

Wärtsilä

Shaping the decarbonisation of marine and energy
Roadshow presentation

May 2024





Wärtsilä – Shaping the decarbonisation of marine and energy

Wärtsilä simplified the Group structure from 1st January 2024 onwards with two main businesses:

Marine

Our offering of engines, propulsion systems, hybrid technologies and integrated power transmission systems and related services support our customers in moving towards carbon neutrality.

Energy

We support the change towards a future where electricity is produced with 100% renewable energy by offering grid-balancing power plants, hybrid solutions, energy storage and optimisation technology.

Committed to financial targets

Net sales

5% annual organic growth

Profitability

12% operating margin

Capital structure

Gearing below 0.50

Dividend

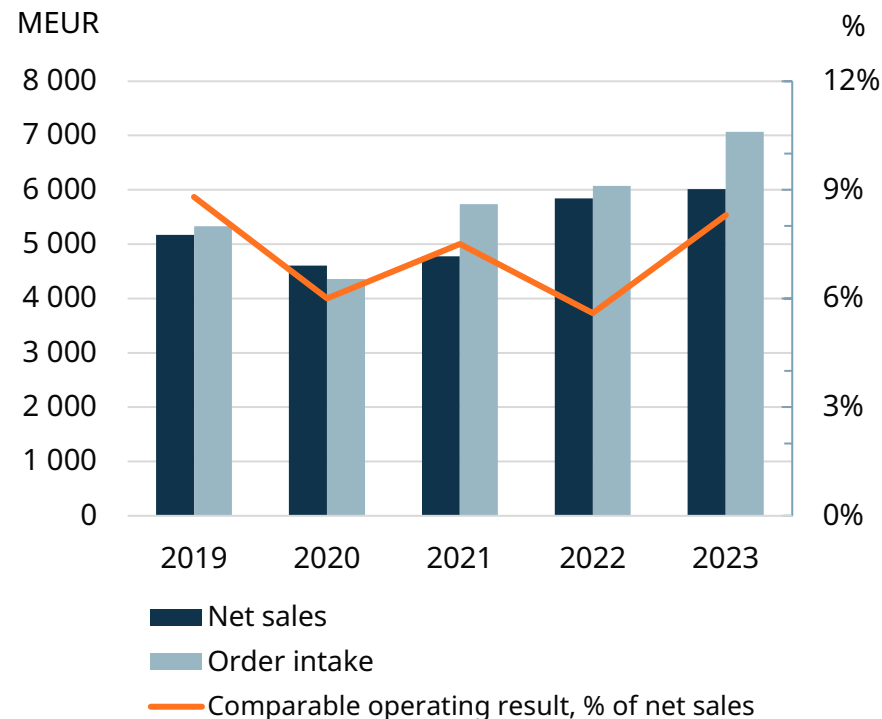
Distribute a dividend of at least 50% of earnings

Strong track record in innovations

Investing ~4% of net sales on R&D yearly

Today: engines run on biofuels, methanol, up to 25% hydrogen blends, pure ammonia fuel engine concept

By 2025: pure hydrogen fuel engine concept ready



Key growth opportunities

- ⊕ ⊕ ⊕ **Energy Storage & Optimisation:** Fast growing demand for power system optimisation solutions
- ⊕ ⊕ **Marine newbuild driven by decarbonisation:** Uptake of solutions ready for sustainable fuels and recovery in passenger and offshore segments
- ⊕ **Moving up the service value ladder in Marine and Energy:** Continuous growth in agreement coverage
- ⊕ **Energy Engine Power Plants new build driven by balancing and baseload:** Gradual shift to renewables
- ⊖ ⊖ **Portfolio Business divestments**

Market fundamentals



Marine will move with unprecedented speed towards decarbonisation

Policies & regulations

- IMO target/ EU Regulations
- Access to capital
- Cost of carbon
- Demand for green sea transport

Technology

- Carbon neutral and zero carbon fuels
- Carbon fuels for many years, still
- Abatement technologies
- Battery systems, hybrids & energy saving devices
- Fuel efficiency & flexibility

Connectivity & data

- Vessels as data pools
- Optimisation solutions
- Performance-based agreements
- Cyber security



Energy is moving towards a 100% renewables future

Policies & regulations

- EU: Carbon neutral by 2050
- USA: carbon free electricity production by 2035, net zero emissions by 2050
- China: Carbon neutral by 2060
- RePower EU, Inflation Reduction Act

Technology

- Wind and solar growing rapidly
- Intermittent sources requiring balancing power
- Sustainable fuels for thermal balancing
- Digitalisation and cyber security

Growing demand

- By 2050, electricity generation needs to grow by 3X, renewables by 8X to reach Net Zero targets ¹⁾
- Gradual replacement of coal
- Renewables expected to become the largest source of global electricity by early 2025 ²⁾
- Power systems becoming increasingly complex

Our value creation potential is based on two strategic themes

Transform – attractive growth opportunities at the center of the decarbonisation transformation

Perform – clear path for operational improvements and increased profitability

Significant milestones reached in strategy execution


1) 2023 vs. 2021 net sales

Transform

- **Market leader in:**
 - 4-stroke medium speed main engines
 - Engine power plants
 - Marine hybrid solutions
- **Technology leader** in green fuels
- **Pioneer** in marine carbon capture & storage
- **Significant growth** since 2021:
 - +26%¹⁾ in services
 - +17% in thermal balancing installed base
 - 3X¹⁾ in Energy Storage & Optimisation

Perform

- **Good growth in service agreements** by leveraging digital solutions
- **Improved quality of new build order book margins**
- **Turned Energy Storage & Optimisation to profit**
- **Divested businesses and optimised footprint**
- **Revitalised team and organisation**



Clear path to 12% operating margin

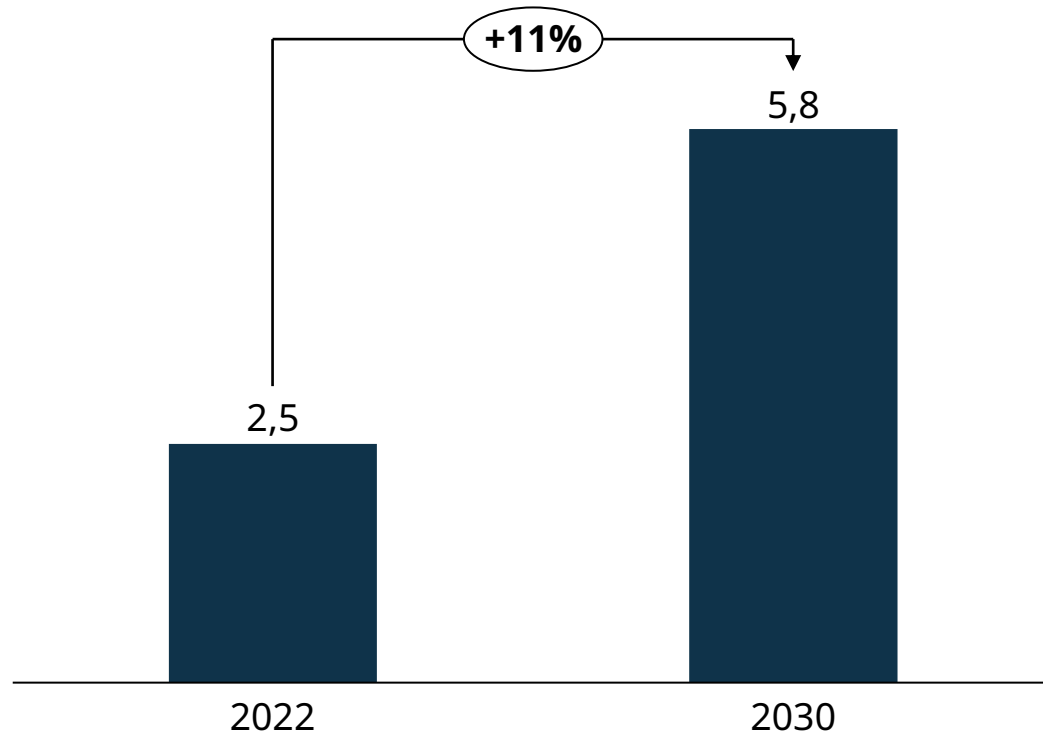


**Transform –
attractive growth opportunities at the center of the decarbonisation transformation**

Strong market fundamentals and the decarbonisation transformation will support profitable growth in Marine business

Key target segments

Annual newbuild contracting of 4-stroke medium speed main engine-powered units (GW)¹⁾; CAGR



- **IMO MEPC 80** has adopted a **revised strategy** to reduce GHG emissions by 20% by 2030, 70% by 2040 and to net-zero by 2050
- **In the EU**, regulatory landscape will **double fuel costs** up to 2030²⁾
- **Small but growing market for green transport** driven by corporate carbon reduction pledges
- Switch to **carbon neutral and zero carbon** fuels will be **progressive**
- **Drop-in fuels, hybrid solutions and abatement technologies** will be **key** to reach short-term reduction targets
- Long-term reduction targets will require a **fundamental shift towards sustainable fuels and abatement solutions**

Source: Clarksons 1) cruise, ferries, offshore, merchant, and other (incl. fishing, dredgers, support units, yachts, navy, tugs etc.) 2) assuming 5,000 tons/year VLSFO consumption subject to Fit for 55, VLSFO at 550 EUR/ton; EU allowances from 100 EUR/ton today to 230 EUR/ton in 2050

Wärtsilä is a global technology and service leader in shaping the decarbonisation of marine

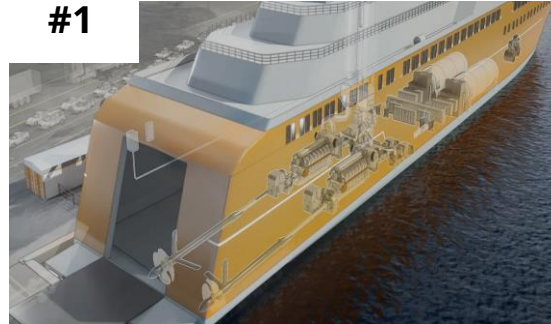
#1



Industry leading medium speed engine offering

- Biofuels and methanol available already today
- Product industrialisation for ammonia ongoing
- Fuel conversion packages for both 4-stroke and 2-stroke engines available already today

#1



Industry leading hybrid solutions

- Hybrid-electric to challenge 2-stroke engines as prime-mover for LNG carriers
- 6% more cargo space, 10% lower fuel consumption¹⁾
- Lower maintenance costs compared to 2-stroke

Pioneer



Pioneer in carbon capture & storage

- Complementary technology to engines
- EUR ~10bn market opportunity in the next 10 years²⁾
- Commercial release in 2025, CCS-ready scrubbers available already today



Global services network to ensure maximum uptime & fuel efficiency

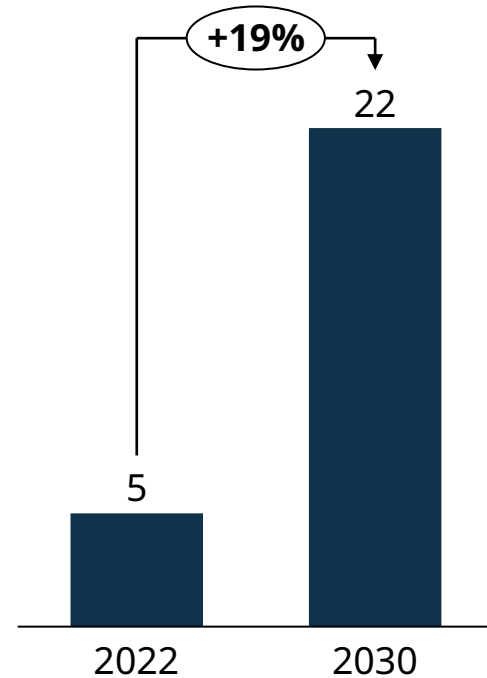
- Transactional: spare parts & field services
- Enhanced support & technical management agreements
- Optimised maintenance & guaranteed asset performance leveraging digital solutions

1) example on 174,000 cbm LNG carrier 2) estimated market size for newbuild and retrofit 3) 2023 (Marine Power)

The increasing share of renewables and need for balancing power will support profitable growth in Energy business

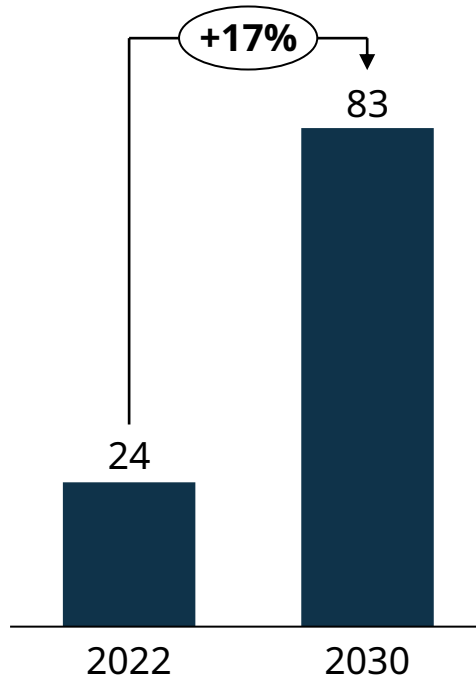
Thermal balancing

Addressable market
GW; CAGR



Energy storage

Addressable market
GWh; CAGR



- **Thermal balancing** market is **expected to grow +4X by 2030** driven by accelerating intermittent baseload. US is an important market for thermal balancing
- Power generation related **regulatory changes support uptake of thermal balancing** (US Federal and State bills, EU electricity market reform and China market reform)
- **Sustainable fuels together with flexible engine power plants balance grids in an affordable and sustainable way**, also for longer shortages in intermittent renewable generation
- **Energy storage incentives in the US** (IRA¹ investment and production tax credits) **support** the energy storage market **growth**. Local regulatory changes in general support the uptake of energy storage

Wärtsilä is a global leader in engine power plants. Energy Storage & Optimisation has grown ~3X since 2021 and is now profitable

#1



Industry leading engine power plants¹⁾

- Superior operational flexibility through fast ramp-up/ramp-down compared to gas turbines
- Fuel conversion packages available already today
- Hydrogen 25 vol% in pilot operation, full hydrogen technology readiness in 2025

#1-5



Top 5 in energy storage

- Focus on profitable growth
- Reliable partner with high bankability
- Highest safety standards (recent milestone in passing UL 9540A requirements)
- Leading software (GEMS) for power system optimisation



Global services network to ensure maximum uptime & fuel efficiency

- Transactional: spare parts & field services
- Maintenance & operational support
- Guaranteed performance services
- Outcome-based agreements, including decarbonisation services, leveraging digital solutions

To support accelerated profitable growth of Energy Storage & Optimisation, we have launched a strategic review of the business

- Energy storage market is expected to grow rapidly, **addressable market to grow +3X from 2022 to 2030**
- Wärtsilä Energy Storage & Optimisation has **grown +30X¹⁾ since the acquisition of the business and is now profitable**
- Strategic review has been launched to **accelerate profitable growth of the business in a way that benefits customers and creates value for Wärtsilä shareholders**
- **All potential alternatives will be considered.** Such alternatives could include different ownership options of the business from continued full ownership to potential full or partial divestment of the business or other possible strategic alternatives
- **No commitment to a particular timeline** is given. Wärtsilä will disclose the progress and conclusions of the review according to applicable disclosure laws and regulations
- **Wärtsilä continues to develop and invest** in Energy Storage & Optimisation and **remains fully committed to its customers** throughout the strategic review

1) LTM Q3/2023 vs. 2016 net sales





Perform –
clear path for operational improvements and increased profitability

Services is ~50% of our net sales with good future growth potential

EUR ~3bn

2023 net sales

26%

Growth in net sales since 2021

~90%

Renewal rate of service agreements

We continue to execute our services strategy on all steps of the service value ladder



- Our installed base of medium speed engines is increasing (~5% increase since 2021)
- 26% growth in transactional services since 2021
- ~30% of installed base²⁾ is under service agreements with further growth potential
- Moving up the service value ladder – agreements and performance-based agreements have 2-5X spend ratio (EUR/kW) relative to transactional services
- Retrofits and upgrades have the potential to grow +2X by 2030

1) customer spend ratio EUR/kW 2) 4-stroke engine MW

Going forward we will benefit from the implemented operational improvements and structural changes

Quality of revenues

- **Improved quality of new build margins** in current order book
- Energy order book has **higher share of equipment and lower share of EPC deliveries**
- **Energy Storage & Optimisation is now profitable**
- **Voyage losses** have **significantly reduced**

Footprint & divestments

- **Centralisation of the European engine manufacturing footprint** will gradually lead to **EUR ~35m yearly savings by 2025**
- **Divesting business units** in Portfolio Business which are **diluting Group profitability**



Strong commitment and a clear path to reach our financial targets

12%

Operating margin

5%

Annual organic growth

<0.5

Gearing

≥50%

Dividend of earnings

Energy transition and decarbonisation driving our >5% organic growth target

LTM Q3/2023 net sales EUR 6.1bn

Drivers of net sales growth¹⁾

Share of absolute growth

- **Energy Storage & Optimisation**

⊕ ⊕ ⊕

- Fast growing demand for energy storage and power system optimisation solutions

- **Marine newbuild driven by decarbonisation**

⊕ ⊕

- Uptake of solutions ready for sustainable fuels, and recovery in passenger and offshore segments

- **Moving up the service value ladder in Marine and Energy**

⊕

- Continuous growth in agreement coverage
- Decarbonisation-driven retrofits

- **Energy Engine Power Plants new build driven by balancing and baseload**

⊕

- Gradual shift to renewables
- The focus on offering equipment rather than EPC decreases revenue expectations but improves our risk profile

- **Portfolio Business divestments**

⊖ ⊖

- Gas Solutions, ANCS, Water & Waste, and Marine Electrical Systems

1) drivers' consideration includes the transfer of Shaft Line Solutions and Exhaust Treatment to Marine and Gas Solutions to Portfolio Business

Services and decarbonisation key drivers towards 12% operating margin

LTM Q3/2023 operating margin 6.0%¹⁾

Drivers of improved profitability²⁾

Share of absolute improvements

- | | |
|---|-------|
| ▪ Moving up the service value ladder in Marine and Energy | ⊕ ⊕ ⊕ |
| ▪ Marine new build driven by decarbonisation | ⊕ ⊕ |
| ▪ Energy Engine Power Plants new build driven by balancing and baseload | ⊕ ⊕ |
| ▪ Energy Storage & Optimisation | ⊕ |
| ▪ Portfolio Business divestments | ⊕ |
| ▪ Continuous improvement | } >0 |
| ▪ Cost inflation & related price adjustments | |

1) excluding EUR 40m provision related to Olkiluoto 1 and 2 nuclear projects taken in Q4/2022 (discontinued nuclear business) as well as EUR 19m provision taken for a single sizeable turnkey project in Gas Solutions in Q2/2023 (discontinued turnkey business) 2) drivers' consideration includes the transfer of Shaft Line Solutions and Exhaust Treatment to Marine and Gas Solutions to Portfolio Business

We continue to actively manage our business portfolio

Marine Systems discontinued

Effective 1st of January 2024

- Further simplification of Group structure
- Gas Solutions has limited synergies with Wärtsilä's marine product portfolio, planned to be moved to Portfolio Business
- Exhaust Treatment and Shaft Line Solutions planned to be moved to Marine Power
- Improving quality of revenues

Portfolio Business

Plan to divest. Timeline subject to internal separation & turnaround

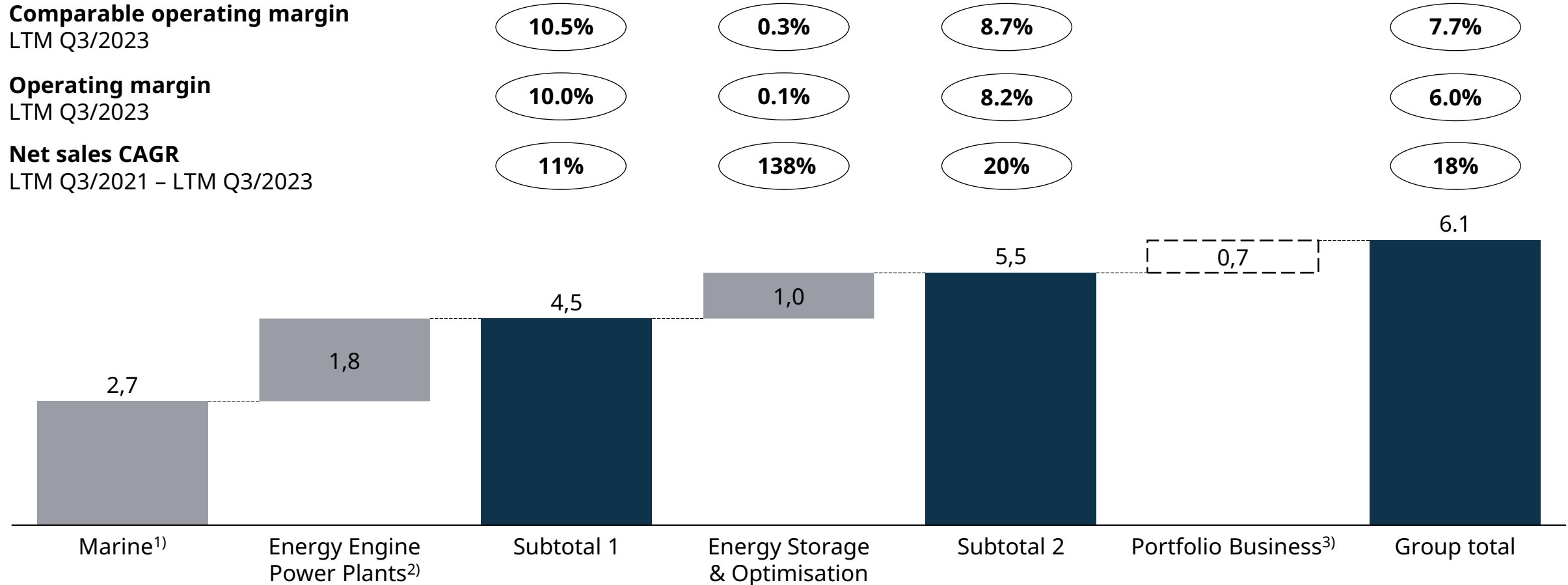
- Water & Waste
- Marine Electrical Systems
- Automation, Navigation & Control Systems
- Gas Solutions

LTM Q3/2023	Group total	Group total excl. Portfolio Business
Net sales, EURm	6,142	5,480
Comparable operating margin ¹⁾	7.7%	8.7%
Operating margin ¹⁾	6.0%	8.2%

¹⁾ excluding EUR 40m provision related to Olkiluoto 1 and 2 nuclear projects taken in Q4/2022 (discontinued nuclear business) as well as EUR 19m provision taken for a single sizeable turnkey project in Gas Solutions in Q2/2023 (discontinued turnkey business)

Marine & Energy Engine Power Plants combined have double digit profitability. Energy Storage & Optimisation is now profitable

Group simulation (LTM Q3/2023), net sales EURbn



1) former Marine Power business including Exhaust Treatment & Shaft Line Solutions 2) including services but excluding EUR 40m provision related to Olkiluoto 1 and 2 nuclear projects taken in Q4/2022 (discontinued nuclear business) 3) including Gas Solutions but excluding EUR 19m provision taken for a single sizeable turnkey project in Gas Solutions in Q2/2023 (discontinued turnkey business)

Profitability drivers

+ Supporting drivers

- Continued decarbonisation in both the energy and marine markets
- Good service performance
- Strong order book both in new equipment and services
- Profitability improvements in Energy Storage and former Voyage Business
- Improved capacity utilisation
- Continued cost optimisation

+ / - Uncertainties

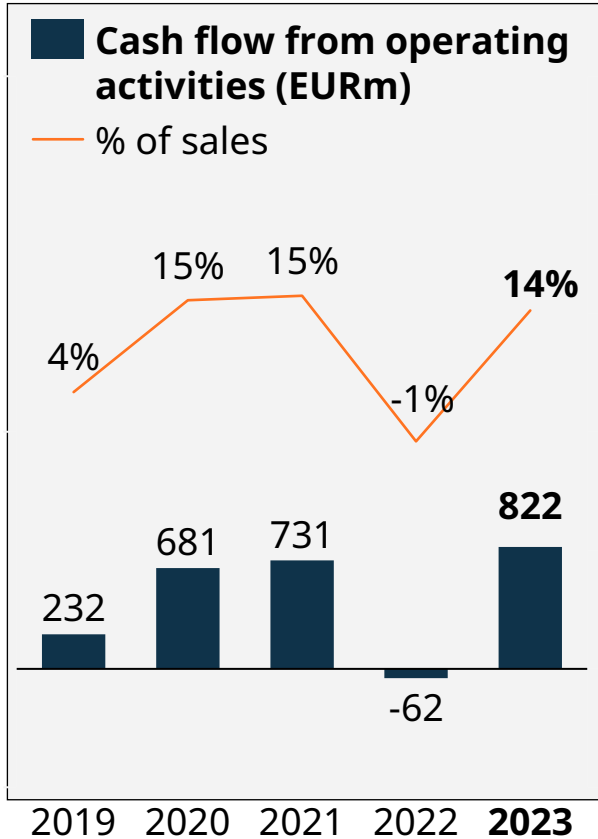
- Geopolitical tensions
- Potential trade restrictions / trade wars
- Recession risk

- Negative factors

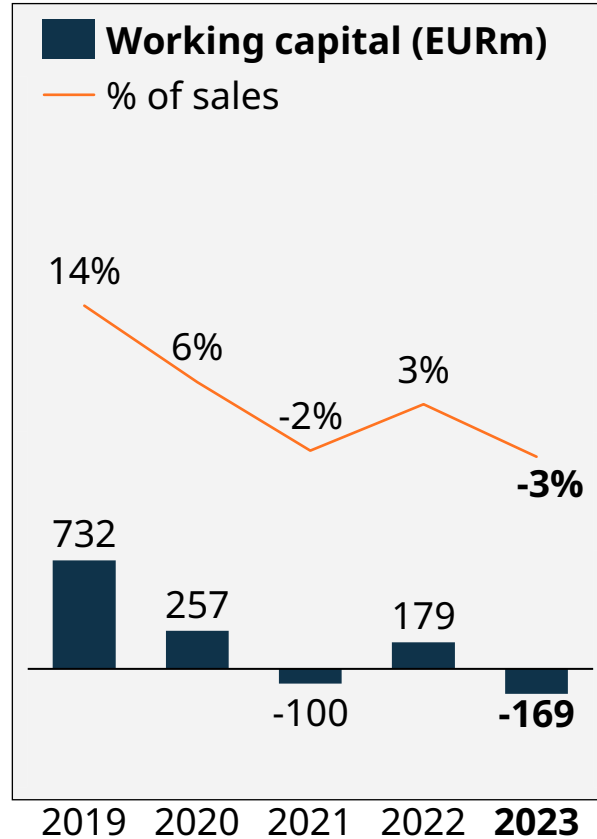
- Wage inflation



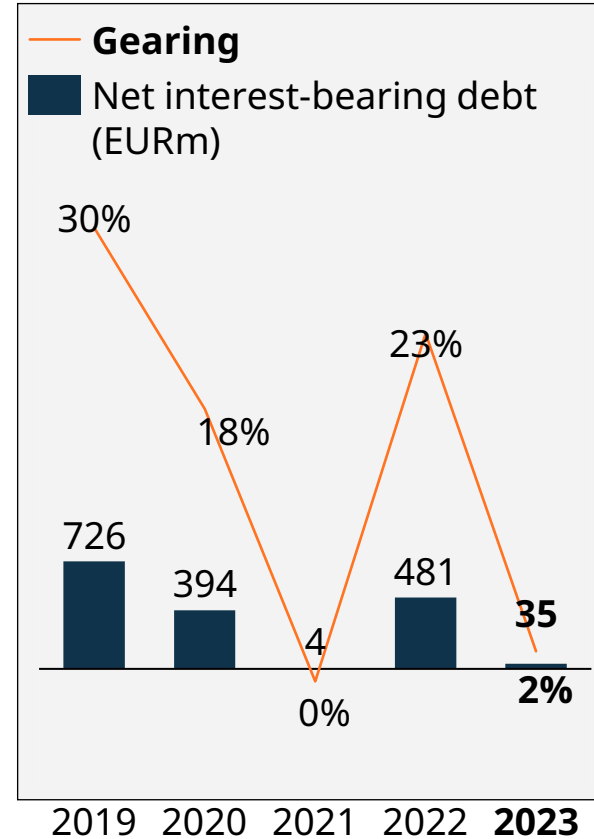
Strong balance sheet and financial position to support strategy execution



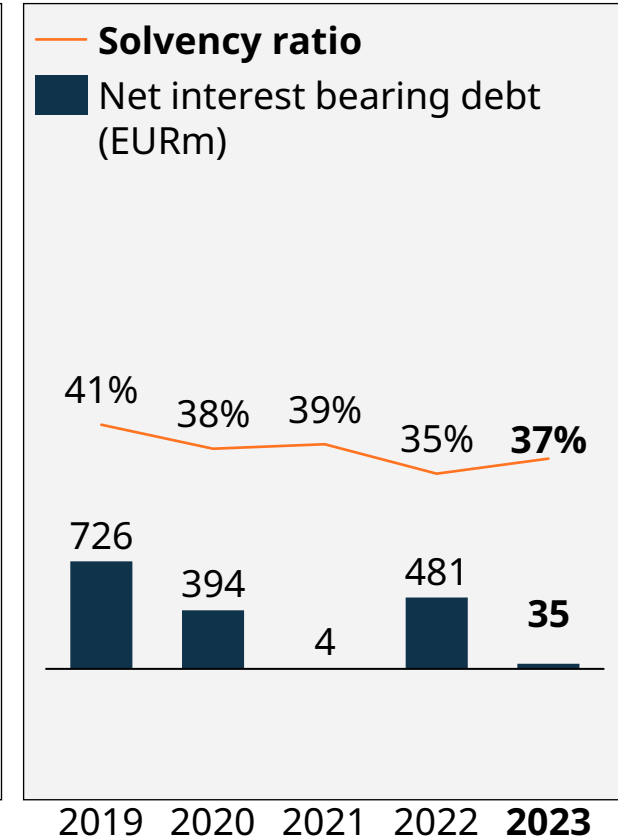
Strong cash flow development from 2022 level



Continued good working capital development



Strength to make strategic investments



The Wärtsilä Way sets the scene for profitable growth. We reconfirm our financial targets

THE WÄRTSILÄ WAY

◎ Purpose

Enabling sustainable societies through innovation in technology and services

◎ Target position

Shaping the decarbonisation of marine and energy

- 5% annual growth
- 12% operating margin
- To become carbon neutral in own operations and to provide a product portfolio which will be ready for zero carbon fuels by 2030

◎ Strategic priorities

Roadmap to improve performance and reach Target position

◎ Execution plan

What to do – tactics & operations, updates yearly

◎ Values, leadership and continuous improvement

Customer success, Passion, Performance

The strategic priorities are the key levers to improve our performance and reach our target position

1

Excel in creating customer value

We continuously evolve our understanding of, and responsiveness to, our customers to make them successful

2

Develop high performing teams that make a difference

We attract high performing people and excite diverse teams that excel in continuous learning and collaboration. Our leaders provide direction and support, empowering people to act

3

Drive decarbonisation in marine and energy

We accelerate decarbonisation in marine and energy through innovation, focused investments and selective partnerships, while also decarbonising our own operations. We provide optimisation solutions and are a thought leader in our industries

4

Capture growth in services

We excel in transactional and retrofit business. We move up the service value ladder by growing in performance-based agreements

5

Continuously improve our end-to-end value chain

We continuously improve our end-to-end business to meet customer expectations on quality, lead time and delivery accuracy, while reducing complexity and improving competitiveness. We leverage digitalisation throughout our value chain

Marine highlights

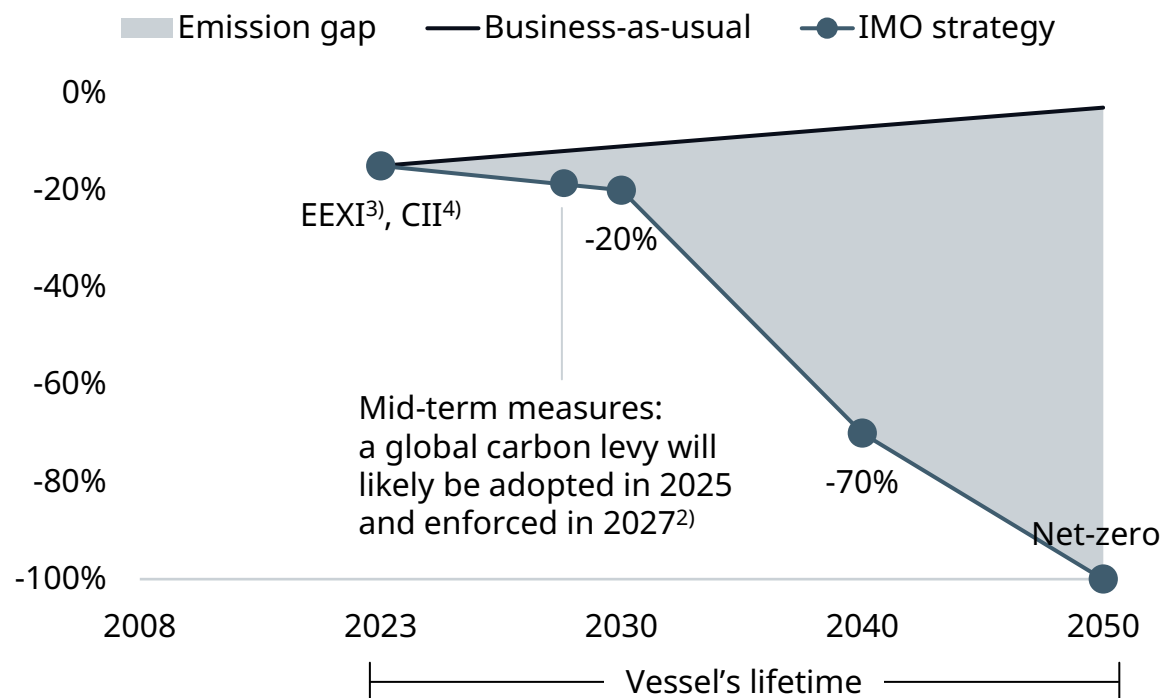


After IMO net-zero commitment last year, the regulatory focus has moved to “mid-term measures”

For vessels operating in EU waters, fuel cost may double due to emission fees up to 2030, compared to 2023

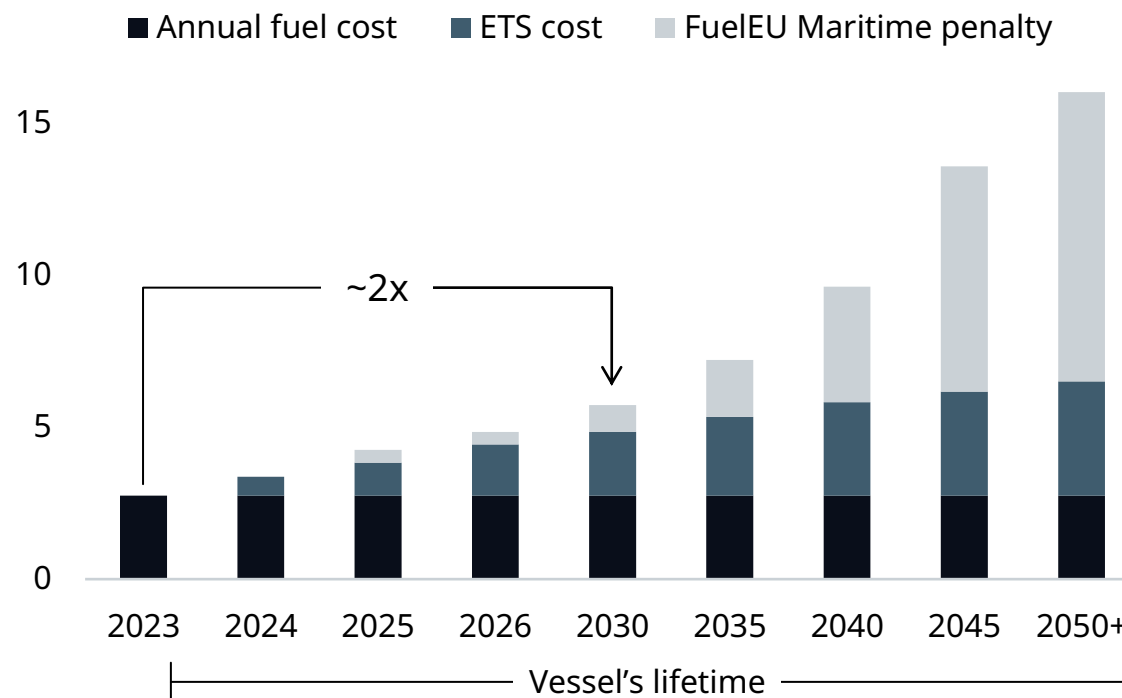
IMO GHG Strategy¹⁾

GHG emission reduction % vs 2008



EU Fit-for-55

Fuel-related costs for Handymax bulker operating in EU, EURm³⁾

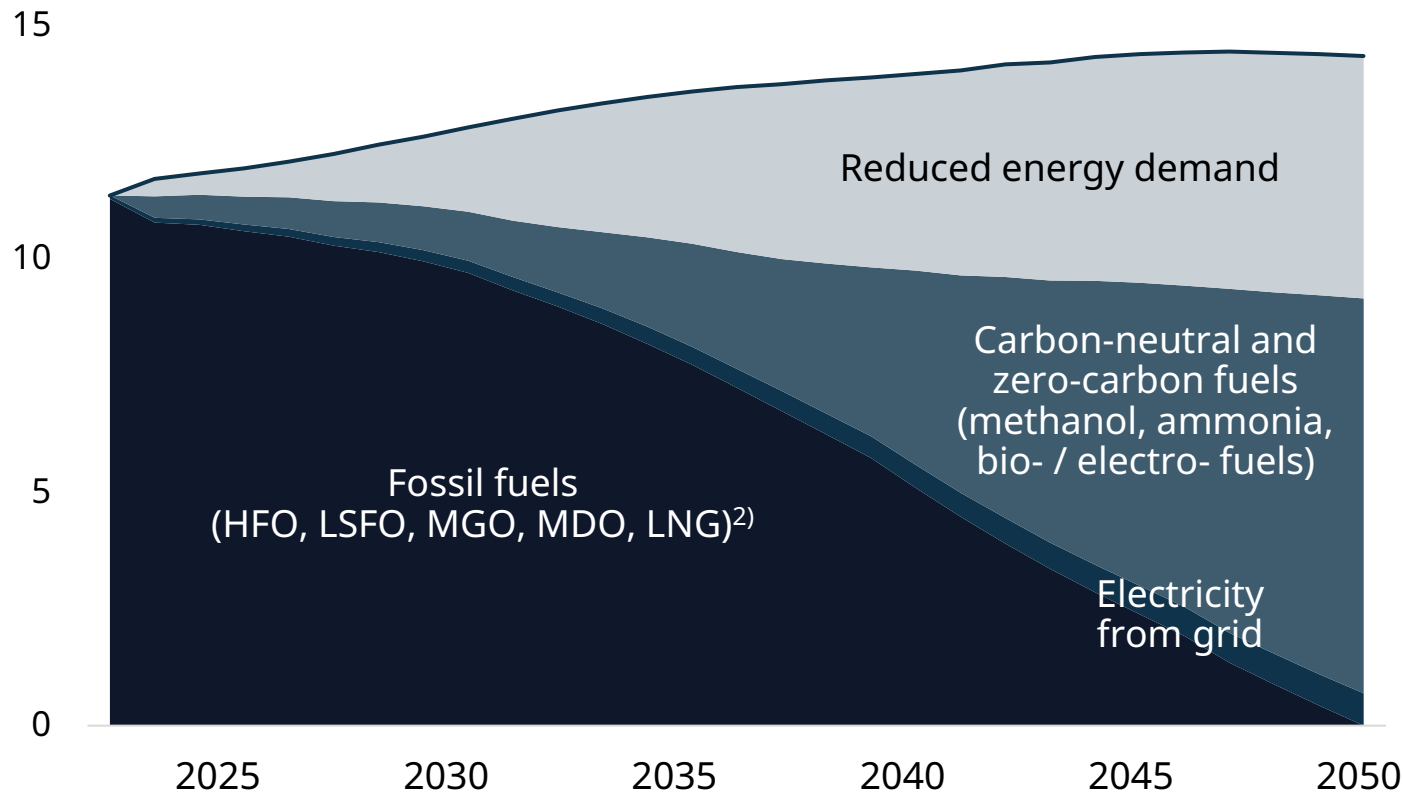


1) Source: IMO; data refers to well-to-wake Green House Gases (GHG) emissions; 2) E.g., goal-based marine fuel standard, GHG emissions pricing mechanism; 3) Assuming 5 000 tons/year VLSFO (Very Low Sulphur Fuel Oil) consumption subject to EU Fit-for-55, VLSFO at EUR 550/ton; EU ETS allowances from EUR 100/ton today to EUR 230/ton in 2050 (source: Transport & Environment NGO)

A progressive switch to sustainable fuels is already under way

Sustainable fuel uptake scenario for net-zero in 2050¹⁾

Total energy consumption, EJ



- ✓ **Fuel transition is under way:** 49% of tonnage on orderbook is set to use alternative fuels; long-term fuel mix is dependent on supply of different fuels
- ✓ **LNG is still #1 alternative fuel:** 25% of tonnage ordered in LTM Q3/2023 is LNG fuelled
- ✓ **Methanol is gaining share:** 58% of containerships tonnage ordered in LTM Q3/2023 are set to run on methanol
- ✓ **Ammonia will pick up in the longer run**
- ✓ **Hybrids, batteries, ESTs³⁾ are growing:**
 - 37% of the tonnage on orderbook is fitted with at least 1 EST³⁾
 - 129 hybrid / full-electric 2 000+ GT vessels were ordered in LTM (compared to 99 in 2022 and 55 in 2019)

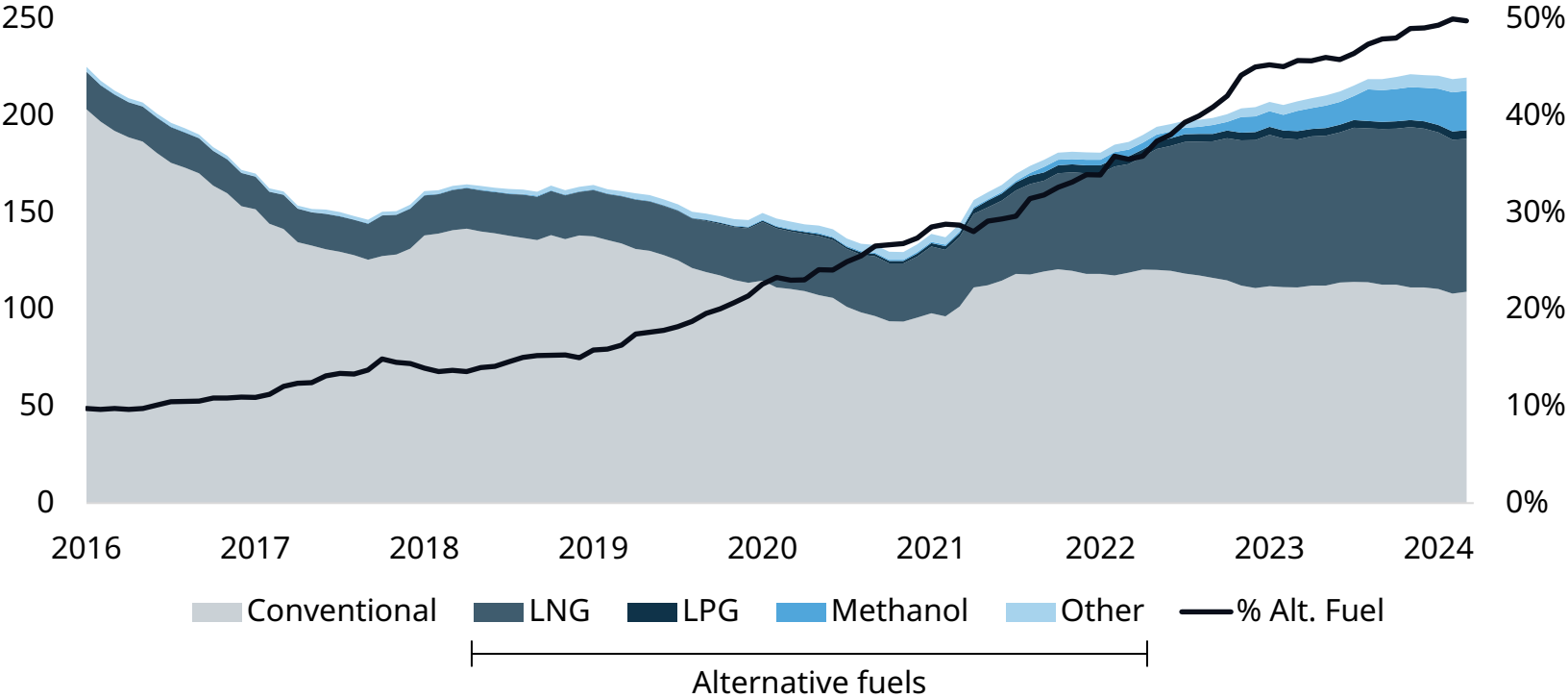
1) Source: DNV Maritime Forecast 2050; 2) HFO – Heavy Fuel Oil; LSFO – Low Sulphur Fuel Oil; MGO – Marine Gas Oil; MDO – Marine Diesel Oil; 3) Energy Saving Technology

The regulatory changes impact maritime now: half of the total shipbuilding orderbook is set to run on alternative fuels

2023 saw the highest-ever alternative fuel capable vessel ordering, excluding gas carriers

Alternative fuels uptake

Orderbook by fuel type, mGT¹⁾



~50%

vessel GT ordered since 2022 is set to run on alternative fuels

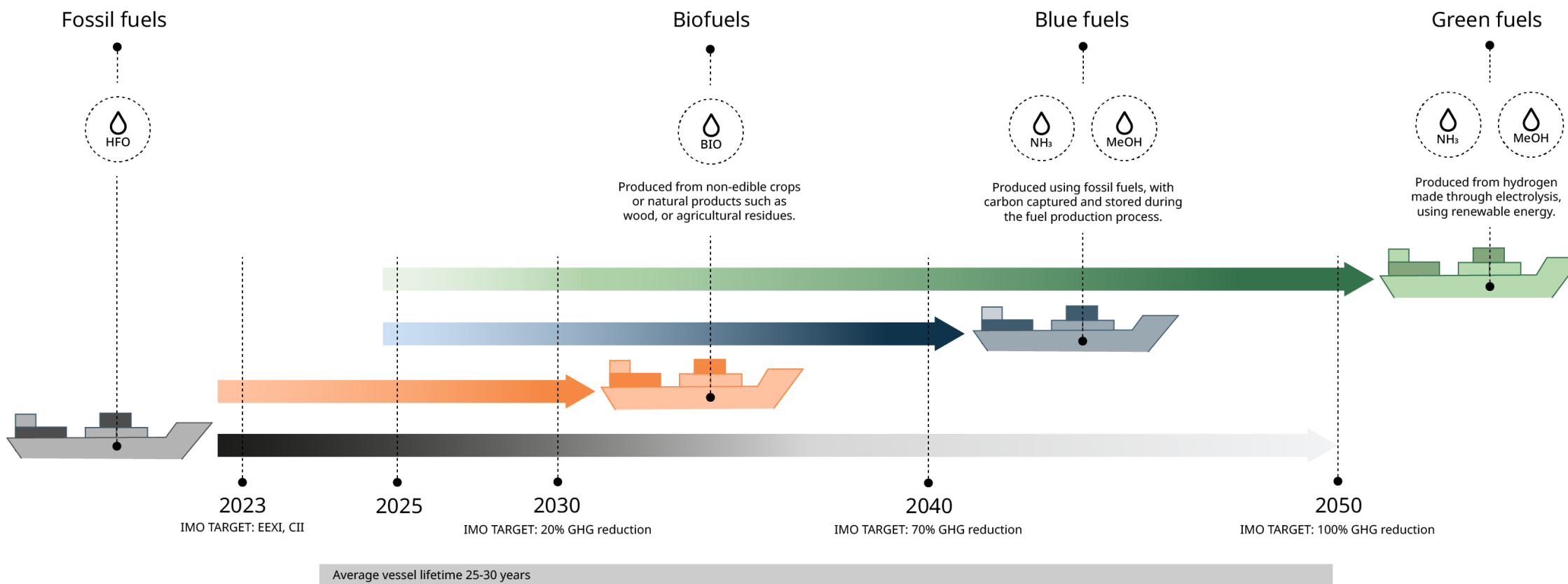
~60%

containerships contracted in 2023 - 2024 YTD are set to run on methanol

1) Source: Clarksons Research, March 2024; other includes ammonia, nuclear, ethane, hydrogen, biofuels, and battery/hybrid

Sustainable fuels roadmap to 2050

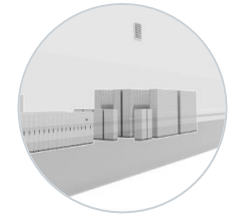
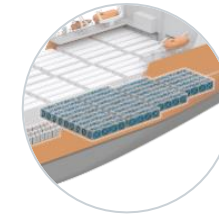
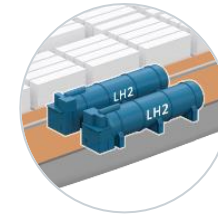
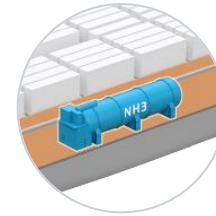
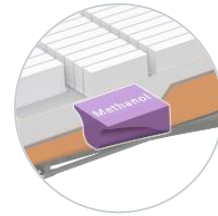
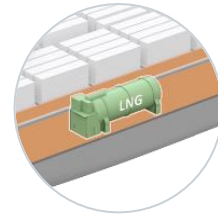
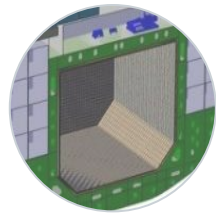
In Wärtsilä, alternative fuel-capable engines account for >60% MW ordered in 2023



Targets based on latest MEPC80 regulation (referring to Well-to-Wake emissions)

HFO: Heavy fuel oil. NH₃: Ammonia. MeOH: Methanol

Cost of emissions will close the price gap between fossil and sustainable fuels; fuel selection impacts the vessel structure










Fuel type	Low Sulphur Fuel Oil @ 20°C	Liquefied Natural Gas @ -162°C	Methanol @ 20°C	Ammonia @ -33°C	Liquid Hydrogen @ -253°C	Compressed Hydrogen @ 350bar	Marine Battery Rack
Fuel price factor (per GJ) ¹⁾	1x	1.1x – 4.6x ²⁾	2.6x – 5.5x ³⁾	2.4x – 4.3x ⁴⁾	3.6x – 4.6x ⁴⁾	2.1x – 3.1x ⁴⁾	2.0x – 5.3x ⁸⁾
Fuel price factor in 2035, incl. carbon tax ^{1) 5)}	1x	0.8x – 1.4 ²⁾	0.8x – 1.6x ³⁾	0.7x – 1.2x ⁴⁾	1.2x – 1.5x ⁴⁾	0.6x – 1.0x ⁴⁾	0.8x – 2.0x ⁸⁾
Gross tank size factor ⁶⁾	1x	1.7x – 2.4x ⁷⁾	1.7x	3.9x	7.3x	19.5x	~40x (~20x potential)

1) Fuel production cost estimate for 2025 and 2035; source: Maersk Mc-Kinney Møller Center for Zero Carbon Shipping – NavigaTE 2023; 2) Price range spans between fossil & electro- methane; 3) Price range spans between bio- & electro- methanol; 4) Price range spans between blue- & electro- ammonia/hydrogen; 5) Assuming 100% consumption subject to EU Fit-for-55, EU allowances at EUR 159/ton (source: Transport & Environment NGO); 6) Gross tank estimations based on Wärtsilä data; 7) 1.7x membrane tanks, 2.4x type C tanks; 8) Shore energy price EUR 0.1-0.27/kWh

We focus on the most high-value, performance-driven segments

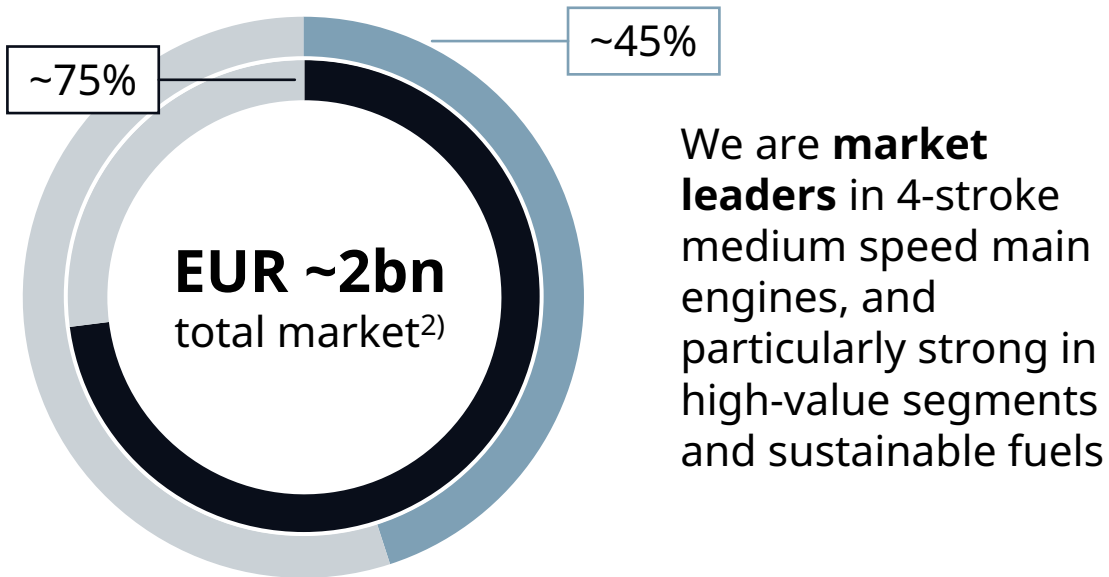
Typical Wärtsilä Marine offering per vessel¹⁾

	Cruise	Ferries	Offshore	Navy	Specials	Merchant	Hy-El merchant
							
Engines / Hybrid¹⁾	Diesel-Electric	Main Engines Aux Engines Hybrid System	Hybrid-Electric	Aux Engines	Main Engines	Aux Engines Main Engines ⁵⁾	Hybrid-Electric
Propulsion²⁾	Tunnel Thrusters	CPP or Waterjets	Steerable Thrusters Tunnel Thrusters	CPP, FPP or Waterjets	CPP or Steerable Thrusters Tunnel Thrusters	CPP Tunnel Thrusters EST	CPP Tunnel Thrusters EST
Potential³⁾	EUR 15-40m	EUR 10-25m	EUR 5-15m	EUR 5-15m	EUR 5-15m	EUR 2-15m	EUR 25-30m
% of Order Intake⁴⁾	~25%		~5%	~10%	~5%	~50%	-

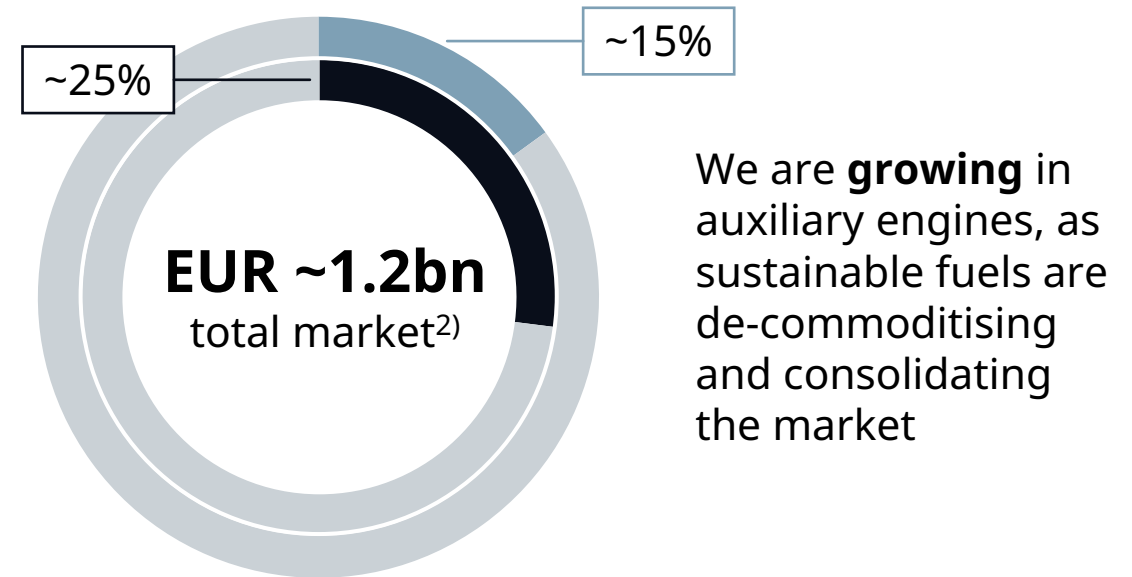
1) Non-exhaustive list; offering depends on vessel specific configuration and may vary substantially. 2) CPP/FPP = Controllable/Fixed Pitch Propeller; EST = Energy Saving Technology, e.g., gate rudder, EnergoProFin, EnergoFlow, EnergoPac; 3) Potential per shipset; it includes catalyst systems and electrical systems; carbon capture is not included, and could unlock additional EUR 2-8m potential; 4) Marine Power equipment order intake, 2023; ~5% in non-vessel markets, mainly simulation and ports; 2-stroke cargo order intake mainly from LNG carriers and containerships; 5) Predominantly 2-stroke main engines, 4-stroke main engines only on small vessels and coastal vessels

Our market share is stronger on alternative fuel capable engines compared to diesel engines

4-stroke medium speed main engines market share¹⁾



Auxiliary engines market share¹⁾

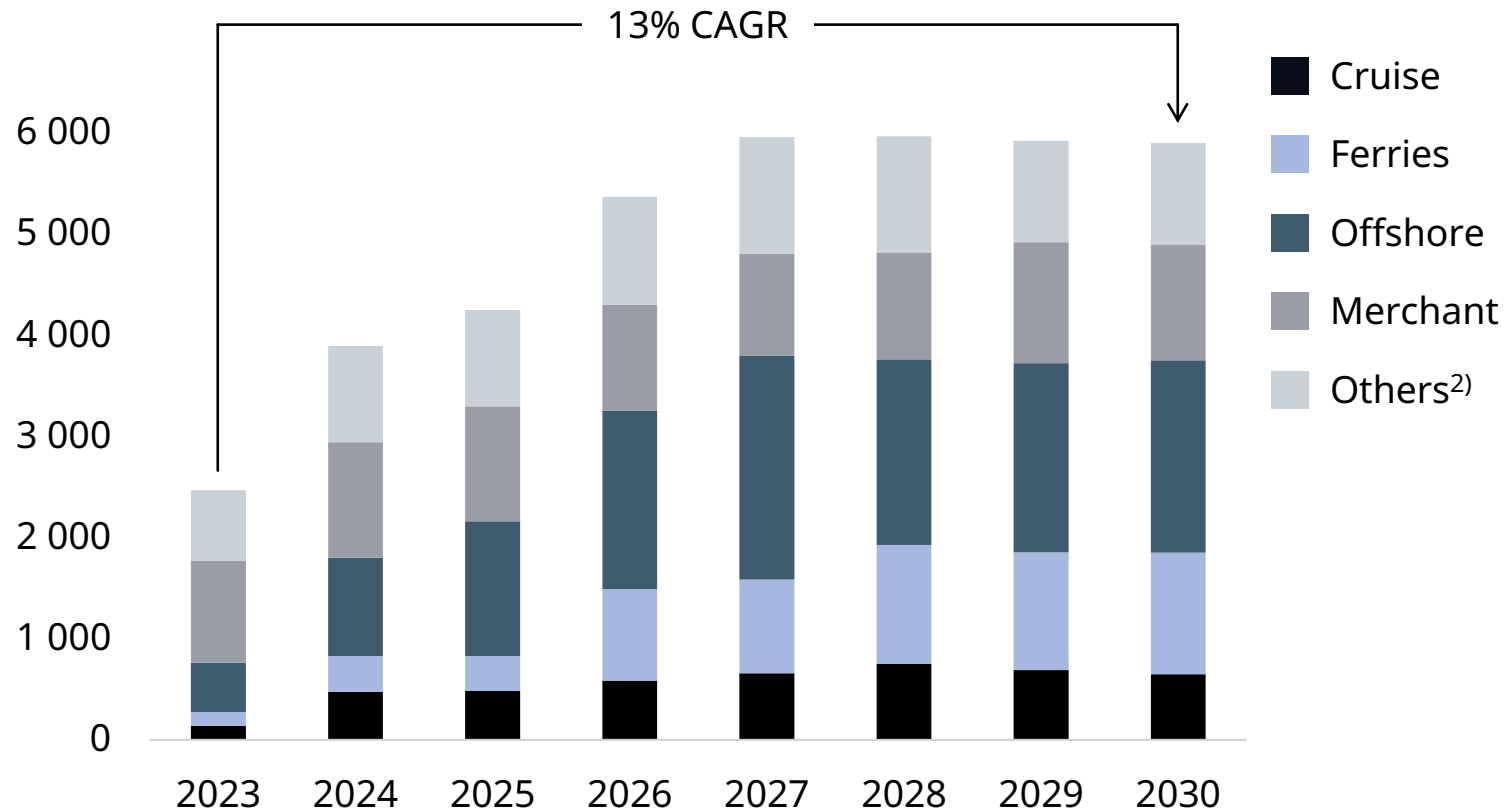


● Outer circle: Wärtsilä total market share ● Inner circle: Wärtsilä market share on alternative fuel engines

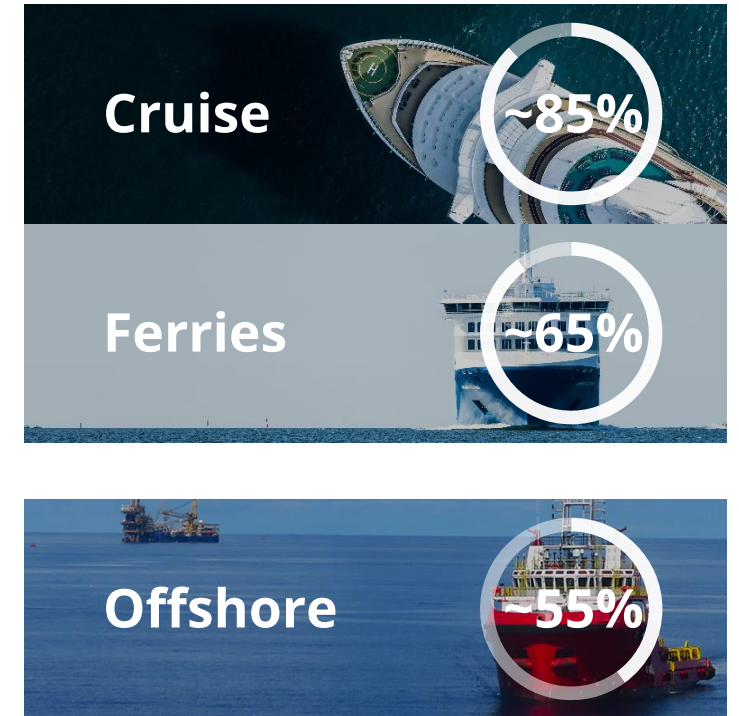
1) Wärtsilä estimates, MW; 2) Average 2024-2028, based on Clarksons March 2024 forecasts and internal models

Recovery in our key target segments will double the 4-stroke medium speed main engine addressable market by 2030 compared to 2023

Newbuild ordering of 4-stroke medium speed main engines, MW¹⁾



Wärtsilä market share, MW³⁾

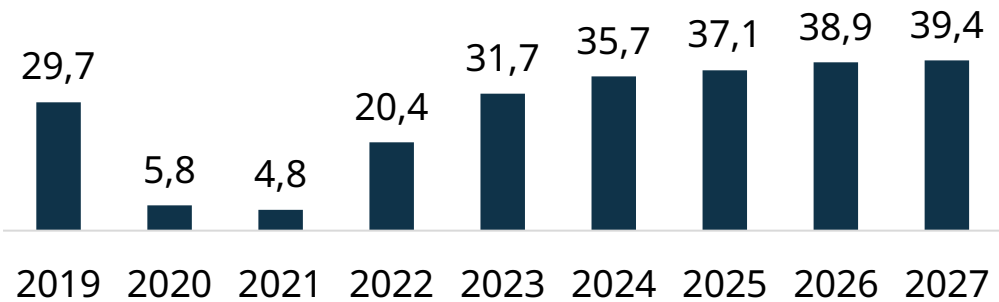


1) Source: Clarksons March 2024 forecasts; 2) Fishing, dredgers, support units, yachts, tugs, etc.; 3) Market share on 4-stroke main and auxiliary engines as per Q4 2023, Wärtsilä estimates, MW

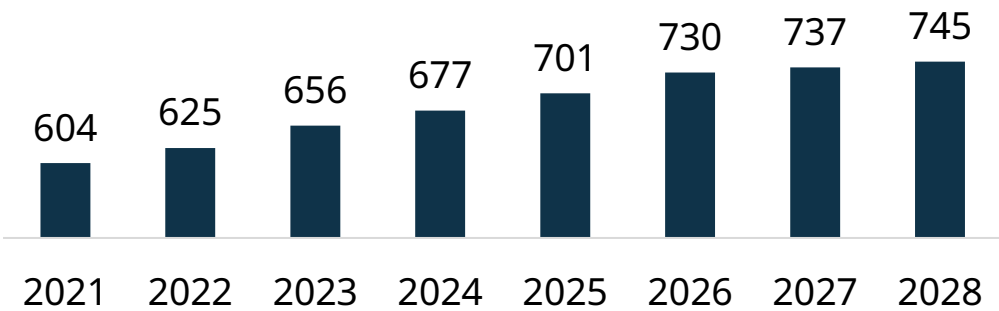
Global cruise capacity is forecast to grow over 10% from 2024 to 2028



Cruise passengers, million passengers



Cruise capacity, 1000x lower berths¹⁾



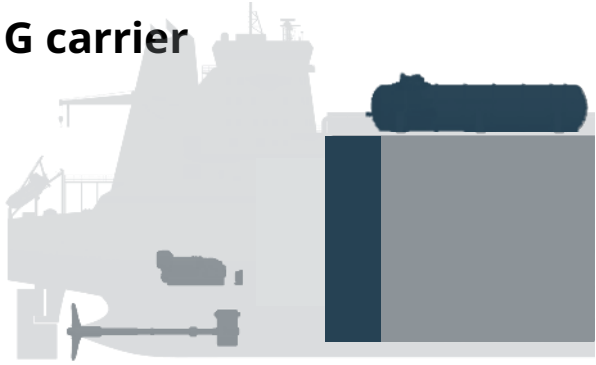
- ✓ Cruise travel reached 107% of 2019 levels in 2023, with 31.7 million passengers sailing; this compares to overall international tourism arrivals, which are 12% lower than 2019
- ✓ By 2027, cruise is forecast to grow to nearly 40 million passengers (+24% vs 2023)
- ✓ 60% of ships with delivery between 2023 and 2028 are set to run on LNG fuel
- ✓ Methanol is gaining traction, e.g., Celebrity Cruises new Edge Series ship will be equipped with Wärtsilä 46F methanol-ready engines

Source: CLIA, the state of the cruise industry 2024; 1) Lower berths indicate cruise capacity, assuming two passengers per stateroom

Hybrid-Electric will challenge 2-stroke as prime-mover for LNG carriers, enabling higher efficiency and increased cargo capacity

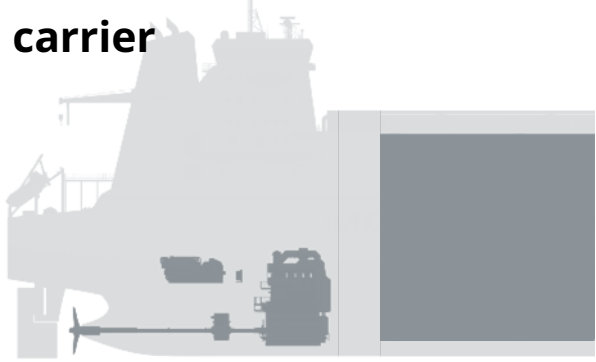
Wärtsilä Hybrid-Electric LNG carrier

185k cbm capacity
 3x 4-stroke spark-gas gensets
 2x 4-stroke dual fuel gensets
 2 MWh batteries
 ■ Extra cargo capacity



Conventional 2-stroke LNG carrier

174k cbm capacity
 2x 2-stroke main engines
 4x 4-stroke aux engines

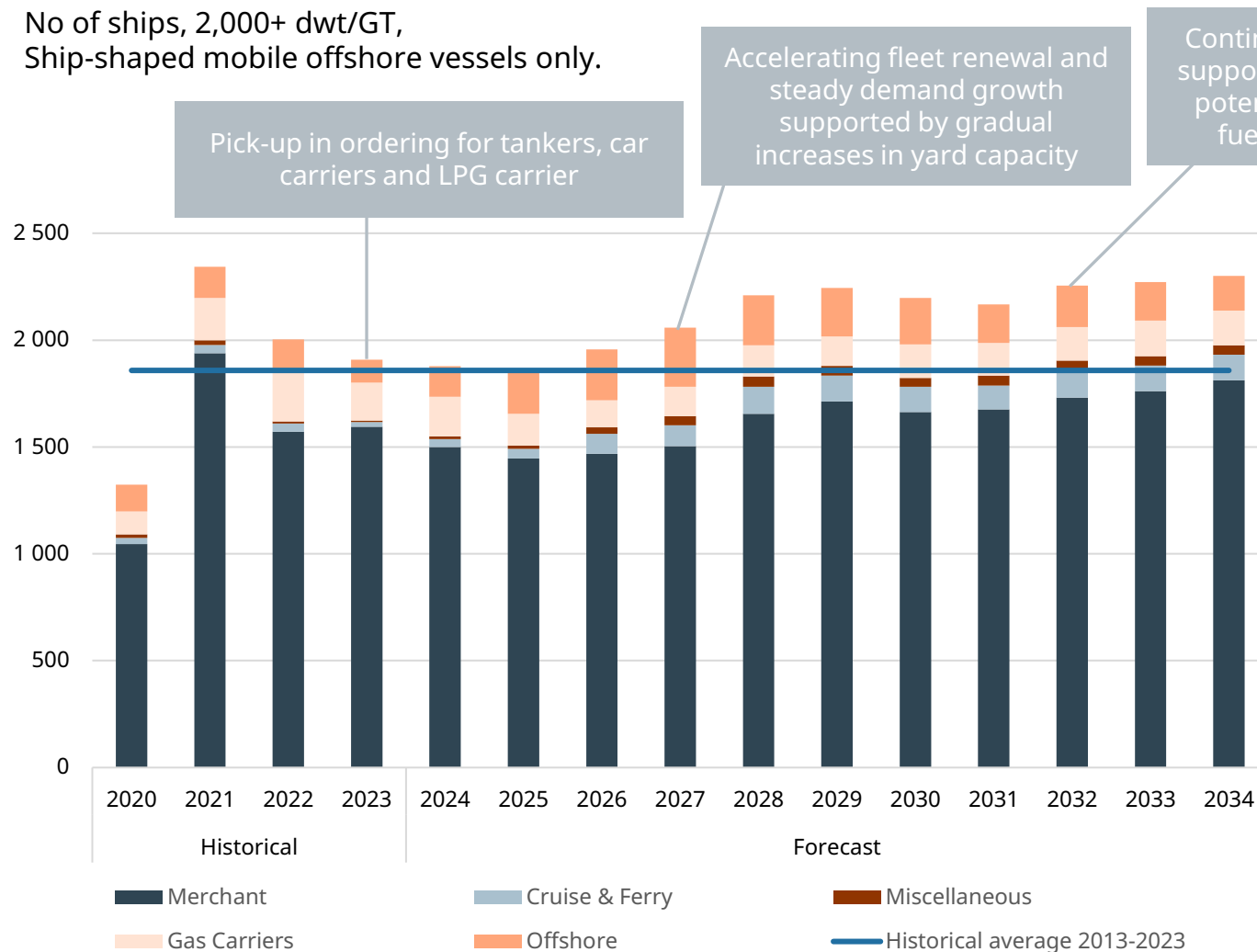


- ✓ **Launched at Gastech in 2023**
with Shell and Hudong-Zhonghua Shipbuilding
- ✓ **6% extra cargo capacity**
with same ship dimensions
- ✓ **>10% lower fuel consumption and emissions**
with optimal efficiency across all speeds
- ✓ **20% lower maintenance costs**
with fewer engine running hours
- ✓ **Superior redundancy, uptime, flexibility**
as it can operate with fewer engines
- ✓ **Future proof**
as it can integrate alternative power sources

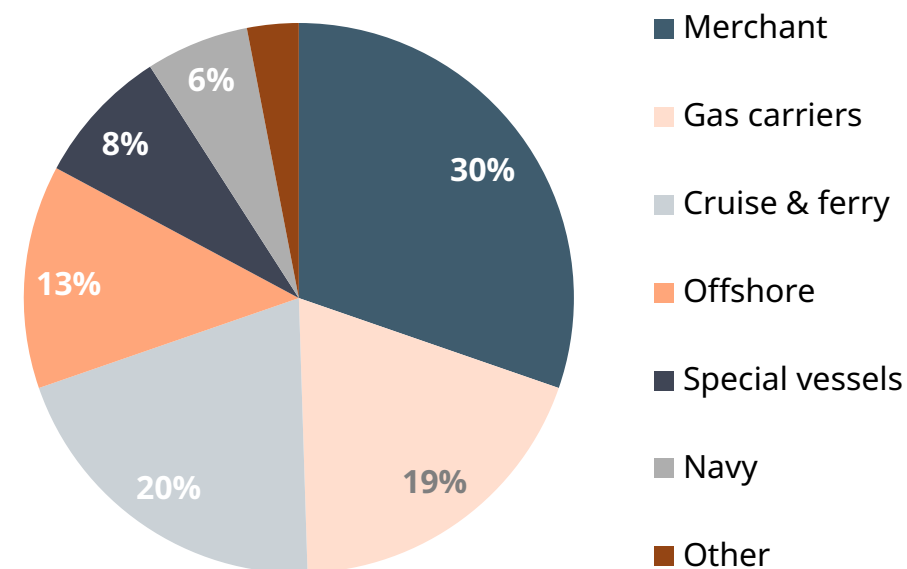
Values refer to a comparison with a conventional 174k cbm LNGC (2x 2-stroke low pressure DF main engines, 4x 34DF 4-stroke aux engines), calculated on full year cycle real operating profile with average speed of 15 knots in laden and 13.5 knots in ballast; cargo increase confirmed by Hudong-Zhonghua Shipbuilding in their general arrangements and outline specifications

Vessel contracting forecast

No of ships, 2,000+ dwt/GT,
Ship-shaped mobile offshore vessels only.



Wärtsilä's order intake in Marine businesses by customer segment in 2023

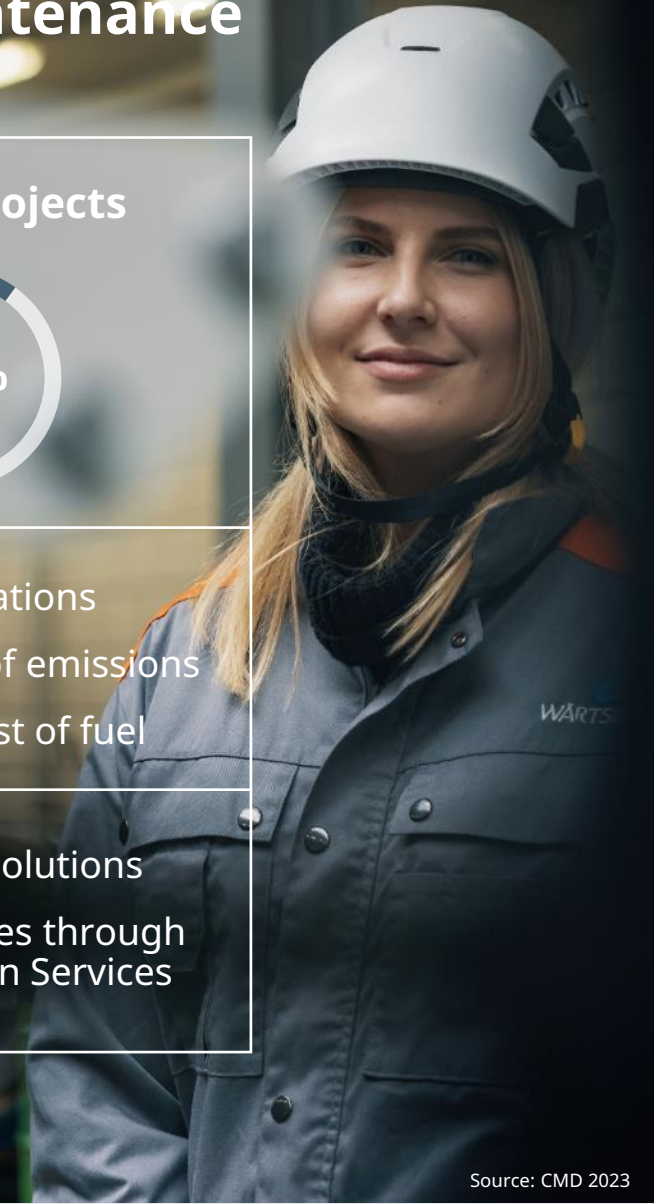


Includes both orders for equipment and services. The vessel types included in Merchant segment are bulk carriers, cargo-, container-, and RoRo vessels as well as tankers. The vessel types included in Special vessel segment are dredgers, fishing-, inland-, and service vessels as well as tugs.



Services is more than 60% of Marine sales We have 3 distinct revenue streams covering customer maintenance

	Transactional	Agreements	Retrofit Projects
% services sales ¹⁾	~60%	~30%	~10%
Growth drivers	Installed base growth	Increasing ship complexity Increasing cost of emissions Increasing cost of fuel	New regulations Increasing cost of emissions Increasing cost of fuel
Focus areas	Customer service Service offering Long-tail customers	New outcome-based models Service level differentiation Digital tools and services	New retrofit solutions Consultative sales through Decarbonisation Services

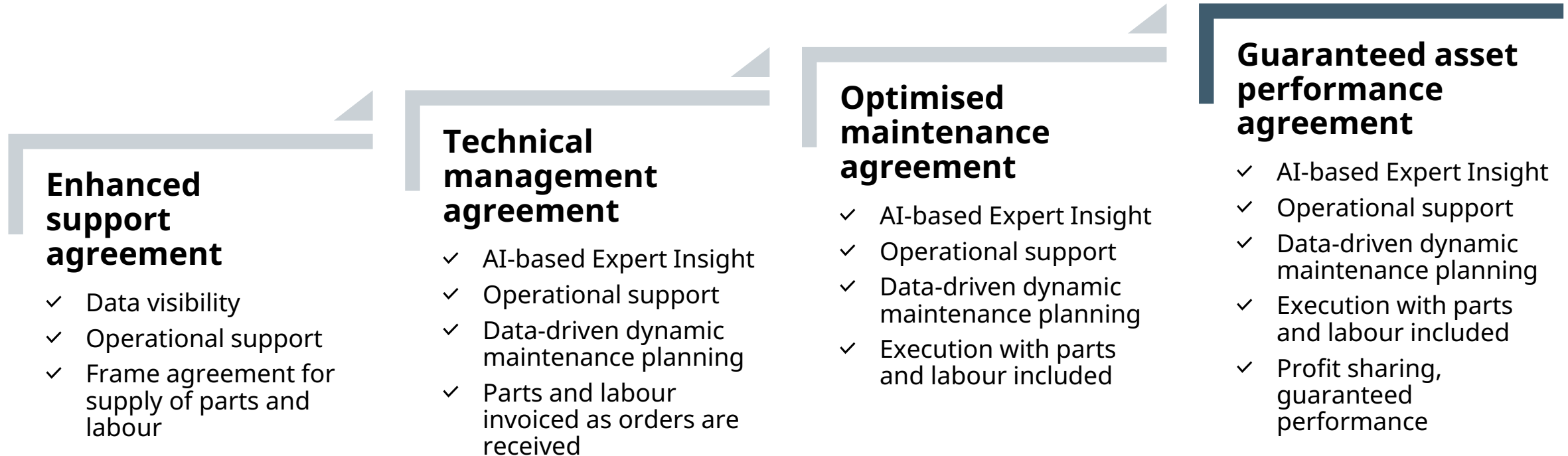


1) LTM Q3/2023; split between Transactional and Agreements based on services net sales to vessels not covered / covered by agreement

We increase sales and profits by moving up our service value ladder

From 1x¹⁾

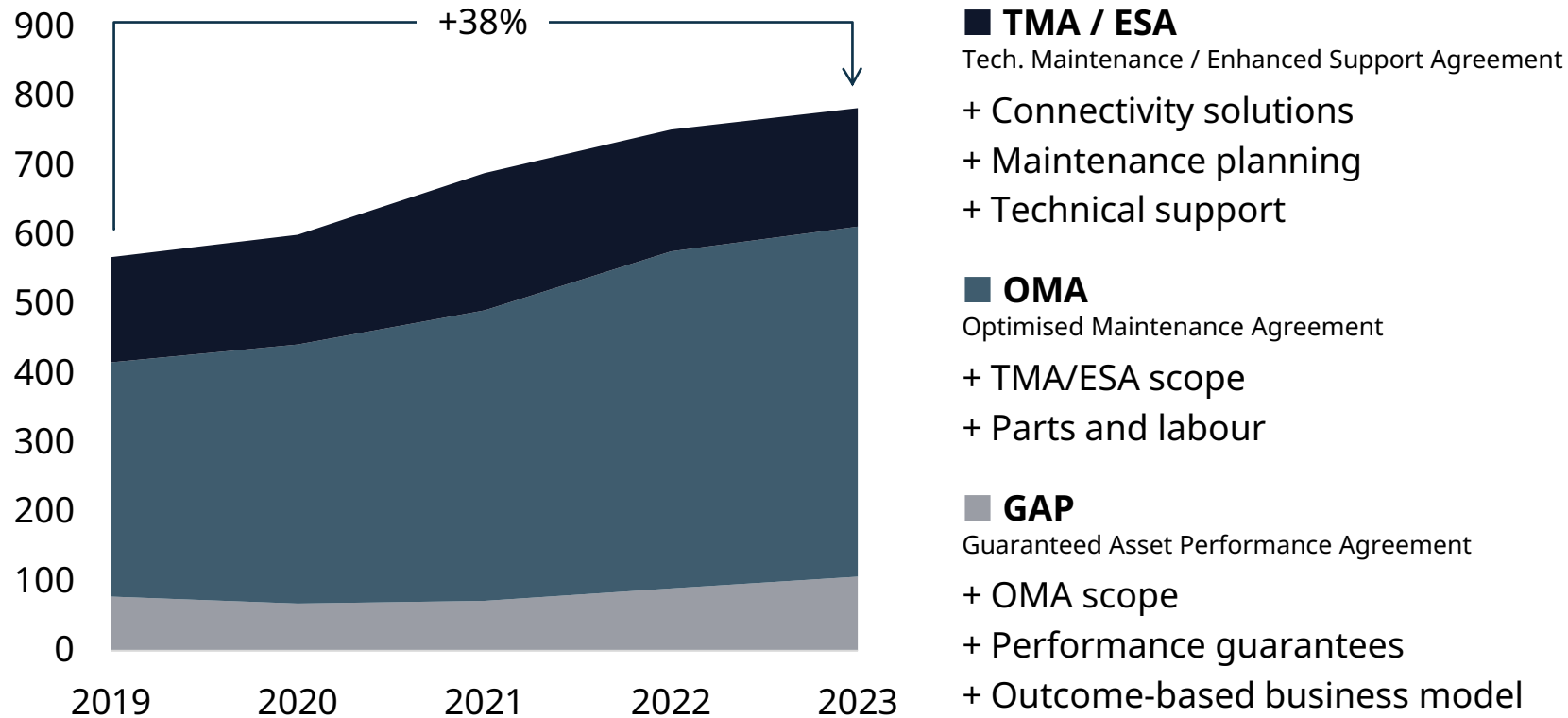
Up to 2-3x¹⁾



1) Sales EUR/kW relative to transactional

Installations under agreement grew by 38% since 2019; healthy 90% renewal rate

Number of vessels under agreement, by agreement scope¹⁾



26%

growth in sales to agreement vessels vs pre-Covid

29%

of our engine installed base is under agreement³⁾

EUR >60m

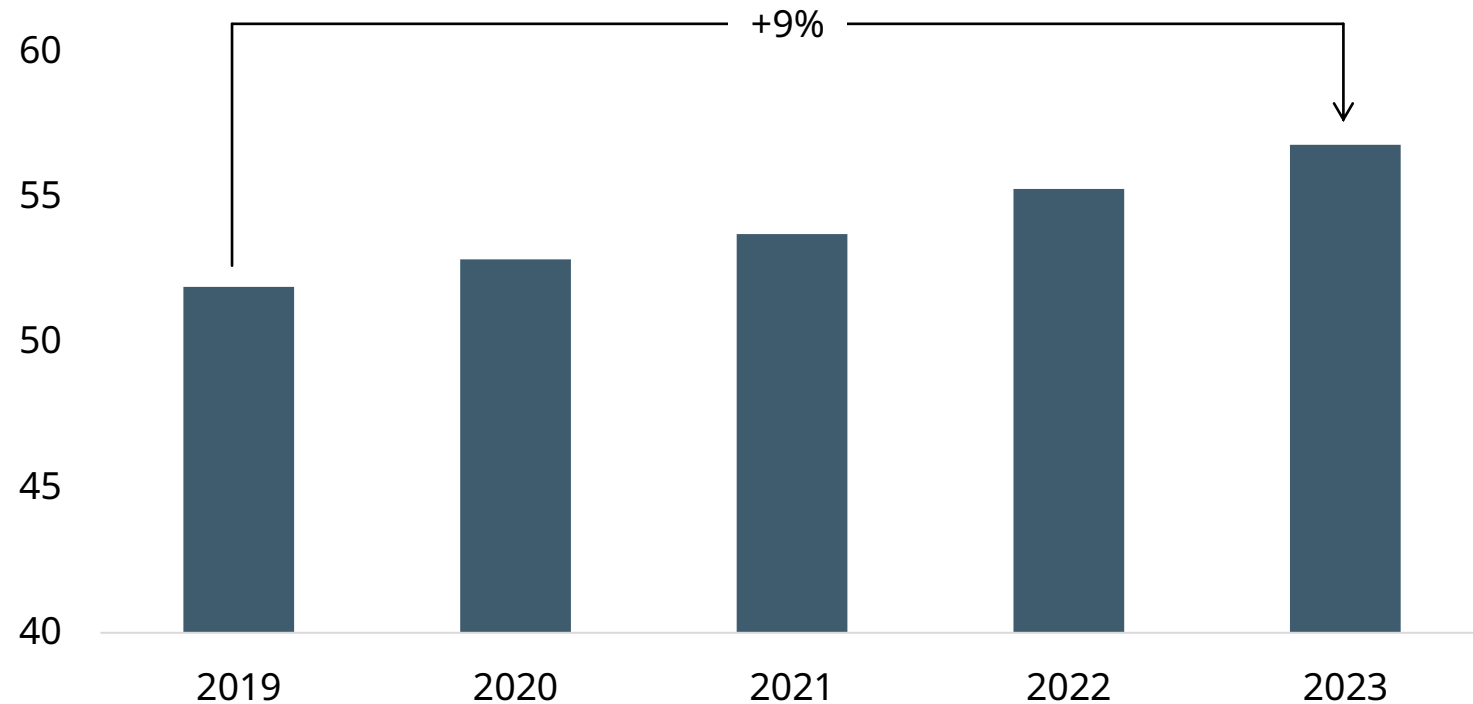
fuel savings on a cruise fleet over a 6-year contract period

1) Including vessels with 4-strokes, 2-strokes or exhaust treatment under active agreement; 3) Excluding QuantiParts

Our installed base generates revenues during over 30 years; it grew by 9% over 2019-23

Marine 4-stroke installed base development

Marine 4-stroke installed base, GW¹⁾



1) Based on 4-stroke lifecycle sales in 2019-2023, excluding Quantiparts

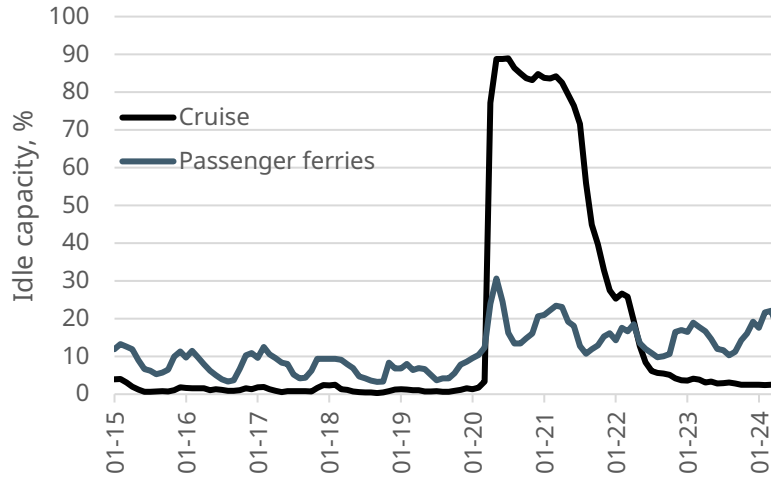
>3,000
customers groups buy from us at least once a year

+9%
4-stroke engine installed base growth since 2019

+7%
number of buying customer growth since 2019

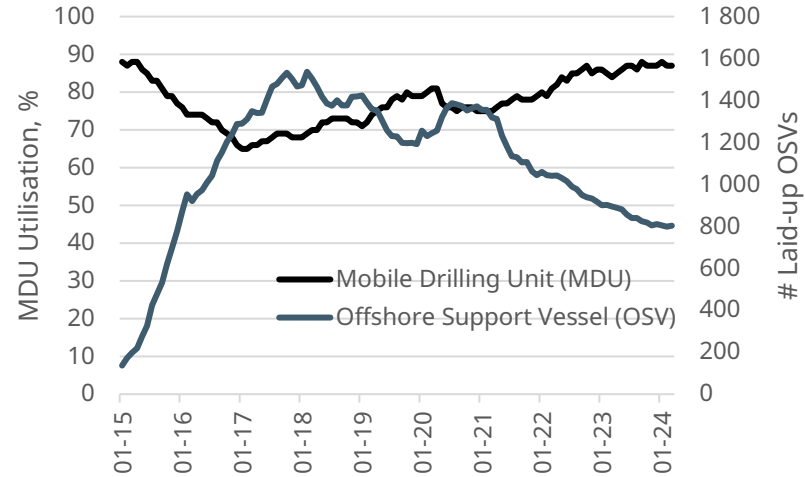
Vessel utilisation rates driving Wärtsilä's service business

Cruise and passenger ferries



- Growth in the cruise fleet capacity continues to support cruise lines' long-term growth ambitions, while strong demand for cruises have led to onboard load factors and idle capacity recovering to pre-Covid levels.
- Active ferry capacity is following seasonal utilisation patterns, while key ferry operators have reported of improved earnings and recovering passenger volumes.

Offshore



- Mobile Drilling Unit (MDU) utilisation rates are expected to reach 91% by the end of 2024, up from current 87% with utilisation supported by continued demand and limited supply of assets.
- The pool of laid-up OSVs is expected to decline by 9% in 2024 as demand for OSVs continues to improve.

Using slow steaming to manage active fleet capacity and/or to limit emissions will require more active capacity on the water, driving up the utilisation rate of existing fleet and eventually lead to demand for further vessel capacity, leading to higher demand for services

Tightening regulations and increasing fuel and emission cost will boost demand for retrofits

Total investments in retrofits are estimated to be EUR 15-20bn over the next decade¹⁾

Propulsion efficiency upgrades

Propulsion efficiency improvements, e.g., OptiDesign, EnergoFlow, EnergyProFin³⁾

700+
vessels contracted

EUR 20k-1m
per shipset

Alternative fuel conversions

Engine retrofits to run on alternative fuels on top of conventional diesel

10+
vessels contracted

EUR 3-8m
per shipset

Radical power derating

2-stroke power output reduction to optimise efficiency, fuel consumption and emissions at lower speeds

30+
vessels contracted

EUR 5-8m
per shipset

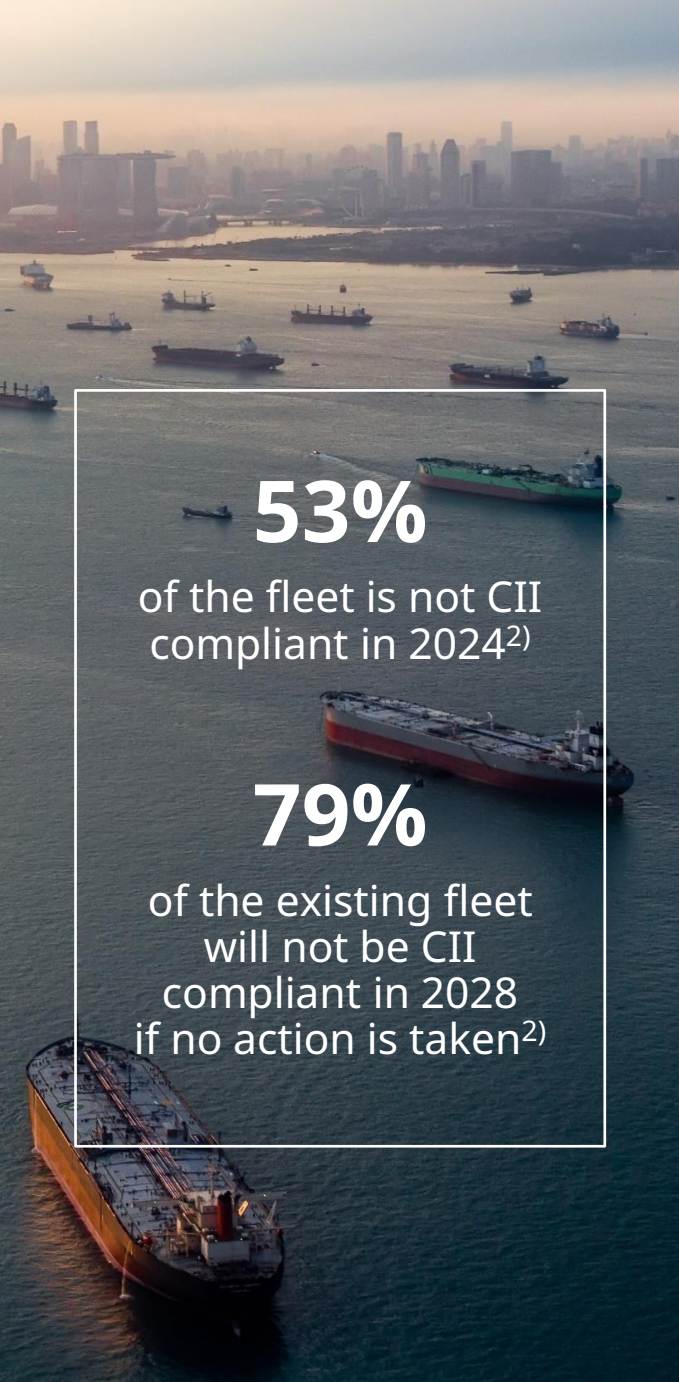
Electrification projects

Electrical system⁴⁾ upgrade, including hybrids and shaft generators to improve OpEx, emissions, safety

30+
vessels delivered⁵⁾

EUR 3-8m
per shipset

1) Source: Clarksons, incl. ESTs and engines, excl. hybrids and offshore; 2) CII (Carbon Intensity Indicator) applies to cargo, RoPax, cruise ships >5 000 GT (with some exceptions); source: Wärtsilä CII tool, correction factors excluded, ships with D or E rating considered as non-compliant; 3) OptiDesign: optimised propeller for actual operating profile; EnergoFlow: pre-swirl stator; EnergyProFin: propeller cap; OptiDesign, EnergoFlow, EnergyProFin can be sold both combined and as stand-alone; 4) E.g., Energy storage system, power distribution, energy management system; 5) Hybrid upgrades



53%

of the fleet is not CII compliant in 2024²⁾

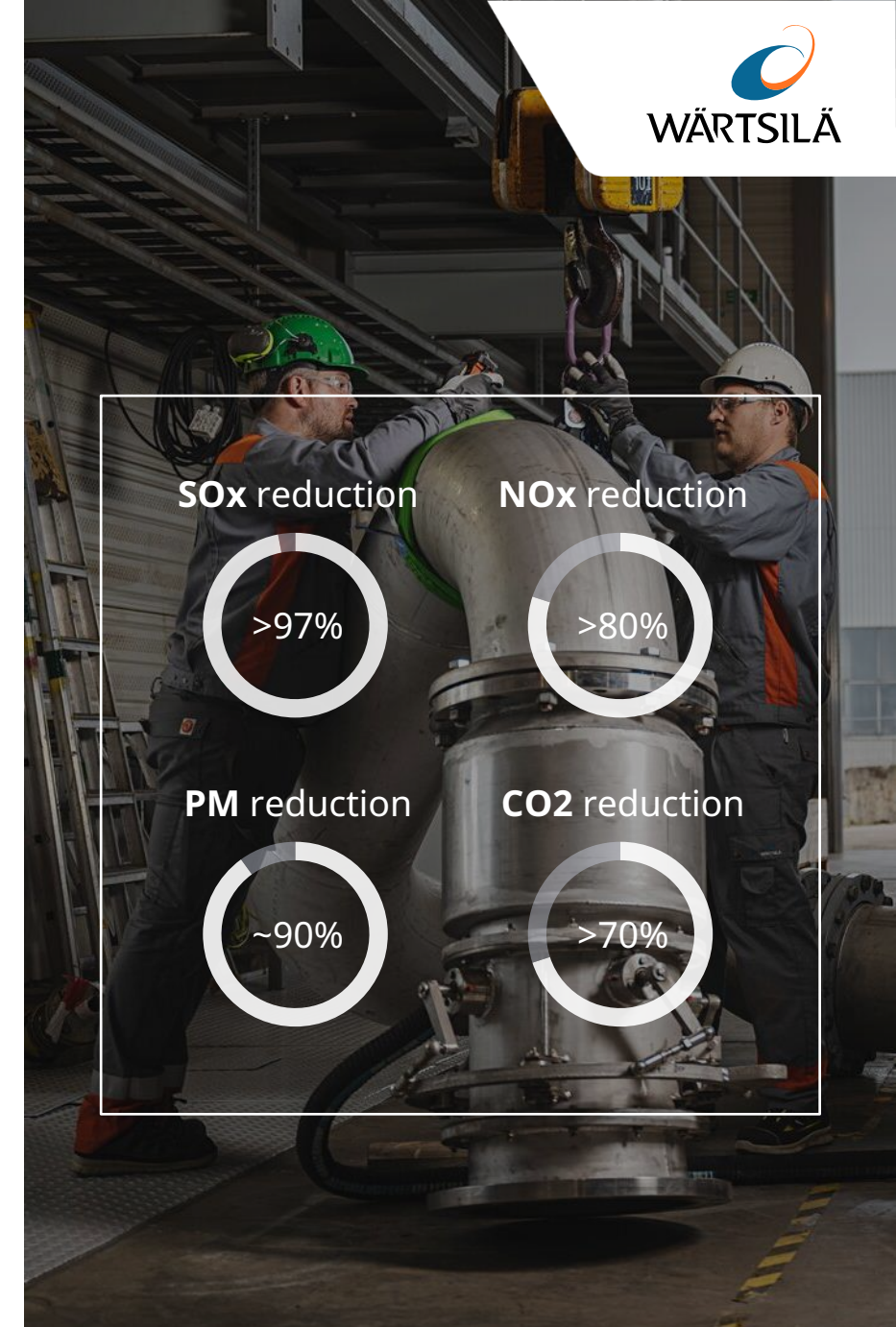
79%

of the existing fleet will not be CII compliant in 2028 if no action is taken²⁾

Onboard Carbon Capture and Storage (CCS) allows to capture >70% of the CO₂ generated onboard

Onboard CCS can unlock EUR ~10bn business in the next 10 years¹⁾

- ✓ Applicable to all carbon-based fuels, vessels types and sizes
- ✓ Captured CO₂ is stored onboard for discharge at port reception facility
- ✓ At our research centre and test facility in Moss, Norway, we simulate vessel installations of onboard carbon capture:
 - Operated for >2 years
 - CO₂ capture capacity: 10 tons/day
 - CO₂ capture rate: ~70%
- ✓ First full-scale system operational on LPG carrier “Clipper Eris” in Q4 2024
- ✓ Commercial release in 2025



1) Newbuild and retrofits, mainly merchant 2-stroke, dependent on speed of regulation, CO₂ tax incentives, development of carbon capture and storage infrastructure, price spread development between fossil and green fuels

Strong growth opportunities in marine based on technology leadership, moving up the service value ladder, and favorable vessel contracting mix

	Equipment	Services
Addressable market	(+) (+) (+) Favorable vessel contracting mix	(+) (+) (+) Decarbonisation-driven retrofits (+) Growing installed base
Market share	(+) (+) Decarbonisation: uptake of alternative fuels and emission reduction technology	(+) (+) Moving up the service value ladder

Energy highlights



Significant value creation opportunity – improving performance and capturing growth

Perform – on track to deliver our targets

- Driving performance in new build through **improved risk / reward**
- Continued **strong profitability in services** with a solid foundation for growth – Moving up the service value ladder
- Driving profitability in Energy Storage & Optimisation through **increasing value add in our products**
- Achieving **positive comparable operating result in Energy Storage & Optimisation**

Transform – growth opportunity in Engine Power Plants

- **Thermal balancing** addressable market is expected to **grow 19% p.a.** between 2022-2030
- Wärtsilä is the **global market leader in engine power plants** with superior balancing capabilities vs. gas turbines
- **Capability to convert to future fuels** key for customers to avoid risk of stranded assets

Transform – growth opportunity in Energy Storage & Optimisation

- **Energy storage addressable market** is expected to **grow 17% p.a.** between 2022-2030
- Wärtsilä is a **top 5 global leader** in energy storage
- **Differentiated** by project execution excellence, safety, reliability, and a fully integrated design
- **Strategic review** now started

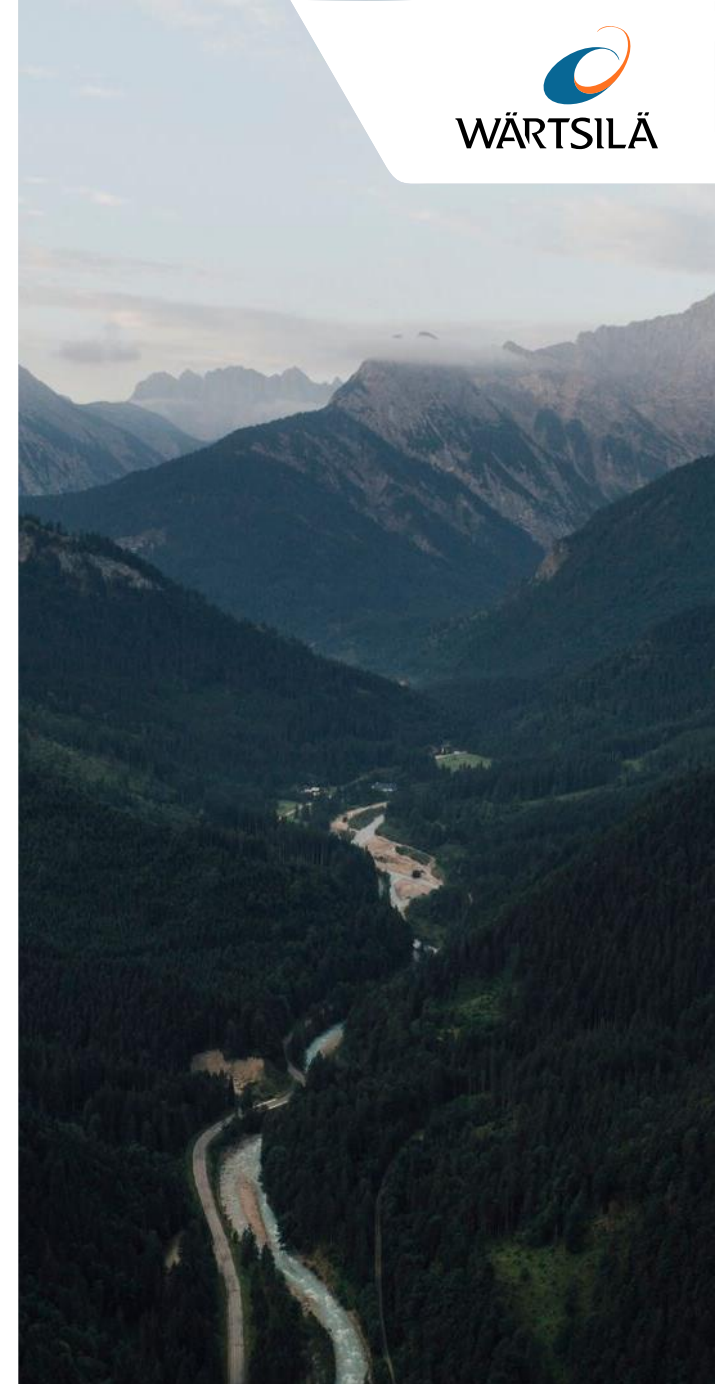
Actions taken to improve new build profitability and achieve better risk / reward

Organisation, team & governance

- **New organisation structure** with three global Business Units with P&L responsibility
- Significant changes in **Energy management & leadership**
- Energy has implemented **new governance**:
 - Updated sales-to-order processes to focus on **profitability** and a less volatile business
 - **Sales and operations planning** is regularly executed to improve productivity

Offering & risk management

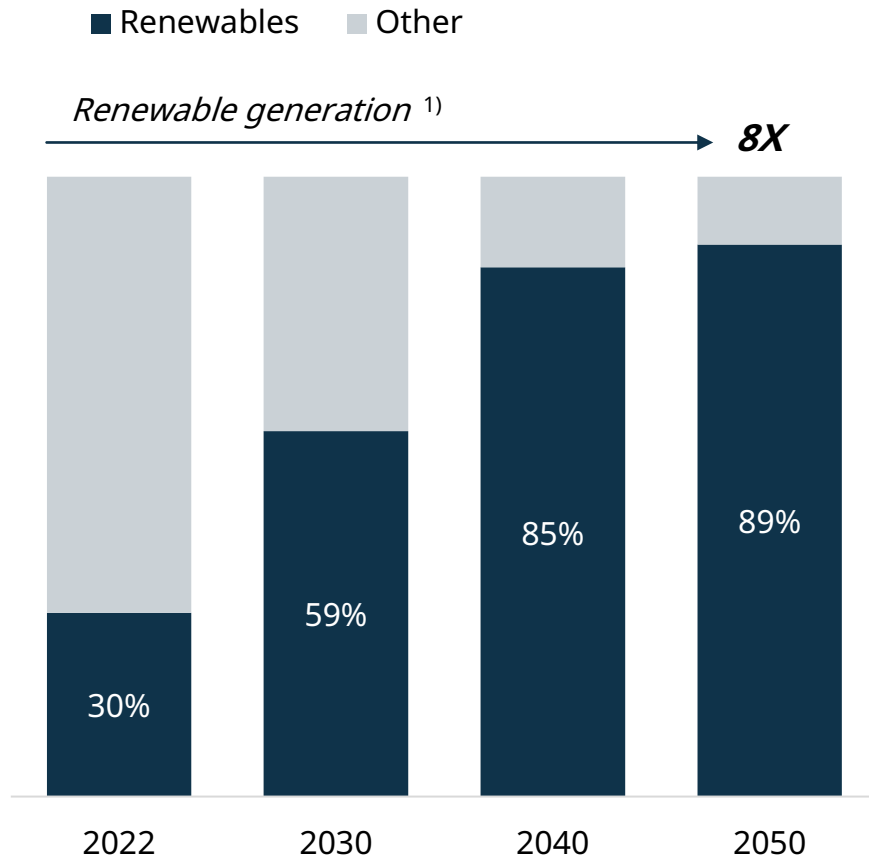
- Energy has **EEQ** (extended equipment supply) as **the preferred offering**, EPC (engineering, procurement and construction) is only considered in selected markets
- Going into 2024 **more than 80% of the order book is equipment orders**, compared to 40% going into 2022
- Rebalance in risk appetite leads to **stronger order book risk/reward profile for 2024 and onwards**



As the renewable energy transition accelerates, balancing solutions are key enablers for the transition

Share of renewables in global energy generation

Technology disruption in the energy sector



Renewables becoming main source of power



Gradual replacement of coal



Increased need for balancing solutions



**Development and increasing use of sustainable fuels –
Being enabled for future fuels avoids stranded assets**



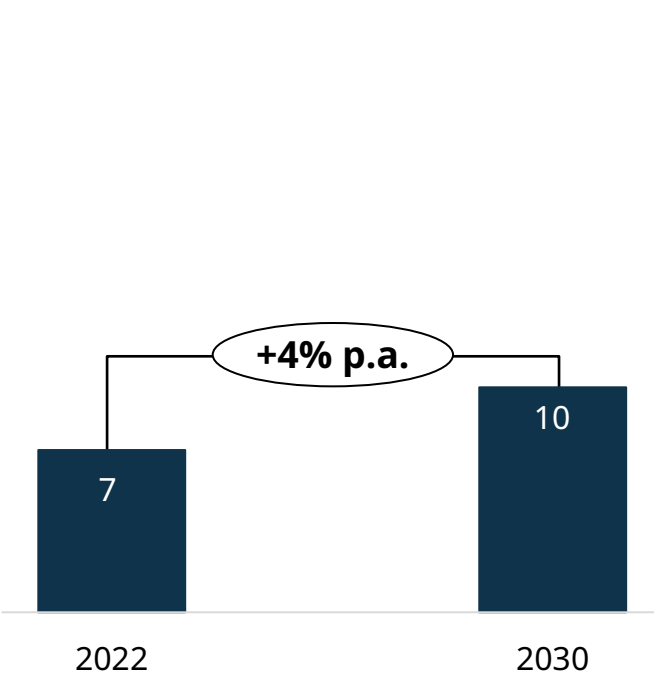
Power systems becoming increasingly more complex

1) IEA World Energy Outlook 2023 (Net Zero Emissions scenario)

Thermal balancer market expected to grow ~20% per year – the baseload market outlook remains stable

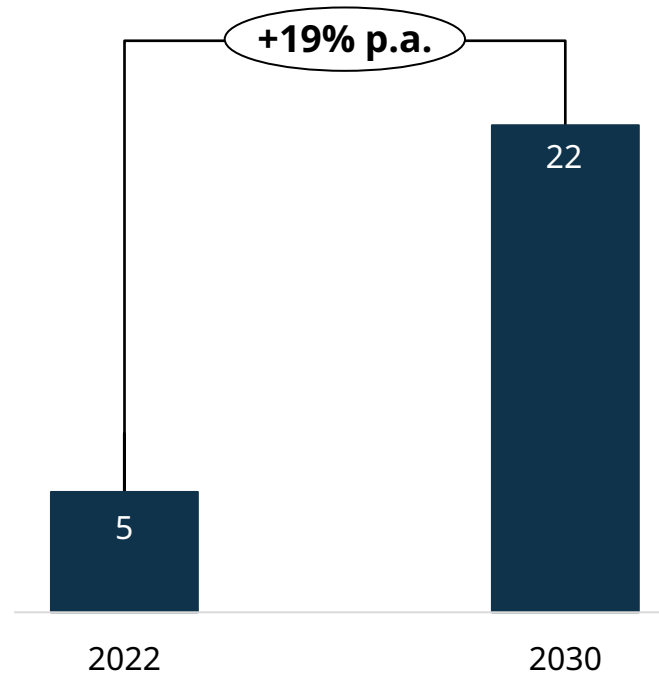
Engine power plant - baseload

Addressable annual market (GW)



Engine power plant - balancers

Addressable annual market (GW) ¹⁾



Outlook

- The transition towards renewables is the driving force behind demand for thermal balancing
- We see large balancing market potential e.g. in North America and Europe
- The role of gas as a transition fuel is essential for a secure transition, as highlighted by the IEA
- Future fuels will play an important role, a credible roadmap is essential

1) Forecast based on BloombergNEF forecast on wind and solar capacity additions, and estimated share of balancing capacity compared to renewables growth

Engine power plants are in a strong position as the balancing market grows. Power system knowledge makes Wärtsilä the go-to partner for capacity planning

Engines superior to Gas Turbines for balancing

- **Faster start up** and continuous **ramping** for renewables
- **Cycling** several times per day with **no cost impact**
- **High efficiency** due to multiple modular units
- **Catching price spikes** and avoiding negative prices

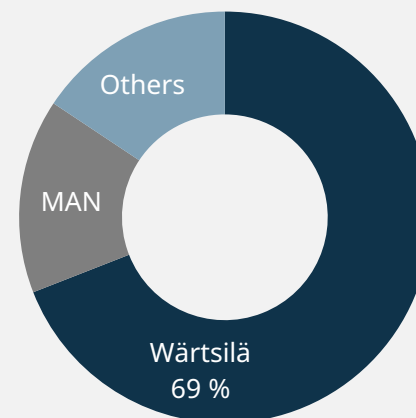
Modelling supports Wärtsilä go to market approach

- We have modelled >190 countries and systems worldwide
- Transparent modelling shows value of balancing with engines
- Shift to net zero energy feasible with existing technology

Wärtsilä is clear market leader in engine power plants

- Clear market lead in engine power plants with 50-70% market share
- **Technology leader** in new green fuels and performance-based services
- **Proactively develops** new engine markets, competing with gas turbines

Engine market shares ¹⁾



1) >5MW units, LTM Q2/2023. Based on public and Wärtsilä data

Wärtsilä in strong position as thermal balancing market grows

- Balancing market expected to grow in key regions ²⁾

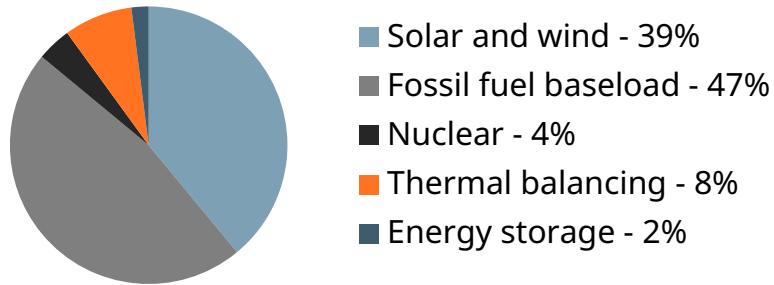
	2027 (GW)	5-year CAGR
US	3.6	19%
Australia	0.7	
Europe	5.0	
India	1.7	

- Additional potential in markets like Brazil, Argentina, China, Japan and Vietnam

2) Based on BloombergNEF ETS and Wärtsilä data

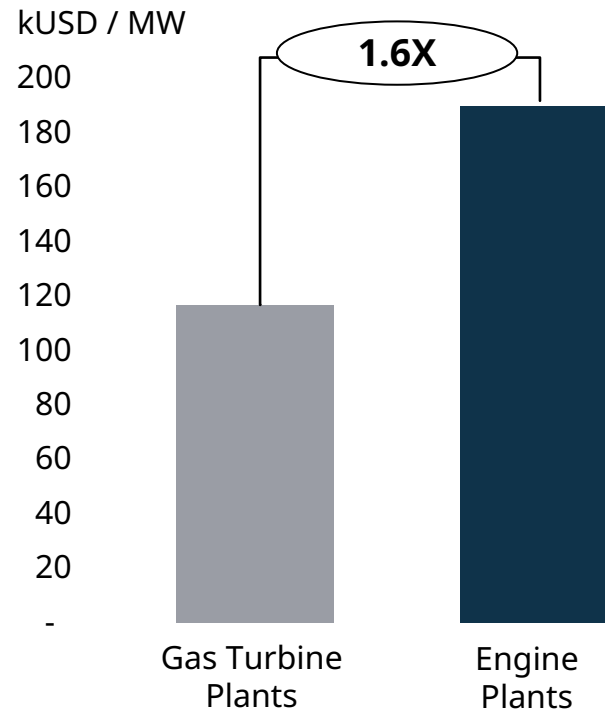
Case Texas shows future trends. Increasing renewables creates need for balancing with engines outperforming competing technologies

30 million population with 133 GW of installed power (system size equal to France)



- 7% in annual growth of thermal balancing the last 5 years with expected continued growth
- Growing regulatory support for balancing in Texas
- Wärtsilä installed based (and growing):
 - 1 GW of thermal balancing
 - 1.2 GWh of energy storage

1.6X higher¹ real time market revenue potential for engines vs. gas turbines



Texas as a proofpoint for thermal balancing

- High amount of renewables
- Granular price signals
- Policy support for balancing

Similar conditions forming in:

- Midwestern USA (SPP and MISO)*,
- Australia
- Europe

*SPP = Southwest Power Pool

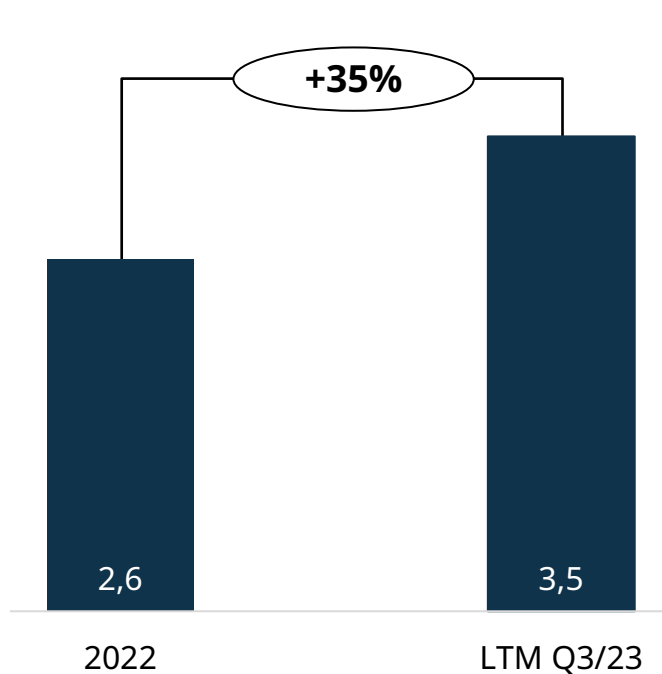
*MISO = Midcontinent Independent System Operator

Source: S&P Capital IQ Pro, ERCOT (September 2023 data), 1) ERCOT's Security Constrained Economic Dispatch (SCED) data – Wärtsilä study. Data based on average of 2 Aeroderivative gas turbine plants and 2 Wärtsilä engine plants for the full year 2022

Energy storage growth outlook remains strong

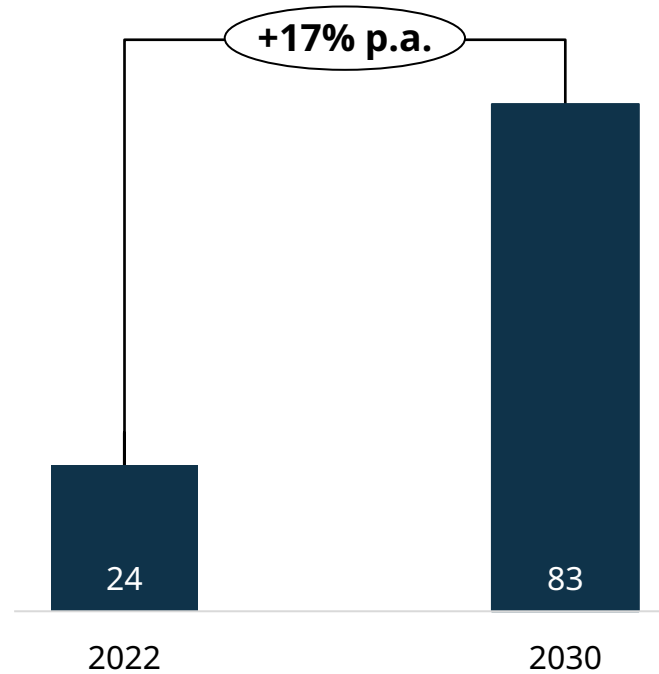
Order intake

Order intake (GWh)



Market outlook

Addressable annual market (GWh) ¹⁾



Outlook

- Focus on profitable growth. Maintain **top 5** market position
- **Strong new build sales growth** expected, driven by market demand
- **>11 GWh** energy storage capacity delivered, awarded, contracted or in deployment
- **Complexity drives demand** for advanced energy management systems

1) Adapted from BloombergNEF Energy storage market outlook 1H2023. Addressable market excluding certain geographical markets and residential and commercial storage

Energy Storage has grown 3X¹⁾ since 2021 and is now profitable – key focus on commercial approach and differentiated offering

Selective commercial approach

- Focusing on growth of utility scale storage in selected geographies
- Systematic project selection to drive profitability

Differentiated offering & approach

- Excellence in project execution, a reliable and leading storage player globally
- Industry leading design and safety record with outstanding performance in fire safety
- Fully integrated energy storage solution with modular and scalable design
- Leading GEMS energy management system with optimisation and grid integration capabilities

Cost competitiveness

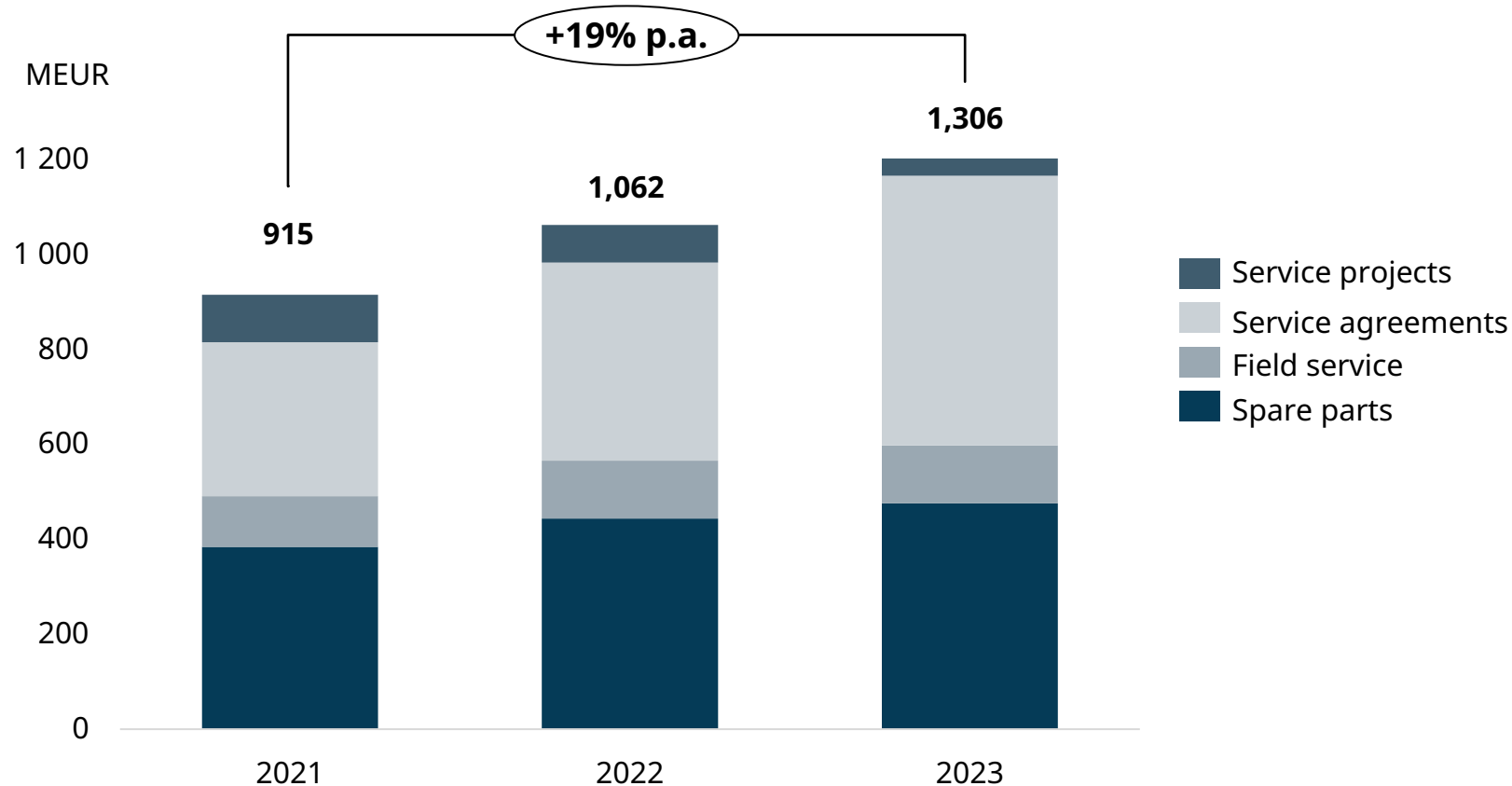
- Hardware and software development for competitive product cost
- Multi-sourcing and active supply chain management to meet regional requirements

1) Net Sales LTM Q3 2023 vs. 2021



Continued good profitability in services with a solid foundation for future growth

Service order intake, MEUR



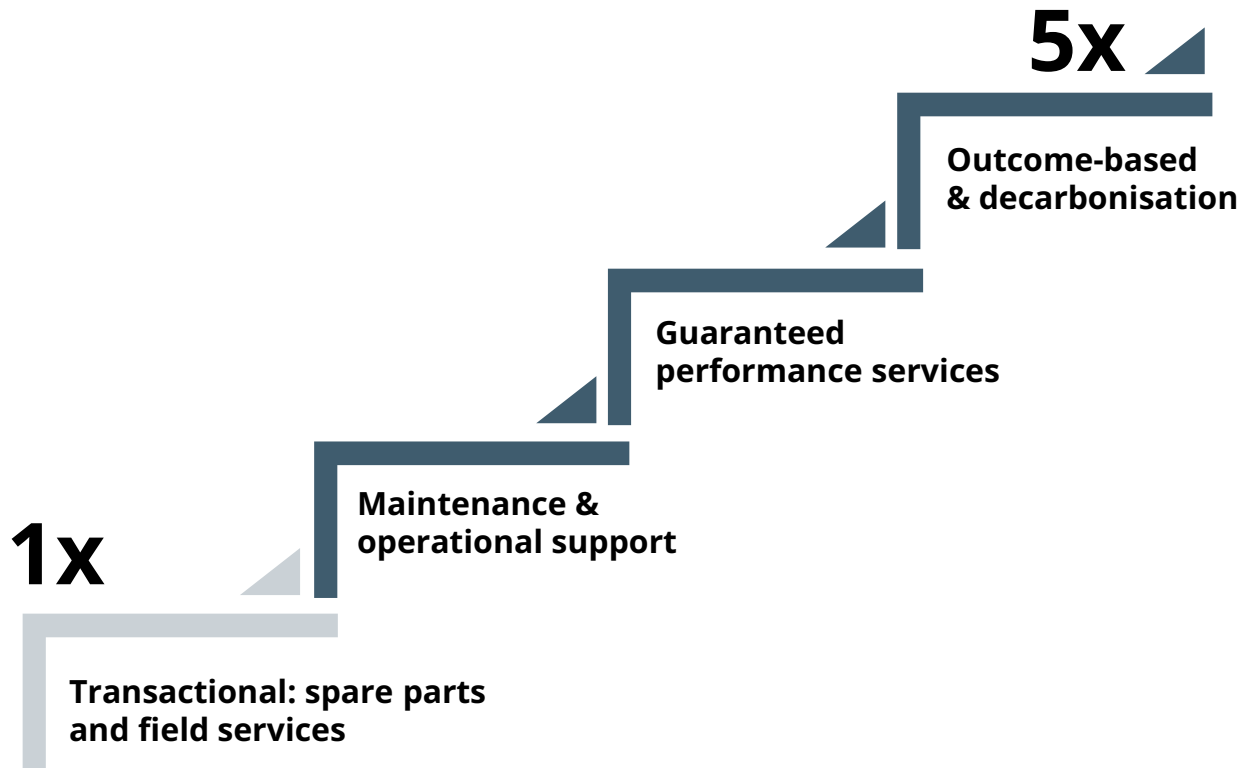
Energy services – growth drivers

- Growing installed base over time
- Stable total operating hours
- Increasing agreement coverage
- Upgrades & fuel conversion demand
- Future growth potential in decarbonisation services and outcome-based agreements

We increase sales, profitability and customer satisfaction by moving up the service value ladder

Wärtsilä service value ladder

Sales EUR/kW relative to transactional



Continuous growth in agreement coverage

- Securing service agreements for **new power plants**
- Maintaining **high renewal rate** for existing agreements: >90% renewal rate shows high customer satisfaction
- Increasing the **share of agreement customers** in our installed base: 29% agreement coverage and ~18GW under agreement¹⁾, 3,4GW added since 2021

Moving customers up the service value ladder

- Local presence, global operations, and investments in data & digital solutions enable us to meet high customer expectations
- Higher satisfaction scores for agreement customers that are higher up the value ladder
- Portfolio of **agreements with performance guarantees** is growing: Total 7GW with ~2GW added since 2021

1) Includes agreements covering both installed assets and assets to be installed in the future

Future performance will be driven by strong sales growth and service volumes, continuous improvement, and a future-proof solution portfolio

Recent actions:

- ✓ **New organisational structure and processes:** Updated sales-to-order processes and Business Units with P&L responsibility
- ✓ **Rebalance in risk appetite:** EEQ as the preferred offering, EPC only considered in selected markets
- ✓ **Stronger risk / reward profile:** Legacy projects have been concluded

New build margins

- ✓ New organisation & governance
- ✓ Stronger risk management
- ✓ Operational leverage from growth

Continuous improvement

- ✓ Lean operations and flow efficiency
- ✓ Predictive and autonomous operations
- ✓ Cost indexation & active pricing

New build sales

- ✓ Strong thermal balancing growth
- ✓ Strong energy storage growth
- ✓ Future-proofed portfolio for sustainable fuels and optimisation

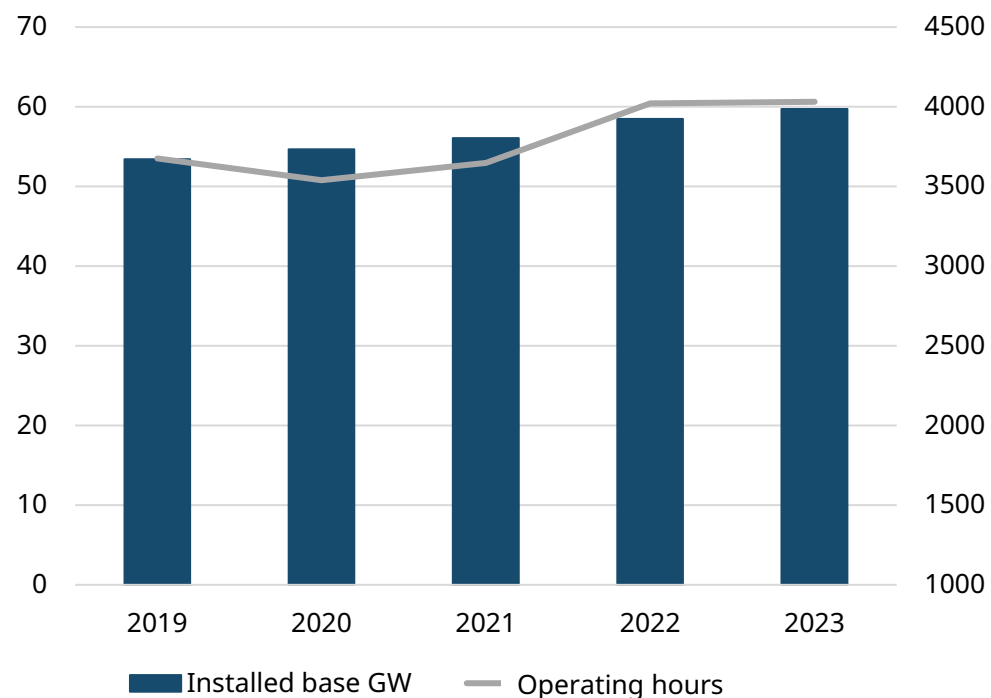
Service sales

- ✓ Growing installed base
- ✓ Increasing agreement coverage
- ✓ Climbing the service value ladder

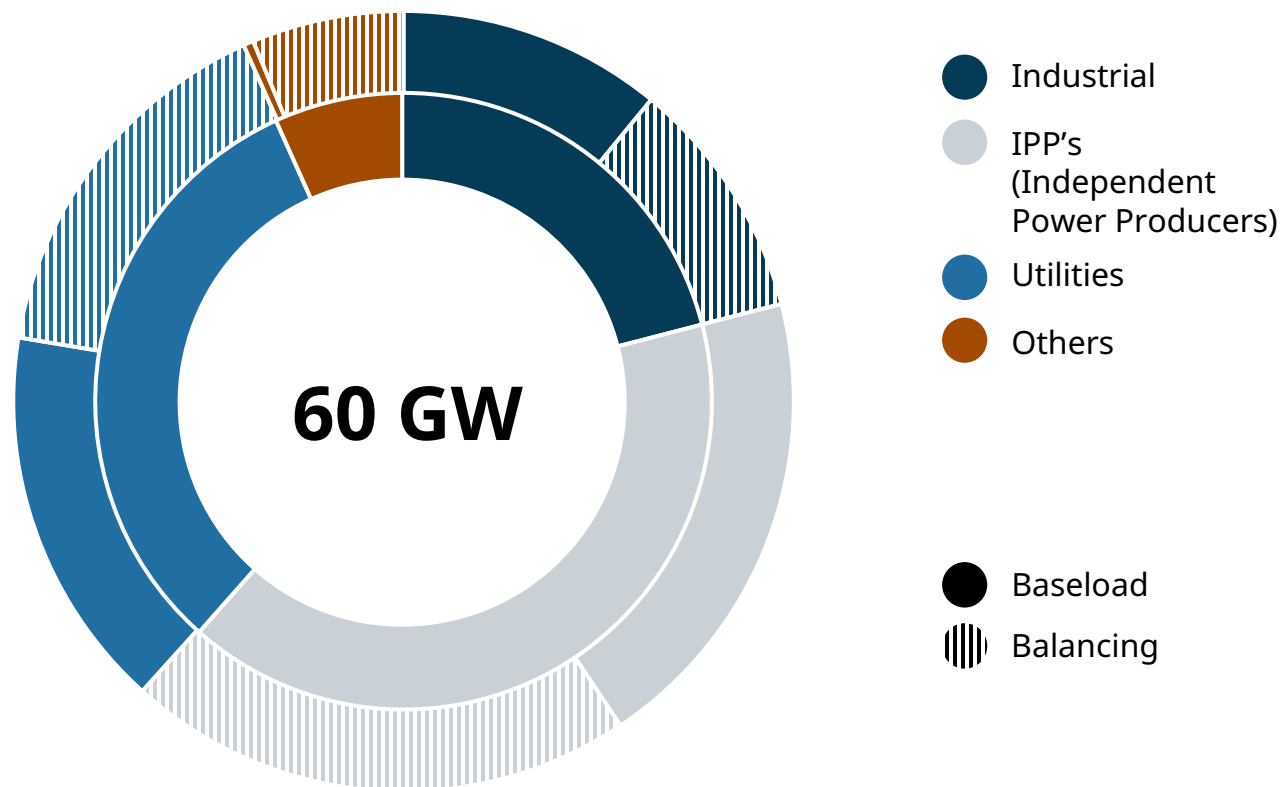
← Profitability →

← Growth →

Operating installed base is growing and operating hours are anticipated to remain stable driven by growth in certain customer segments



Current running profile of installed base¹⁾



Inner circle: division by customer segments
 Outer circle: division by baseload and balancing power within each customer segment

1) Data from Wärtsilä CMD in November 2023

Advantages of Wärtsilä power plants over combined cycle gas turbines

Faster startup time

- Combined cycle gas turbines can take over 30 minutes to start, whereas combustion engine power plants can start and reach full load in less than 5 minutes

Advantages of modularity

- Combustion engine power plants are comprised of multiple generating units

Better part-load efficiency and flexibility

- Unlike gas turbines, Wärtsilä engine power plants have near full range capability of emissions-compliant turndown

Better pulse-load efficiency and profitability

- Combustion engine power plants are dispatchable and can adjust load daily, ramping up and down with demand

Higher ramp rate

- Ramp rate = the rate at which a power plant can increase or decrease output
- Wärtsilä engines can ramp at over 100%/minute. For combined cycle gas turbines, typical ramp rates are around 10%/minute.

Derating due to ambient temperature

- Combustion engines are less sensible to temperature and humidity

Fuel flexibility

- Gas turbines have reduced availability and output when running on fuel oils

Lower water consumption

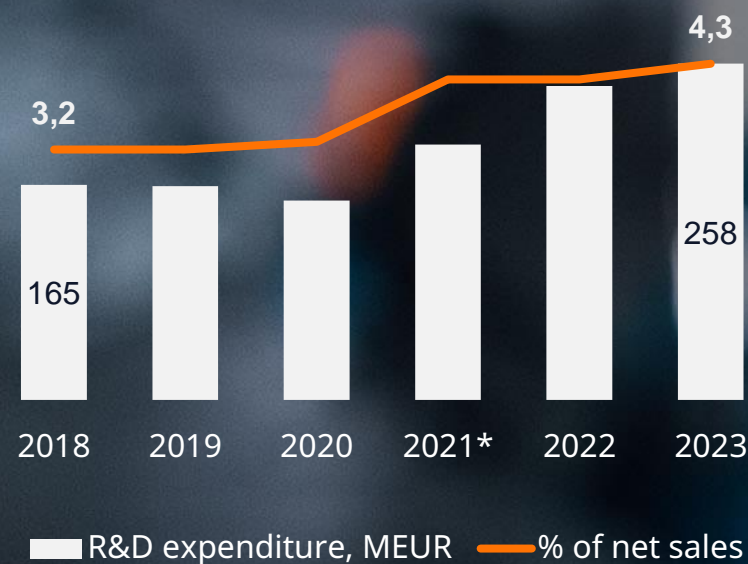
- A combined cycle gas turbine power plant (CCGT) with a recirculating system = 780 liters/MWh.
- Wärtsilä combustion engine power plant operating in simple cycle on natural gas = 3 liters/MWh.

R&D



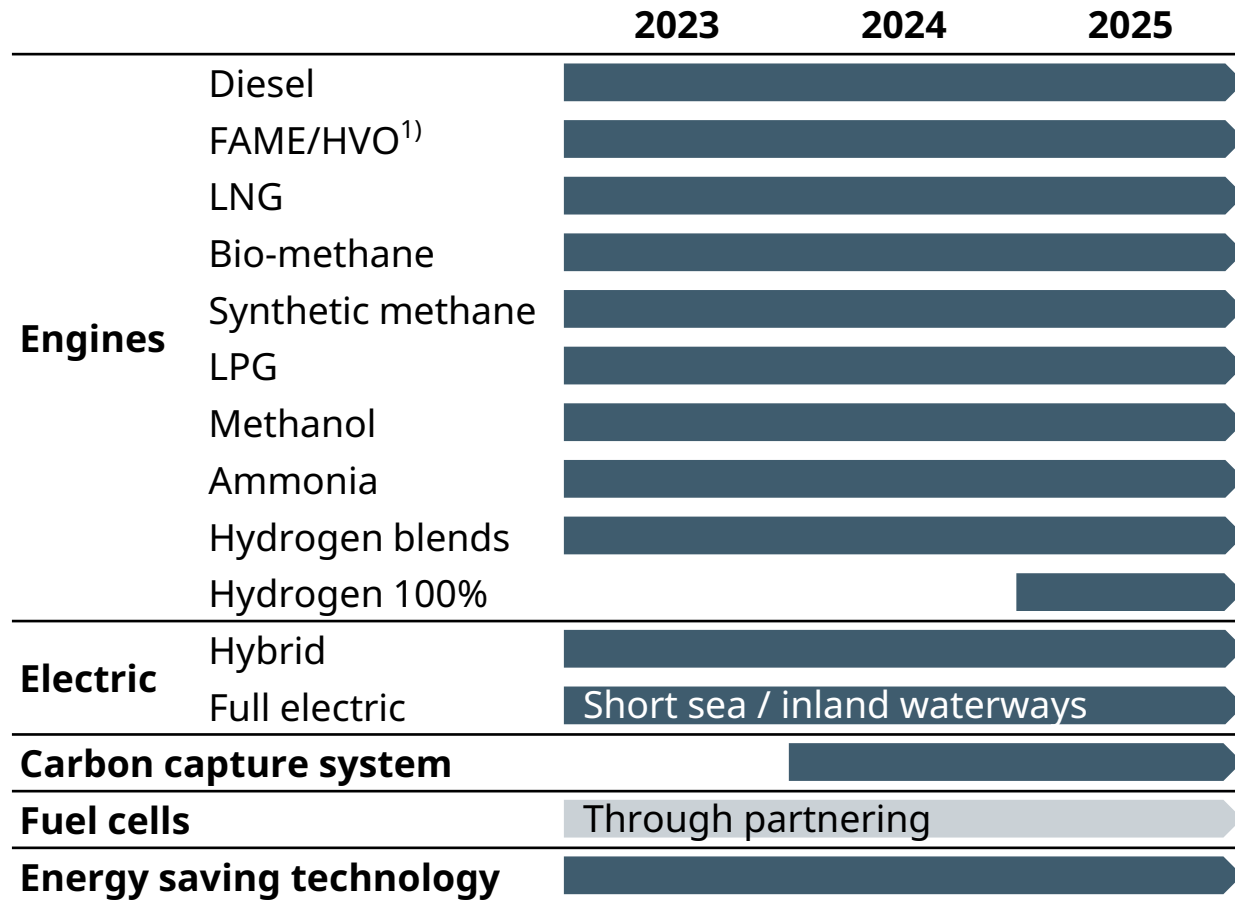
AMMONIA
 NH_3
 WÄRTSILÄ

We continue investing in innovation to ensure a broad, industry-leading solution offering



* Figure in the comparison period 2021 has been restated to reflect a change in the definition of research and development expenditure.

Industry's most comprehensive offering for decarbonisation



- ✓ Industry's fastest and broadest future fuel roadmap
 - ✓ Market leaders in 4-stroke medium-speed main engines
 - ✓ Market leaders in hybrids with 26% market share²⁾
 - ✓ Pioneer with the world's first full scale carbon capture plant in 2024 and full commercial release in 2025

- ✓ Methanol engine types available today³⁾, ammonia engine was launched in Q4 2023, full hydrogen technology available in 2025
 - ✓ In 2022 Wärtsilä & US partner WEC succeeded with world's first-of-a-kind engine power plant fuel tests using 25% hydrogen blend

1) Biodiesels: FAME – Fatty Acid Methyl Esters, HVO – Hydrogenated Vegetable Oil; 2) Battery MWh on 2000+ GT hybrid vessels; 3) Newbuild and retrofits

Q1 2024 development



26 April 2024

Double-digit comparable operating margin and continued strong order intake

- Order intake increased by 11%
 - Supported by good development in Marine order intake (+23%)
- Order book all-time high (7,294 MEUR)
- Comparable operating result increased by 50%
 - Double-digit comparable operating margin
- Good progress in services continued:
 - Service order intake increased by 7%
 - Service net sales increased by 13%
- Strong cash flow from operating activities (258 MEUR)
- Wärtsilä becoming more focused and profitable.
Consolidating to two reporting segments: Marine and Energy.



Good development in key figures

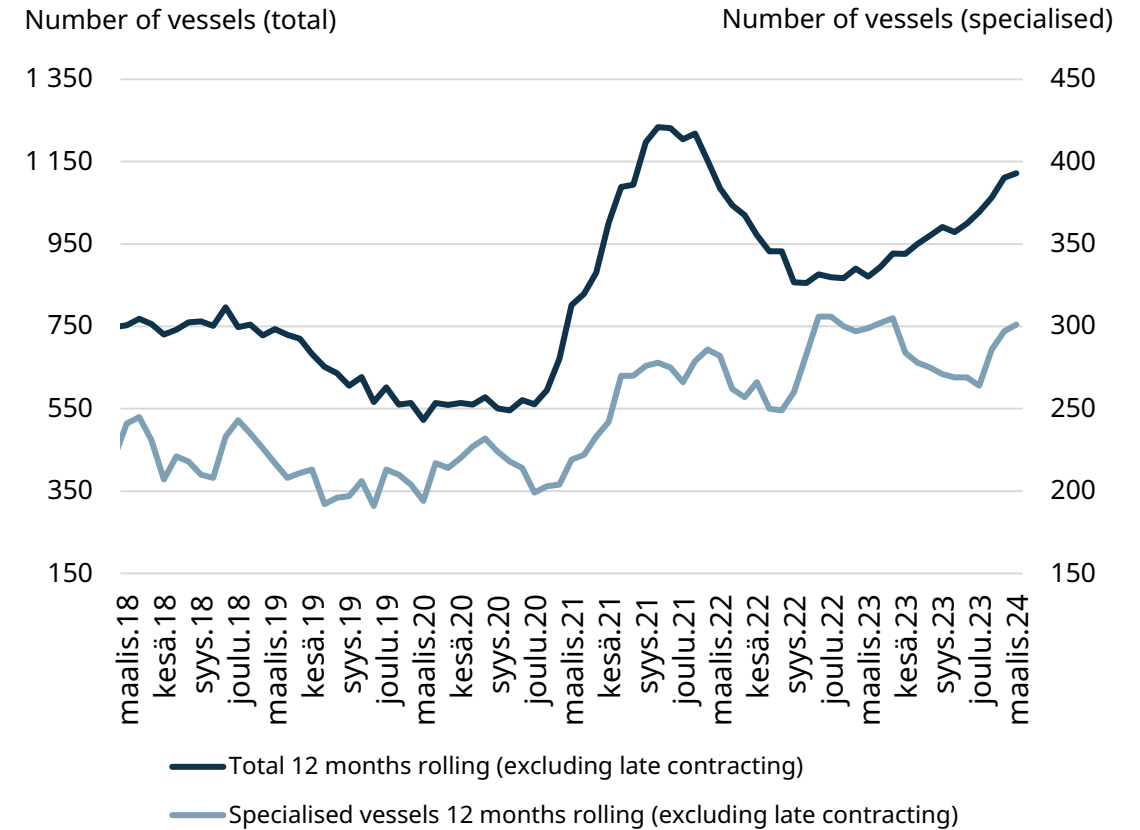
MEUR	1-3/2024	1-3/2023	CHANGE
Order intake	1,924	1,739	11%
of which services	949	889	7%
of which equipment	975	850	15%
Order book	7,294	6,153	19%
of which current year deliveries	3,864	3,325	
Net sales	1,321	1,465	-10%
of which services	833	736	13%
of which equipment	489	729	-33%
Book-to-bill	1.46	1.19	
Operating result	127	92	38%
% of net sales	9.6	6.3	
Comparable operating result	132	88	50%
% of net sales	10.0	6.0	

Marine: market sentiment turns more positive for Wärtsilä's key segments

In the first quarter, appetite for new ships increased

- The number of vessels ordered in the review period increased to 411 (255 in the corresponding period in 2023, excluding late reporting of contracts).
- The uptake of alternative fuels remained on a healthy level with 118 orders reported in Q1/2024, accounting for 29% (29%) of all contracted vessels and 45% (45%) of vessel capacity.
- From January 1st, shipping included in the EU emissions trading system adding costs to shipping companies operating in the region or calling EU ports based on their CO2 or CO2-equivalent emissions and incentivises fleet modernisation either through fleet renewal or retrofits.
- Cruise market sentiment increasingly positive due to strong demand for cruises, with the first newbuild orders for large cruise ships announced after four years of low rates.
- Clarksons Research forecasting 1,879 vessels to be ordered in 2024, an increase of ~7% or 130 ships from previous forecast (September 2023).

Total and specialised vessel contracting



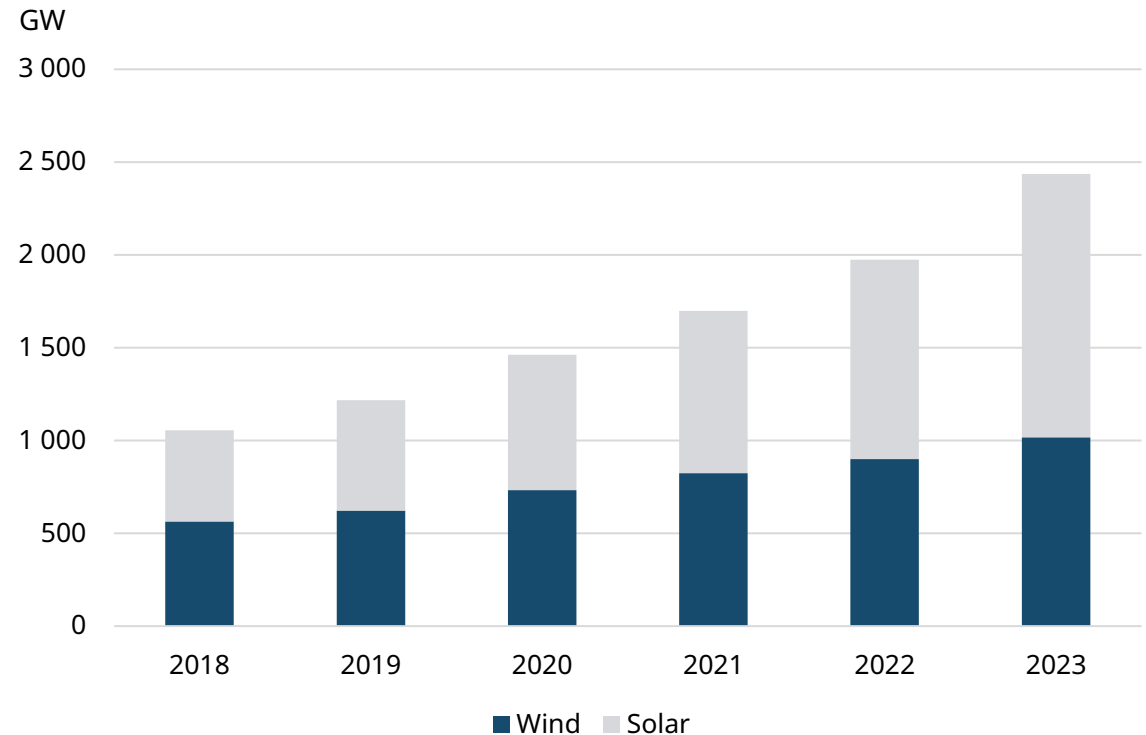
Source: Clarksons Research, 12m rolling contracting as per 4th of April 2024 (+100 gt, excluding late reporting of contracts)
 Specialised vessels include LNG carriers, LPG carriers, cruise & ferry, offshore, and special vessels.

Energy: solid mid to long-term market opportunities

In the first quarter, uncertain market environment continued despite some relief

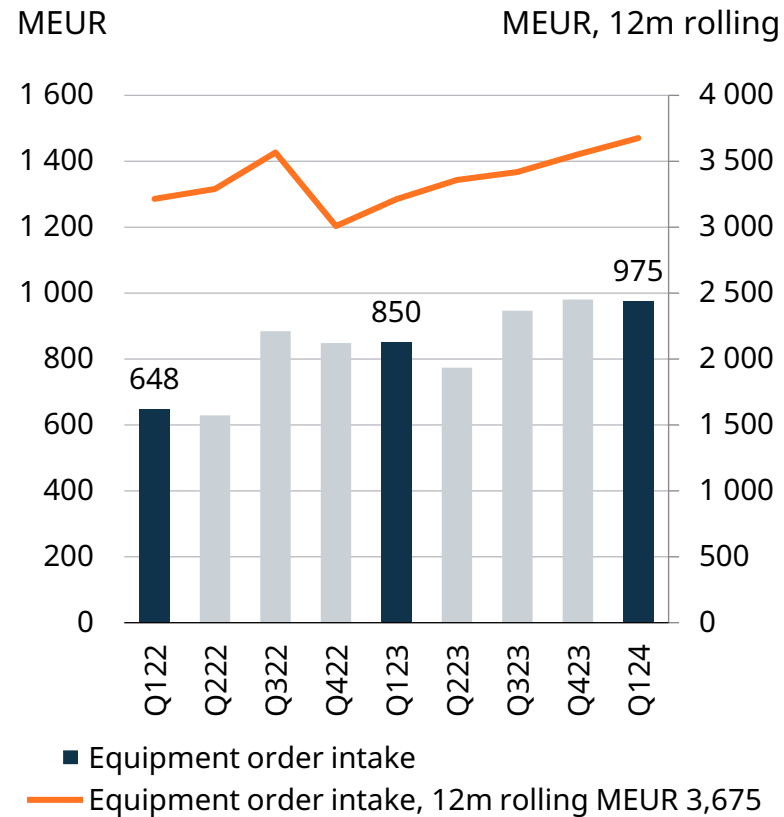
- The increasing share of renewables is the primary driver behind Wärtsilä's balancing and energy storage solutions' demand.
- Global natural gas prices continued to decline towards pre-2021 levels, rendered possibly by increased renewables generation, a warm winter season and muted demand growth.
- Commodity pricing have stabilised, although uncertain geopolitical environment presents price and availability risks.
- The energy transition continues to advance, as shown by another record year of investments in the deployment of clean technologies in 2023.

Development on installed wind and solar capacity

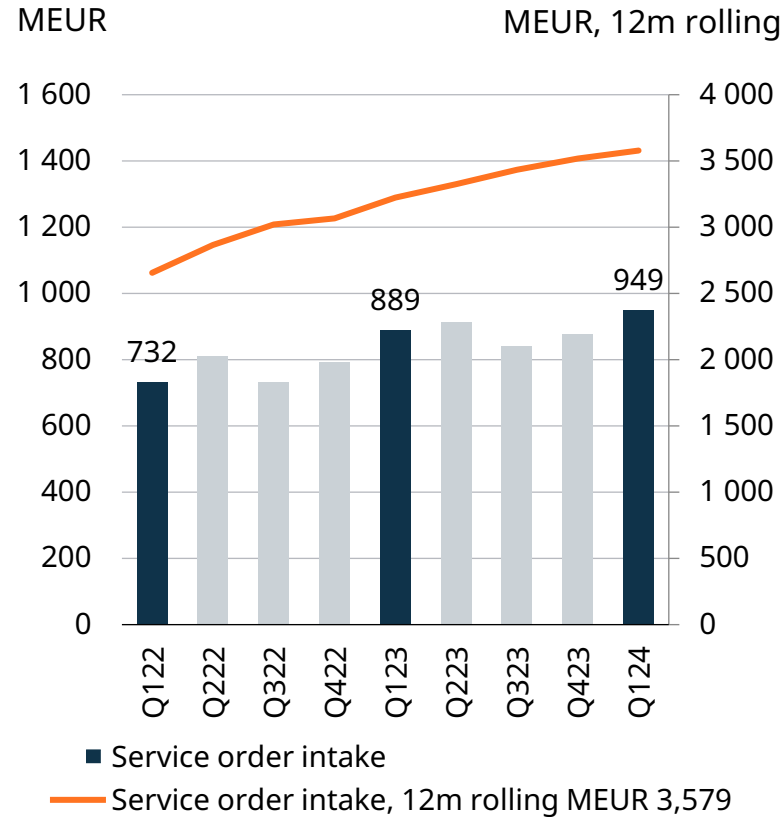


Organic order intake increased by 17%

Equipment



Services



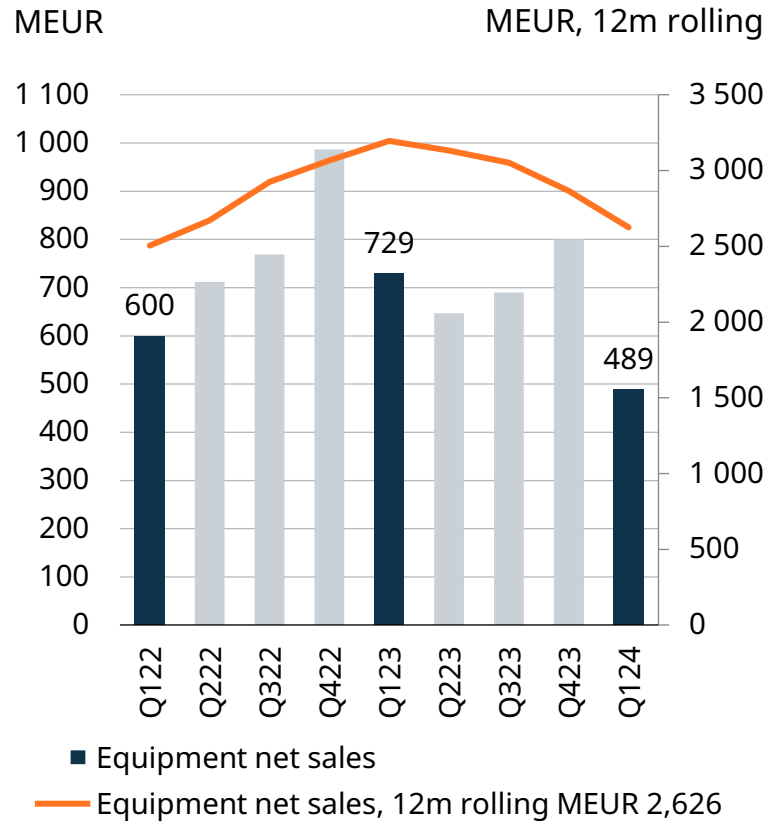
Order intake growth
11%

Equipment order
intake increased by
15%

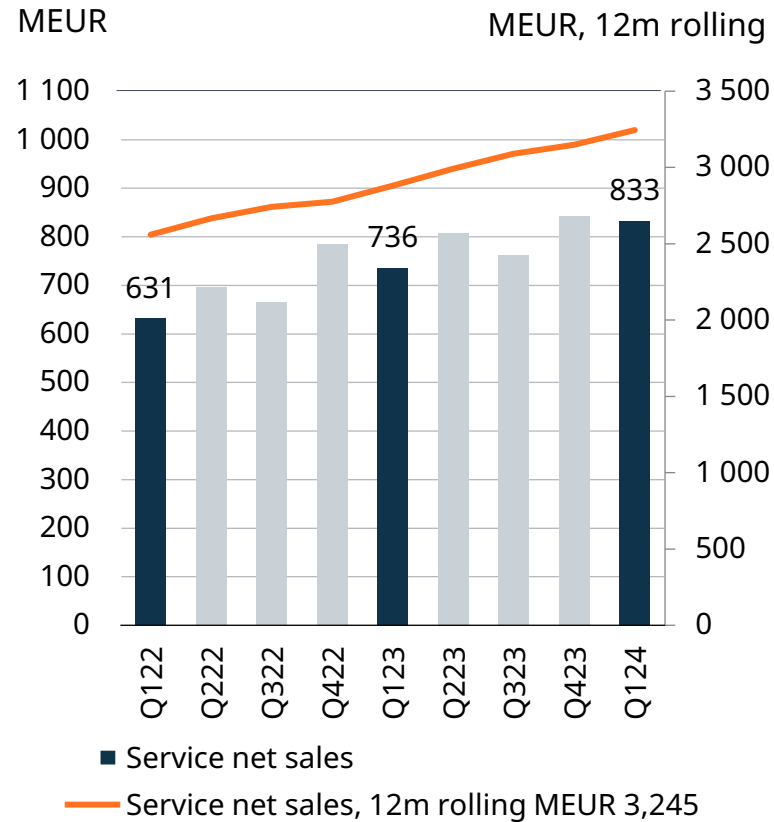
Service order intake
increased by 7%

Organic net sales decreased by 6%

Equipment



Services



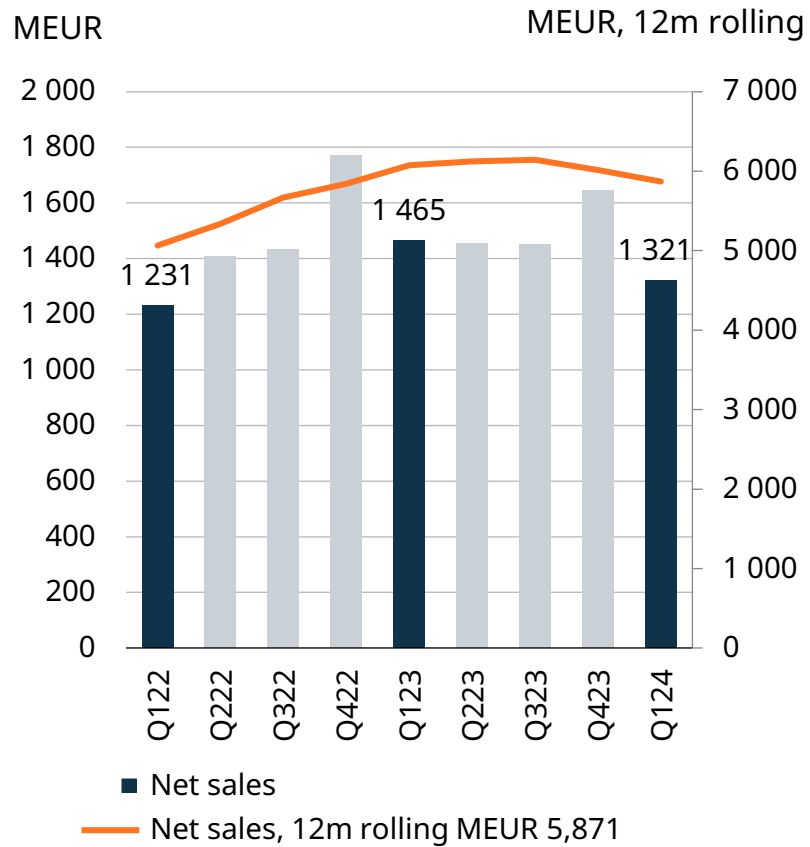
Net sales decreased by 10%

Equipment net sales decreased by 33%

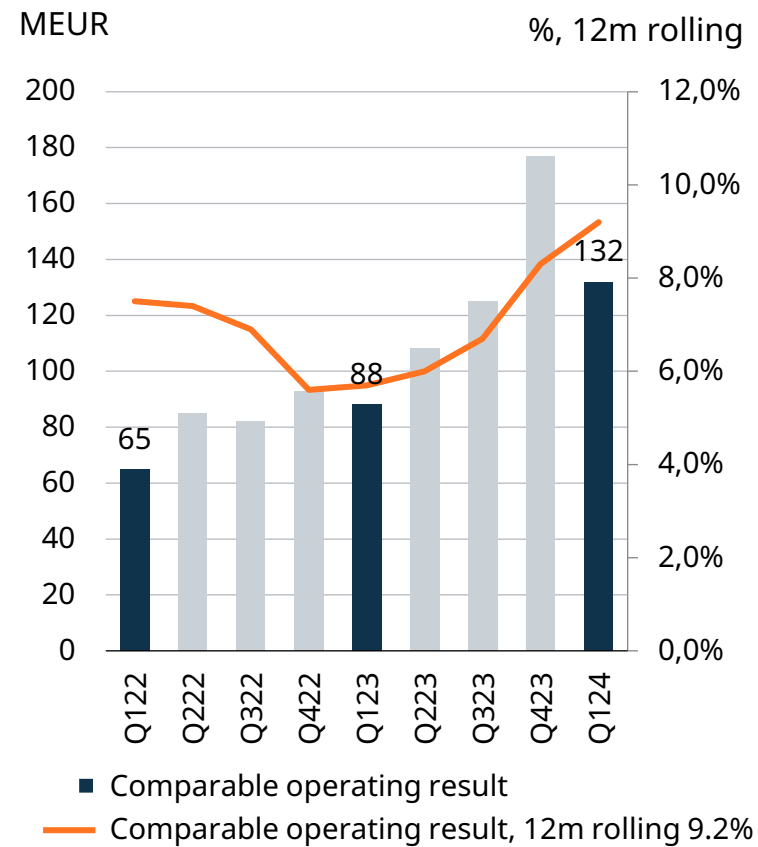
Service net sales increased by 13%

Profitability continued to improve

Net sales



Comparable operating result



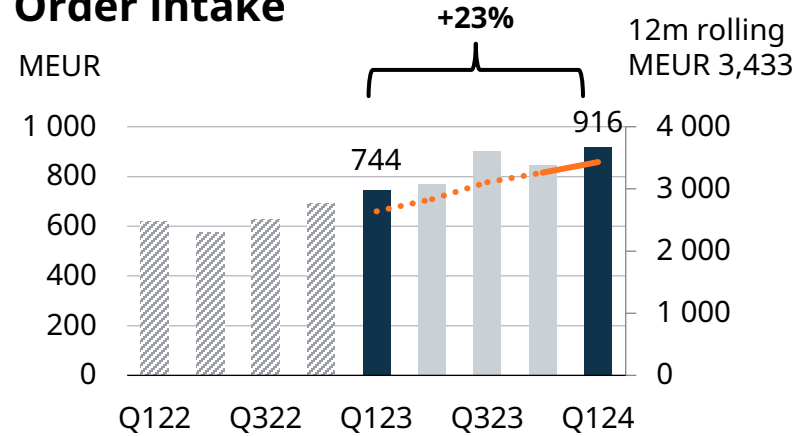
Net sales decreased by 10%

Comparable operating result increased by 50%

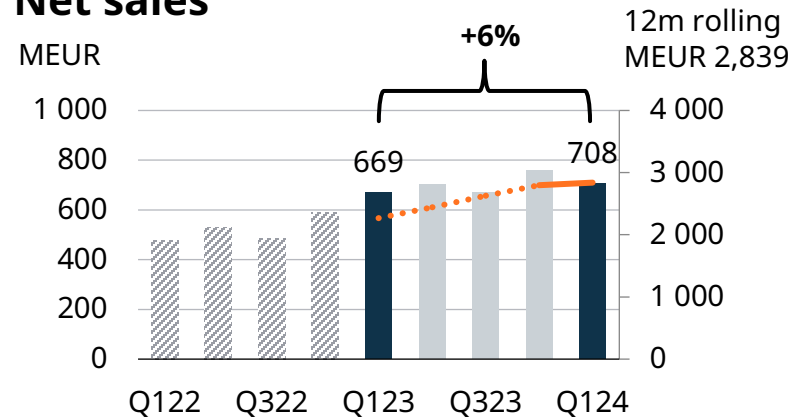
Marine: Good performance continued

Order intake, net sales and comparable operating result increased

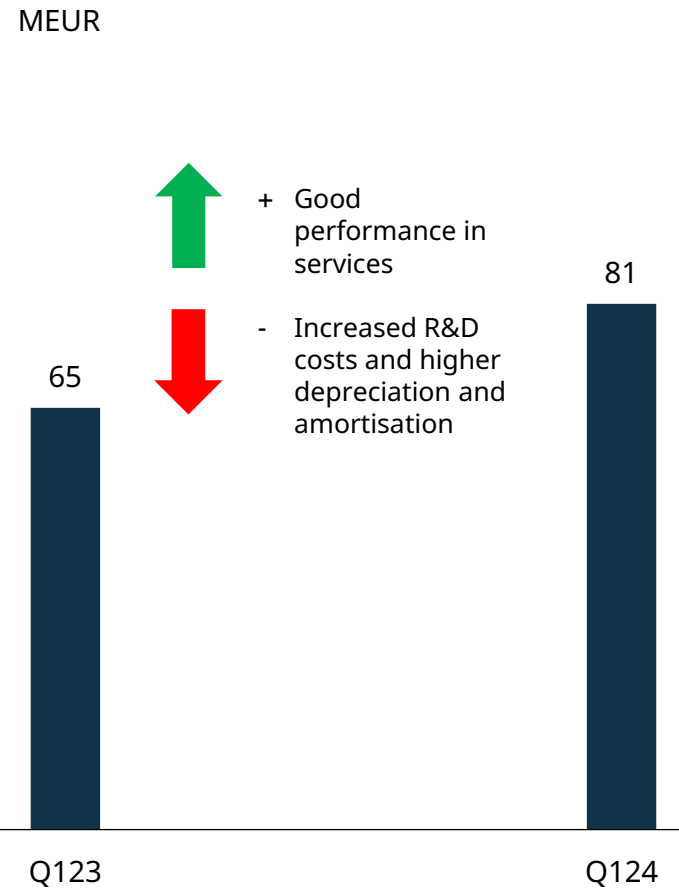
Order intake



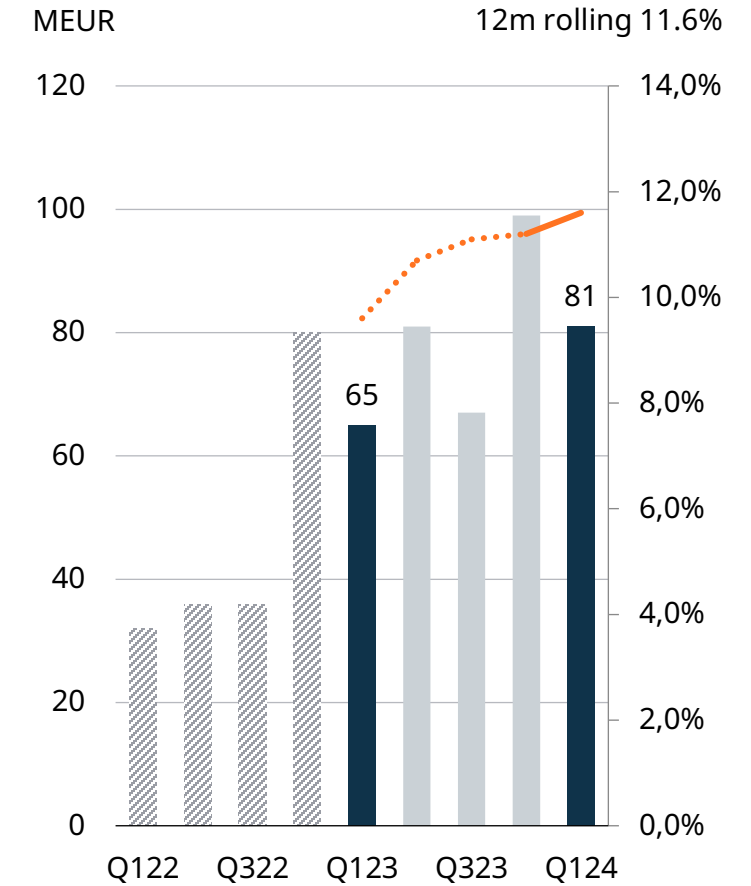
Net sales



Comparable operating result



Comparable operating result

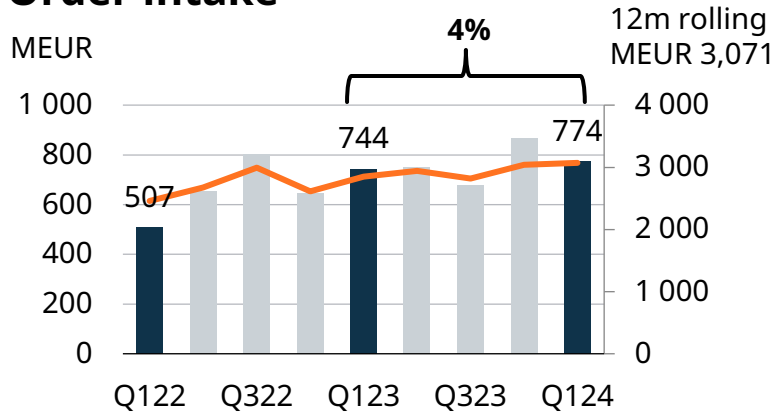


Financial figures for 2023 have been restated to reflect the redefined organisational structure after the discontinuation of Marine Systems as a reporting segment as of 1 January 2024. Exhaust Treatment and Shaft Line Solutions business units were moved from Marine Systems to Marine Power and consequently, Marine Power changed its name to Wärtsilä Marine. Financial figures for 2022 have been restated to reflect the redefined organisational change considering the integration of Voyage into Marine Power and moving part of the Voyage business to the Portfolio Business. As financial figures prior to 2023 have not been restated to account for the current organisational structure, the non-comparable figures are marked with dashed columns and a dashed line.

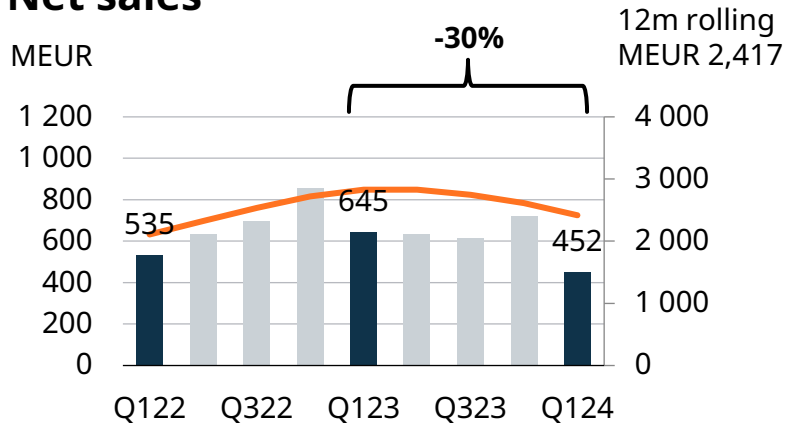
Energy: Comparable operating result increased

Equipment net sales decreased due to the periodisation of deliveries between quarters

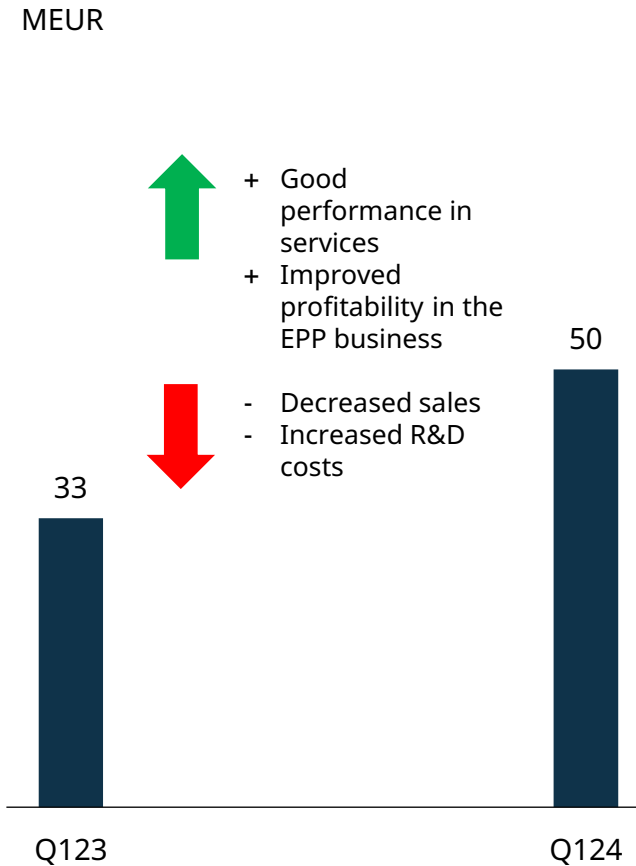
Order intake



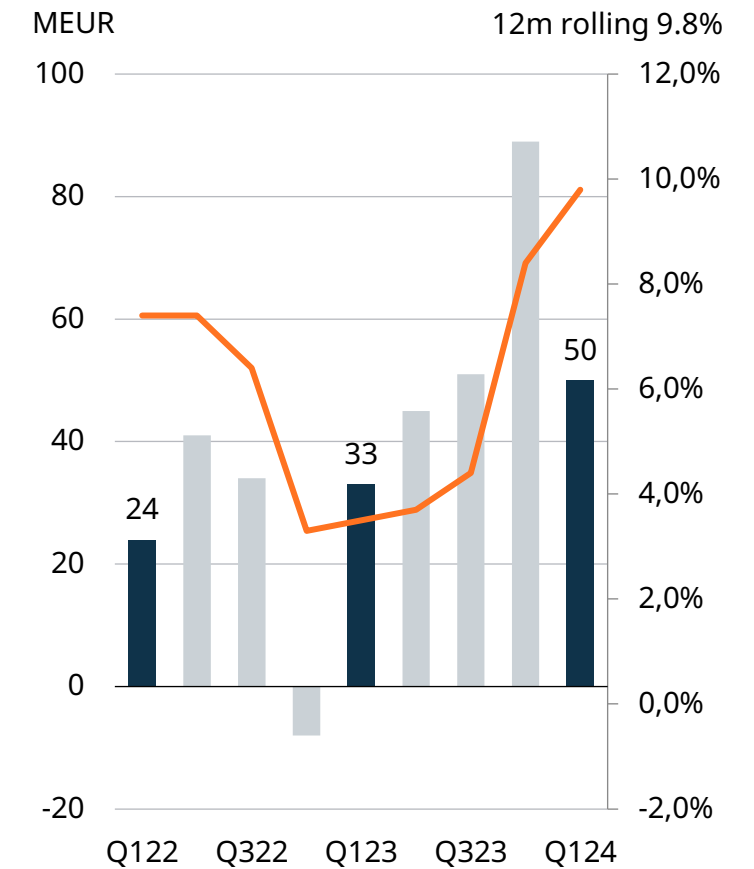
Net sales



Comparable operating result



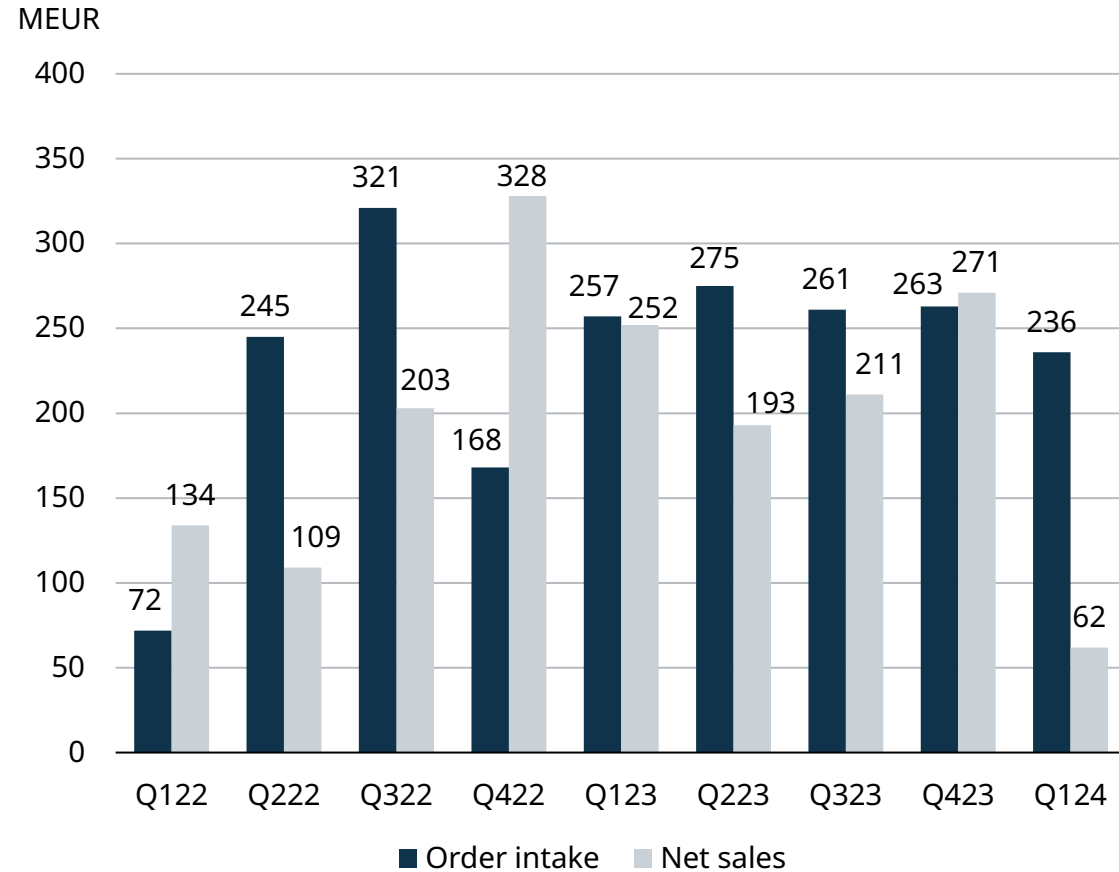
Comparable operating result



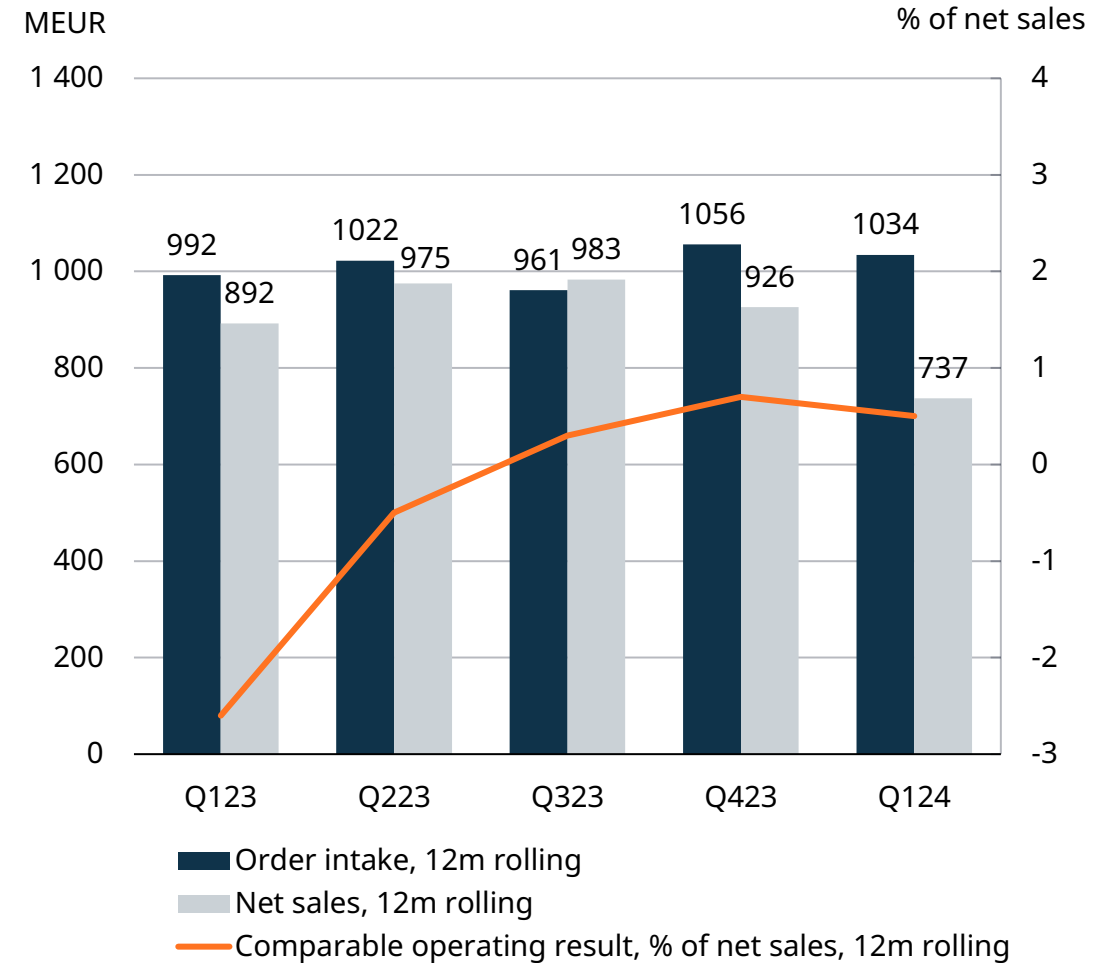
Energy Storage & Optimization: Comparable operating result margin (12m rolling) positive

Low net sales due to the periodisation of project deliveries

Quarterly development



Rolling 12 months development

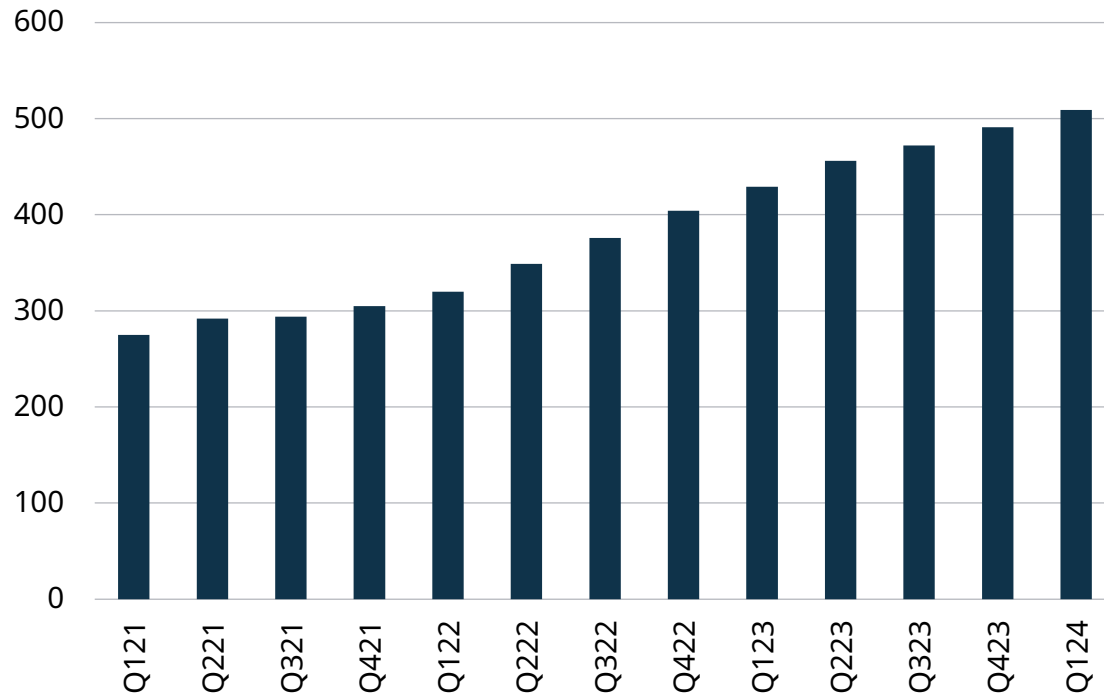


Good development in Marine service agreements

Marine net sales to agreement installations increased

Net sales to agreement installations (12 month rolling)¹⁾

MEUR, 12m rolling



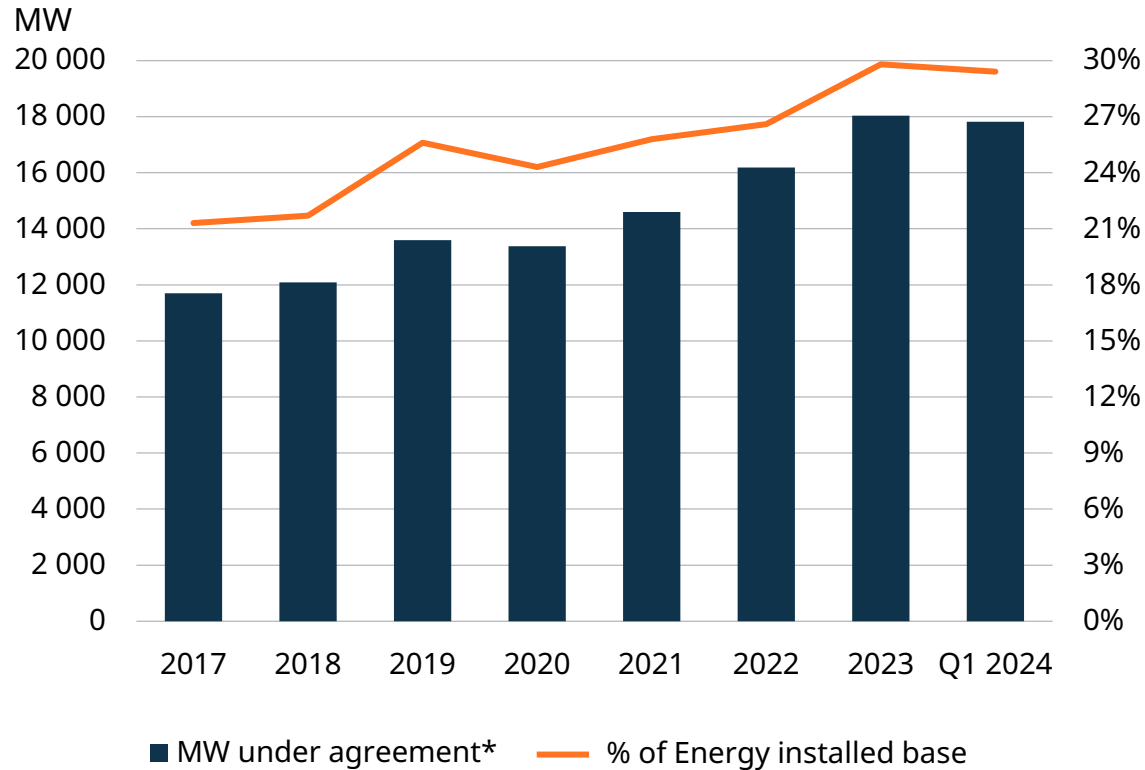
Wärtsilä Lifecycle Agreement to support optimised low-emission operations for two P&O Ferries vessels

- Wärtsilä has signed a Lifecycle Agreement with UK-based P&O Ferries.
- The 5-year agreement covers two vessels, the M/V Pioneer and the M/V Liberté designed to optimise and ensure minimal impact on operations.
- The scope of the agreement includes parts and maintenance services, maintenance planning, operational support and Wärtsilä's Expert Insight predictive maintenance service.
- The order was booked in Q1 2024.

1) The figures include Marine scope related to 4-stroke, 2-stroke, and propulsion

Energy service agreements at a good level

MW under agreement globally



Good agreement coverage

- 29% of installed base under agreement
- Reduction in MWs under agreement in Q1 2024 affected by periodisation of agreement renewal negotiations
- Maintaining high renewal rate for existing agreements: >90% renewal rate shows high customer satisfaction

* Includes agreements covering both installed assets and assets to be installed in the future



Prospects

Marine

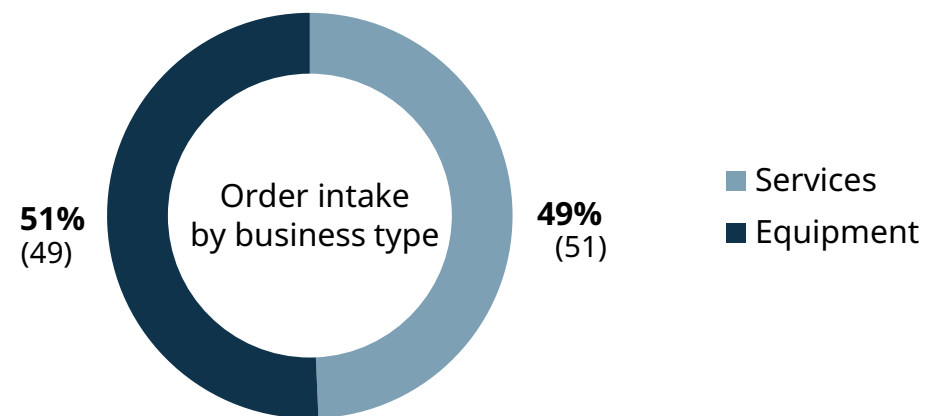
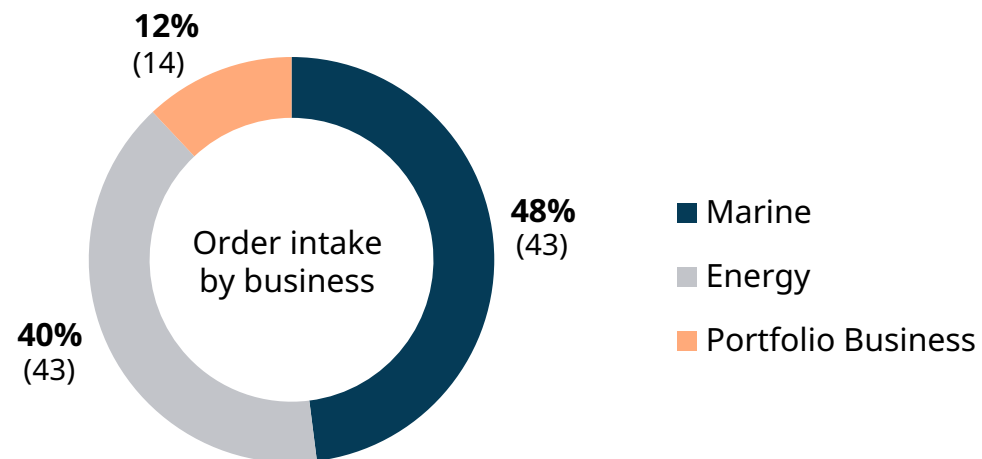
- Wärtsilä expects the demand environment for the next 12 months (Q2/2024-Q1/2025) to be better than that of the comparison period.

Energy

- Wärtsilä expects the demand environment for the next 12 months (Q2/2024-Q1/2025) to be better than that of the comparison period.

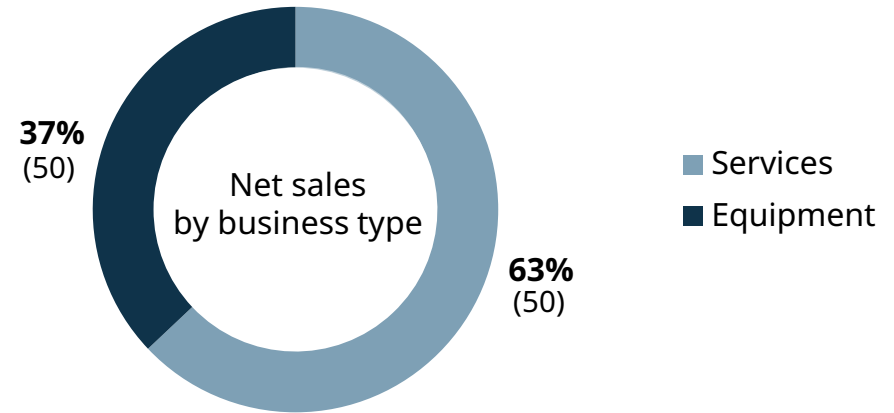
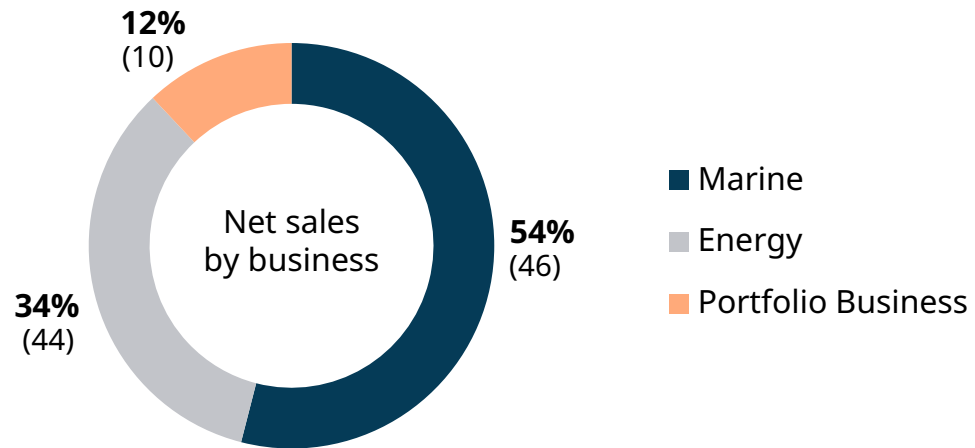
Order intake

First quarter development



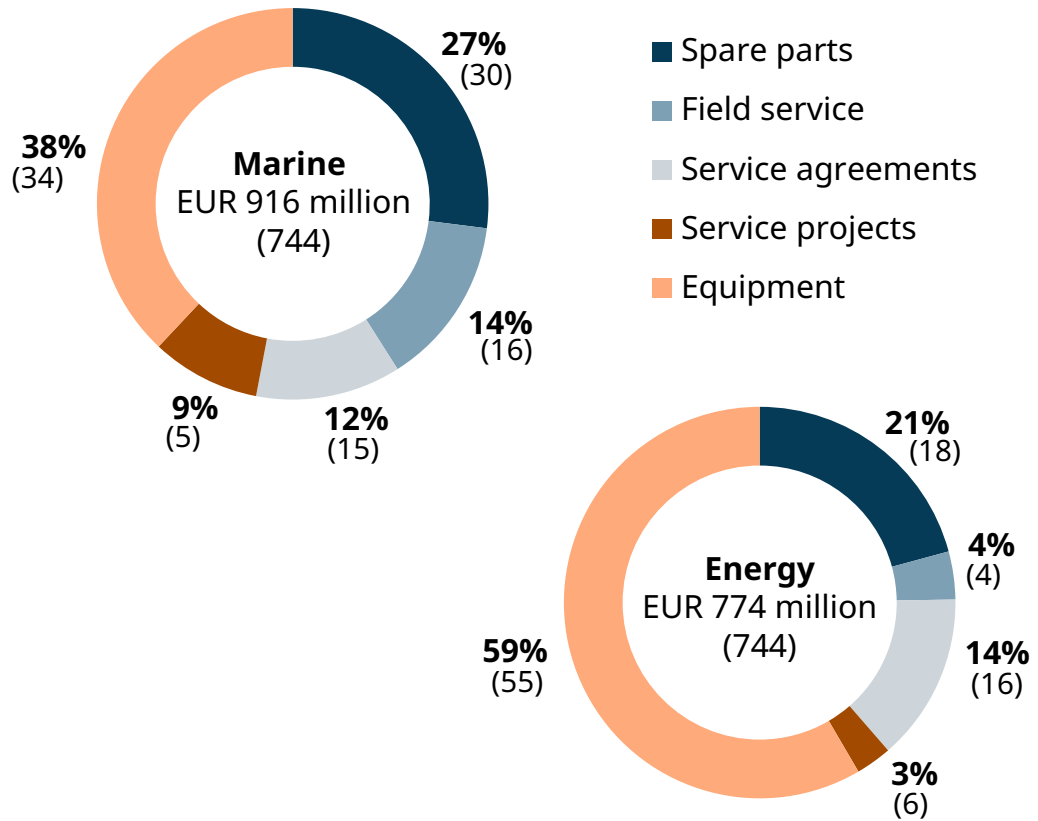
Net sales

First quarter development

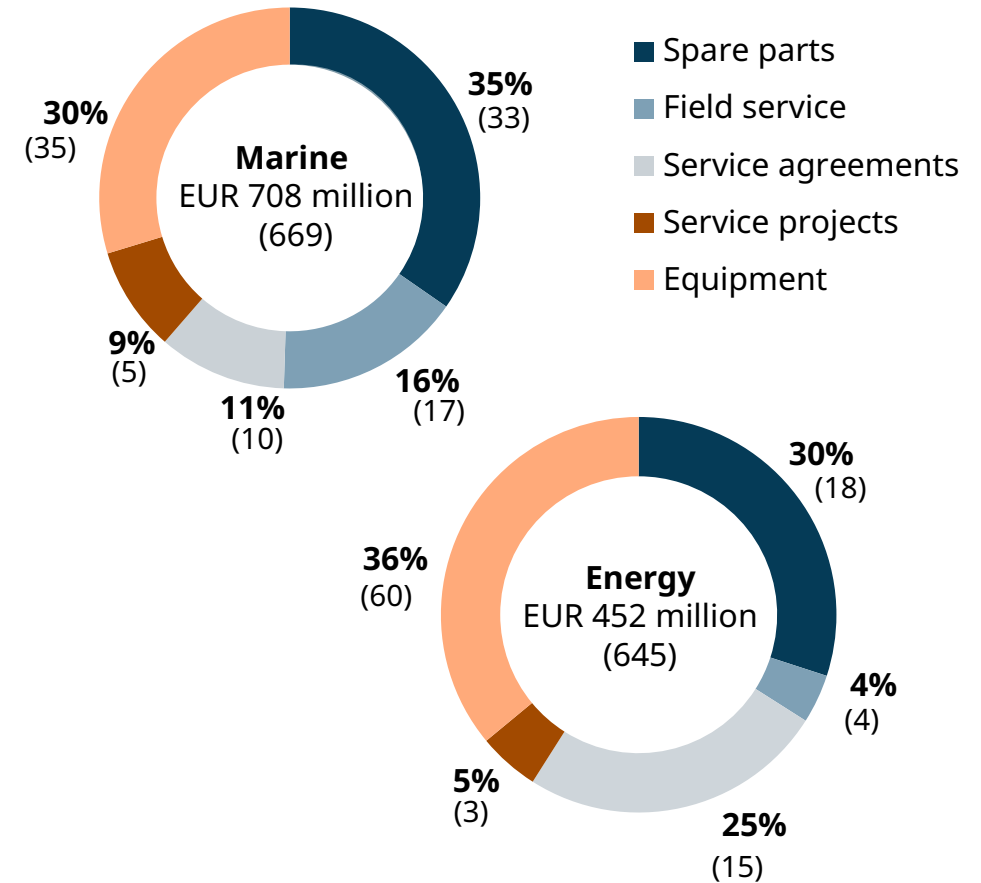


First quarter development by business type

Order intake



Net sales

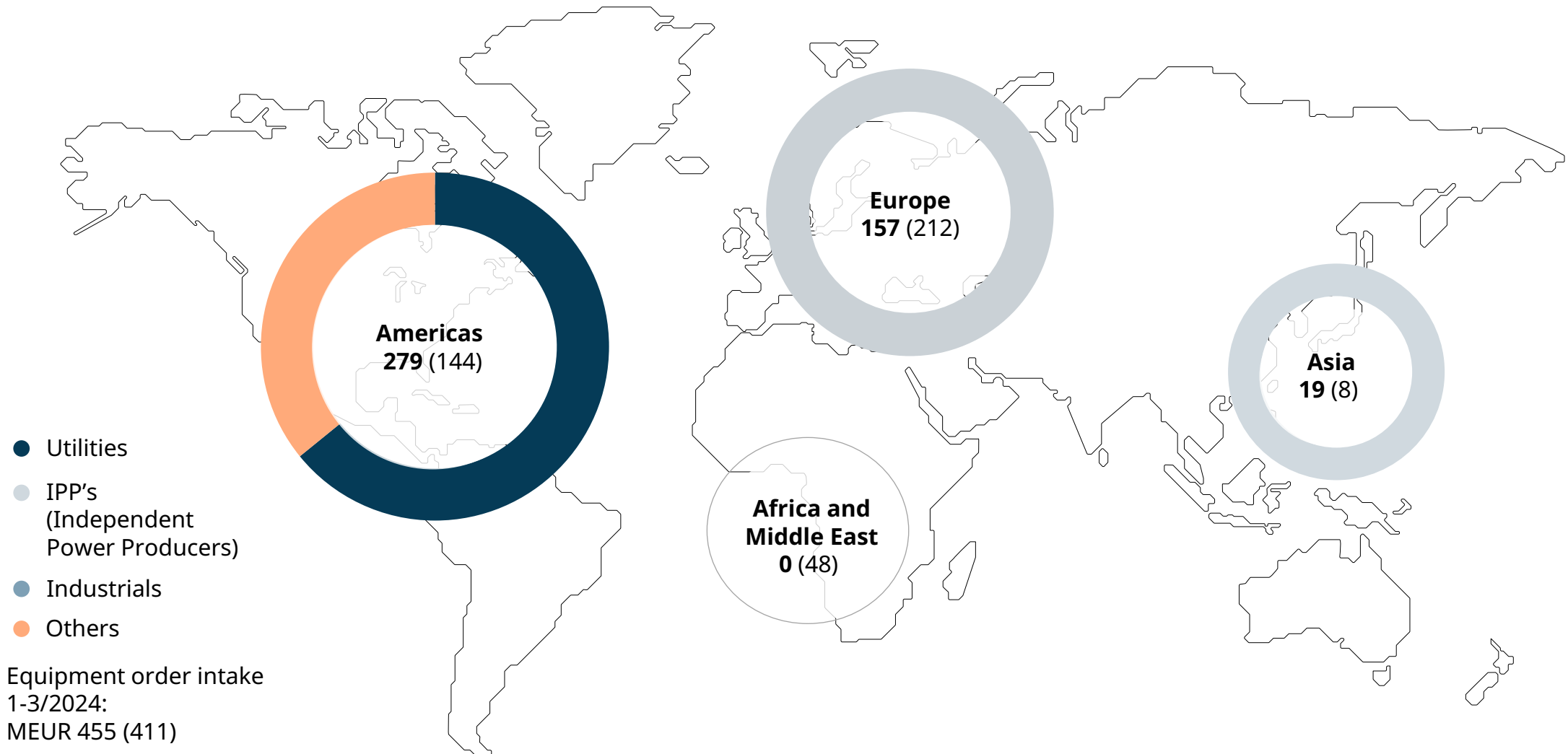


January–March order intake by customer segment

Marine	Gas carriers	Cruise & ferry	Offshore	Navy	Special vessels	Merchant	Other
Equipment	4% (12)	17% (26)	1% (2)	5% (18)	23% (4)	40% (35)	10% (3)
Services	15% (19)	23% (19)	14% (17)	10% (8)	12% (11)	24% (25)	1% (2)
Total	11% (17)	21% (21)	9% (12)	8% (11)	16% (8)	30% (29)	4% (2)

Energy	Utilities	Independent Power Producers	Industrials	Other
Equipment	39% (55)	39% (44)	0% (1)	22% (0)
Services	28% (39)	26% (30)	27% (18)	19% (3)
Total	35% (48)	33% (37)	11% (9)	21% (6)

Orders received for Energy equipment globally



Sustainability



We are delivering towards our sustainability targets

On track for our 2030 decarbonisation targets

- ✓ To become **carbon neutral in own operations**
- ✓ To provide a **product portfolio ready for zero carbon fuels**

Improving safety, wellbeing and employee engagement

- ✓ **Positive trend in safety indicators**
- ✓ **Wellbeing behaviours & toolkit launched** to support teams
- ✓ **Improving trend in employee engagement**

Strengthening thought leadership and being a responsible company

- ✓ Developing **industry ecosystems** and **co-operation with academia**
- ✓ Continued focus on **ethical compliance**
- ✓ Listed by TIME magazine as **TIME100 most influential companies in 2023**

Strong presence in sustainable development indices

Member of
**Dow Jones
Sustainability Indices**

Powered by the S&P Global CSA

Sustainability Yearbook
Member 2021

S&P Global

S&P Europe 350 ESG Index



RATED BY
ISS ESG

STOXX

Member 2020/2021
**ESG Leaders
Indices**



FTSE4Good










Decarbonising our own operations requires a wide range of actions

"SET FOR 30"

OUR MAIN DECARBONISATION INITIATIVES

2021

2030

-  Energy efficiency measures +/-€
-  Low emission company vehicles +/-€
-  Heat pumps in heating +/-€€
-  R&D and factory engine testings - reduced time +/-€
-  Self-generation and green electricity +++/€€
-  Simulations and other technologies +/-€
-  Replacing fossil fuels with alternative fuels +++/€€€



+ GHG reduction potential € Cost to reduce

Wärtsilä "Set for 30" is progressing well

Variety of concrete actions have been taken – some examples



Green electricity purchasing fully in use in Finland



Solar panel investment in Bermeo Spain



Environmental standards for selecting new facilities in use



Electric Vehicle policy defined and being rolled out



Heat pumps installed in server room in Norway



Intelligent energy meters installed in Norway - leakages detected



Electric Forklift policy defined and being rolled out



Variety of actions identified to reduce engine testing time

Set for 30

Wärtsilä's ESG Agenda in brief

E

Ambitious decarbonisation targets for 2030

- Portfolio ready for zero carbon fuels
- Carbon neutrality in own operations

S

Good Corporate Citizen and Responsible Employer

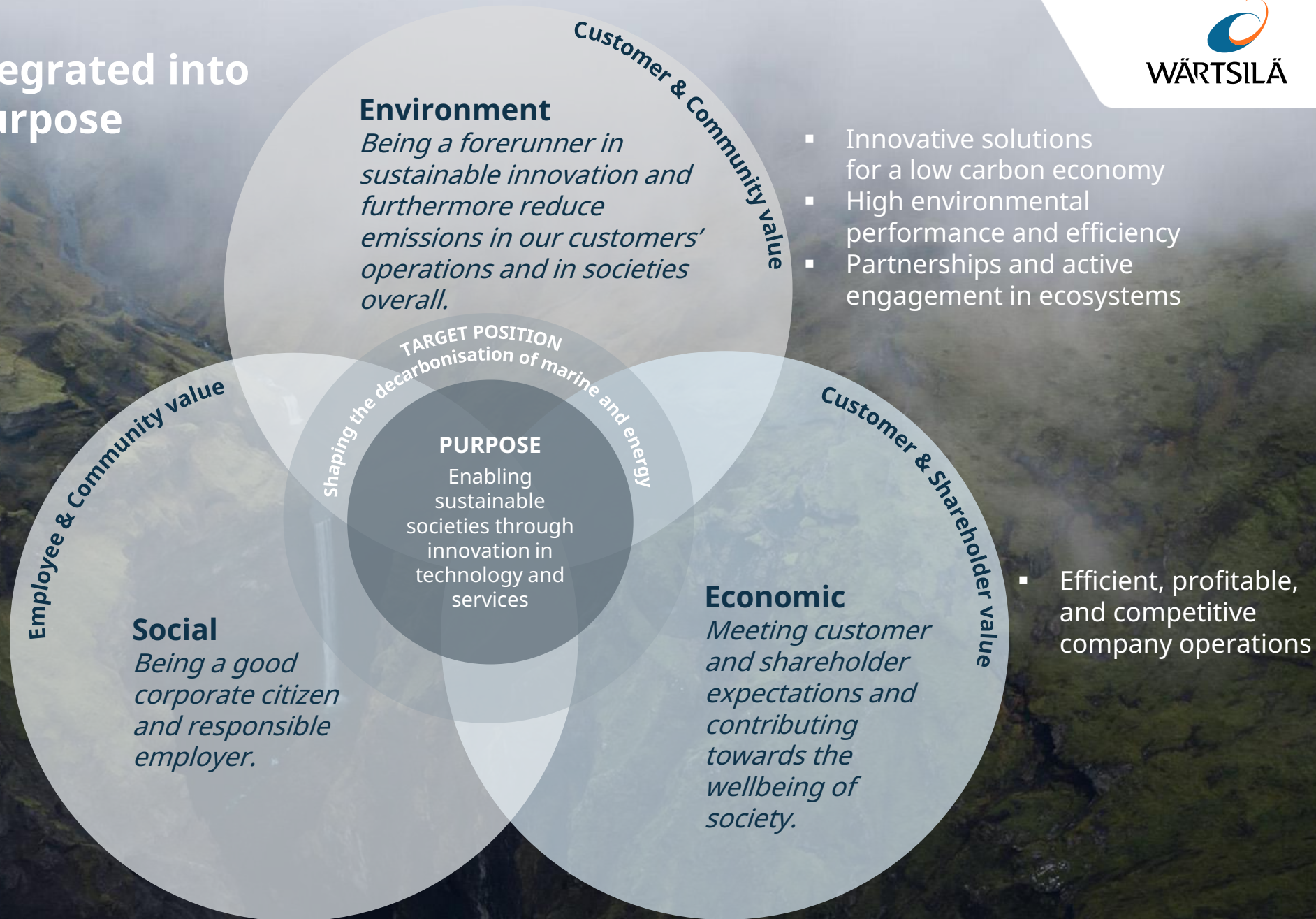
- High ethical standards
- Diversity in focus
- Strive for safety

G

Effective Governance model

- Sustainability matters embedded

Sustainability is integrated into our strategy and purpose



- High ethical standards
- Responsible employer offering, interesting and exciting workplace
- Equal opportunities and diversity
- Hazard free working environment

- Innovative solutions for a low carbon economy
- High environmental performance and efficiency
- Partnerships and active engagement in ecosystems

- Efficient, profitable, and competitive company operations

Wärtsilä's focus on social responsibility

Strong ethical culture



Fair competition
Trade compliance
Anti-corruption
Human and Labour Rights

- Clear policies and instructions
- Ethical training programmes and transparent communication
- Effective compliance programmes

A responsible employer



Equal opportunities and diversity
Fair employment practices
Well-being of our employees
Talent and leadership development

- Global policies and processes
- Training programmes and effective communication
- Co-operation and consultation with our employees

A Safe place to work



Strong safety culture
Providing means for safe work
Product design principles

- Employee and leadership engagement
- Consistent safety competencies
- High quality tools and protective equipment
- Robust risk assessment practices
- Incident reporting and investigation
- Emergency preparedness
- Clear supplier requirements
- Supplier assessment process
- Setting contractual obligations
- Monitoring the supplier performance
- Taking necessary actions in case of non-compliance

Responsible value chain



Human and Labour Rights
Compliance
Anti-corruption

Governance



Board of Management



Håkan Agnevall,
President & CEO



Arjen Berends,
Chief Financial
Officer



Tamara de Gruyter,
President, Wärtsilä Portfolio
Business



Kari Hietanen, Corporate
Relations and Legal Affairs



Roger Holm, President,
Wärtsilä Marine



Anders Lindberg, President,
Wärtsilä Energy



Teija Sarajärvi,
Human Resources



Saara Tahvanainen,
Marketing and
Communications

Board of Directors



Tom Johnstone CBE, Chair of the Board, President and CEO of AB SKF 2003–2014



Mika Vehviläinen, Deputy Chair of the Board, President & CEO of Cargotec Oyj 2013–2023



Karen Bomba, President of Smiths Interconnect 2017–2020



Morten H. Engelstoft, CEO & EVP of A.P. Møller - Mærsk A/S, APM Terminals 2016–2022



Karin Falk, President, Husqvarna Construction Division



Johan Forssell, President and CEO of Investor AB



Mats Rahmström, President & CEO of Atlas Copco AB



Tiina Tuomela, CFO, Fortum Corporation

Largest shareholders April 2024 (CMi2i quarterly update)

#	Name	Shares	Share %
1	Invaw Invest AB	104,711,363	17.70%
2	Varma Mutual Pension Insurance Company	31,768,252	5.37%
3	BlackRock Fund Advisors	18,736,242	3.17%
4	The Vanguard Group, Inc.	17,795,047	3.01%
5	Ilmarinen Mutual Pension Insurance Company	17,640,242	2.98%
6	Keskinäinen Työeläkevakuutusyhtiö Elo	8,558,000	1.45%
7	Amundi Asset Management SA (Investment Management)	8,408,958	1.42%
8	SSgA Funds Management, Inc	7,041,698	1.19%
9	Legal & General Investment Management Ltd.	6,809,772	1.15%
10	BlackRock Advisors (UK) Ltd.	6,636,299	1.12%
11	BlackRock Investment Management (UK) Ltd.	6,614,671	1.12%
12	Marathon Asset Management LLP	6,429,807	1.09%
13	The Social Insurance Institution of Finland (Invt Port)	5,517,730	0.93%
14	Dimensional Fund Advisors LP	4,991,156	0.84%
15	Valtion Eläkerahasto - The State Pension Fund	4,900,000	0.83%
Total Top 15		256,587,047	43.36%

For more information, visit our [Investors page](#)

Next upcoming IR events

- 8.5. Roadshow in London
- 13.5. Danske Bank Nordic Seminar, Paris
- 29.-30.5. Site visit to Sustainable Technology Hub, Vaasa
- 5.6. Roadshow in Stockholm
- 6.6. CEO strategy call

Wärtsilä Investor Relations

Hanna-Maria Heikkinen, Vice President, Investor Relations

tel. +358 10 709 1461, email: hanna-maria.heikkinen@wartsila.com

Samu Heikkilä, Senior Manager, Investor Relations

tel. +358 10 709 1121, email: samu.heikkila@wartsila.com

Maija Hongas, Senior Manager, Investor Relations

tel. +358 10 709 3178, email: maija.hongas@wartsila.com

Noora Suni, Investor Relations Specialist

tel. +358 10 709 1101, email: noora.suni@wartsila.com

Meeting requests

Janine Tourneur, Executive Assistant

tel. +358 10 709 5645, e-mail: janine.tourneur@wartsila.com

Appendix

Main competitors

Engines

MAN
Himlen
Rolls-Royce

Other marine solutions

Kongsberg
Alfa Laval
GE
Siemens
Schottel

Other energy solutions

GE
Siemens
Tesla
Fluence

Customer base

Marine businesses

Ship owners
Ship operators
Ship management
companies
Charterers
Shipyards
Port authorities

Energy

Utilities
Independent Power Producers
(IPPs)
Industrial customers

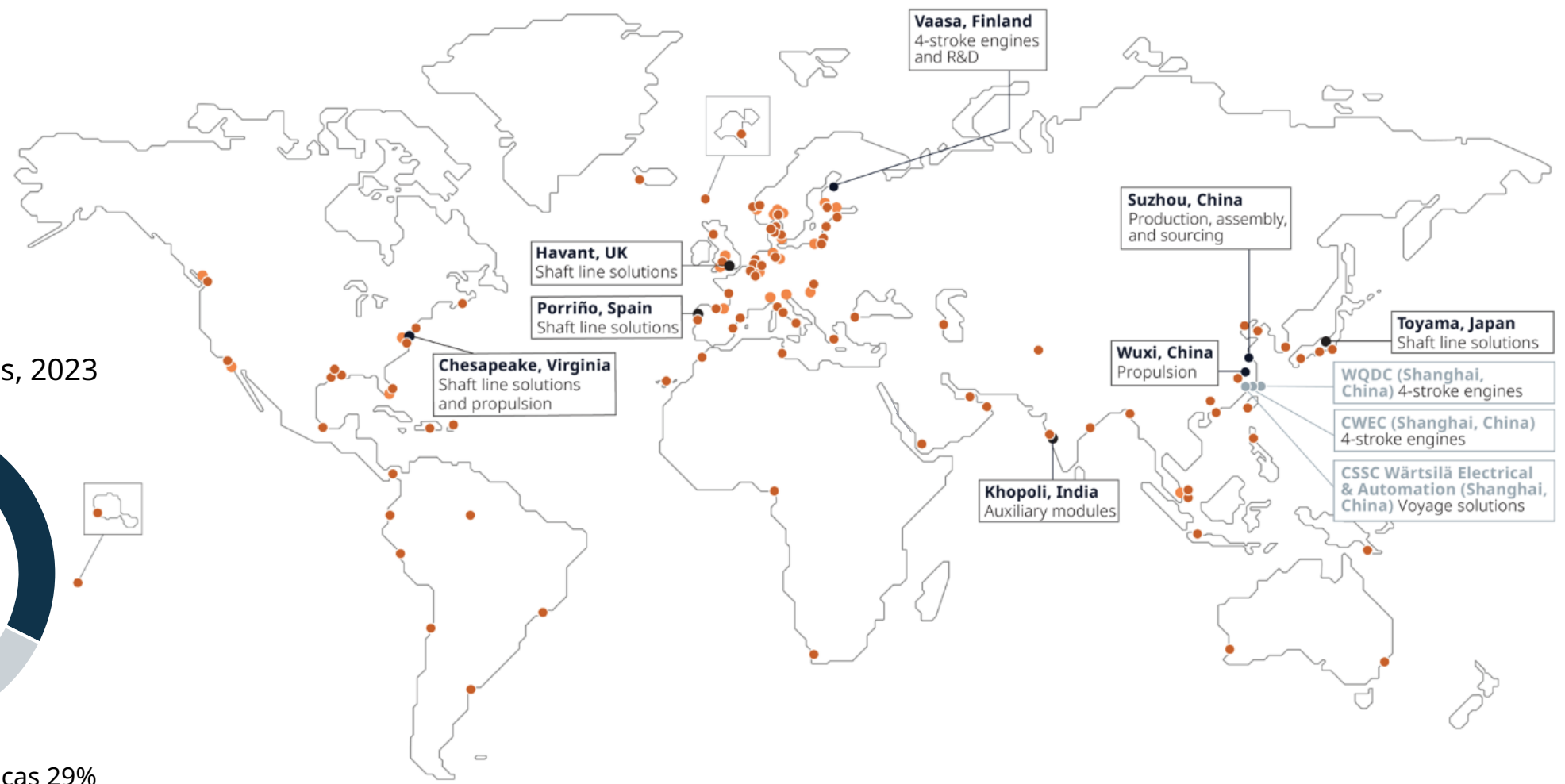


Wärtsilä's position as a global company is reflected in the geographical breakdown of our net sales

Geographical net sales, 2023



- Europe 32%
- Americas 29%
- Asia 28%
- Other 10%



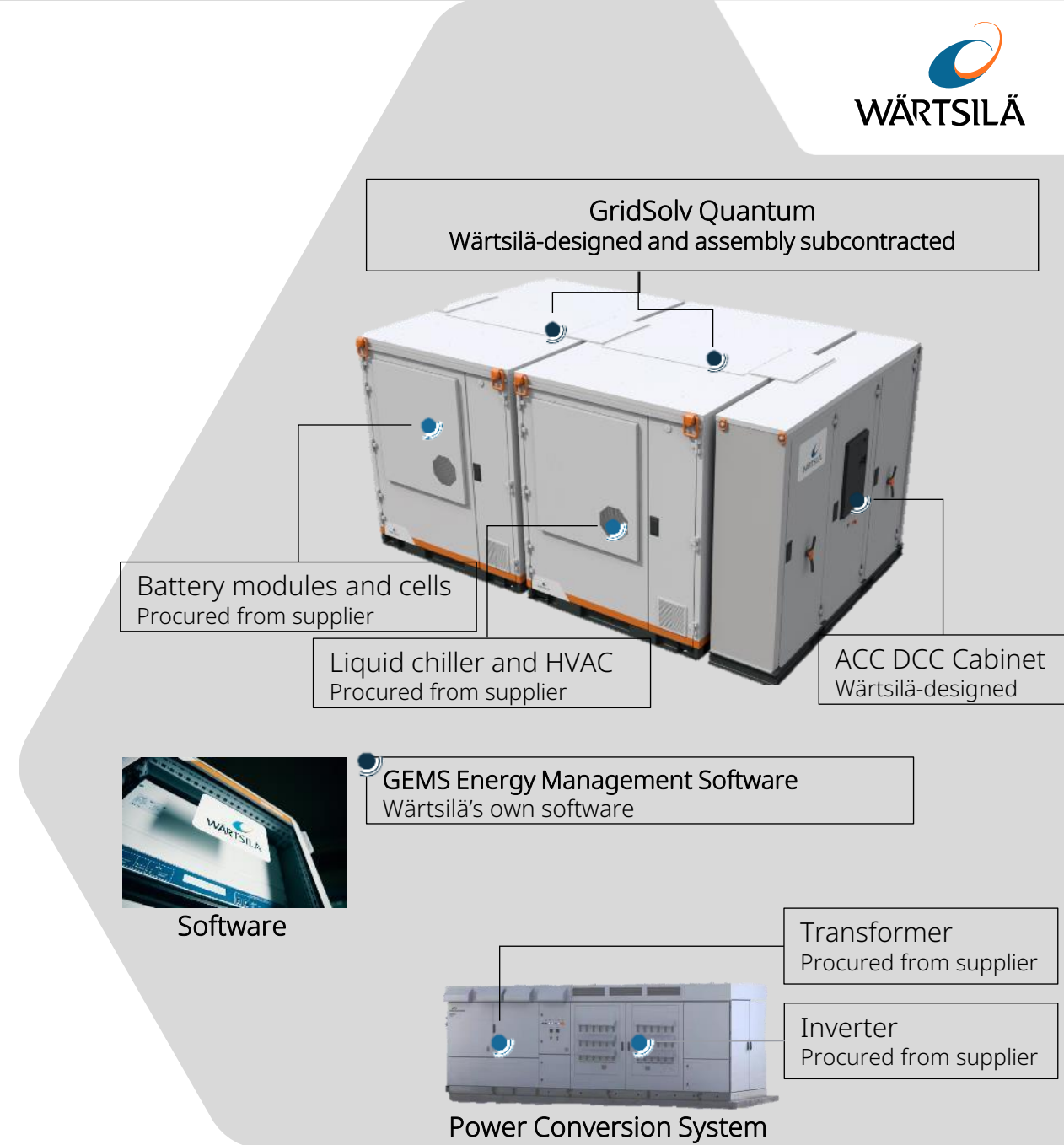
- Sites with engineering, R&D (fully owned)
- Sites with sizeable manufacturing (fully owned)
- Joint venture sites
- Service locations

Wärtsilä Energy Storage offering

Our role in the value chain

- Our **core offering** consists of 1) battery energy storage hardware, 2) GEMS Digital Energy Platform, and 3) lifecycle services,
- We are an energy storage **system integrator**, adding value to our customers by providing fully-engineered, end-to-end storage solutions:

- Wärtsilä's energy storage hardware** integrates battery modules, Battery Management System and Power Conversion System to a Wärtsilä-designed GridSolv enclosure to offer a complete energy storage system (ESS) to our customers.
- Our project execution team manages **full installation and integration** at the customer's site(s).
- Wärtsilä's **GEMS Digital Energy Platform** monitors, controls and optimises storage and other energy assets in the system
- Our **Service+ lifecycle solutions** include Expertise Center support, planned maintenance, performance guarantees and software maintenance



Wärtsilä Energy Storage competitive advantages

Our key differentiators

- **Integration and scalability:** Wärtsilä's GridSolv Quantum is a fully-integrated energy storage solution. Its modular and scalable design enables ease of deployment and optimisation. It integrates storage to other energy assets and to the electricity grid to ensure full utilisation of storage benefits.
- **Reliability and maturity:** Wärtsilä combines 15+ years of proprietary software leadership, top-tier battery energy storage systems, and extensive power sector experience in project execution in all key markets. We are a leading player in storage integrator space globally, with a wide services network and +3.6 GW/+9.1 GWh of deployed and contracted projects to-date.
- **Safety:** Wärtsilä's ESS is designed to meet stringent safety and quality standards (including UL certification for fire safety)
- **GEMS and bankability:** With smart optimisation software and complex renewables and grid integration capabilities, our solution ensures the lowest lifecycle costs, the smallest system footprint and new revenue opportunities for our customers – to fully optimise on industry price volatility and demanding transitions in energy.



Wärtsilä Energy Storage's direction

Key drivers towards higher profitability

1. Selective approach in project acceptance
2. Value differentiation
3. Volume growth supporting better cost leverage and better economics of scale in procurement and assembly
4. Continuous R&D to secure latest technology and competitive product cost
5. Software monetisation
6. Synergies with thermal energy business



Key figures in 2023



KEY FIGURES 2023

Order intake
7,070 MEUR

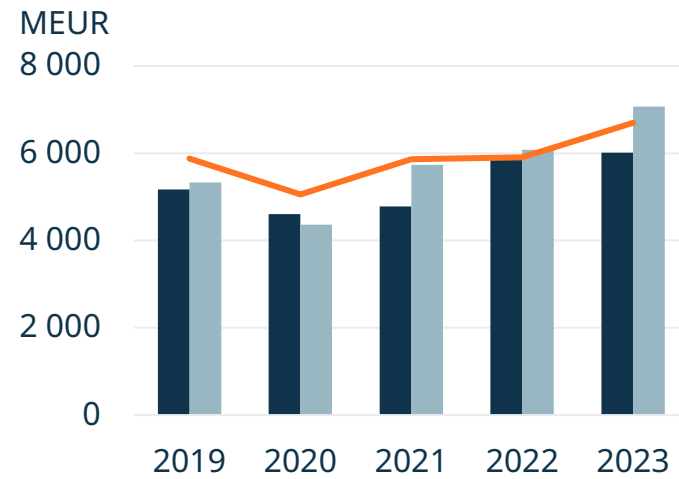
Net sales
6,015 MEUR

Comparable operating result
497 MEUR
8.3% of net sales

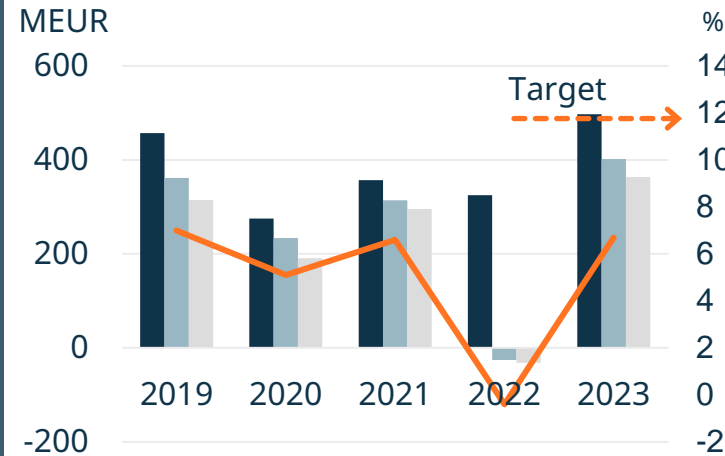
Operating result
402 MEUR
6.7% of net sales

Cash flow from operating activities
822 MEUR

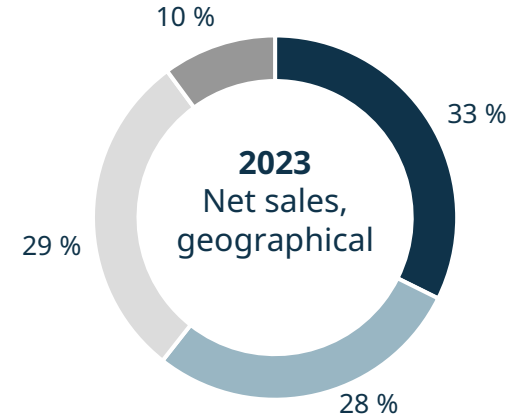
Personnel
17,800



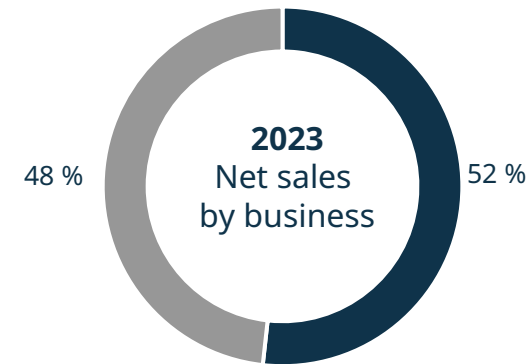
■ Net sales ■ Order intake
— Order book



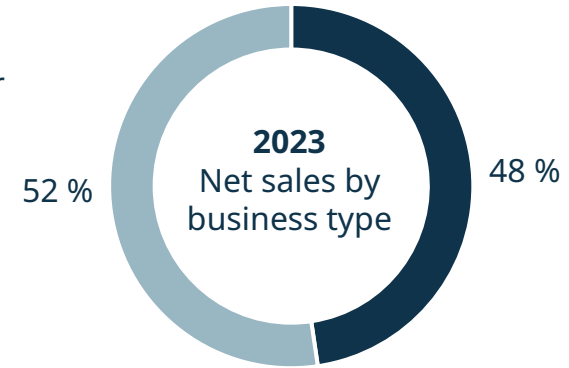
■ Comparable operating result
■ Operating result
■ Result before taxes
— Operating result, %



■ Europe ■ Asia ■ Americas ■ Other



■ Marine ■ Energy



■ Equipment ■ Services

Wärtsilä Marine – Leading the path towards decarbonisation by developing state of the art technology and enabling adoption of clean fuels

Key figures in 2023

Order intake
3,261 MEUR

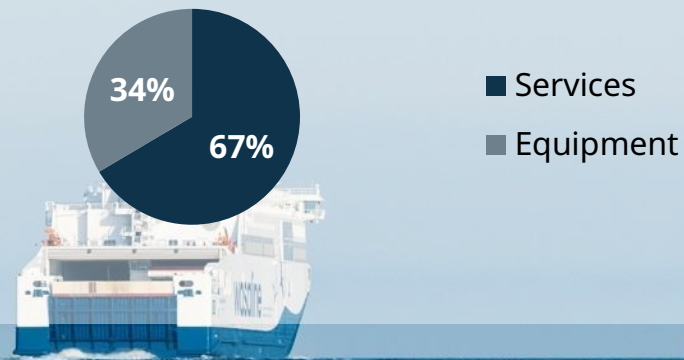
Net sales
2,800 MEUR

Comparable operating result
312 MEUR
11.2% of net sales

Share of total net sales in 2023



Net sales by business type in 2023



Offering

- Multi-fuel 4-stroke engines
- Propulsion systems
- Catalyst systems
- Fuel gas supply systems
- Hybrid and electrification solutions
- Voyage and fleet optimisation
- Exhaust treatment
- Shaft line solutions
- Services
 - Spare parts and maintenance services
 - Performance based agreements
 - Retrofits and upgrades

Key customer segments

- Gas carriers
- Cruise & ferry
- Offshore
- Navy
- Special vessels
- Merchant

* Financial figures for 2023 have been restated to reflect the redefined organisational structure after discontinuation of Marine Systems as a reporting segment as of 1 January 2024. Exhaust Treatment and Shaft Line Solutions business units were moved from Marine Systems to Marine Power and consequently, Marine Power changed its name to Wärtsilä Marine as of 1 January, 2024.

Wärtsilä Energy – Towards a 100% renewable energy future

Key figures in 2023

Order intake
3,041 MEUR

Net sales
2,610 MEUR

Comparable operating profit
219 MEUR
8.4% of net sales

Share of total net sales in 2023



Net sales by business type in 2023



Offering

- Future-fuel enabled grid balancing power plants
- Hybrid solutions
- Energy storage and optimisation technology, including the GEMS Digital Energy Platform
- Lifecycle services

Key customer segments

- Utilities
- Independent Power Producers (IPPs)
- Industrial customers



WÄRTSILÄ