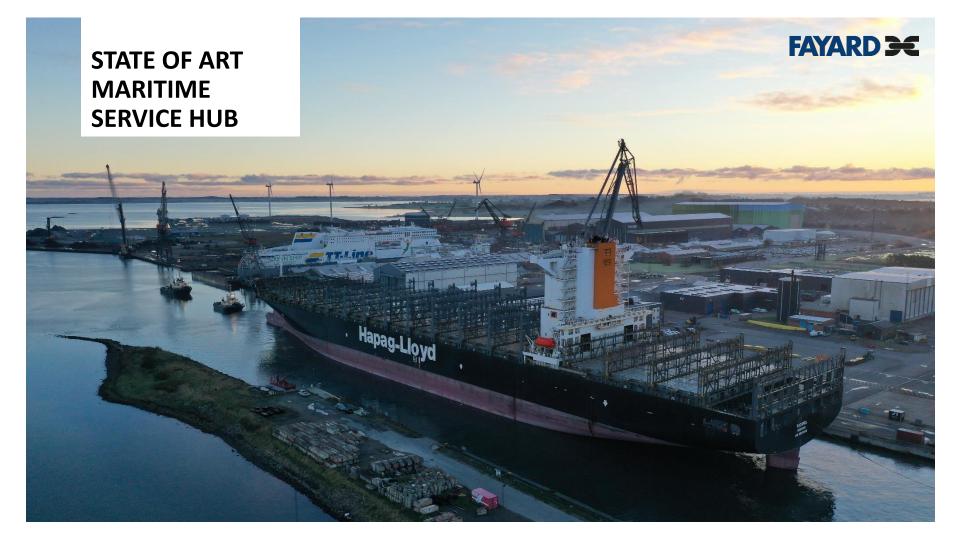


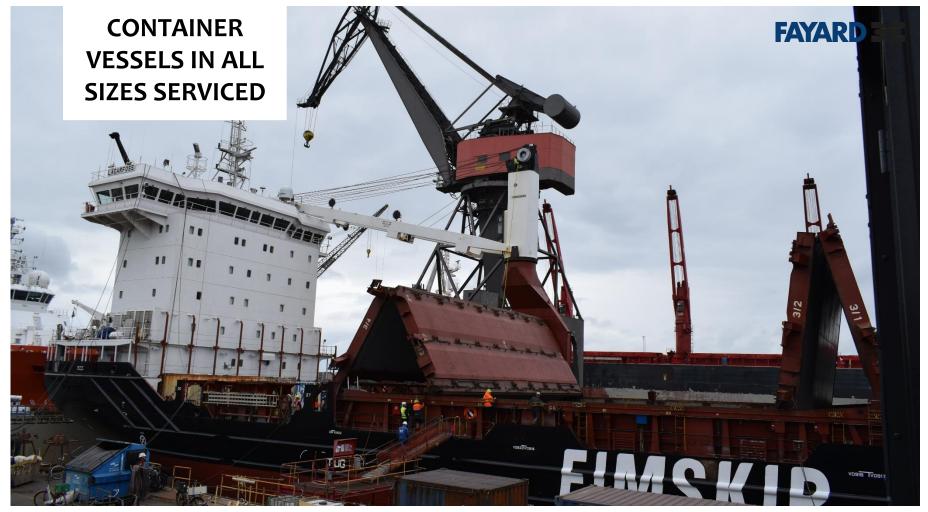
#Image #Brochure #Containervessels #2024 #Modern #StateOfArt #MaritimeServiceHub #Shipyard #OnTimeDeliveries #Action #RealAction







-



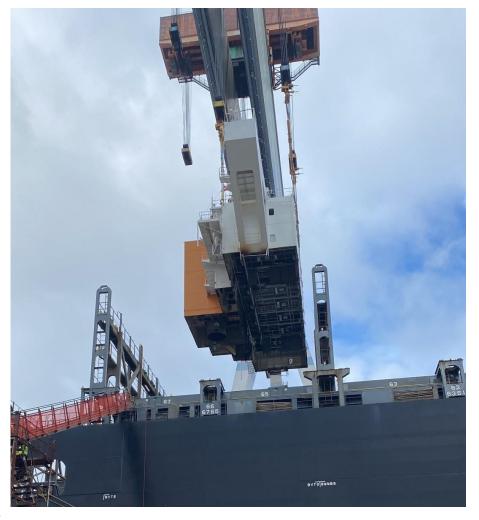


TRUSTED TO PERFORM SINCE 1916





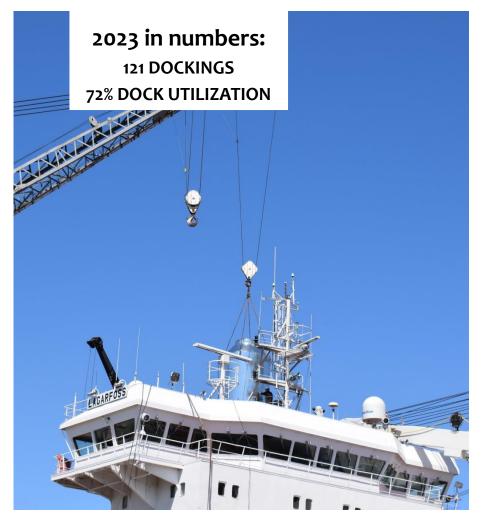




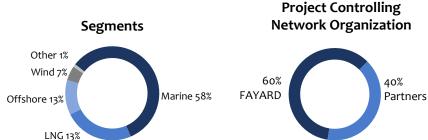
Key Facts

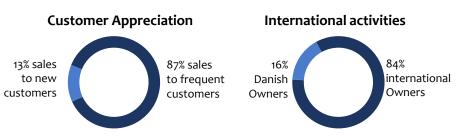
- Private Owned & Managed Shipyard,
- Founded by the Andersen family in 1916.
- Located centrally in Denmark at the entry to the Baltic Sea.
- Large, modern and efficient Maritime Services Hub with
 - 4 large dry docks
 - Superior cranes
 - Plenty of quays and workshops to meet any requirements on maritime vessels, jack-ups and semi-submersibles
- 120-130 vessels per year in for services.
- More than 1,200 dockings in present facilities.
- Fast and efficient workflow.
- Highly skilled Workforce.
- High-Capacity yard.
- 10% of our workforce are Apprentices by purpose!
- ISO 9001, 14001 & 45001 certified by Bureau Veritas
- EU Approval for Ship Recycling

108 years of being On-Time









108 years of being On-Time

Quality - On time - Always





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Project Manager man@fayard.dk +45 2746 9830





REPAIR

Our facilities and highly skilled staff enable us to repair any kind of damage.

We have gained our reputation

through short lead times for repair projects, excellent quality and a minimum of docking time.

As with all other work at FAYARD, each project is assigned a dedicated project manager ensuring excellent communication and delivery within the agreed schedule.

CONVERSION

We have the resources and the capacity to do all imaginable conversions, whether it is conversions into cable laying vessels, lengthening of vessels, additional accommodation projects or conversions of rigs and jack-ups. Typically, we combine conversions with up-grades of various systems in order to optimize operation of the vessel, e.g. bulb ex-change.

REBUILD

We also have great experience with life-time extensions and are able to carry out the most challenging and extensive rebuilding projects within short and fixed delivery schedules while our high quality is maintained.

RETROFIT

We are specialized in retrofitting ballast water treatment systems (BWTS), scrubbers/ Selective Catalytic Reduction (SCR) systems and Engine LNG conversions. Retrofits of bulb, propeller and rudder system to ensure operational efficiency, and reduce consumption/emission, as well as retrofitting for compliance.

The unique key to successful installation is preparation of all interfaces and dependencies throughout the supply chain from engineering/design over maker's timely delivery, installation, logistics to class approval capacity. Thousands of vessels require BWTS retrofit before September 2024 - get peace of mind by teaming up with makers and FAYARD.

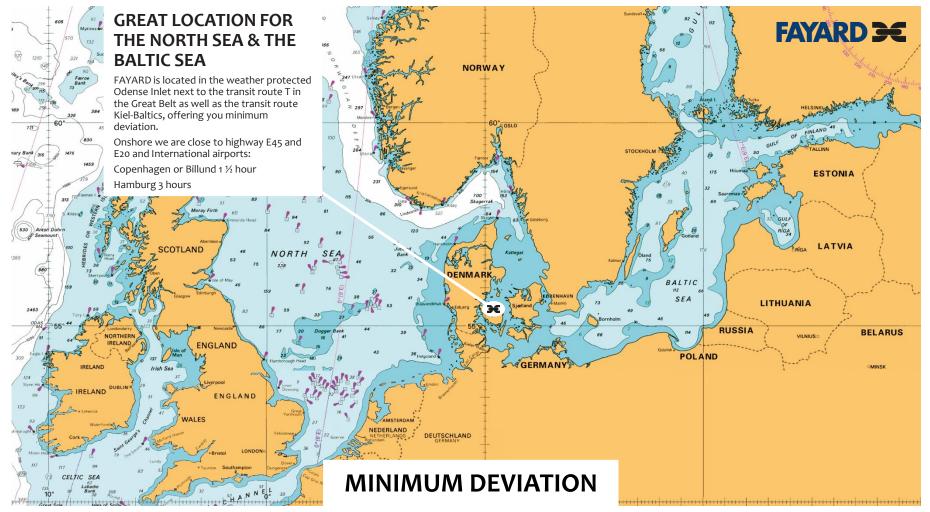
OFFSHORE

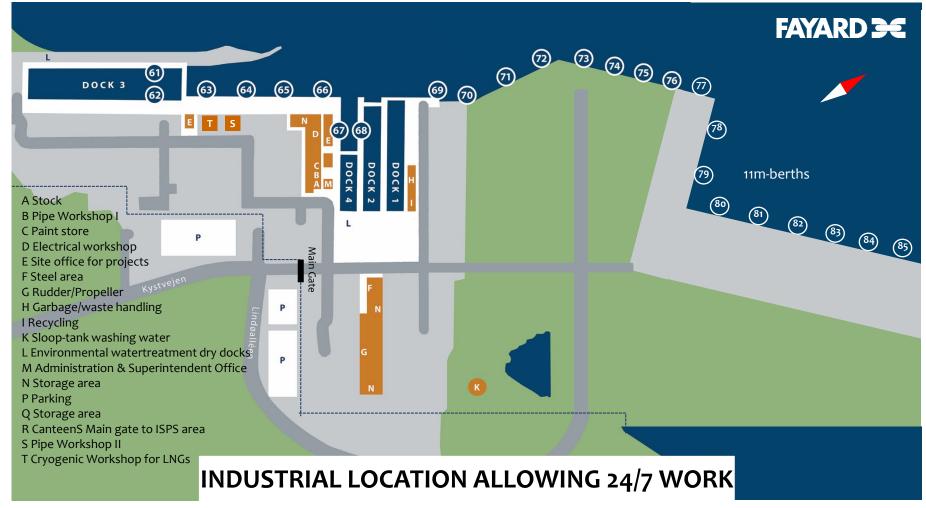
We handle renewal surveys, special periodic surveys, upgrades and other work on rigs efficiently and in a safe and speedy manner. Our HSEQ set-up dedicated to safety, includes a second to none work permit system, developed specifically to offshore requirements.

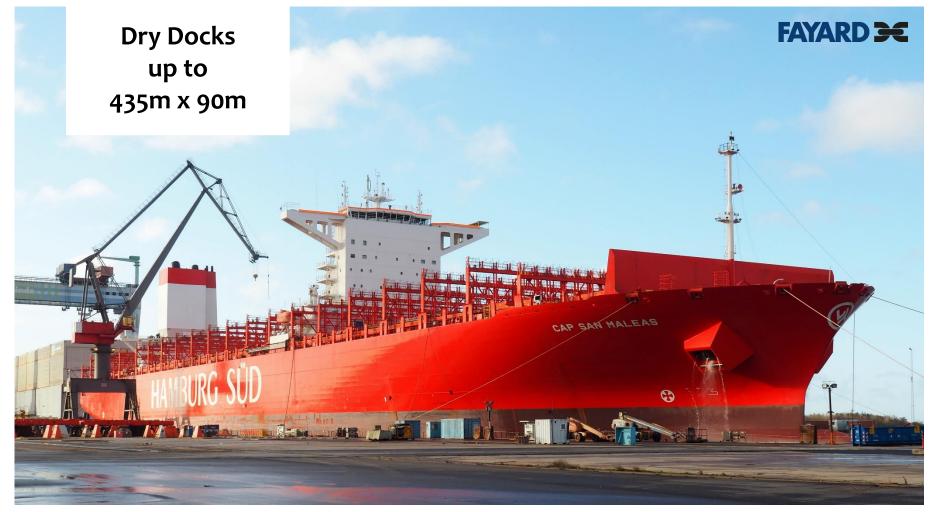


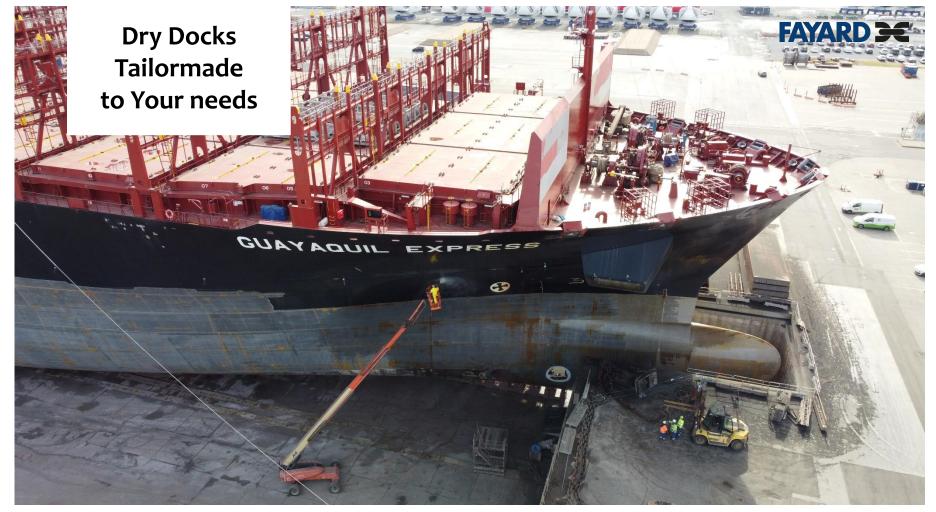
DECOMMISSIONING AND SHIP RECYCLING

Our facilities offer well located large-scale decom-missioning facilities for vessels, wind turbines, off-shore oil & gas structures & platforms. Our com-prehensive, professional setup including pollutant handling is adapted at The European List of Recycling facilities pursuant to the EU Regulation No. 1257/2013 in force.











FACILITIES

Our easily accessible and efficiently organized area includes 4 dry docks, 6 cranes, 3 construction & assembly halls, modern disposal facilities and on-site workshops.

DRY DOCKS

Dock 1 303 x 45 x 7

Dock 2 280 x 44 x 7 dock-pit 6.2 x 6.2 x 2.4 m Dock 3 335/435 x 90 x 8 dock-pit 14.0 x 6.0 x 3.5 m

9.0 x 6.0 x 3.5 m

(at each dock)

400 V - 50 Hz

TOTAL AREA

165,000 m2

ELECTRICAL SHORE POWER

1000 A - 440 V - 60 Hz 1200 A -

Dock 4 145 x 30 x 8 dock-pit 6.2 x 6.2 x 2.4 m

CRANES

Capacity up to 1,200 tonnes

REPAIR BERTHS

Max. draught 7m - 11 m

CONSTRUCTION & ASSEMBLY

HALLS

32,000 m2

TANK WASHING WATER DISPOSAL FACILITIES

Up to 600 m3

MODERN DRY DOCKS

In 2011, we invested in 3 modern dock gates and an upgrade of the pumping systems for the docks with dock-pits to increase the docking efficiency.

Due to these upgrades, we

can start working on your vessel only 3-4 hours after your arrival.

The dock gates in 3 of our docks open or close in just 4 minutes.

BERTH AND OTHER FACILITIES

For offshore platforms and semi-subs, we have the required berth facilities.

Jacking-up is possible.

Berths are used for the type of work that does not specifically requires dry docking.

ENVIRONMENT

We are fully committed to conducting our activities in an environmentally responsible manner.

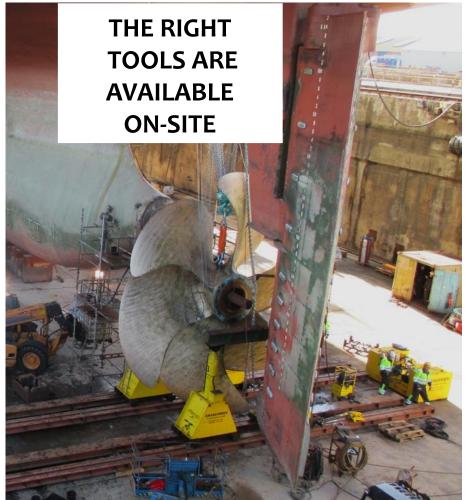
In our attempt to run our yard as environmentally friendly as possible we have invested in - two state-of-the-art wastewater treatment facilities with connections in the dock, for e.g. tank washing water. One set of tanks is connected to 3 of our docks and the other is connected to the large Dock 3. UHP water jetting capacity for fast hull process in all docks

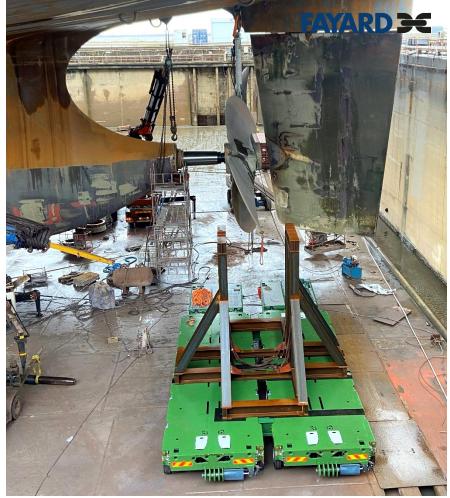
MANAGEMENT SYSTEM

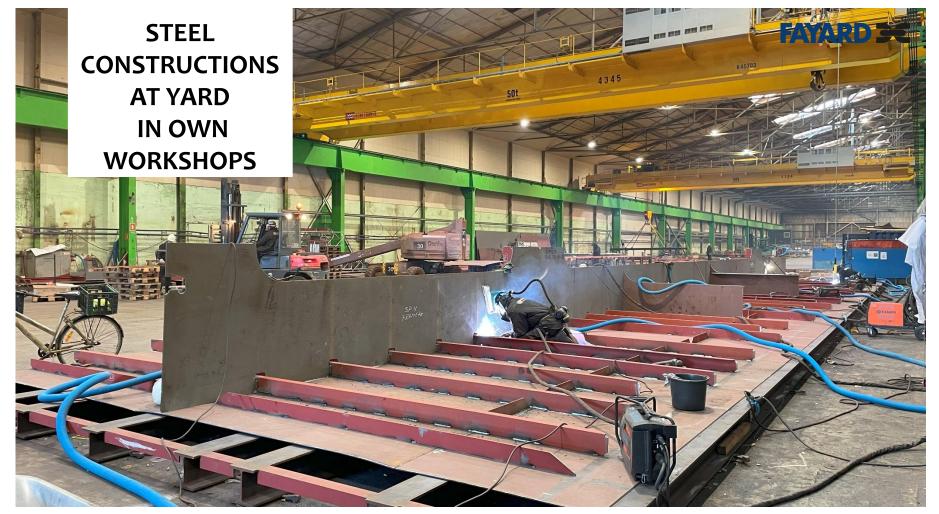
Certified to the ISO 9001, 14001 & 45001 standards by Bureau Veritas

















QUALITY

At FAYARD we want our clients to leave the facilities with the highest quality of work done on their asset. To ensure constant focus on keeping our high quality, we have implemented the ISO9001:2015 and the ISO14001:2015 management systems. The systems cover all the processes in the yard, and it is certified by BV. Naturally, we are continuously improving our processes and systems.

GTT MEMBRANE LNG VESSELS

In 2020, Gaztransport & Technigaz SA (GTT) and FAYARD signed Technical Service Agreement for Maintenance and Repair of GTT membrane LNG carriers allowing servicing of the vessels in the FAYARD facilities. For the services FAYARD is teaming up with certified specialists.

HEALTH & SAFETY

We hold our employees and the crews of visiting vessels in the highest regard. Our Occupational Health and Safety Management System (OHSMS) is a fundamental part of our Safety and Risk management and is certified by Bureau Veritas to the ISO45002:2018 standard. We demand a strict adherence to our safety policy from our workforce, and others under our control, in order to protect all and prevent accidents.

FAYARD has set the goal of achieving zero occupational injuries and illnesses by continuously improving our prevention practices, awareness and controls.

Specifically developed to safety of personnel, FAYARD has amongst others developed and implemented the FAYARD Smart Boarding System, an innovative IT system that monitors entering and leaving of personnel to vessel and drydock. Project Management can always see who is where – and in case of emergency whether all has left the sites.

QUALITY - ON TIME - ALWAYS



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

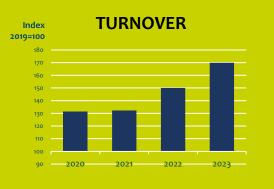
In doing so, we make sure that you will see your vessel handled effectively and that the project progress is fast, and your assets spends the least possible time in yard.

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

FAYARD - Trusted to Perform



FAYARD 🗲



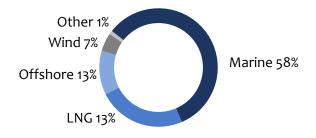
VESSELS PER YEAR (avg.)

2023 DOCK UTILIZATION



THE NUMBERS

SEGMENTS



DELIVERED ON-TIME

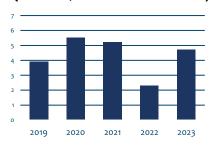


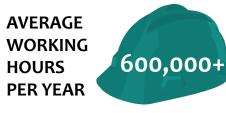
PART OF TURNOVER FROM RETURNING CUSTOMERS



OSHA TRIR (the 200,000 hrs benchmark)

FAYARD 🔾





DOCK AVAILABILITY Meets requested service slot





- We are fully committed to conducting our activities in an environ-mentally 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 Vaporized 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









































13 CLIMATE ACTION



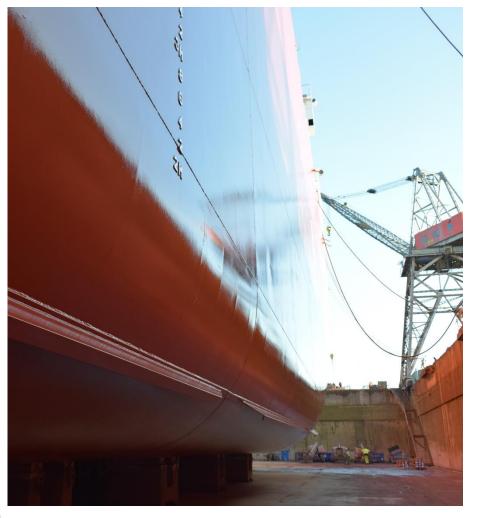
Climate change is one of the biggest sustainability challenges of our time.

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









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
- Latests projects are made with Hempadur X7 & X8

Clean Hull = Less Emission











Hybrid Scrubber

- U-Type
- 54 MW
- 24 days





Competent and Efficient SOX-scrubber Retrofits

Scrubbers retrofited at FAYARD	90
Treating total MW of engine emissions:	821MW
Closed Loop Zero Discharge scrubbers:	22
Closed Loop scrubbers:	24
Hybrid Ready scrubbers:	37
Open Loop scrubbers:	7
Largest scrubber retrofitted is for	54.2MW
Smallest scrubber retrofitted is	7.3MW
Most scrubbers in one vessel: 5 for total	22.3MW
Fastest Scrubber retrofit:	7 days
 Average installation time of above 	
90 scrubber retrofits:	18 davs





Retrofits & Upgrades

- FAYARD has own large, well equipped and suitable workshops in Yard
- Construction, Installation and Outfitting is done in advance to minimize the duration of your yard-stay
- Lifting by crane up to 1200 t allows larger work scopes in advance and fast efficient installation onboard



AFFORDABLE AND CLEAN ENERGY



SHORE TO SHIP POWER

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 was generated from the Wind and the Sun

"COLD IRONING" made possible by FAYARD's solution

QUALITY ON-TIME ALWAYS

Innovative SHORE TO SHIP POWER - Cold Ironing



Most vessels have shore connecting equipment allowing power supply from ashore when in port or yard. For the onshore supply of power to the vessel, FAYARD and Danfoss have developed the "Clean Power" shore supply system.

At FAYARD we naturally use the solution having 10 systems in use 2022: 59.3% of Provided electricity was generated in Denmark from the Wind and the Sun.

We sell, rent, lease the solution to Ports and Owners in need for the right Shore to Ship interface between the domestic onshore power grit and the vessel.





Solving the shore supply challenge

power supply. The load on a ship is not peaks, presenting a major efficiency simultaneously ensuring low baseline balance to achieve. Normally it requires a large reserve supply.

The solution for FAVARD A/S shipward in Denmark was to convert from a diesel generator based to an electric shore upply system using VACON® NXP Air

Before: Costly to run with four dry docks up to 415 m in types of maritime wessels can be epaired, maintained and upgraded

Before 2010, when ships were in dock he electrical shore power supply war ower to the 60 Hz grid on board the ship. Unfortunately they were costly typically had a stand-by consumption

2 Danford Driver - DADD RC 922 A1 02

For larger ships, the power was supplied by portable diesel generator sets which were leased for each project. The diesel gensets typically consumed 800 litres of fuel per day. Efficiency was also very poor since the generators ran at extremely low loads most of the

whe VACON* AC drives on site Ther fore the electrical supervisor, Jesper ravesen, is very familiar with thes drives. He has experienced only very een promptly solved by the service

Therefore Jesper Gravesen did not esitate to contact the experts in VACON* drives to find an alternative to the rotating converters and the diesel gensets. Together with the applicason engineering team he built a pilot system comprising:

- convert the 50 Hz shore power to
- sinusoidal waveform A separation transformer to elimicreate an IT grid as required on

the operating costs of the pilot system were far lower than for the existing s tems. Therefore it was easy for FAYARD

After: High-efficiency electric systems In 2010 FAYARD Shipward installed two portable shore power systems, each at 440 V, or 300 A at 690 V.

Two VACON* NXC systems were built These containers are easy to position on the deck of a ship, or at the guay

narallel on board the same vessel. Alternatively, they can be used as stand-alone systems for two different

standby losses per system are reduced

ciency is typically above 90% with an

This illustration shows the typical configuration for a shore power supply application

The payback period was calculated t be less than two months, based on

- Reduced energy cost. The fuel cost approximately 43k € for a 40-day
- Maintenance of the generators no
- longer being required first two shore power systems, FAYARD built another system in 2013. The total shore power capacity is now 1500 A at 440V

In spite of the turbulent business nditions in the marine and offsho industry, FAYARD has been operating a 75-80% capacity over recent years. The shore power systems run for 180 day per year on average.

Reduced emissions and

acoustic noise As an eyera honefit the weyking on ronment at the shipyard has improved, with better air quality and reduced noise, FAYARD is in the process of imfor the yard to validate the green reductions in emissions and acoustinoise provide the much-needed proc









"With a payback time of less than two months, the shore of the best investments we have made in recent years," says

VACON® NXC drives AYARD has been pleased with the fast service response from the local support team. Usually however, the shipvard performs much of its own aintenance and does not often us

VACON® NXC drives to maintain the systems, which resulted in great avings. We have also installed VACON NXC drives on two 400 kW sea water pumps for the dry docks. The pump regulated by V&CON drives!

in air-cooled, liquid-cooled, and low armonic variants.

FAYARD >

FAYARD is a family-owned reyard at the Lindø Industrial Park, Denmark, FAYARD has been owned by the Andersen famil since 1916 and moved from edericia to Linda in 2010. FAYARD has a workforce of 200 - 800 consisting of its ow staff as well as sub suppliers and have their own site offices nearb yard with four large-scale dry docks equipped with biob capacity cranes and a 700 m

king berth. The shipward

performs repair, maintenance and

upgrade of all types of maritime

unfoss Drivas Salg Danmark, Jeostrupvei 3, DK-8361 Hasselager, Denmark, Tel. +45 8948 9111, Fax +45 8948 931

