Trond Strømgren, Project Manager

The Norwegian Hydrogen Powered Speed Passenger Ferry

Florø 13.09.2017

Brødrene Aa - MANCRAFT - Florø skyssbåt - Flora muncipality
Design by Brødrene Aa - 30 m, 100 pax, launch 2021
Per day:
Sailing distance 115 n.m.
Energy consumption 6 509 kWh

Per year:
Diesel per year ca. 500 000 litres
Hydrogen tanking at Fjord Base, Florø
Weight different energy systems

- Hydrogen
- Diesel
- Batteri
Diesel consumption high speed passenger vessels

- Nordland
- Sogn og Fjordane
- Hordaland
- Sør-Trøndelag
- Rogaland
- Finnmark
- Møre og Romsdal
- Troms
- Oslo/Akershus
- Nord-Trøndelag
- Vestfold
Emission from public transportation Sogn og Fjordane

- 41% Buses
- 23% Car ferries
- 22% Speed passenger ferries Bergen-S&Fj
- 14% Local speed passenger ferries
Reduced emission by use of hydrogen

- Car ferries: 23%
- Speed passenger ferries Bergen-S&Fj: 22%
- Local speed passenger ferries: 14%
- Buses: 41%
For latest information on H2 vehicles, visit www.hydrogen.no/kjoretoy

Kjøretøy

Hydrogen can be used in different types of vehicles. You can see an overview of the different vehicle types that are available in the market today and those that are under development.

Hyundai ix35 FCEV

Hyundai was the first to bring a series-produced hydrogen car to the Norwegian market. The vehicle was launched in Norway in 2014 and has been the most sold hydrogen car in Norway so far with over 40 sold.

Toyota Mirai

Toyota has been a leader in hydrogen cars, offering a variety of prototypes, but introduced its first series-produced car, the Mirai, in 2014. The first batch was delivered to Norway in late 2015. Toyota plans to produce 30,000 hydrogen cars per year from 2020 and has recently announced a new, improved model for 2019. The car will be gradually introduced to the market.

Honda Clarity Fuel Cell

Honda launched its first series-produced hydrogen car in 2016, and has been working on further development of the technology. The car has been tested in Europe as part of the HyFive project, in cooperation with Denmark and Sweden.

Mercedes-Benz GLC F-Cell Plug-In

Daimler has been working on hydrogen cars for some time and has successfully introduced the Mercedes-Benz CLS F-Cell in markets in the Scandinavian region. The car has been tested in Norway since 2010, and has recently launched a new model with a larger battery and increased hydrogen storage.

Hyundai FE Fuel Cell

The Hyundai FE Fuel Cell was introduced in 2018 and is based on the Hyundai Ioniq platform. The car is designed to run on hydrogen and has a range of up to 500 kilometers.
Want to know more?

Want to invest in maritime zero emission technology?

Please take contact!

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