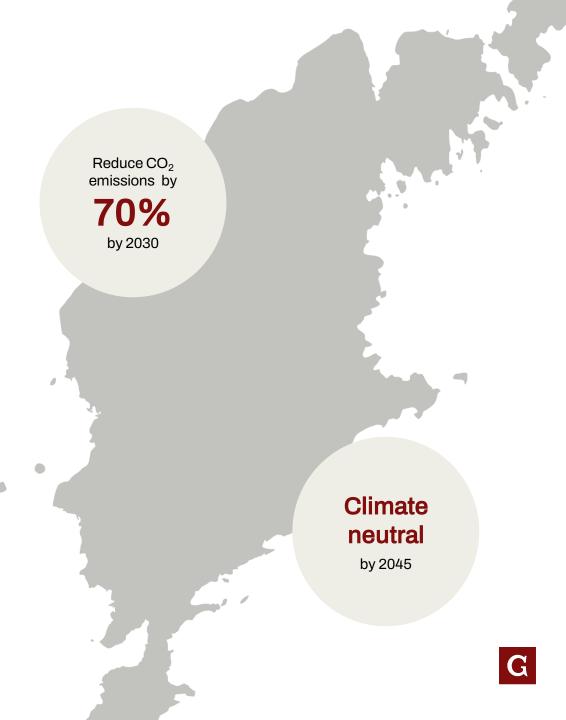


Destination Zero

Towards fossil free crossings

- EU's Fit for 55 has a goal of 55 % reduction of CO₂ until 2030, with the ultimate goal of achieving climate neutrality by 2050. Our goal is to be climate neutral five years earlier, 2045, and to reduce our CO₂ emissions by 70 % by 2030.
- Gotland has, like many islands, unique conditions, and the ferry service is Gotland's main connection to mainland Sweden.
- High capacity and high-speed crossings with zero emissions are requirements that needs to be met when developing the next generation vessels.
- Next generation vessel key factor to achieve climate neutral crossings while optimizing service and capacity.
- Gotland Tech Development is developing and designing the next generation vessels
 our Horizon Series.



GOTLAND HORIZON

The Horizon Series

- A line of hydrogen-powered ships designed for the transportation of passengers and cargo - setting the new standard for the use of hydrogen in the maritime industry.
- The designs of the two vessels, is rooted in our desire to continue offering a short crossing time without a negative impact on the environment.
- Gotland Horizon: launched in 2021 is Sweden's first large-scale hydrogen-powered transport vessel
- Gotland Horizon X: the world's first large-scale hydrogen-powered catamaran.



GOTLAND HORIZON X





Gotland Horizon

The ship is designed for transportation of both goods and passengers and optimized for distances up to approximately 100 nm.

Cargo Capacity: 600 cars

Passenger Capacity: 1900 passengers

Speed: 28 knots



Gotland Horizon X

The world's first large-scale hydrogen powered catamaran

Top speed 35 knots.

Waterjet – compact propulsion with low fuel consumption at high speed.

Water vapor as primary emission.

Capacity: 1 650 passengers, 450 cars.

Length: 130 m, width 30 m.

Combined Cycle

A system with a combined steam and gas turbine - increases efficiency from 35 to 50 **\$**\$\$ per cent.



est. number of trips per year: 2300

GOTLAND HORIZON X

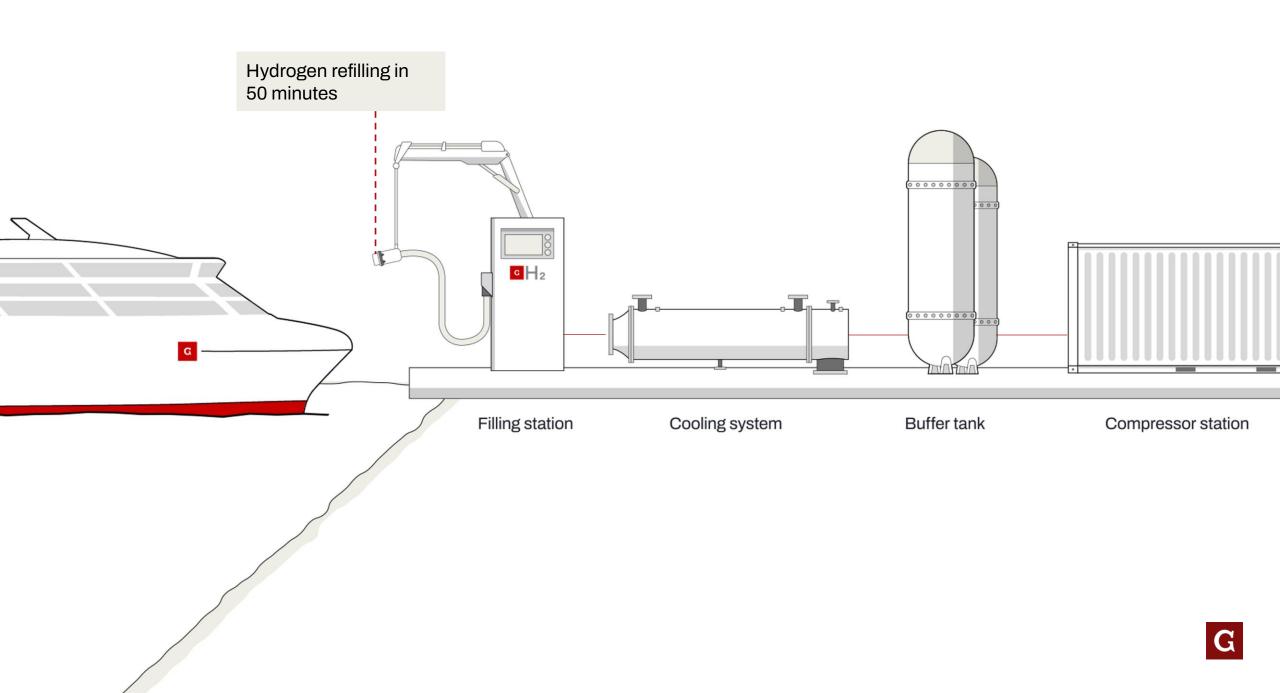
est. number of trips per year: 700

Estimated total need of hydrogen: 20 000 tons

For 100% hydrogen powered operations at 3 000 trips per year

Estimated energy needed: 1 TWh

1 TWh* = 50 000 average households in Sweden



Thank you!

Christer Bruzelius, Senior Advisor and Project Owner

G Gotlandsbolaget

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