

Press release

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Contact person: Sales Director, Lars Conradi Andersen, phone: +47 977 12 412

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Caption: Stig Magne Espeseth from Havyard Design & Solutions, Lasse Stokkeland of Havyard Ship Technology and Tor Leif Mongstad of Power & Systems, are all delighted about the major new contract with Fjord1, where Havyard designs, delivers equipment and constructs five ferries. (Press photo)

Havyard wins major five-ferry contract

Havyard meets and fulfils strict environmental demands and gets to deliver, outfit and construct the five brand new Fjord1 ferries. Total contract value exceeds NOK 1 billion.

Havyard Ship Technology already has three ferries under construction at the Leirvik shipyard in Sogn, Norway, and with this latest total delivery contract, takes a giant leap into the transport market. Havyard Group also becomes a leading supplier of electric ferries.

“We have utilised the complete competence within our maritime technology group, where all disciplines have been involved in cooperation between the business areas Design & Solutions, Ship Technology and also Power & Systems. This has been decisive for us in being able to offer a total solution that meets and fulfils the very strict environmental requirements for these ferries,” says CEO Geir Johan Bakke of Havyard Group.

He is pleased that Havyard contributes and takes part in the green revolution within this field.

“With these ferries we put to use the opportunities that are within digitalisation and provide both Fjord1 and ourselves with a solid foothold on the future and on the fourth industrial revolution.”

Havyard Design & Solutions has a virtual model tank where they have run continuous data simulations on hull designs, and where they have tested hundreds of various hull lines, in order to optimise energy consumption in these ferry connections.

“And we are now able to deliver a ferry that can operate on battery power during the complete ferry crossing.”

Havyard has gathered extensive competence and knowledge from development and constructions of vessels used in offshore operations, ocean wind industry, fisheries and ocean farming. In this work, big data has been used in relation to energy consumption, seakeeping capabilities, wind, power and waves. This experience is central with the work on these battery ferries.

Head of R&D work in Havyard, Kristian Voksøy Steinsvik, says that Havyard has constructed data models for these specific ferry connections, where they look at various facets of the crossings and combine these with different weather data.

“Environmental requirements on these all-electric ferries led us to be extremely thorough in terms of saving energy. As such, we have used the tools we have developed over time and already used within other segments. By utilising these tools, we are able to carry out detailed and reliable calculations with several variations, and now we are being rewarded for having experience in the involvement of design processes connected to strict environmental requirements.”

All equipment battery-powered

Three of these ferries will operate in the Hareid – Sulesund connection and two in the Magerholm – Sykkylven connection, both crossings in the county of Møre and Romsdal in western Norway. Ferries are 111 metres long and can hold 120 cars each.

In the development work of the ferries, steps have been taken towards autonomous vessels. Data tools, amongst other things, are employed in order to operate ferries in the best possible energy-efficient way, regardless of who is on the bridge.

All equipment on-board the ferries are planned for battery operation, at the same time as there is complete diesel-powered backup in the case of lengthy power blackout.

Havyard Design & Solutions will deliver design and engineering, Havyard Ship Technology is going to construct the ferries, while Power & Systems will deliver hybrid propulsion system, bridge solutions and automation, battery system, charging station and electric system.

“Havyard has thereby the complete package that will cater for secure and optimal operations of ferries in connection to efficient propulsion, charging, manoeuvring and navigation,” says EVP Power & Systems, Tor Leif Mongstad.

CEO Dagfinn Neteland of Fjord1 says contract competition was hard, although Havyard Group’s total competence, its delivery time – and price as always - were crucial factors.



FACTS Havyard Group ASA

Havyard Group ASA is a maritime technological company that provides products and services within seafood, energy and transport.

Havyard Group ASA is listed on Oslo Stock Exchange, Ticker HYARD. Main office is in Fosnavaag, and there are 700 employees in the group of companies.

Havyard Group ASA divides into five business areas:

- **Havyard Ship Technology** in Leirvik in Sogn (shipyard) with branches in Fosnavaag and Turkey.
- **Havyard Design & Solutions** with main office in Fosnavaag and branches in Aalesund, Poland, Singapore, Shanghai and Croatia
- **Power & Systems** in Bergen and Aalesund, Norway
- **HPR** with main office in Gdansk, Polen with branches in Norway, Denmark and France
- **MMC First Process** with main office in Fosnavaag and with branches in Vigra, Sjøeholt, Tromsø and Haugesund.

For further information, please contact:

Sales Director, Lars Conradi Andersen, phone: +47 977 12 412

Attachment: 3 photos at your disposal