Nullutslipp Hydrogen ferje

VÅR STYRKE, VÅRE VERDIAR OG VÅR INDUSTRI

STORDKONFERANSEN 12.06.2019

Westcon Power & Automation AS
Frode Skaar
• World leading innovative company of electrical propulsion systems
• Complete supplier of power and automation systems.
• Engineering, installation and system integration
• Product range branded e-SEA® for tailored products and e-SEAMatic® for standardized platform.
  – IAS, PMS, EMS, cargo control, winch control, propulsion systems and more.
  – Switchboards, ac-drives, propulsion drives, hybrid battery systems, fuel cells and more.
• Serving clients with turnkey projects in both rig, marine, aqua and landbased industries.
New electric car ferries
Westcon Power & Automation
Battery & Hydrogen Laboratory

• Fully integrated energy-system test bench, with batteries, fuel cells, drives, switchboards and energy management system
• Dynamic loads
• Facility for testing of next generation hydrogen and hybrid systems for future marine and mobility projects
• Simulation and optimization of control strategies for H2/battery hybrid systems
• Operative in September 2019
Vi tilbyr testfasiliteter, kompetanse og nettverk for produksjon, lagring, distribusjon og styring av energi.

Kontakt oss
Technology from Westcon Power & Automation will ensure that tourists in the Oslofjord receive an emission-free and virtually silent experience on board the zero emission vessel ‘Legacy of the Fjords’.
Zero emission fast passenger ferry
Ekspertgruppe for flytande hydrogen
Opptak: etablere ei kommersiell grøn verdikkjede for LH2
SAMMENDRAG OG KONKLUSJONER


Utviklingskontrakt hydrogen-elektrisk ferje
Norled velger Westcon for bygging av verdens første hydrogen-ferje

- Rederiet Norled i Stavanger og Westcon har inngått kontrakt for bygging av to nye ferjer, hvor den ene vil være verdens første bilferje som seiler på hydrogen og den andre vil være en batteri-dreven ferge tilsvarende MF Ampere.
- Vi mener at dette byggeprosjektet vil bidra til at norsk maritim sektor totalt sett kan være i front også på hydrogendrevne ferjer, sier teknisk direktør Sigvald Breivik i Norled som fikk bygget verdens første batteri-dreven ferge, MF Ampere.
Lenght: 82,40m
Beam: 16,75m
Draught: 2,8m
Car cap.: 80
Truck cap.: 10
Passengers: 299
Model testing, optimisation
Hydrogen/batteri plugg-inn hybridferge - prinsippskisse
FLAGSHIPS will illustrate the technology, business viability and social acceptability of zero-emission shipping based on hydrogen fuel cells to full commercial extent.

DEMONSTRATOR 1: LYON

A push-boat operating as a utility vessel on one of the most demanding rivers, the Rhône.

GENERAL FEATURES
- Total Budget: 6 790 562.50 EUR
- Duration (4 years): 2019-2023

DEMONSTRATOR 2: STAVANGER

A passenger and car ferry operating as part of the local public transport network.

On-site hydrogen production with electrolyzers powered by renewable electricity.

A total of 1.2 MW of on-board fuel cell power.
Flagships

Bil- og passasjerferje
- Finnøy-sambandet
- 600 kW brenselcelle

Push båt
- Marseille-Lyon, Frankrike
- 400 kW brenselcelle
Thank you for your attention

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