

#energy #efficiency #projects
#EEXI #CII #FUELEU
#2026 #modern #shipyard
#RealAction #Futureflexible

**QUALITY
ON-TIME
ALWAYS**

For Inspiration,
please find in this folder a selection of
Energy Saving Initiatives

13 CLIMATE ACTION



Climate change is one of the biggest sustainability challenges of our time.

At FAYARD we have a strong focus on supporting customers regarding the CII and the EEXI improvements, and in optimizing the ships in operations by incremental retrofits.

With Green House Gas emission costs on the rise, the economics of **Energy Saving Devices (ESDs)** are shifting.

ESDs offer a compelling route to lower OPEX, reduce emissions liability, and future-proof fleets.

We are thrilled to work together and to help our customers become more efficient while reducing the vessels' environmental footprint.

FUELEU MARITIME

From 1. January 2025, Ships above 5,000GT transporting Cargo or Passengers for commercial purposes in the EU/EEA (ex Norway and Iceland) are required to meet annual Well-to-Wake Green House Gas (GHG) emission intensity requirements.

$$\text{GHG Intensity}^* = \frac{\text{Total GHG emissions (tCO}_2\text{eq)}}{\text{Total energy from Fuels + Total Shore power + Reward}} \times \text{Reward}$$

Renewable fuel
 Non-Biological origin
 from 2033

Wind
 1%, 3%, 5%

Note the rewarding factors:

- Use of Shore Power**
- Use of certain renewable fuels
- Use of Wind Assisted Propulsion System (WAPS)

* The GHG intensity applies to

- 100% of energy used on voyages and Port Calls within the EU/EEA
- 50% used on voyages to or from ports in the outermost regions of an EU/EEA member state
- 50% used on voyages into or out of the EU/EEA.

** At FAYARD, we can provide shore power to nearly all requirements. Our Shore Connections converts power from the grid to your needs.

60%+ of the electrical grid power in Denmark is generated from Wind and Sun.

When you demand 100% renewable power in the shore connection, we can still deliver.

EU's FuelEU Maritime requirements to the reduction of the 2020 avg. GHG intensity

- 2% from 2025 to 2029.
- 6% from 2030 to 2034, and
- accelerate from 2035 to
- 80% reduction in 2050

Cost effective saving potentials:

- LNG and Bio-LNG offers lower GHG Intensity than required until 2035
- Energy-Efficiency measures
- Wind assisted propulsion (WAPS)
- Shore Power when possible
- Compliance pooling

CII - an ongoing effort!

Continuously lowering the Emissions on the road towards Zero Emissions

Carbon Intensity Indicator (CII) 2023 -> 2030 (IMO)

The CII requirements is in force for all Cargo, RoPax and Cruise vessels above 5,000 GT and trading internationally. The Carbon Intensity Indicator (CII) is a measure of how efficiently a ship can transport goods or passengers and is given in grams of CO2 emitted per cargo-carrying capacity and nautical mile, based on reported IMO DCS data.

$$\text{CII} = \frac{\text{Annual Fuel Consumption} * \text{CO}_2 \text{ Factor} * \text{Correction Factors}}{\text{Annual Distance Travelled} * \text{DWT or GT}}$$

The CII addresses the actual emissions in operation.

IMO's target for 2026 is a **11% reduction** of vessels' CO2 emission

Actions:

- Shaft Limitations
- Engine Power Limitations
- **Install Energy Saving Devices**
- **Convert to Low Carbon Fuel**
- **Increase vessel capacity**
- And many more...

13 CLIMATE ACTION



Energy Saving Devices (ESD)

Innovative Solutions & Incremental Improvements
for reducing emission to air by less consumption

Find the right solution to stay compliant and efficient.

Our examples on the following pages are

- available to all
- have low OPEX
- fast to implement

**QUALITY
ON-TIME
ALWAYS**

ENERGY SAVING DEVICE COMBINATIONS ARE SETTING SAILS FOR THE FUTURE

HYBRID ACTIONS ALLOWING UP TO 58% REDUCTIONS IN CO2 EMISSION:

- WIND ASSISTED PROPULSION SYSTEM
- HYBRID BATTERY SOLUTION
- ON-SHORE POWER ABILITY
- BIOFUEL TESTED AND COMPLIANT
- FUEL OPTIMIZATION
- DC-LINK HYBRID SYSTEM
- DUAL FUEL ENGINE, METHANOL/MGO
- NOISE REDUCTION OPTIMIZATION
- SPEED OPTIMIZATION (JIT)



**REDUCING
OVERALL
EMISSIONS
BY COMBINED
UPGRADES:**

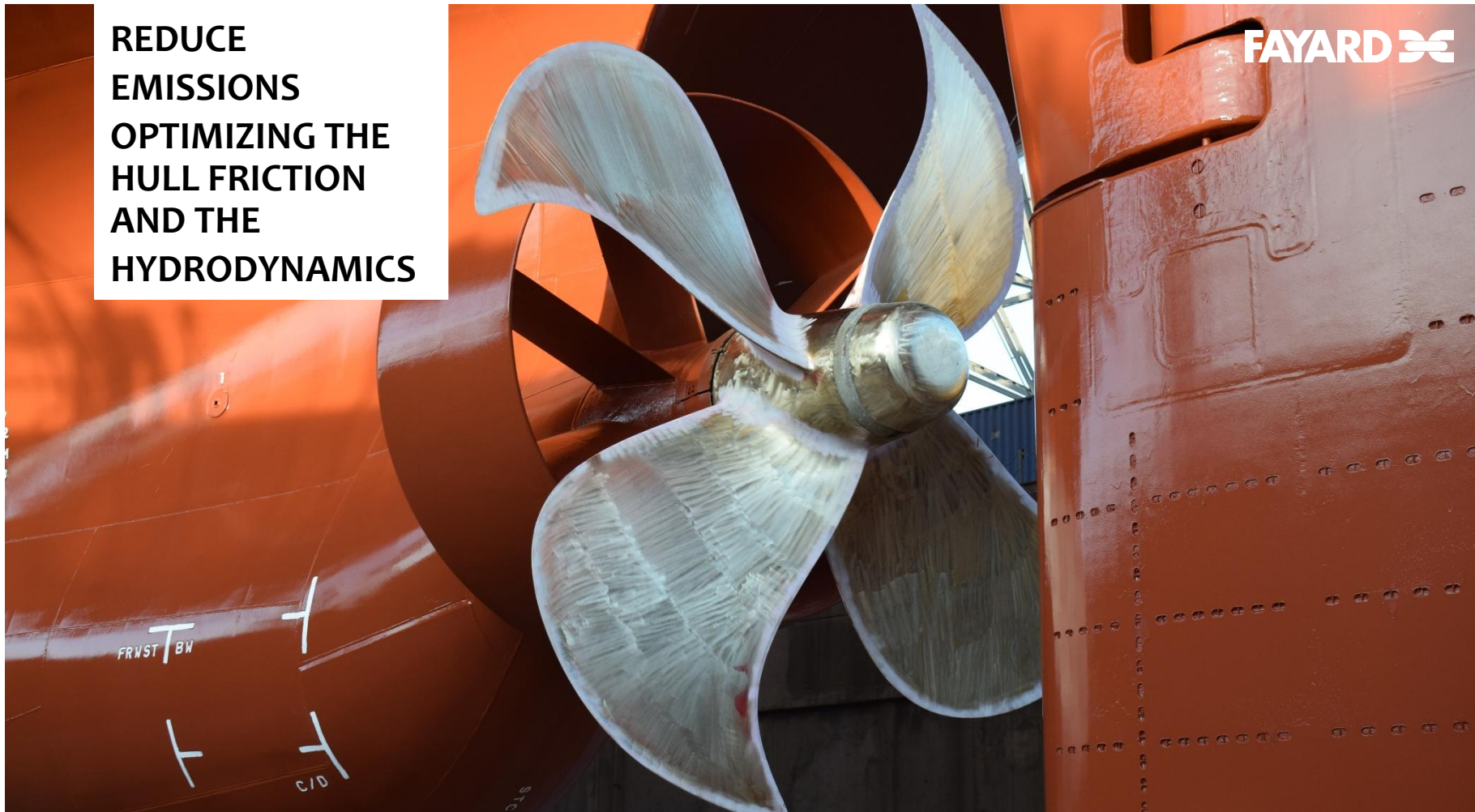
**INCREASED
CONTAINER
CAPACITY &
CHANGE OF
PROPELLER**

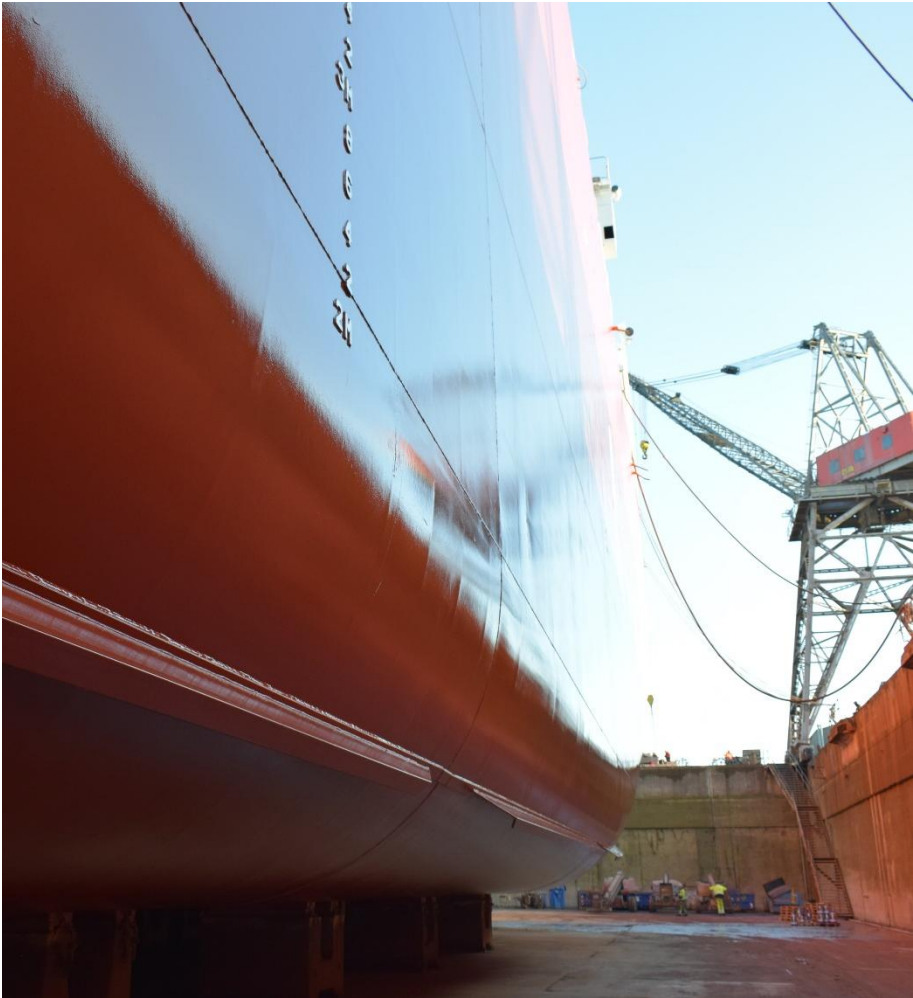


**VESSEL'S
OVERALL
EMISSIONS
REDUCED:
INCREASED
CONTAINER
CAPACITY &
EVEN MORE
EFFICIENT
PROPELLER**



**REDUCE
EMISSIONS
OPTIMIZING THE
HULL FRICTION
AND THE
HYDRODYNAMICS**





Silicone Antifouling

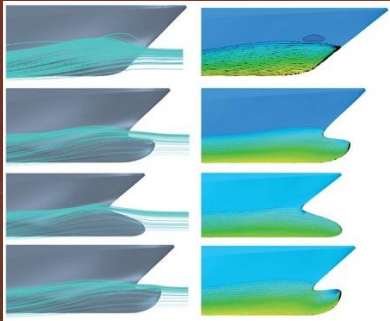
- Reducing resistance on the hull creates significant savings of fuel
- FAYARD meets the higher applying demands this paint system requires:
 - Special equipment needed, including heated sprayers
 - Special processes needed with high level of documentation and accuracy
- Latest projects are made with Hempadur X7 & X8

Clean Hull = Less Emission

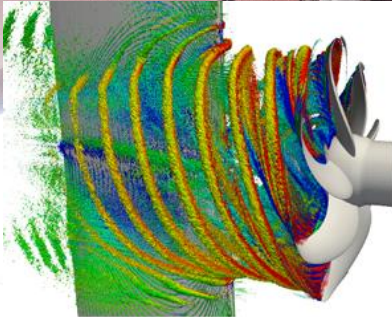
**FACILITIES
AVAILABLE FOR
APPLYING
SILICONE-
ANTIFOULING
THROUGHOUT THE
YEAR**



**REDUCE
EMISSIONS
BY HYDRO-
DYNAMIC
OPTIMIZATION**

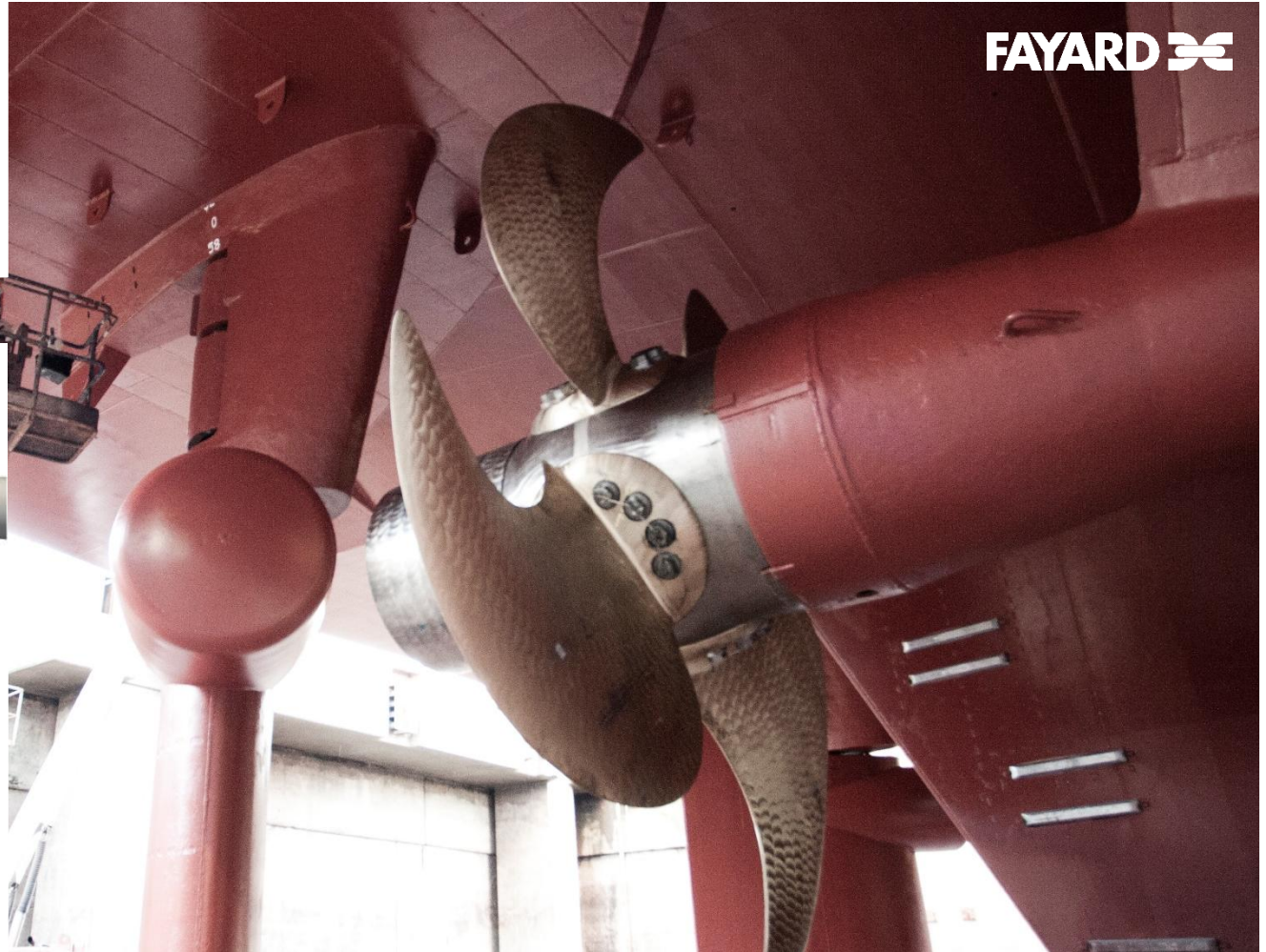


REDUCE EMISSIONS BY HYDRO- DYNAMIC OPTIMIZATION



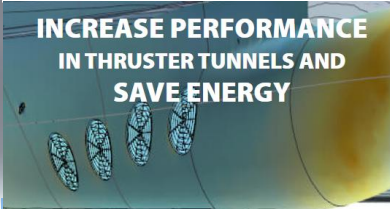
MANY OPTIONS AVAILABLE:

- CONE/BULB
- CAP
- PRE-SWIRL STATOR
- FOILS
- NOZZLES
- TUNNEL THRUSTER GRITS
- AIR LUBRICATION
- AND MANY MORE...



REDUCE EMISSIONS BY HYDRO- DYNAMIC OPTIMIZATION: ELOGRIDS

INCREASE PERFORMANCE
IN THRUSTER TUNNELS AND
SAVE ENERGY



Reduces fuel consumption about 2 %, which leads to about 0.5 t of fuel saved per day equal to app. 1.5 t less CO₂ emissions per day per ferry according to Viking Line / ELOMATIC

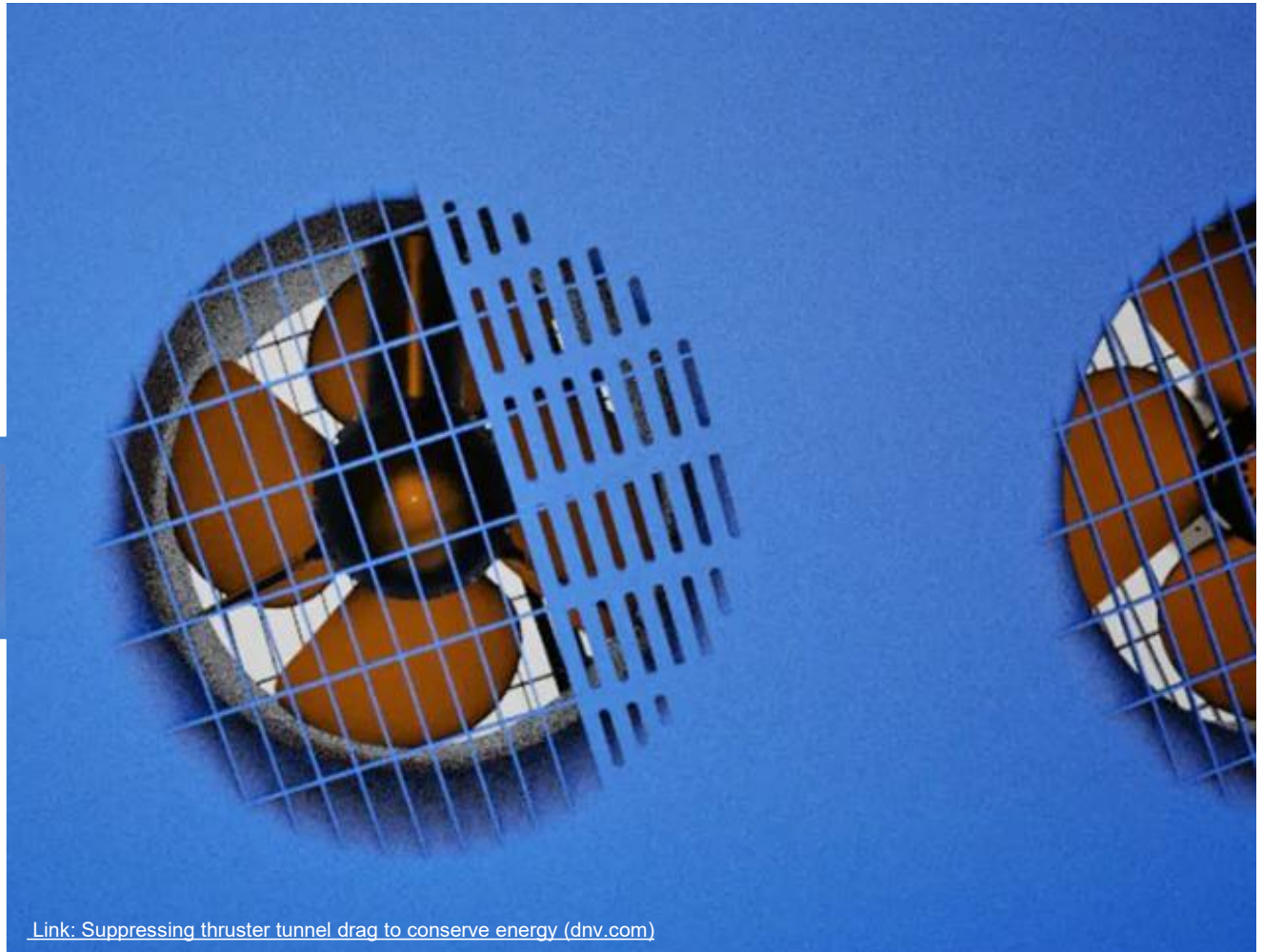


**REDUCE
EMISSIONS
BY SUPPRESSING
THRUSTER
TUNNEL DRAG.
ONE EXAMPLE
FOR YOUR
INSPIRATION**

DNV AND FINCANTIERI ARE DEVELOPING A HYDRO-DYNAMICALLY EFFECTIVE SOLUTION NOW AVAILABLE FOR THE MARKET.

FINCANTIERI'S PATENT-PENDING SOLUTION CONSISTS OF A SPECIALLY DESIGNED GRID AND A HINGED, SLOTTED DEFLECTOR COVERING THE FORWARD PORTION OF THE TUNNEL.

[Link: Suppressing thruster tunnel drag to conserve energy \(dnv.com\)](https://www.dnv.com)



REDUCING EMISSIONS BY CHANGING THE PROPELLER.

THE RIGHT, AND CLEAN, PROPELLER LOWERS THE FUEL CONSUMPTION SIGNIFICANTLY



**REDUCE
EMISSIONS BY
CHANGE OF
PROPELLERS**



**WIND
ASSISTED
PROPULSION
SYSTEMS
REDUCE FUEL
CONSUMPTIONS**

- ROTOR
- KITE
- RIGID SAIL
- SUCTION WING
- ...



**A WIND SHIELD
MAY REDUCE
THE FUEL
CONSUMPTION**



**FOR INSPIRATION ONLY.
CONSTRUCTION AND
INSTALLATION CARRIED
OUT BY HAPAG LLOYD
IN ASIA**

**REDUCE
EMISSIONS
BY
AIR
LUBRICATION
SYSTEM**



**REDUCE
EMISSIONS
BY USE OF
SHAFT
GENERATOR(S)
AND ENERGY
STORAGE
SYSTEM(ESS)**



**JUMBOIZATION:
IMPROVING
THE PROFIT-
ABILITY AND CII
BY INCREASING
THE VESSEL'S
CAPACITY**



REDUCE EMISSIONS BY RECOVERY OF HEAT IN THE EXHAUST AND SPARE RUNNING AN AUXILIARY ENGINE

From waste heat to added value
Retrofitting the onboard boiler solution with boiler technology that recovers waste heat from the main and auxiliary engines offers an emission reduction potential. Potential is reductions up to 14% on energy use and carbon emissions
(Source: Alfa Laval)



REDUCE EMISSIONS BY RECOVERY OF HEAT FROM THE EXHAUST AND/OR HT WATER, AND USE IT FOR COOLING OF THE ACCOMMODATION

By recycling the ship's thermal waste energy and utilizing it for heat-driven cooling, the ship's amount of fuel generated electricity used for cooling **can be reduced by over 90%**.

The COOL4SEA technology utilizes the ship's waste heat for cooling of Crew Quarters, Service Areas, Energy Storage System etc.

The technology is based on the unique and patented **"Active Spray Absorption"** cooling and developed specifically for use on ships.

The technology is **100% automatic** and adapts to variations in the temperatures and flows.

- Water is used as refrigerant.
- No additives.
- High operational reliability
- Practically no maintenance.

The only essential requirement is simply that the technology's key processes can be connected to three external circuits.





**REDUCE
EMISSIONS BY
CONTROLLING OF
CONSUMERS**

Control your consumption

Controlling of e.g. cooling pumps / ventilation fans' speed etc. using e.g. actual monitored temperatures, pressure, torque, volume or ...

Actual demand operation versus on/off approach

- Less fuel consumption causes less GHG.
- Less wear and tear.
- Less noise onboard.

FAYARD has installed several solutions for this purpose, all having a short return on investment for the Owner, and at FAYARD, we use flow control ourselves in our Dry Docks for filling and emptying.

Saving potential is related to specific vessel and its major operational area.

Roughly the average saving potential is app. 300t CO₂ per vessel per year.

**REDUCE
EMISSIONS BY
RIGHT
CONSUMERS**

LED Lights

- Replacing the lights onboard with low energy consumers as e.g., LED lamps not reduces the power consumption reflecting lower GHG emissions
- LED lamps also reflect lower heat generation and by such reduces the HVAC requirement.
- Relevant for especially Cruise, Ferries, PCTC vehicles carriers, RoRo vessels etc.



REDUCE EMISSIONS USING THE SUN FOR ASSISTED POWER- GENERATION IS POSSIBLE

Solar panels on the car carrier Emerald Ace. The 768 panels can generate about 160 kw, and the lithium-ion battery can store 2.2 megawatts per hour. The electricity to be used for air conditioning and illumination when the ship is at anchor. (Mitsui O.S.K. Lines Ltd., Mitsubishi Heavy Industries Ltd. and Panasonic Corp)

NOTE: FAYARD has yet not carried out any solar panel installations, though technology is available, and we are prepared.



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



**Emission to Air reductions
NEXT is NOx-Limitation**

**#NOx
#SCR Catalysator
#DPF Particle filters**

Selected Case Stories

**QUALITY
ON-TIME
ALWAYS**



Selective Catalytic Reduction (SCR)

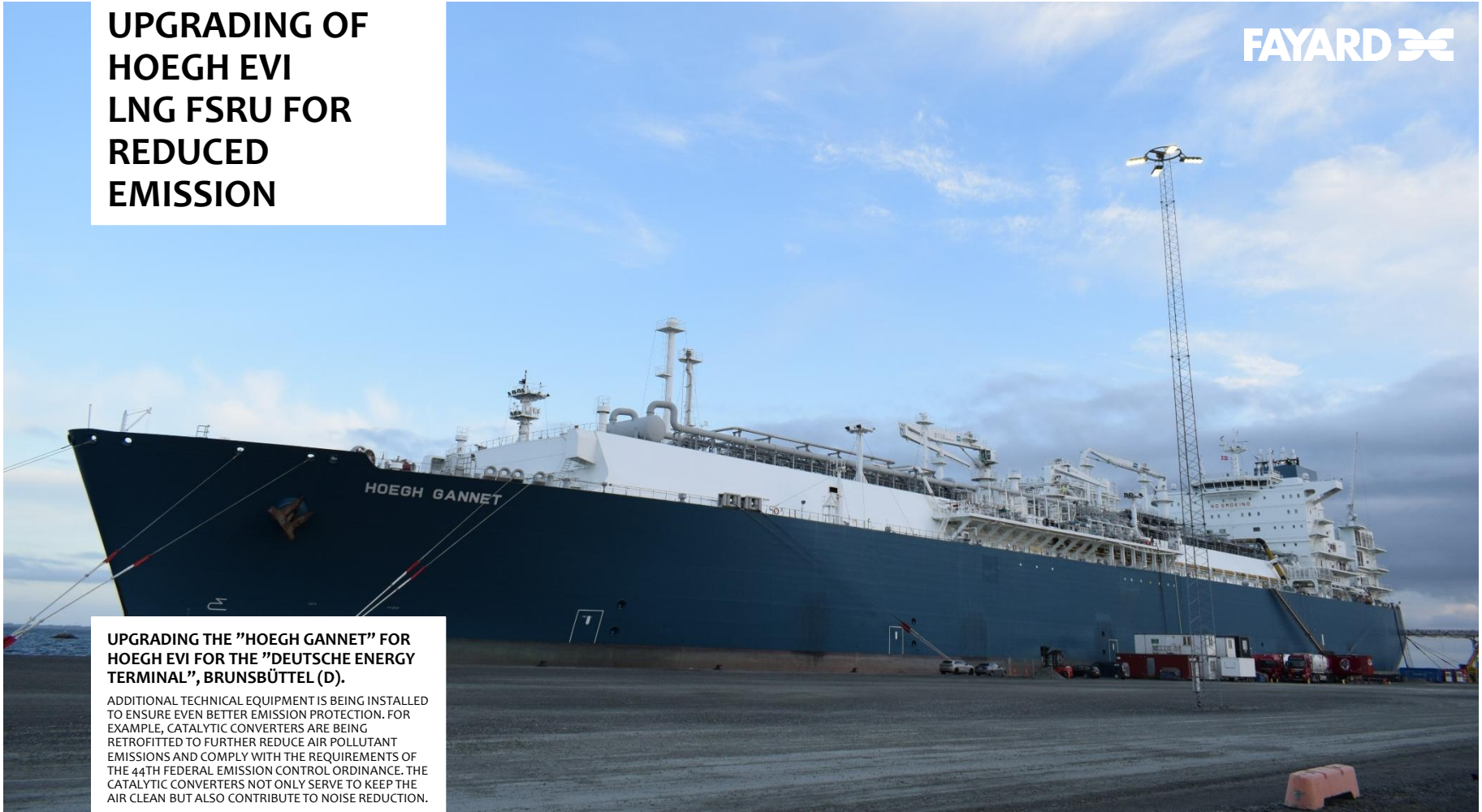
Emissions of nitrogen oxides (**NO_x**) from diesel engines affect air quality. For ships trading in the North Sea and the Baltic Sea ECA areas the tier III requirements apply for marine diesel engines with an output of 130 kW or higher for ships constructed on or after the 1 January 2021 as well as for new engines installed in all ships on or after the 1. January 2021. The requirements further apply to major conversions e.g. if the output of the engine is changed outside the limits in the **NO_x** approval or if the fuel injection system is changed. Replacement of an engine with an identical engine are exempted from the new requirements.

On a diesel vehicle, **NO_x** can be reduced significantly by means of an SCR catalyst, where **NO_x** reacts with ammonia to form nitrogen and water. Normally, a **NO_x** reduction level of 85-95% can be reached.

Competent and Efficient SCR Retrofits at FAYARD:

- 12 SCR Retrofits at FAYARD
- Treating total MW of engine emissions: 60 MW
- Range of SCR systems retrofitted: 4.5MW - 30MW
- Most SCR's in one vessel: 4 pcs
- Fastest SCR retrofit: 4 days
- Average of all 12 SCR retrofits: 10 days

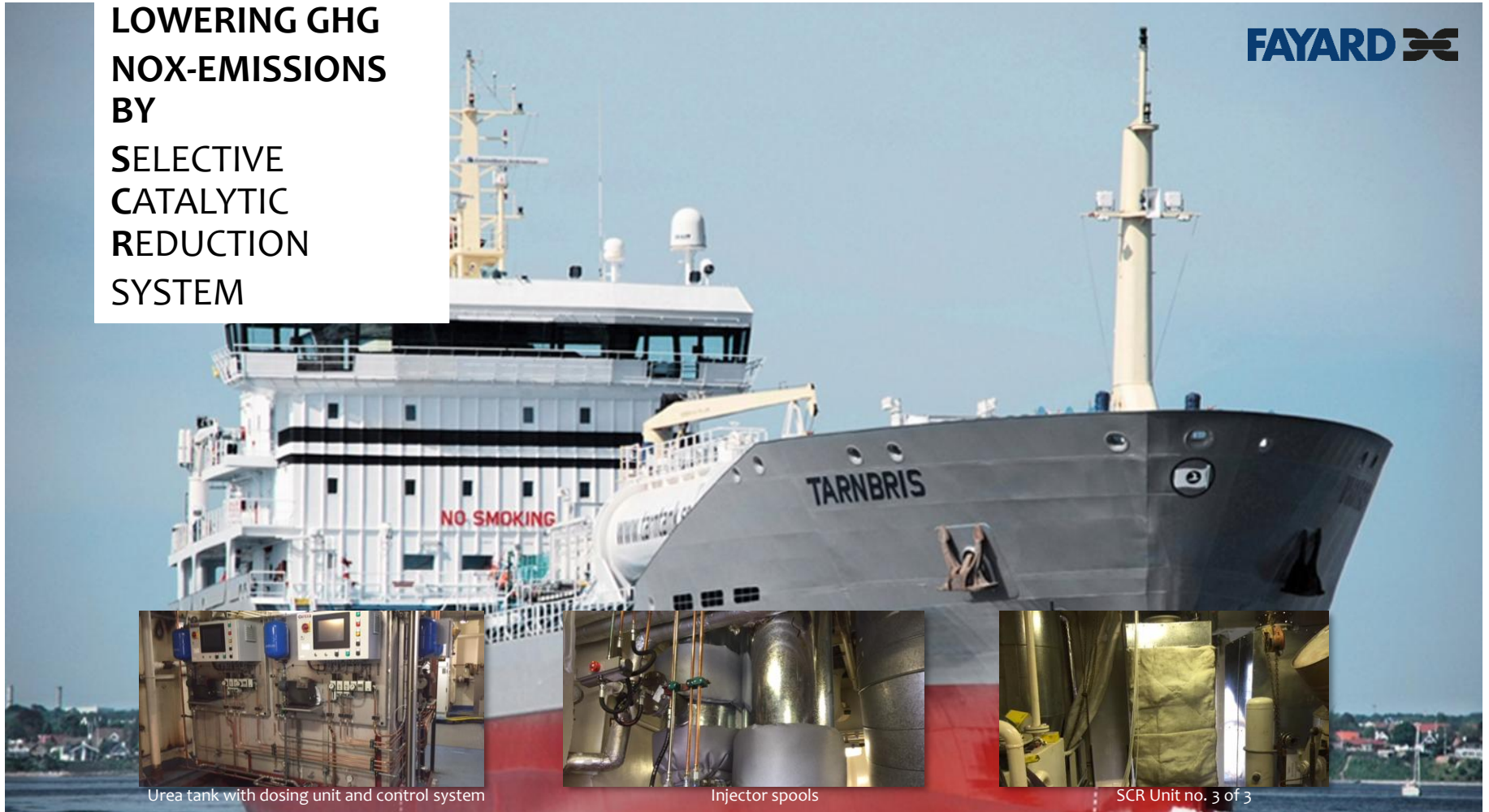
UPGRADING OF HOEGH EVI LNG FSRU FOR REDUCED EMISSION



UPGRADING THE "HOEGH GANNET" FOR HOEGH EVI FOR THE "DEUTSCHE ENERGY TERMINAL", BRUNSBÜTTEL (D).

ADDITIONAL TECHNICAL EQUIPMENT IS BEING INSTALLED TO ENSURE EVEN BETTER EMISSION PROTECTION. FOR EXAMPLE, CATALYTIC CONVERTERS ARE BEING RETROFITTED TO FURTHER REDUCE AIR POLLUTANT EMISSIONS AND COMPLY WITH THE REQUIREMENTS OF THE 44TH FEDERAL EMISSION CONTROL ORDINANCE. THE CATALYTIC CONVERTERS NOT ONLY SERVE TO KEEP THE AIR CLEAN BUT ALSO CONTRIBUTE TO NOISE REDUCTION.

**LOWERING GHG
NOX-EMISSIONS
BY
SELECTIVE
CATALYTIC
REDUCTION
SYSTEM**



Urea tank with dosing unit and control system



Injector spools



SCR Unit no. 3 of 3

**LOWERING GHG
NOX-EMISSIONS
BY
SELECTIVE
CATALYTIC
REDUCTION
SYSTEM**

FAYARD 



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

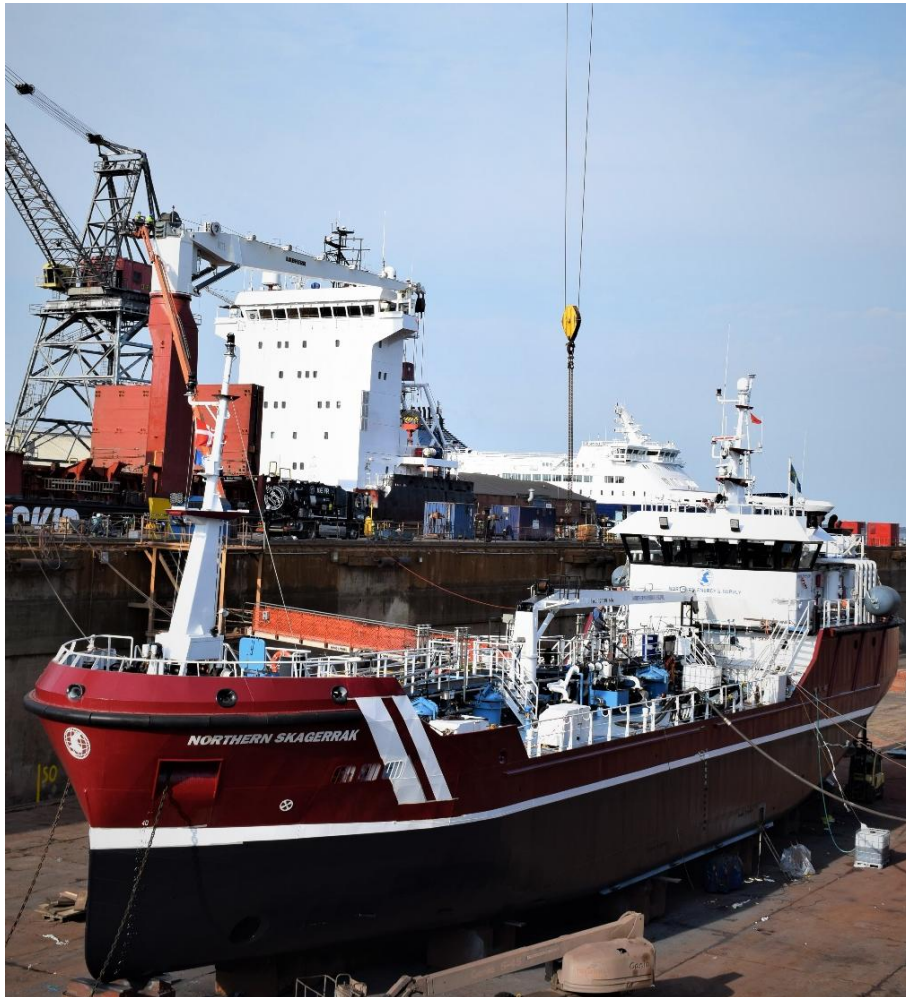


HYBRID Energy Storage Systems

for reducing emission to air

Selected Case Stories

QUALITY
ON-TIME
ALWAYS



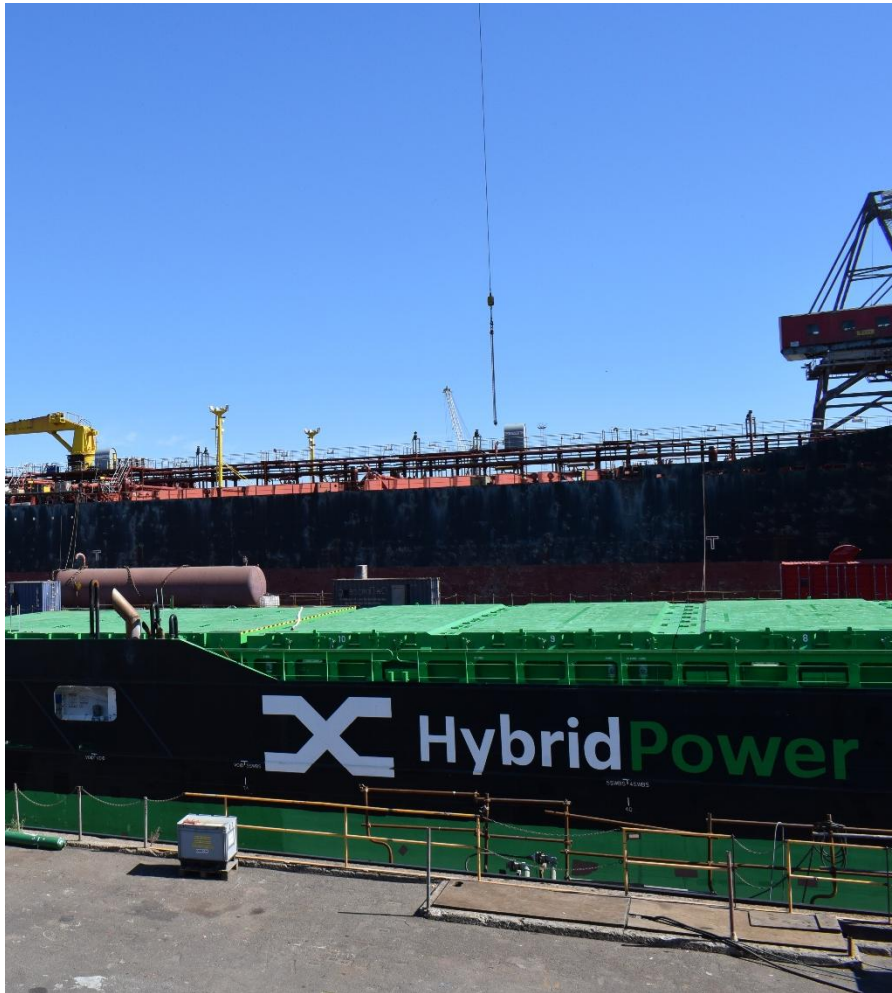
Parallel Hybrid Transmission

- The Northern Offshore Service's Bunkering Tanker is dependent on always having enough power for vessel operation in all terms
- Also, the vessels are required to be compliant to various port restrictions for emission as well as a Owner driven dedication to lowering the overall fleet footprint.
- At FAYARD we have installed Northern Offshore Services' newest hybrid solution: Parallel Hybrid Transmission (PHT). The PHT-solution consists amongst others of:
 - Esco Power PHT module installed between the diesel engine and the gearbox
 - Esco Power Hybrid Electrical Solution Package (HESP). HESP consisting of **efficient electric motors and generators**, electronic control and command system, control levers, screens, and software to benefit from various operation;
 - propulsion modes: diesel – electric – automatic and additional modes as: generator–back up–cross feed.
 - ZEM Battery system
 - ZEM Charging system
- Step up/down transformer



Hybrid Energy systems

- The Northern Offshore Service Vessels are dependent on always having enough power for vessel operation in all terms
- Also, the vessels are required to be compliant to various port restrictions for emission
- At FAYARD we have assisted Northern Offshore Services for upgrading the vessels to HYBRID operation, Diesel and/or Electrical propulsion made possible.
- 4 x Volvo Penta D13-700 DST (Tier 3) engines
- 4 x Volvo Penta IPS900 Q2 props
- ESS made ready for to allow charging by shore power for emission free sailing



Hybrid Power Systems Example for inspiration

The Green Coaster Shipping's new vessel series for short sea general cargo is a cutting-edge vessel that emits up to 50% less CO₂ compared to the previous generation of ships, thanks to innovative features such as **shore power connectivity**, **significant battery installation**, and improved cargo intake. These advancements not only help reduce greenhouse gas emissions but also ensure quieter and cleaner operations while docked.

At FAYARD we have assisted the technical management , GoTa Ship Management with normal vessel maintenance activities only but find the vessel Hybrid Power System solution worth sharing for inspiration

Dual Fuel LNG/MGO System Example for inspiration

The ferry operator TT-Line's Green Ships have 5 stars score in the Clean Shipping Index. The LNG propulsion reduces emission: 98% less Sox, 82% less Nox, 93% less particles, 22% less co2 when running on LNG vs. MGO

- Low friction hull paint
- Fin Stabilizers with Eco Mode
- HVAC plant with Cold Recovery from coolness of LNG, Alaska Coolers for use of the coldness from the sea water, Heat Recovery System for absorbing energy from the out going warm air to warm up the ingoing air.
- Cabins have “Eco Mode” to minimize cabin consumption when the passenger is not in the cabin.
- Lights all over are LED reducing power demand by 80% and reduces heat generation as well.
- E-Car charging stations for passenger's e-cars





Plug-in Hybrid

Color Line's "Color Hybrid"

– World Largest plug-in Hybrid Ship in operation from 2019

The ship has full battery operation in and out of the fjord to Sandefjord inner harbor. The ship therefore does not emit emissions to air from harmful environmental gases and the noise is significantly reduced. At 100 m distance to the ship, the noise corresponds to a normal conversation between two people.

Passengers	2000
Crew	100
Cars	500
Batteries (ESS)	5MW equal to app 60min maneuvering at 0-12 knots
Power generation	4 diesel electrical engines & Waste Heat Recovery System
Drives	2 CP propellers (16.8MW Mcr)

Onshore power plants for Shore Connections

The company has been a driving force in the establishment of onshore power plants in Norwegian ports. Oslo in October 2011. Kristiansand in 2014, Larvik in 2016, Sandefjord in 2017 and Kiel 2019

Total annual CO₂ emissions are reduced by about 8 000 tons CO₂. In addition, the local environment is saved for large point emissions of NO_x, SO_x and particulate matter, as well as a significant reduction in noise when the ships are docked.



© Scandlines / Claus Lillevang

Hybrid Energy systems

- Vessels are dependent on always having enough power for vessel operation in all terms
- When one single solution is not the right approach, the securing of the propulsion can be achieved combining more state-of-the-art solutions into one Hybrid Energy system
- At FAYARD we have teamed up with Owners in a wide range of system combinations to achieve the most suitable Hybrid Energy systems for specific vessels:
 - Emission hybrids
 - Fuel system hybrids
 - Power generation hybrids
 - Energy Storage Systems
 - And more to come



Electrical – Electrical Propulsion

HYBRID Options

- Diesel - Emission controlled by closed loop Scrubbers
- Diesel – Electrical - Emission controlled by closed loop Scrubbers
- Electrical – Electrical - Zero Emission from the propulsion

Scandlines is the first ferry operator in the world introducing a large scale hybrid system, which can store excess energy in batteries on board.

Scandlines' visions of sustainable ferry services go even further. The ambition of the green strategy is ultimately **zero emission**; that is, a propulsion system for the ferries without any emissions.

A key goal is to optimize the fuel consumption of the two new ships for Rostock-Gedser – and to comply with applicable environmental requirements.

This is done by Scandlines' award-winning hybrid propulsion system and by exhaust gas cleaning solutions (closed loop scrubbers), which reduce the Sulphur emissions by at least 90 percent and thereby comply with the 2020 standards for Sulphur limits.



Battery power a condition for vessel contracts

DOF CARRIED OUT THE HYBRID CONVERSION OF SKANDI MONGSTAD AT FAYARD

DOF's Skandi Mongstad went to FAYARD for conversion early 2018.

The conversion for battery hybrid operation is now required under contracts awarded by Equinor: All vessels to be equipped with hybrid battery operation, and the possibility of shore power connection. This will allow the vessel to reduce fuel consumption while working in dynamic positioning mode.

Equinor says, that with an ambition of being a leader in carbon-efficient oil and gas production, it is focusing on reducing emissions from its logistics activities. The contract requirement will allow to focus on optimizing our operations to continuously improve operation, safety and energy efficiency.

Hybrid propulsion that combines electric drives, diesel generators and batteries can make offshore vessels more fuel efficient, reducing fuel consumption, CO₂ emissions and enhancing the level of redundancy onboard.

Batteries also smooth the load by compensating for peaks and troughs, as well as enhancing safety and reliability by providing back-up in the event of blackouts.

The ability of battery-based Energy Storage Systems to provide peak shaving, power smoothing and power for dynamic positioning operations, features are especially applicable to OSVs.

7 AFFORDABLE AND CLEAN ENERGY



SHORE TO SHIP POWER

Alternative Marine Power (AMP):

FAYARD's SHORE CONNECTIONS

Reducing emissions to air when in Port, at lay-up and when at FAYARD.

In 2022 59.3% of the electrical power in Denmark was generated from the Wind and the Sun.

AMP made possible by FAYARD's solution

**QUALITY
ON-TIME
ALWAYS**



**ALTERNATIVE
MARINE POWER
(AMP):**

**LOWER THE
VESSEL'S
EMISSION
USING SHORE TO
SHIP POWER
WHEN IN PORT.**



FAYARD 

Innovative SHORE to SHIP POWER



- **Green Energy solution at FAYARD**
FAYARD has 10 mobile shore connecting power supply systems 300A/690V, 500A/440V & 1500A/440V with Vacon AC drives to provide electricity from the national grid to the app 130 vessels and platforms, yearly in dock or alongside at FAYARD.
- The Shore to Ship solution can supply the required voltage and the required frequency.

The green solution has many advantages:

- Proven Technology – has been in operation since 2009.
- Low exhaust emissions, great flexibility.
- Power, voltage and frequency,
- Lower costs of operation, noise and GHG-emissions.
- The Green Energy Shore Connections are incorporated in FAYARD's ISO14001:2015 certification.

7 AFFORDABLE AND CLEAN ENERGY



**THE ESTABLISHING OF FUTURE
FOSSILFREE POWER
REQUIRES SIGNIFICANT
MARITIME INVOLMENT**

**QUALITY
ON-TIME
ALWAYS**

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



FUTURE FUELS

for reducing emission to air

Selected Case Stories

QUALITY
ON-TIME
ALWAYS

**LOWER EMISSION
PROJECTS**

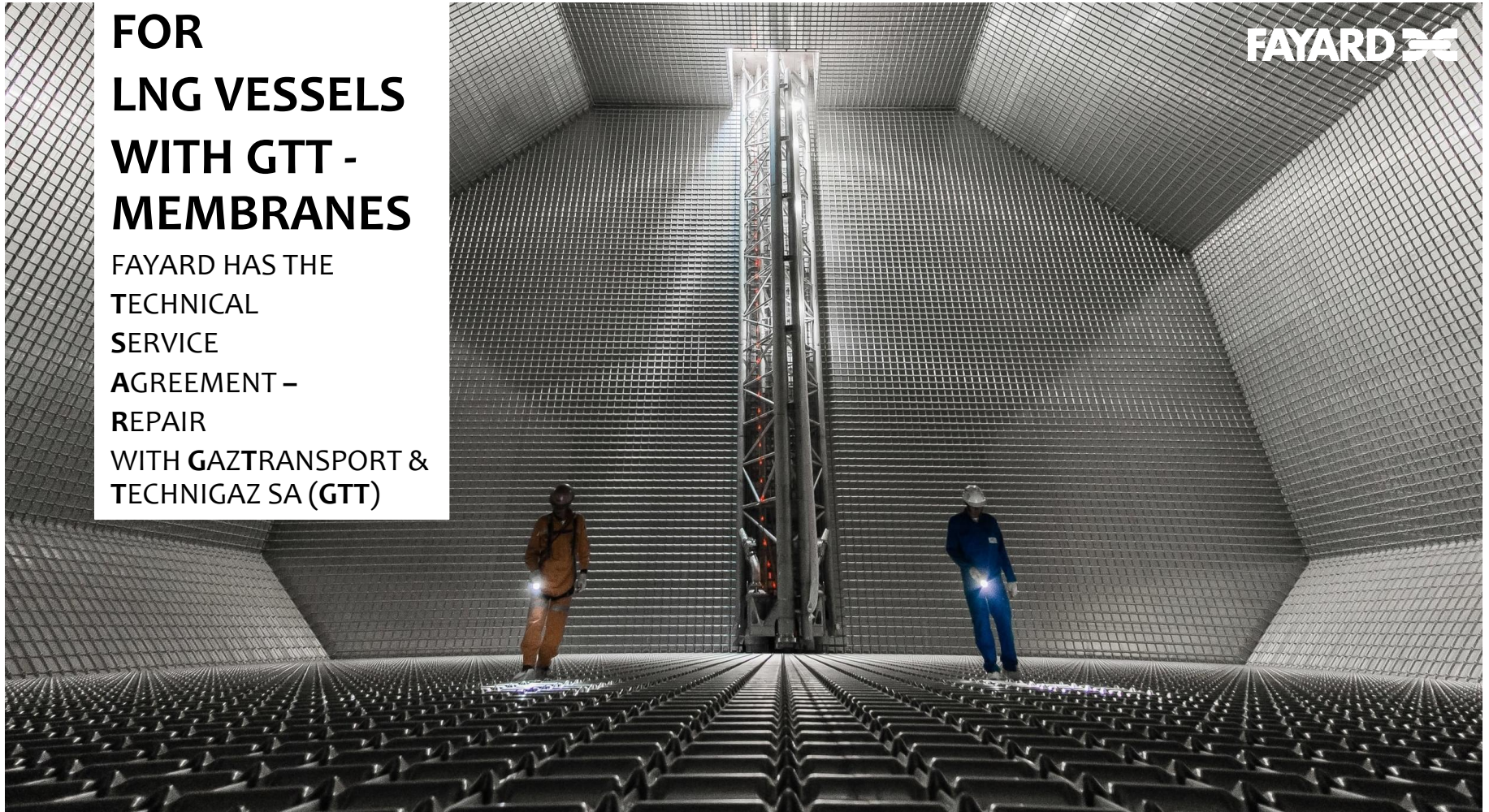
**UPGRADING TO
DUAL FUEL
PROPULSION**



**QUALITY
ON-TIME
ALWAYS**

FOR LNG VESSELS WITH GTT - MEMBRANES

FAYARD HAS THE
TECHNICAL
SERVICE
AGREEMENT -
REPAIR
WITH GAZTRANSPORT &
TECHNIGAZ SA (GTT)



LOWERING THE VOLATILE ORGANIC COMPOUND EMISSIONS

Today the KNUTSEN shuttle tanker **BODIL KNUTSEN** can use Liquid-VOC as dual-fuel for onboard energy generation reducing traditional energy consumption and the overall emissions.



Making Global Goals Local Actions



Improvements Implemented

- We are fully committed to conducting our activities in an environmentally responsible manner. In our attempt to run a yard that is as environmentally friendly as possible we have amongst others
- Dry Docks are environmentally Closed Loop systems
- Hull Cleaning by Water Jetting as standard
- Shore Power availability reduces vessel emissions
- Tank Washing Water Receive System (Slop)
- Vessels in Inerted condition allowed
- Lower VOC Emission to air than allowed quota
- Waste Management System in operation
- All Chemicals are stores in Secured areas
- Recycling of scrap materials availability
- LED-bulbs where applicable
- EU-approved Ship-recycling facilities

MANAGEMENT SYSTEM

Certified to the ISO 9001, 14001 & 45001 standards by Bureau Veritas

FAYARD's special focus on adapting to your requirements means that we are able to take on any roles that you would like us to.

We co-operate very efficiently with makers and owners in Energy Efficiency projects in order to make a clear split of the work in the project in advance, including the following scopes:

- Engineering
- Procurement
- Construction
- Installation
- Commissioning

In doing so, we make sure that you will see your vessel handled effectively and that the project progress is fast, and your assets spends the least possible time in yard.

Naturally, quality, safety, and compliance are warranted by our various systems and work ethics.

FAYARD – Trusted to Perform

A worker in a dark uniform and safety gear is positioned on a metal lift platform, working on the curved, rusted metal surface of a large vessel. The worker is using a tool that produces a bright, orange spark spray. The background shows the vast, curved interior of the vessel's hull, with some faint markings and a circular hatch visible.

QUALITY
ON-TIME
ALWAYS

CERTIFIED MANAGEMENT SYSTEM

FAYARD 

Bureau Veritas Certification

Fayard A/S
Kystvejen 100, 5330 Munkbo, Denmark

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2015
Scope of certification

Docking and repair of ships and floating units.

Original cycle start date: 08-03-2012
Expiry date of previous cycle: NA
Certification / Recertification Audit date: 06-02-2024
Certification / Recertification cycle start date: 08-03-2024
Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: 07-03-2027

Certificate No.: DK016992 Version: 1 Issue date: 13-02-2024

Phil Absalonen

Signed on behalf of BVCH SAS UK Branch
Certification Body Address: 5th Floor, 66 Prescott Street, London, E1 6HG, United Kingdom
Local Office: Bureau Veritas Certification Denmark A/S, Skolebørggade 25-31, 7000 Fredericia

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +45 77 21 8000

UKAS Certificate Template Single Site Rev. 4.1 28 Aug 2023



9001:2015

Bureau Veritas Certification

Fayard A/S
Kystvejen 100, 5330 Munkbo, Denmark

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 14001:2015
Scope of certification

Docking and repair of ships and floating units.

Original cycle start date: 01-05-2017
Expiry date of previous cycle: NA
Certification / Recertification Audit date: NA
Certification / Recertification cycle start date: 01-05-2023
Subject to the continued satisfactory operation of the organisation's Management System, this certificate expires on: 30-04-2026

Certificate No.: DK016996 Rev: 1 Issue date: 19-04-2023

Phil Absalonen

Certification Body Address: 5th Floor, 66 Prescott Street, London, E1 6HG, United Kingdom
Local Office: Bureau Veritas Certification Denmark A/S, Skolebørggade 25-31, 7000 Fredericia

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +45 77 21 8000



14001:2015

Bureau Veritas Certification

Fayard A/S
P-no. 1001710770, Kystvejen 100, 5330 Munkbo, Denmark

Bureau Veritas Certification Denmark A/S certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standards detailed below

Standard
ISO 45001:2018
Executive Order No. 1409 / 2020
Scope of certification

Docking and repair of ships and floating units.

Original Cycle Start Date: 13-06-2023
Expiry date of previous cycle: NA
Certification/Recertification Audit date: NA
Certification/Recertification cycle start date: 13-06-2023
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 12-06-2026

Certificate No.: DK016932 Version: 1 Issue Date: 13-06-2023

Phil Absalonen

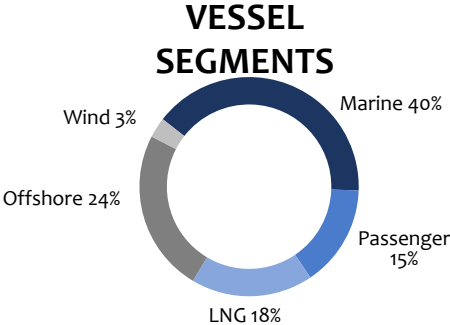
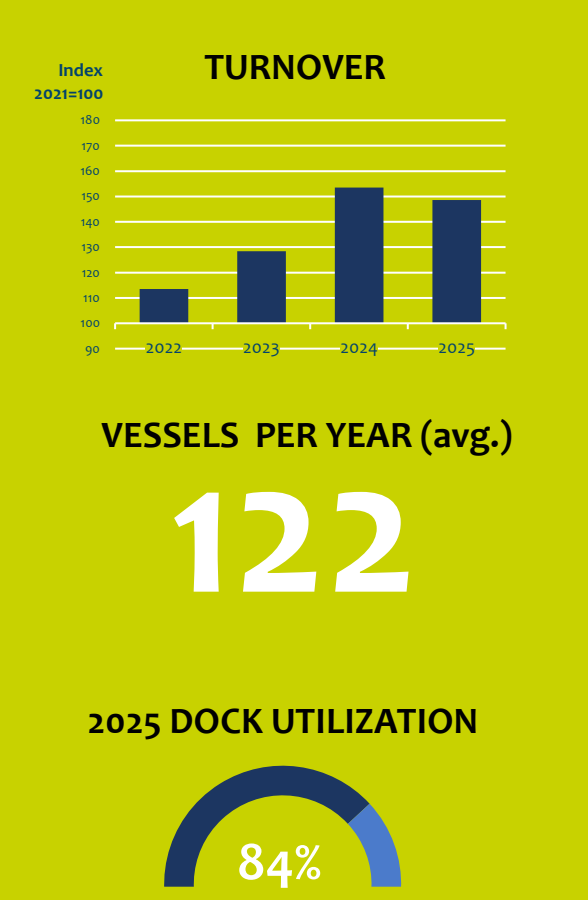
Certification Office: Bureau Veritas Certification Denmark A/S Skolebørggade 25-31, 7000 Fredericia, Denmark

Further clarifications regarding the scope of this certificate and the applicability of the Management System requirements may be obtained by contacting the organization. For more, this certificate validity please call: +45 77 21 8000

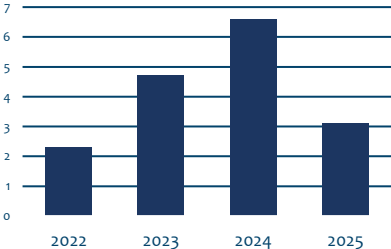
 

45001:2018

THE NUMBERS



OSHA TRIR (the 200,000 hrs benchmark)



DELIVERED ON-TIME

100%

PART OF TURNOVER FROM RETURNING CUSTOMERS

94%

AVERAGE WORKING HOURS PER YEAR



DOCK AVAILABILITY Meets requested service slot

96%

Quality - On time - Always



Thomas Andersen
CEO
ta@fayard.dk
+45 2073 6000



Morten M. Pedersen
Vice-CEO
mmp@fayard.dk
+45 2161 5530



Kristian E. Andersen
COO
ka@fayard.dk
+45 2161 5536



Jesper Gravesen
QHSE Manager
jg@fayard.dk
+45 2161 5535



Ivan S. Larsen
CCO
Sales & Marketing
isl@fayard.dk
+45 2161 5522



Lisa Brenneisen
Area Sales Manager
Central Europe
lb@fayard.dk
+49 151 6884 3524



Carsten Due
Senior Manager
Retrofit projects
cd@fayard.dk
+45 2161 5520



Jon Lohmann
CTO
jl@fayard.dk
+45 2161 5521



Kent Gorm Nielsen
Project Manager
kgn@fayard.dk
+45 2161 5571



Henrik Stammer
Project Manager
hs@fayard.dk
+45 2161 5523



Kenneth Clausen
Project Manager
kc@fayard.dk
+45 2161 5534



Peter Krogh Nielsen
Sales & Calculation
pkn@fayard.dk
+45 2161 5538



Michael Sommer
Sales & Calculation
ms@fayard.dk
+45 2161 5578



Kenneth Thomsen
Sales & Calculation
kt@fayard.dk
+45 2565 9145



Thomas G. Hansen
Project Manager
tgh@fayard.dk
+45 2565 9148



Casper K. Sørensen
Project Manager
cks@fayard.dk
+45 2161 5526



Benjamin Sørensen
Project Manager
blsj@fayard.dk
+45 2760 1153



Bo Grønkjær-Petersen
Project Manager
bgp@fayard.dk
+45 2565 9163