

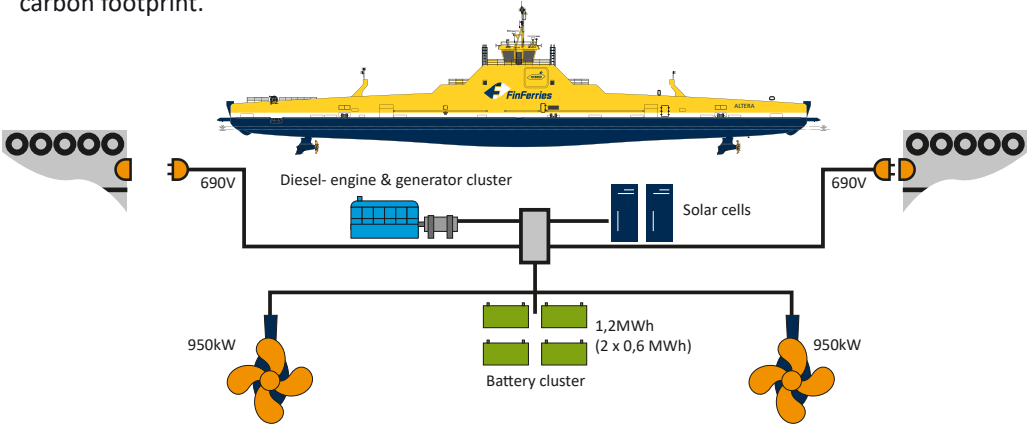
# Reducing vessel emissions through electrification



Finferries’ newbuilding Altera is Finland’s second shore-powered battery-hybrid ferry. Altera’s battery packs are charged directly from the grid and diesel electricity generators are used alongside them only as a backup service as the energy source for the new vessel.

Finland’s first battery-hybrid ferry Elektra was the inspiration for the Altera project and Altera is a significantly improved version of Elektra. Improvements have been made for example in the technology used for the charging of the batteries and in the hull hydrodynamic, which results in a more energy efficient vessel.

Altera will begin operating alongside Elektra on the 1.6 km long Parainen–Nauvo route in the Turku archipelago by 1 January 2023. Two environmentally friendly hybrid ferries on the route will significantly improve the capacity on the route and contribute to reducing the carbon footprint.



Altera’s technical data		Passenger + crew	375 persons
Length over all	104 m	Cars	92
Breadth moulded	15,20 m	Propulsion power	2 x 950 kW
Draught	3,5 m	Batteries all together	1,2 MWh
5 lanes, length of lanes	480 m	Diesel generators	3 x 500 kWe





## What water separates, Finferries connects

Finland is known for being the land of a thousand lakes and islands. Connections in the archipelago and lake areas require ferries and commuter ferries to function. Finferries' vessels carry about 4 million vehicles and 10 million passengers each year.

Finferries (Suomen Lauttaliikenne group) is a state-owned operator of ferry services in Finland. Commuter ferries are operated by a subsidiary of the group, Finland Archipelago Shipping.

Finferries has over 300 employees working on over 40 routes around the country. The head office is located in Turku, with a branch office in Savonlinna.

Finferries runs its 24/7 operation according to the four values which were decided with the employees: Safety, Service-mindedness, Profitability and Environmental Friendliness.

We welcome you on a safe and responsible ride with Finferries' vessels!

