



Gotlandsbolaget

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Gotlandsbolaget Started 1865

Steamship S/S Wisby;

- 40m long
- 11 knots
- 60 hp steam engine that could run on coal, wood or oil.



Gotland Traffic: Today

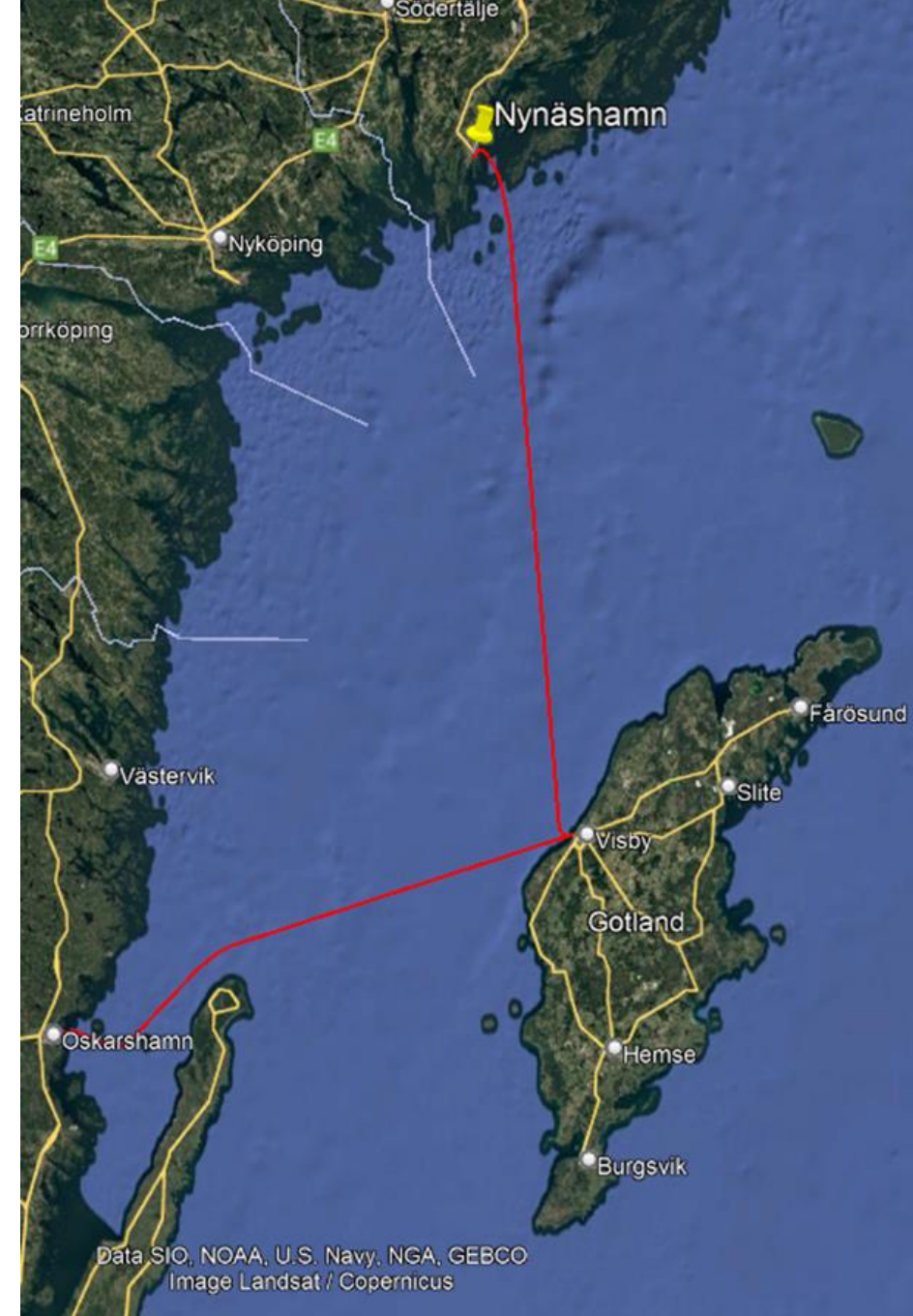
- Two dual fuel ROPAX vessels;
- 196m long
- 28.5 knots
- 50 MW of installed power
- These ships run on a mix of natural gas and biogas, and if needed could run on diesel or biodiesel.



Gotland Traffic: Two Stakeholders

- Government stipulates two dedicated ports and a certain capacity.
- Customers demand approx. 3hr voyage.

=> Energy consuming traffic,
difficult to electrify



Investing in Green Fuel Production

- Biogas and Liquified Biogas (LBG)
- Production 5400 ton / 70 GWh starting 2026.
- Offtake-contract LBG representing 10% of the Gotland Traffic annual demand for 10 years.
- Equivalent to reducing 20% of the yearly emissions (well-to-wake perspective).



Coming Carbon-Neutral Fuels?

- In the vicinity of our operation?
- Demand higher than supply?
- Reliability of supply?
- Contaminated fuel?

Relevance of feedstocks and carbon-neutral fuel types for different sectors

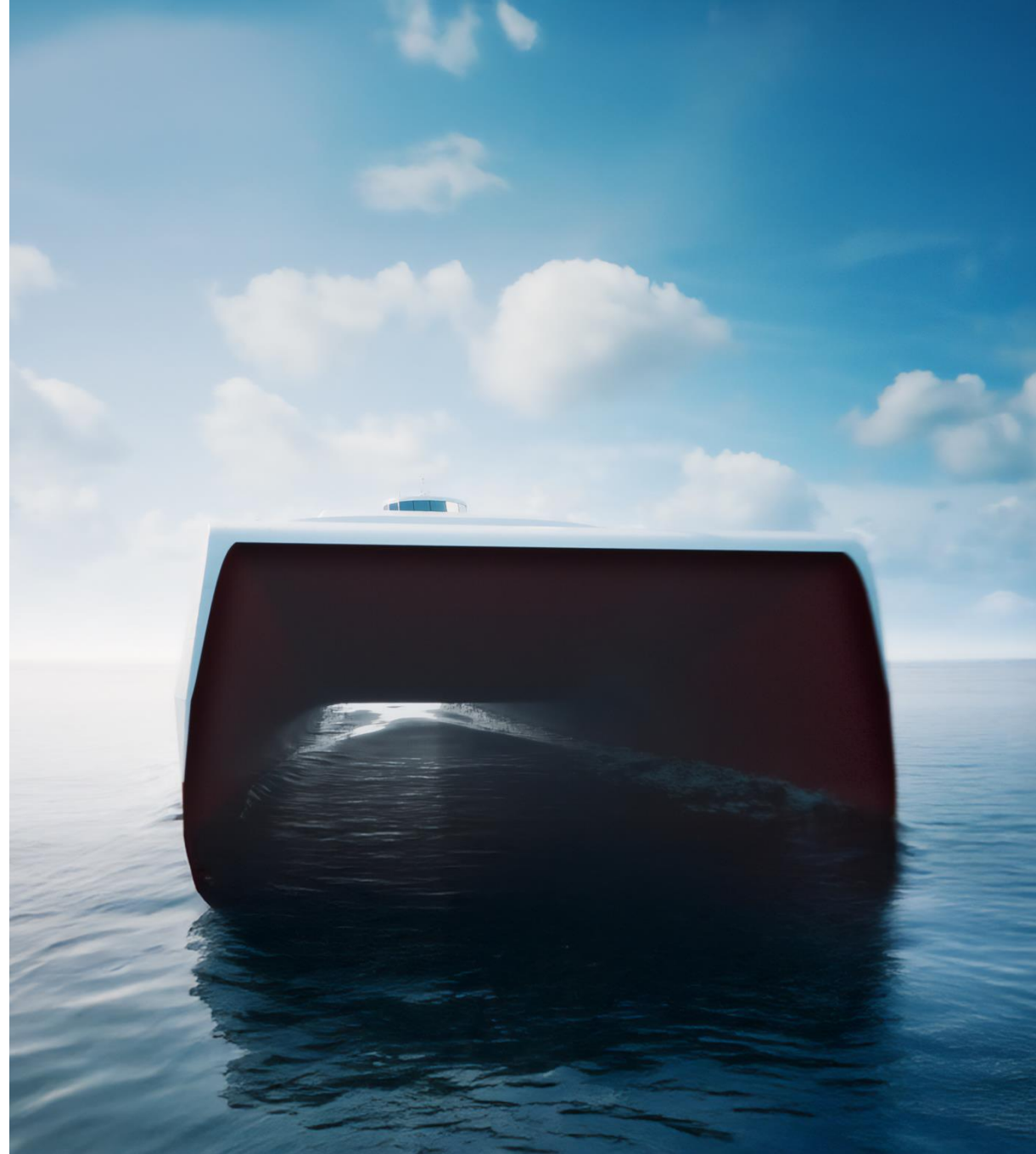
Feedstock	Fuel/energy carrier	Maritime	Aviation	Road transport	Industry
Sustainable biomass	bio-methanol	Relevant	Relevant	Not relevant	Relevant
	bio-methane/ bio-LNG	Relevant	Not relevant	Relevant	Relevant to some degree
	bio-diesel	Relevant	Not relevant	Relevant	Not relevant
	bio-kerosene	Not relevant	Relevant	Not relevant	Not relevant
Renewable electricity	e-ammonia	Relevant	Not relevant	Not relevant	Relevant
	e-hydrogen	Relevant to some degree	Relevant to some degree	Relevant to some degree	Relevant
	Electricity	Relevant to some degree	Relevant to some degree	Relevant	Relevant
Renewable electricity + CO ₂	e-methane	Relevant	Not relevant	Relevant	Relevant to some degree
	e-methanol	Relevant	Relevant	Not relevant	Relevant
	e-diesel	Relevant	Not relevant	Relevant	Not relevant
	e-kerosene	Not relevant	Relevant	Not relevant	Not relevant
Fossil + CCS	blue hydrogen	Relevant to some degree	Relevant to some degree	Relevant to some degree	Relevant
	blue ammonia	Relevant	Not relevant	Not relevant	Relevant

■ Relevant
 ■ Relevant to some degree
 ■ Not relevant

Austal & Gotlandsbolaget

Gotland Horizon X

- One of the world's largest catamarans, 130 m long
- 1500 pax, 400 cars, 36 MW, 30 kn.
- Combined Cycle Gas turbines / Steam turbines Battery hybrid
- Possible to adapt to fuel availability
- Today – LNG, LBG, Diesel and Biodiesel
- Tomorrow – Hydrogen
- Approval in Principle, 2024



Challenge:

- A complex HSC design needs to balance size, weight, speed together with operationality and customer needs.
- A classic “chicken and egg” situation.
- Shipyard don't want to develop without knowing they get the order.
- Shipowner can't order if there is no product available.

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Who knows it all?

⇒Join forces, shipyard and owner.

How to get things going?

⇒First step, join forces in an MOU and start developing together,

⇒Second step, Gotlandsbolaget placed the order so both parties can continue to cooperate and develop together, and finally take the design to production.

Feb 2022 ● First Meeting

Mar 2023 ● MOU

Jun 2023 ● Design Agreement

Jun 2024 ● Traffic Award

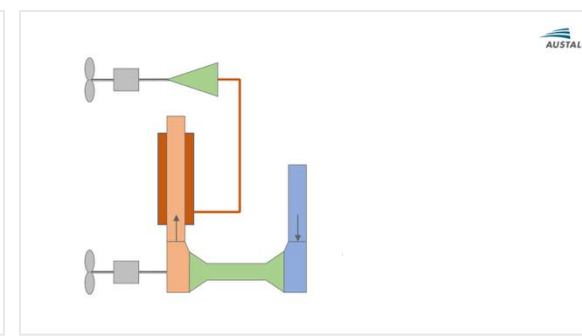
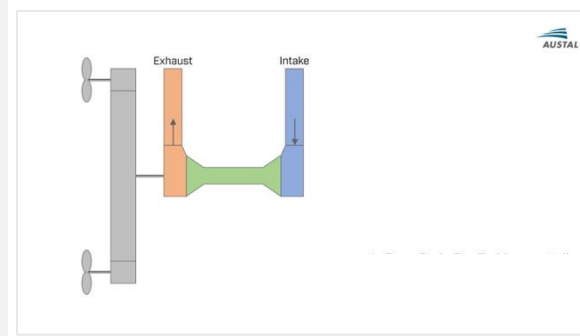
Oct 2024 ● AiP

Feb 2025 ● Contract



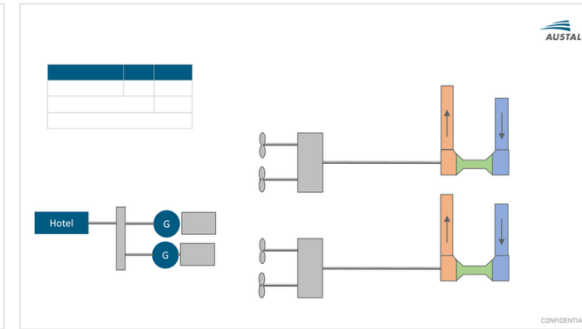
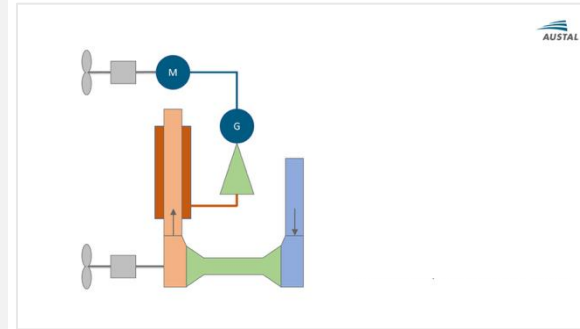
Feb 2022

First Meeting



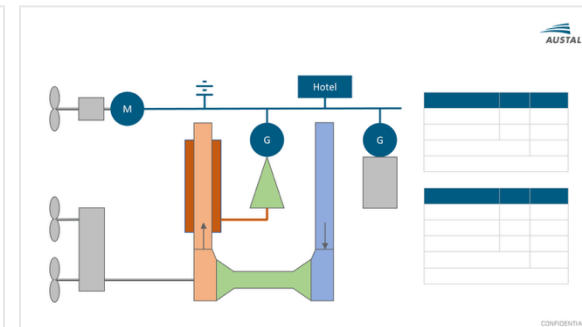
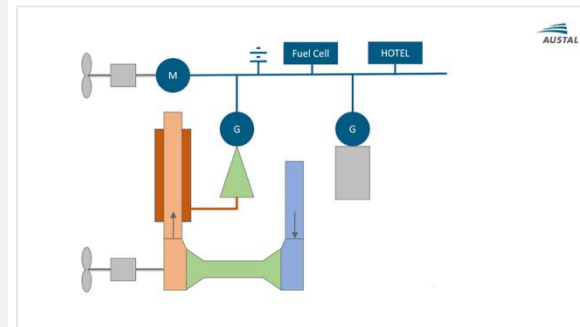
Mar 2023

MOU



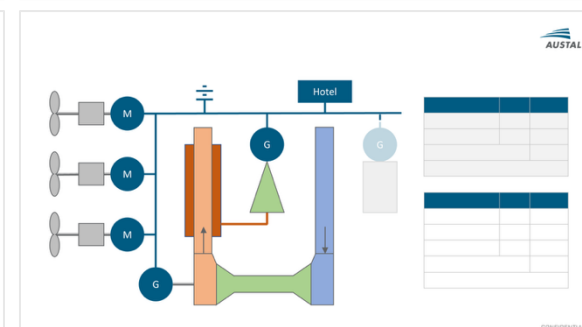
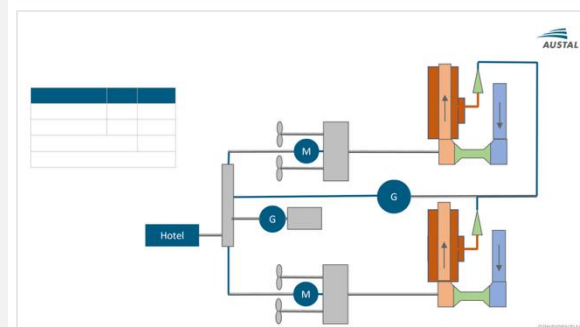
Jun 2023

Design Agreement



Jun 2024

Traffic Award



Oct 2024

AiP

Feb 2025

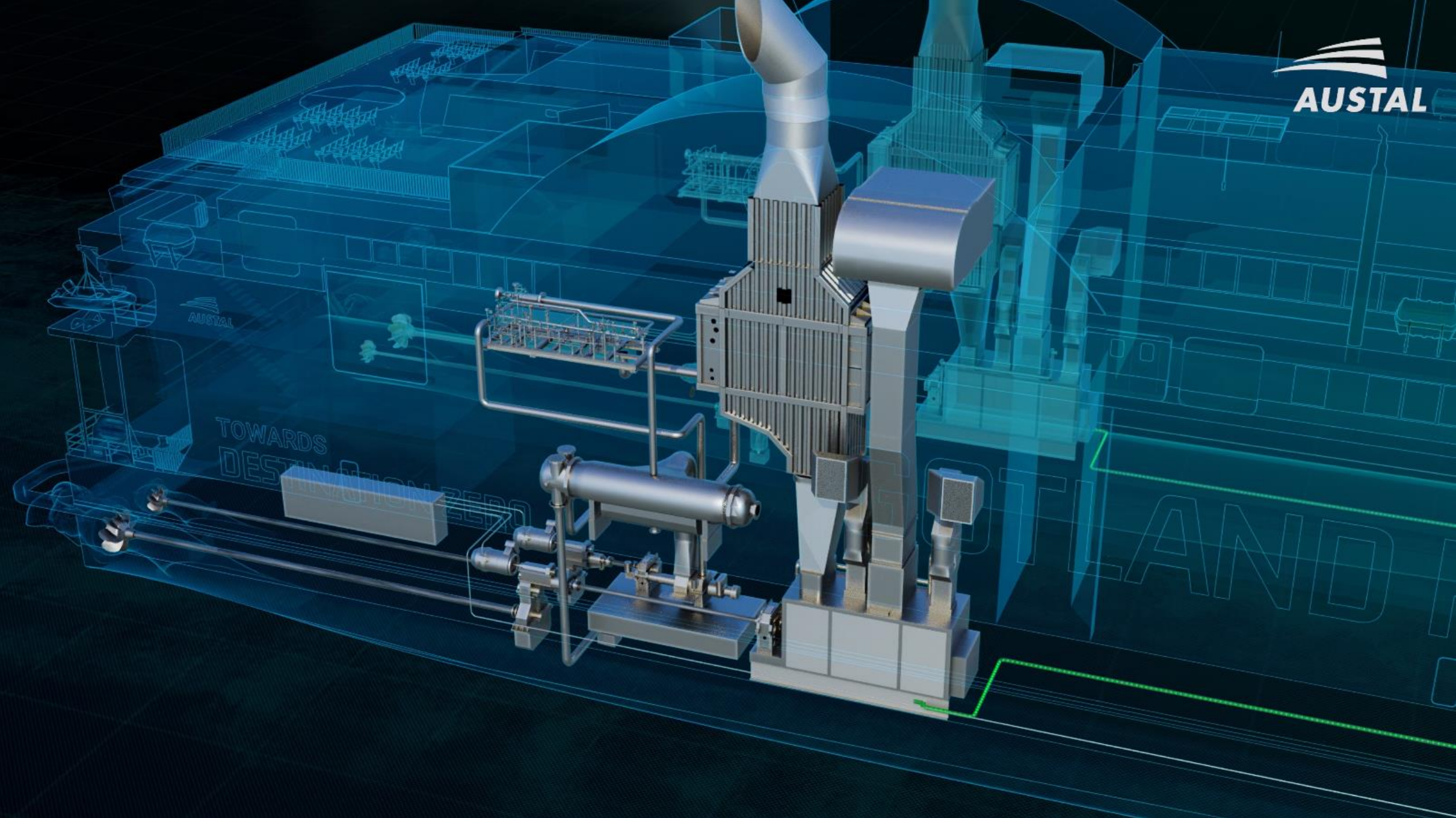
Contract

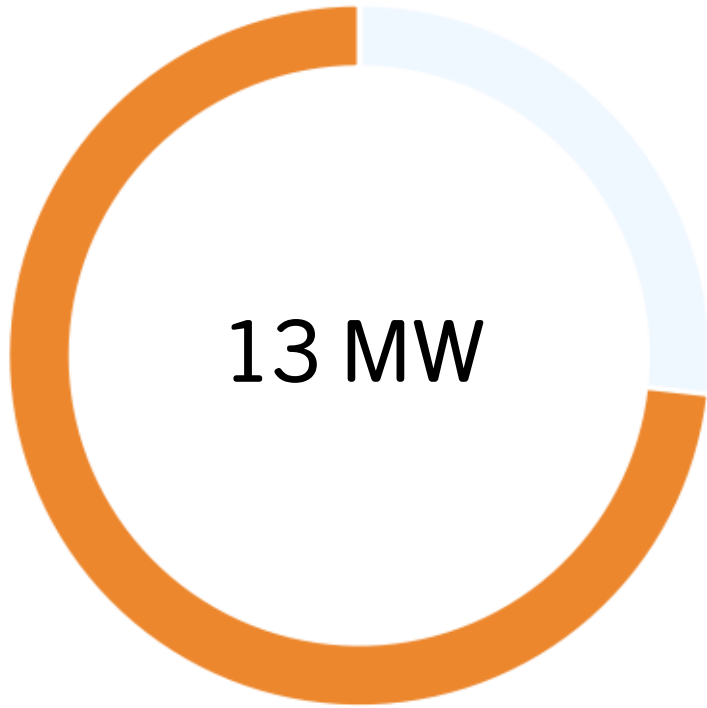


AUSTAL

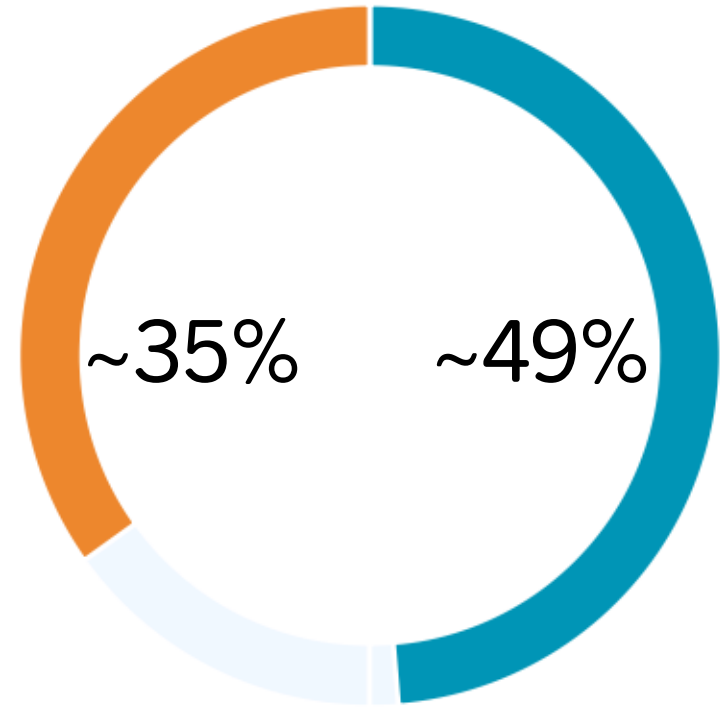
TOWARDS
DESTINATION ZERO

OFFSHORE
LAND

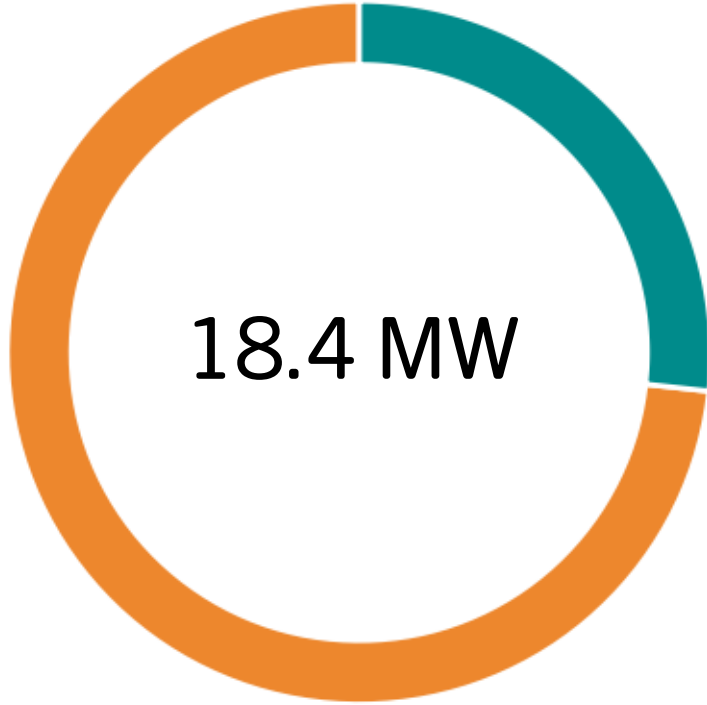




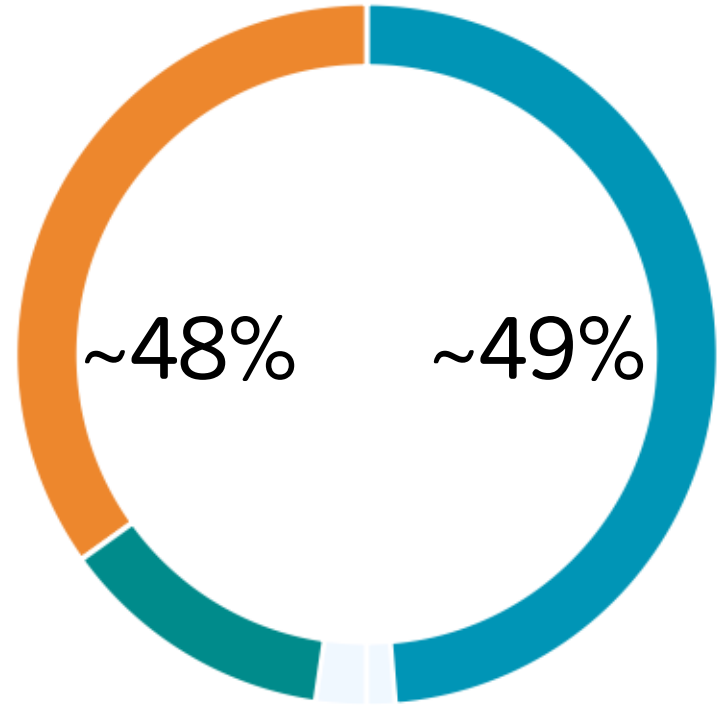
POWER



EFFICIENCY



POWER



EFFICIENCY



GOTLAND HORIZON X



TOWARDS
DESTINATION ZERO