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Company presentation

Updated January 31, 2023



About HYON



We deliver the safest and fastest high-capacity hydrogen transfer to ships

Born in Norway for a global quest



Providing the missing piece in the hydrogen value chain





Company update as of Q2 2022



Revenue MNOK 3.7 EBIT MNOK -8.1

Cash end of period **MNOK 33.7**

No. of shareholders¹ 254

¹ As per June 30, 2022



Our two high-capacity fueling solutions



SOLUTION A

Integrated hydrogen factory and highcapacity fueling for coastal sailing

- Local production and fueling of hydrogen
- Typical range: 500-3,000 kg H2/hour
- ✓ Capacity down to 500 kg H2/hour to facilitate smaller fishing and transport boats

SOLUTION B

Distributed high-capacity fueling configuration for the maritime sector

- Built for high-capacity transfer with short fueling time
- 1,000 kg H₂ / 30 min

Partnering up with leading companies

Key milestone in H1'22

crec nebb **SLÄTTLAND ---ENTEC** SUBSEA **Control System** Handling System **Process System Connector System Process Engineering** Located in Rakkestad, Norway Located in Ulsteinvik, Norway Located in Lysaker, Norway Located in Lier, Norway Located in Asker, Norway Leading developer of automated CITEC is an international The Slåttland Group has been Subsea Design AS is an Nebb provide total solutions for marine handling systems for the a highly trusted fabricator for the engineering, design and multi-discipline engineering automation, electrical and information systems to a number of maritime industry, focusing on oil and gas industry, marine and fabrication company providing partner at the forefront of the efficient and safe operations. industry markets for almost systems, products and services for clean energy movement. industries world-wide, including the mechanical, oil, gas and process industry, food & pharma, three decades. Experienced team with more than For close to 40 years they have renewable energy industry. marine, energy, subsea and PMC. 30 years of skills inhouse from Experience with engineering delivered services through a handling systems for advanced, and fabrication of hydrogen Specialized in gas high-performing expert Their core competence lies maritime operations. process modules for the connection systems. organization and have vast within automation, electrical, experience within LNG, carbon instrumentation, SCADA, software Deep Purple project. capture, solar and hydrogen. and digitalization.

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The core of HYON



CEO Jørn Kristian Lindtvedt



Project Engineering Manager Øyvind Oppheim



Controls & Automation Manager Fredrik Østheim

Management and technical team



COO Harald Bjørn Hansen



Technical Manager Kjellbjørn Kopperstad



Process Systems Manager Kine Temte



CFO Jan Frode Andersen



Project Manager Arne-Kristian Krydsby Johnsen



Product Development Manager Sondre Rosfjord Askim



Board of Directors



Chairman Otto Søberg



Board Member Jens Berge



Board Member Silje Smådal



Board Member Bjørn Simonsen

Main owner







Partners SLÄTTLAND

c/tec





The maritime hydrogen market

I-IYON

Glomfjord

Kristiansand

Rørvik

Hitra Florø

Zero emission focus emerging in maritime industry



Shipping included in EU Emissions Trading System, significantly increasing costs of operating fossil fueled ships



Increased focus on zero-emission fuels has led to NOK 1.1 bn in support from Enova to build hydrogen infrastructure along the Norwegian coast



IMO to implement new measures from 2023: 40% of today's tankers, bulk carriers and container fleets will need modification by 2026¹

HYON is initially targeting three key segments, starting in the Norwegian market

	Passenger ferries	Aquaculture	Offshore wind
Vessel types	High-speed passenger ferries and sightseeing boats	Well-boats, processing vessels, working vessels for the aquaculture industries	Service operation vessels (SOV) for offshore wind farms
Current number of vessels in initial market (Norway)	 90 active high-speed passenger ferry routes Est. 1,000+ vessels for different sightseeing purposes ~300 bunkering stations 	 71 well-boats 10+ processing boats 1,200+ sites with ~500 working boats ~5,800 fishing vessels ~2,000 bunkering stations 	 70+ SOVs in operations today Estimated 270+ SOV from 2030 In addition, a substantial amount of smaller working vessels linked to each site ~100 bunkering stations

TAM ROW¹

If net zero is to be achieved in 2050, 100.000 vessels will need to run on low emission fuels, corresponding to >20.000 bunkering stations

¹ Total Addressable Market, Rest of the World: Hyon analysis of IRENA Decarbonize Shipping 2021, Figures 3, 30 and 34 and IEA Global Hydrogen Review 2021 Image credits: SWITCH Maritime LLC, Knut Troim (via Unsplash), Nicholas Doherty (via Unsplash)



 \sim 8.000+ vessels

Zero emission fuel technologies have different applications and maturity levels

Compressed hydrogen is an attractive target market¹



¹ Number of vessels globally for each category based on HYON estimates



Compressed hydrogen gaining momentum in maritime sector





Torghatten Nord decided on compressed hydrogen for Vestfjorden ferry Salmonor with service vessel on compressed hydrogen from 2023

Egil Ulvan Rederi is building the world's first cargo ship on compressed hydrogen Samskip and Ocean Infinity with two hydrogen-powered, containerships from 2025



Tor Dahl's zero emission bulk carrier from 2024

Image credits: Torghatten Nord, Salmonor/HYON, Egil Ulvan Rederi, Ocean Infinity/Samskip, Tor Dahl



Hydrogen projects are gaining momentum also outside Norway



Hexagon Purus received Rhine river transport order of EUR 1.1 million



SWITCH Maritime is building the first fleet of zero-emission vessels in North America Gotlandsbolaget speeds up project for two high-speed ferries to operate on hydrogen from 2025 and 2027



Recent developments

First bunkering project Hellesylt Hydrogen Hub

- Pilot E project in execution to deliver compressed hydrogen for the maritime fleet in the Geiranger fjord
- Norwegian Hydrogen is leading the consortium and will also be the owner and operator of Hellesylt Hydrogen Hub
- HYON is responsible for development and supply of vessel bunkering solution
- Bunkering solution scheduled to start operation in 2023
- Executed front-end engineering design (FEED)





I-IYON

Partnership with Gen2Energy and ASCO to establish Green Arctic HyHub

- Hydrogen hub to include large-scale production of compressed hydrogen in Mosjøen and bunkering sites for maritime transport in Sandnessjøen and Mosjøen
- Project aims to produce cost-competitive compressed green hydrogen at large scale and to make it available to fuel several types of vessels in Nordland



Collaboration agreement with Mitsui to develop hydrogen fueling solutions

- Setting the stage for large-scale development of hydrogen fueling solutions with international collaboration
- Collaboration agreement signed May 10, 2022
- Parties aim to together venture into business opportunities related to establishing hydrogen fueling infrastructure in Europe, Asia and other geographies
- Opens for financial and strategic commitment from Mitsui
- Joint feasibility study to start second half of 2022





Summary

Important targets ahead

Be the supplier of high-capacity fueling solutions for a majority of the Enova-financed hydrogen hubs

Standardize our product offering and delivery process

Utilize position in Norway to win selected international projects

Finalize our service offering package and sign first service contract

Successfully upscale our technology development and project delivery capacity to fulfil future demand



INOXII

Building a global champion for zero emission fueling solutions for maritime applications



High growth market

The zero emission fuels market is growing, especially in maritime sector



Management know-how

IP and know-how to develop hydrogen fueling stations for maritime sector



Strategic owners

Main owner provide a unique ecosystem of industry expertise



Asset-light business model

Asset light, highly scalable business model with attractive return potential

Enova funding creating a unique and immediate market opportunity for HYON in Norway

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