

SHIP POWER: RESILIENCE IN DEMANDING MARKETS



Jaakko Eskola, President, Ship Power & Senior Executive Vice President



The most complete marine offering on earth





Ship Power's strategic goal

To be recognised as the leading provider of innovative products and integrated solutions in the marine and offshore oil & gas industry.







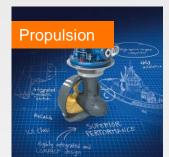
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- Lifecycle solutions for ship owners and operators
- Integrated solutions for the shipbuilding industry, owners and operators
- The most competitive products and delivery process for the marine industry



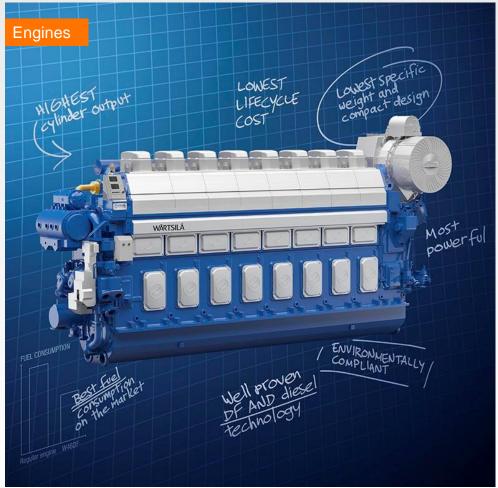
Continued innovations



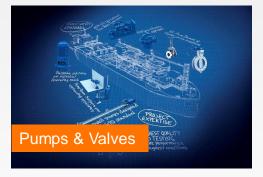


















Ship Power operates in two industries



The marine industry

 Merchant, Cruise & Ferry, Navy and Special vessels

Developments in the global economy drive demand for:

- Seaborne cargo transportation
- Cruise and ferry services
- Navy vessels

The Oil and Gas industry

- Newbuild vessels and rigs for exploration and production in offshore fields
- Gas distribution chain equipment and infrastructure (e.g. for liquefaction and regasification)

Global demand and price level for oil and gas are crucial for:

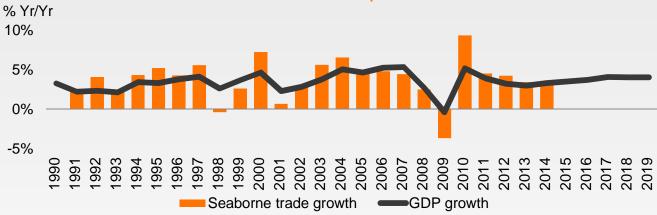
- Investment into offshore oil and gas exploration and production (including support vessels)
- Investment into development of gas distribution chains
- Cautious outlook given increased uncertainty over developments in global economy and oil prices
- Environmental regulations, increased safety requirements, fuel costs and efficiency requirements
 continue to support investments



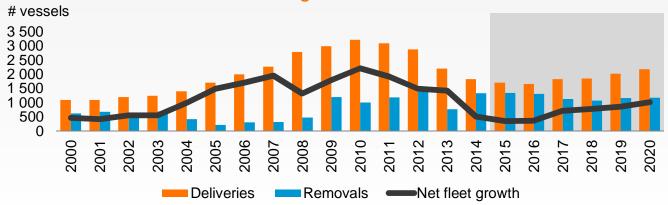
The marine industry: fundamentals in place despite a challenging 2014







Deliveries, removals, and fleet growth



Fundamentals supporting growth in seaborne trade:

- Growth in oil products trade to Asia and OECD countries
- Recovery in global container trade
- Continued consumer demand growth in developing economies

Fleet growth bottoming out:

- Slower pace of deliveries
- Removals rate expected to stay high in the medium-term

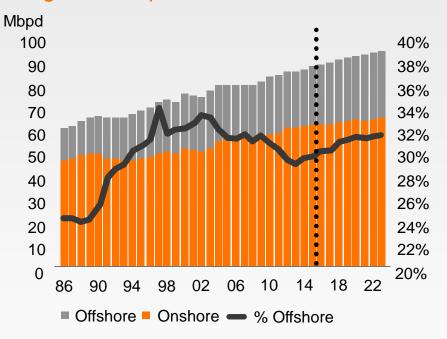
Source: Clarkson Research Services, IMF 26.01.2015



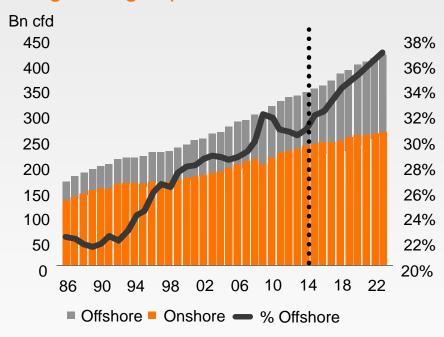
Oil & Gas: supply grows, offshore remains important



Long-term oil production



Long-term gas production



IEA estimates:

- Investment of some \$900 billion/year in upstream oil and gas development is needed by 2030 to meet projected demand
- Gas production increases almost everywhere, and unconventional gas accounts for almost 60% of global supply growth

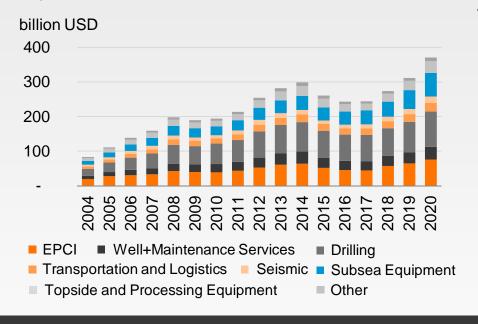
Source: Clarkson Research (Sep 2014). IEA World Economic Outlook 2014



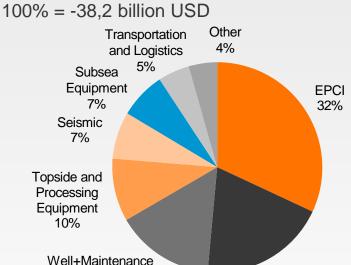
Offshore oil companies reduce investment in the near term



Exploration & Production Offshore CAPEX



E&P CAPEX change 2014 vs 2015



Services

15%

Drilling

20%

- 2015 total offshore E&P CAPEX foreseen to decline by 13% compared to 2014. EPCI, Drilling, and Well+
 Maintenance Services segments expected to face the biggest decline
- Investments reduced across the board, with independents and small-cap companies decreasing the most
- Wärtsilä supplies mainly two segments: Drilling and Transportation and Logistics

Source: Rystad Energy dated 13.03.2015. E&P data modeled at 60 USD/bbl 2015-2017

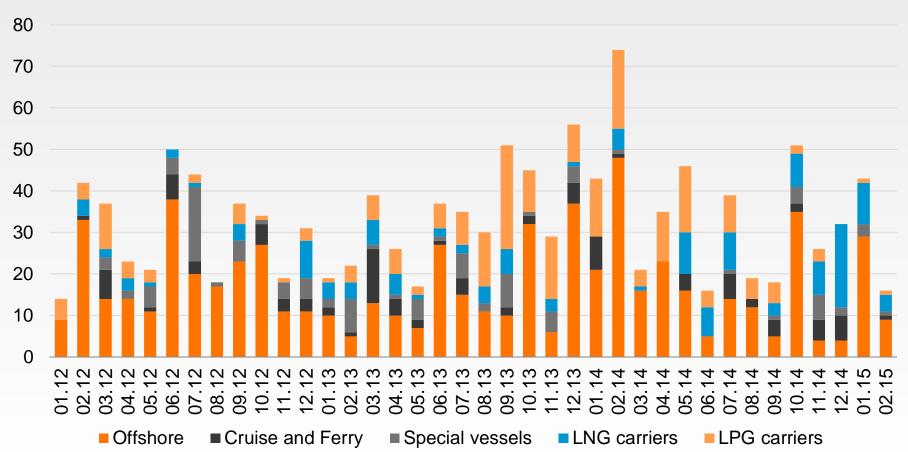




Specialised segment activity still resilient







Source: Clarkson Research Services, excluding contracts reported out of period

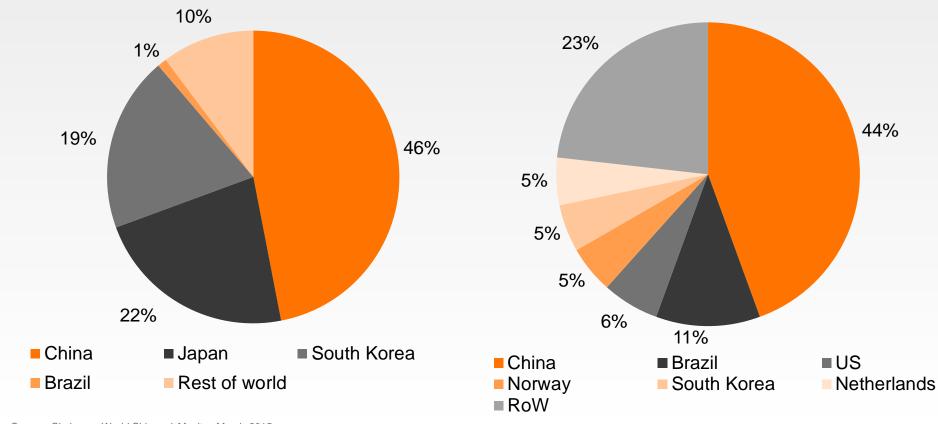


Shipbuilding volume China continues to dominate



Total order book: 5,048 vessels

Merchant + Specials order book, 4,083 vessels Offshore order book, 965 vessels



Source: Clarksons World Shipyard Monitor March 2015



Shipbuilding value A more diversified picture



Total order book value: USD 305 billion





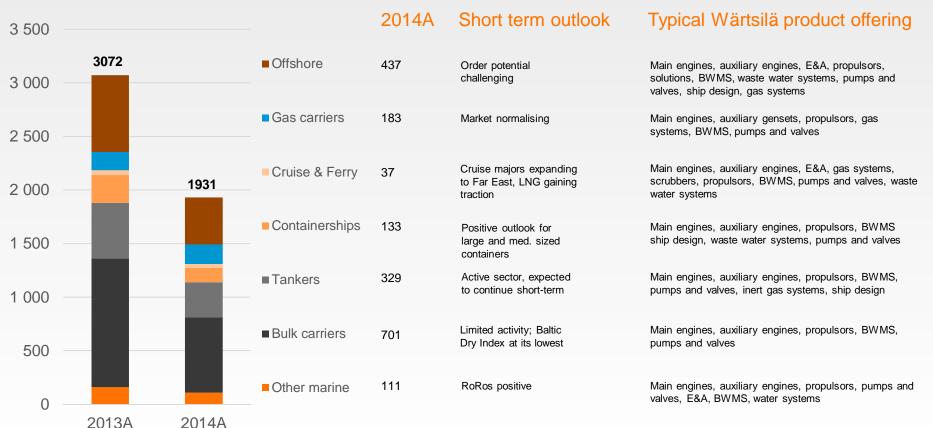




Overall cautious sentiment, segments uneven



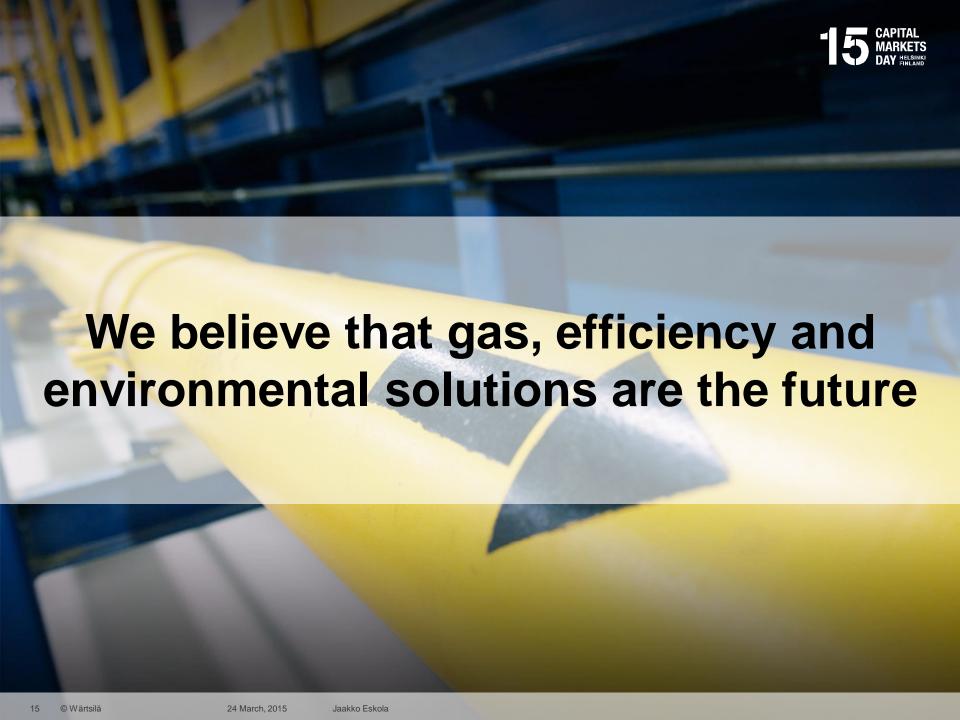
Number of vessels contracted



Note: Other marine = MPP, general cargo, RoRo, vehicle carriers and miscellaneous. Source: Clarksons Marine and Offshore reports

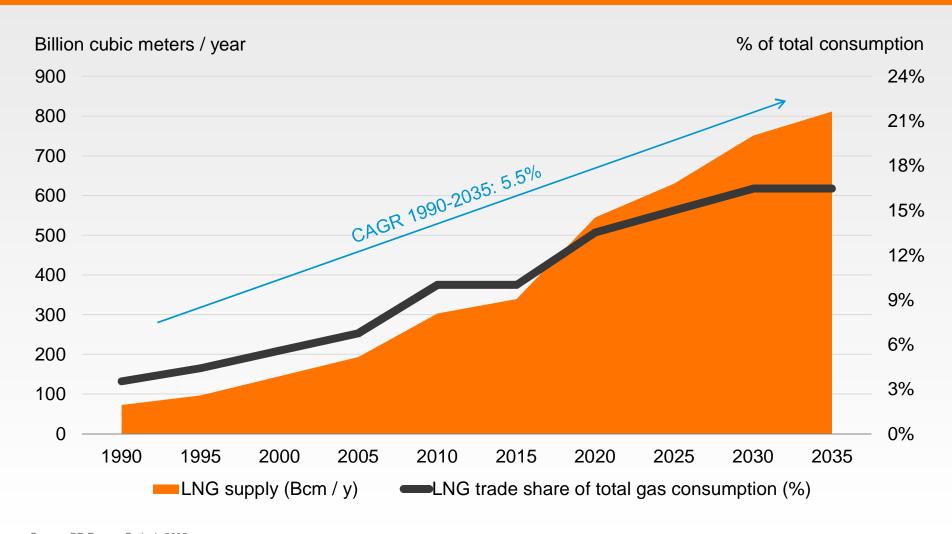
24 March, 2015





LNG poised for long term growth





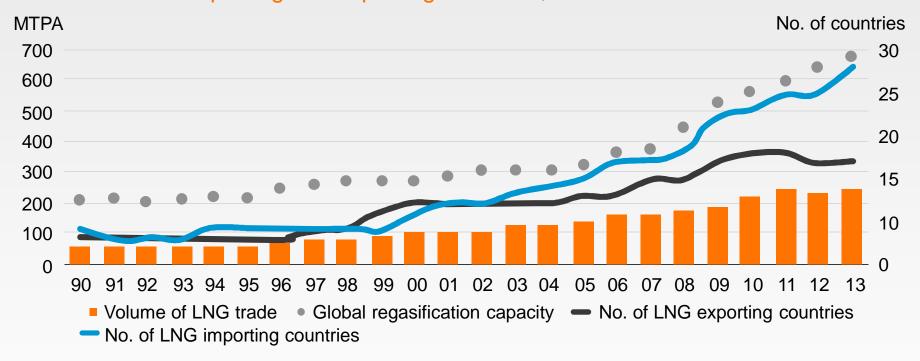
Source: BP Energy Outlook 2035



Increasing number of LNG trading countries



Number of LNG importing and exporting countries, volume of LNG trade



Significant growth in number of importing countries increases demand for small and medium scale receiving terminals and gas carriers

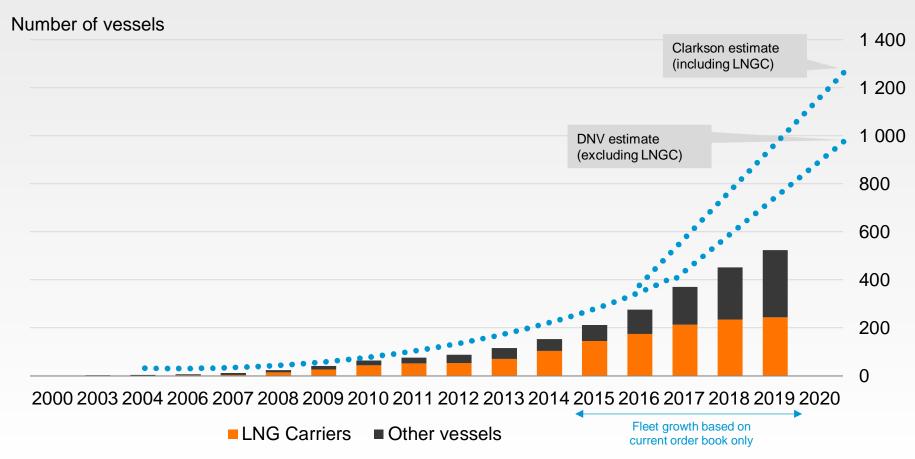
Source: International Gas Union: World LNG Report 2014



LNG as ship fuel gaining ground



LNG fuelled fleet



*LNGC: LNG Carriers

Source: DNV GL gas report Sept 2014. LNGC order book data and LNGC estimate: Clarkson Research Services 12.03.2015, LNG Trade and Transport study 2014



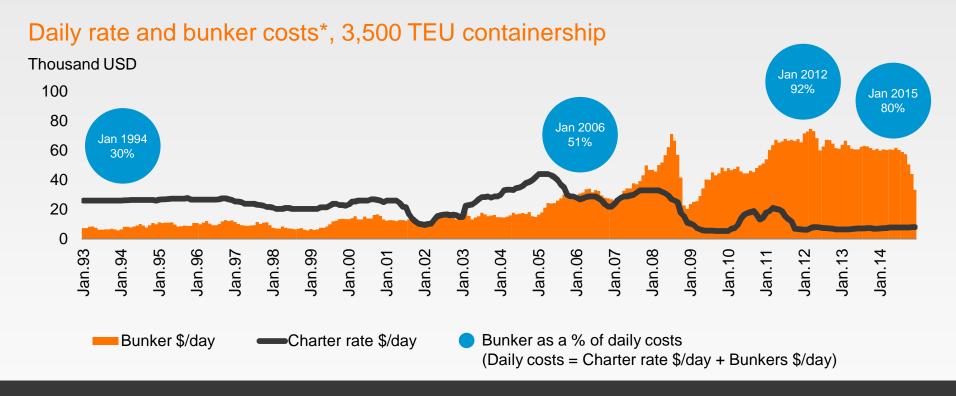
Our offering to the gas value chain





Lower oil prices mean cheaper bunkers





...however bunker share of daily costs is still very high (now at 80%):

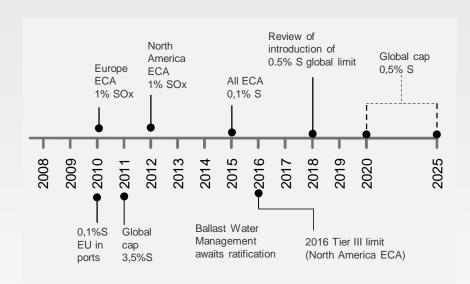
- Efficiency gains have big impact on bottom lines
- Slow steaming expected to remain in the picture



^{*} Bunker costs are paid by the charterer Source: Clarkson Research Services (basis 3500 TEU ship, speed 22.5k on consumption of 105 tpd).

Introduction of environmental legislation continues





"U.K. port authorities plan to check fuel records of ships calling on British ports"

"US EPA steps up ECA sulphur enforcement efforts"

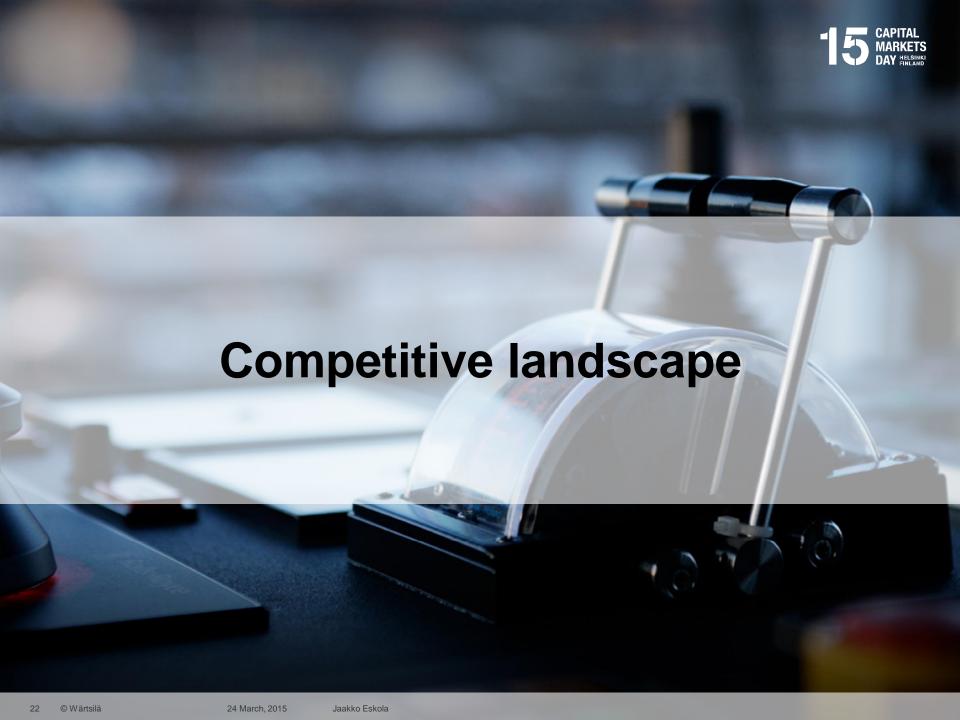
"Hong Kong; Shipmasters could face jail for breaching sulphur rules"

Source: Trade Winds, Sustainable Shipping, Bunkerworld, Dow Jones & Company Inc. March 2015

Efficient environmental products key for customers to fully comply with IMO legislation

- Finnlines selects Wärtsilä scrubber systems for six of its vessels to reduce Baltic Sea environmental impact
- Royal Caribbean will retrofit nearly half of its fleet (19 ships), with advanced emissions purification systems
- Singapore based Pioneer Marine orders 44 Wärtsilä ballast water management systems to 22 of its bulk carriers
- HHI selects Wärtsilä exhaust gas cleaning systems for 10 new large gas carrier vessels





Our competitors







E&A































Note: Converteam is a part of GE Allweiler is a Colfax business unit



Strong market position in key offerings



Offering

Engines: 4-stroke

Our market position

- Main engines: market leader
- Auxiliary generating sets: market challenger

Propulsion

- CPP, FPP & STT: among the top players
- TT: market challenger

Electrical & Automation (excl. L-3 MSI)

 Established position in offshore, otherwise market challenger

Ship Design

Among the leading ship design houses

Wärtsilä key strengths

- Fuel flexibility and efficiency
- Environmental footprint
- Well-engineered, efficient products
- Operational efficiency for dynamic positioning
- Multi-segment presence
- Low loss concept, efficiency and space savings
- Track record in demanding applications, performance and safety
- Frontrunner in fuel flexible, energy efficient and LNG powered ship designs
- Experience: over 4,000 vessels built in offshore, specials and merchant segments

Zav.Nº PAAL 072636

Strong market position in key offerings



Offering

Oil & Gas systems

Our market position

Among the top players

Pumps & Valves

Among the top players

Environmental Solutions

Among the top players

Wärtsilä key strengths

- Strong LNG and LPG process technology know-how
- Complete end-to-end gas cargo handling offering for a broad range of gas carriers
- High efficiency with electric prime movers
- Sophisticated material choices, durability
- Flexible design
- Leader in technical performance and compliance
- Choice of technology for customers
- Partnership approach throughout the lifecycle
- Full turnkey capability, also for retrofits

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Jaakko Eskola



Our broad portfolio gives us a resilient position



- First signs of recovery in the global economy, supports trade and shipping
- Lower oil prices:
 - Increases pressure in offshore markets
 - Presents opportunities in other marine markets
 - Efficiency remains a priority
- Fundamentals in gas and other specialised segments remain positive
- Regulatory pressures still in play, will attract investments (also for retrofits)





The most complete marine offering on earth got even more complete









www.wartsila.com