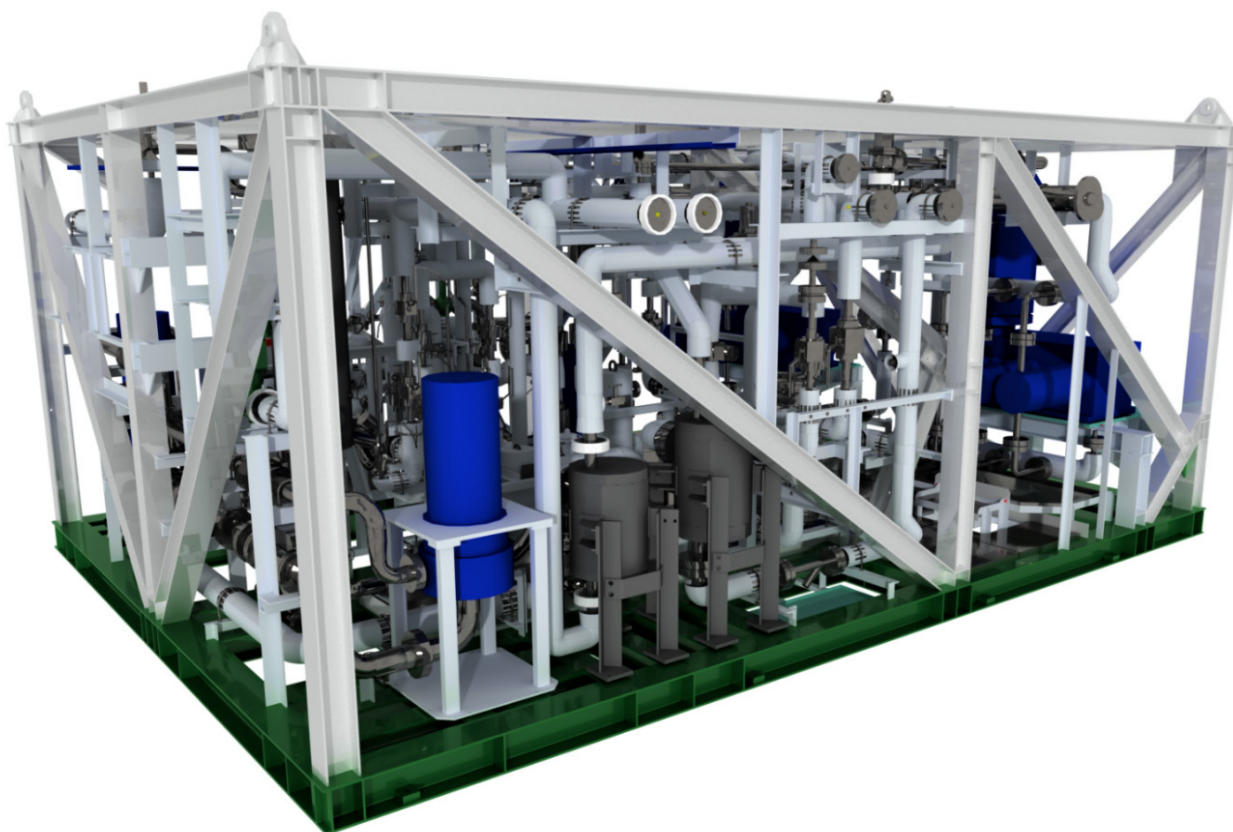




ecoFGSS-FLEX[®] with ecoVARs[®]

**Proven LPG capability. Practical ammonia capability.
Adaptable by design.**

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.

ecoFGSS-FLEX[®] extends Babcock LGE's established fuel-gas engineering into ammonia. Built on proven ecoFGSS[®] architecture and more than 50 years of ammonia-handling experience, it provides a safe and adaptable route to ammonia-fuelled propulsion, while retaining flexibility as fuel requirements evolve.

Ammonia capability:

Conditions and delivers ammonia safely to dual-fuel engines as part of an integrated vessel fuel system.

Fuel optionality:

Keeps the vessel's fuel pathway open as ammonia availability, infrastructure and operating requirements develop.

Engine integration:

Developed in collaboration with ammonia dual-fuel engine manufacturers around propulsion system requirements.

Proven engineering foundation:

Builds on ecoFGSS[®] LPG architecture and more than 50 years of ammonia-handling experience.

Safety by design:

Containment, isolation, conditioning and release management are considered together around the behaviour of ammonia.

Ammonia recovery with ecoVARs[®]:

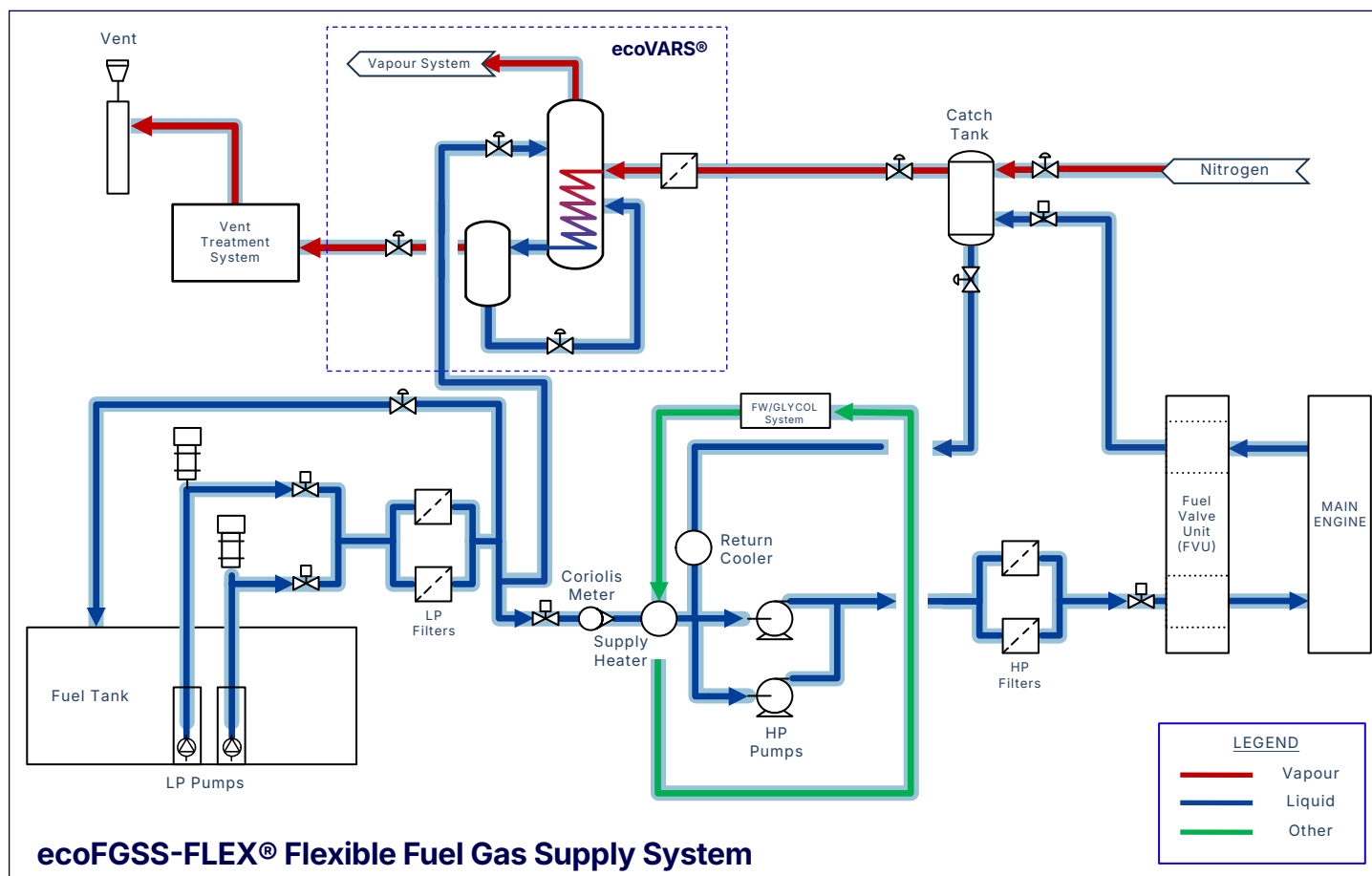
Can recover up to 90% of ammonia vapour that would otherwise be vented during engine purging.

How it works

ecoFGSS-FLEX® builds on Babcock LGE's established ecoFGSS® architecture and applies the additional conditioning, containment and release-management requirements created by ammonia. The system is engineered from fuel storage through to the engine interface, integrating the vessel systems required for safe ammonia operation.

Babcock LGE's Vented Ammonia Recovery System ecoVARs® can be integrated with ecoFGSS-FLEX® to recover vapour generated during engine purging and return it to the fuel storage tank, reducing the amount requiring downstream treatment or discharge.

Proven fuel-system principles. Applied to a more demanding molecule.



Ammonia purge gas treatment

With ammonia dual-fuelled engines, purging creates an ammonia-containing gas stream that must be safely managed. ecoVARs® can recover up to 90% of the ammonia vapour and return it to storage, reducing the load placed on downstream treatment systems and product loss.

Where alternative treatment is required, ecoFGSS-FLEX® can be integrated with the vessel's selected treatment architecture.

Delivering value

ecoFGSS-FLEX® gives customers a practical route into ammonia-fuelled propulsion by combining established fuel-system engineering, ammonia-handling experience, integrated safety and future-fuel flexibility. With ecoVARs®, ammonia that would otherwise be lost during purging can also be recovered and returned to useful service.

Make ammonia usable without making the vessel inflexible.

Contact us:

Babcock LGE, Rosyth Business Park, Rosyth, Dunfermline, Fife, KY11 2YD
E: lge.sales@babcockinternational.com
W: www.babcocklge.com