Wärtsilä

Shaping the decarbonisation of marine and energy Roadshow presentation

December 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.

Key growth opportunities

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- ⊕ ⊕ ⊕ Energy Storage & Optimisation: Fast growing demand for power system optimisation solutions
- - 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

– – Portfolio Business divestments

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, pure hydrogen fuel engine concept, pure ammonia fuel engine concept





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



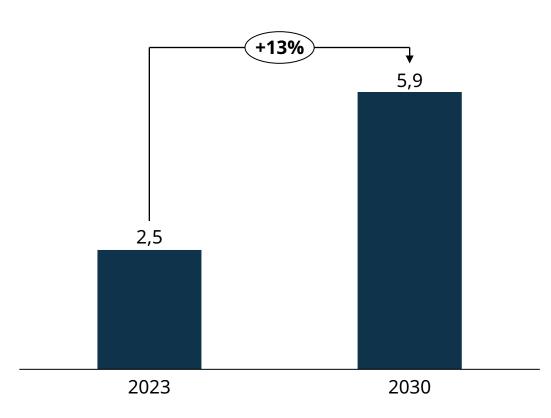


Transform – attractive growth opportunities at the center of the decarbonisation transformation

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

Key target segments

Annual newbuild contracting of 4-stroke medium speed main enginepowered 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

1) Source: Clarksons March 2024 forecasts; 2) Fishing, dredgers, support units, yachts, 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



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 2stroke engines available already today



Industry leading hybrid solutions

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



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)



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

Thermal balancing	Energy storage	
Addressable market GW; CAGR	Addressable market GWh; CAGR	 Thermal balancing market is expected to grow +5X by 2030 driven by accelerating intermittent baseload. US is an important market for thermal balancing
+ 29% 22	+17%	 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
4	24	 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
2023 2030	2022 2030	



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



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% blend available already, full hydrogen technology launched in Q2 2024, available for orders in 2025



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

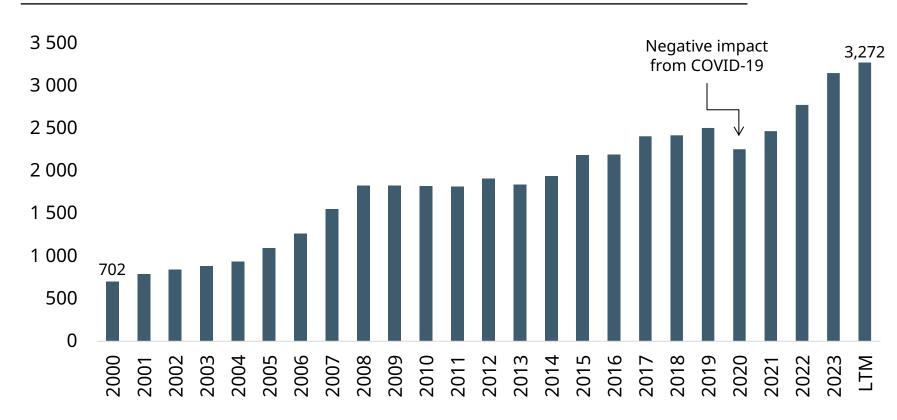
>90%

Renewal rate of service agreements



Service has provided resilient sales and profits for Wärtsilä over decades

Service Net Sales, EURm¹⁾



>€3.2bn

in LTM service net sales by Q2/2024 with good future growth potential

~30%

of installed base covered by service agreement by Q2/2024

>90%

LTM renewal rate of existing service contracts by Q2/2024

1) Service net sales as reported in Annual Reports 2000-2023, and LTM Q2/2024. 2000–2018 service was reported as its own division and from 2019 onwards as a part of the other reporting segments. Figures reflect the data as per the organisation structure at each point in time and is not adjusted for changes such as acquisitions; LTM = Last twelve months, Q3 2023-Q2 2024.

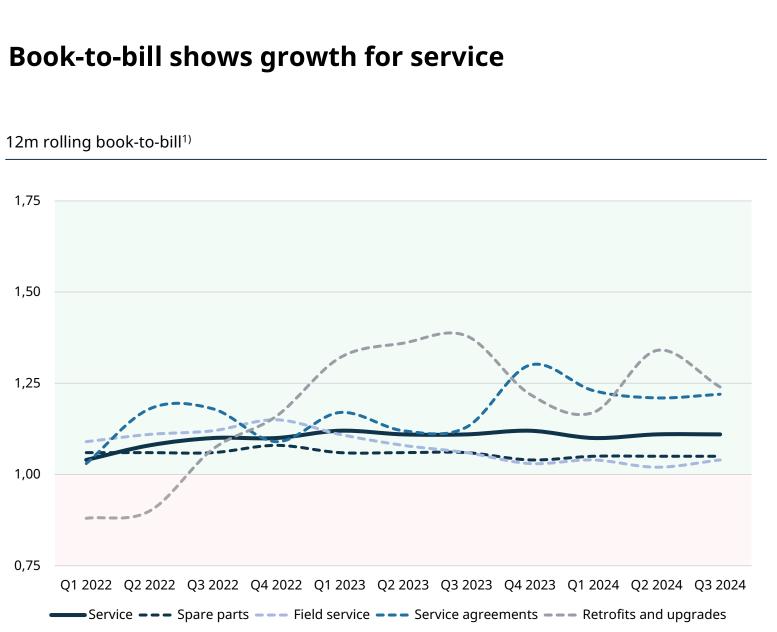


We continue to execute our services strategy on all steps of the service value ladder



- 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
- Total investments in Marine retrofits, including Carbon Capture and Storage solutions (CCS), are estimated to be EUR 15-20bn over the next decade³⁾

1) customer spend ratio EUR/kW 2) 4-stroke engine MW 3) Source: Clarksons, incl. ESTs, CCSs, and engines, excl. hybrids and offshore



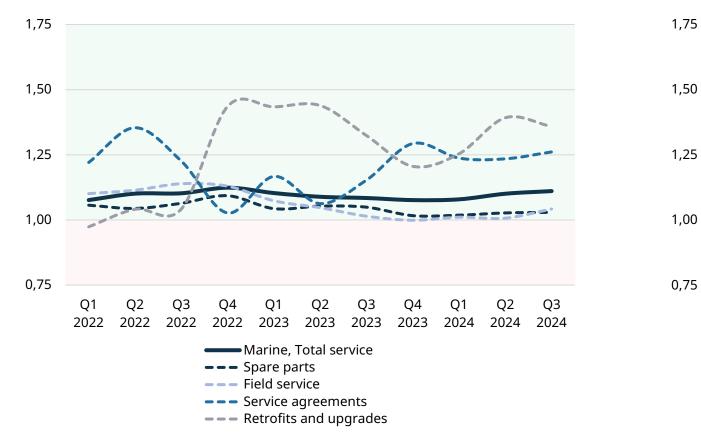
^{1) 2023} data restated to reflect the redefined organisational structure as of 1 Jan 2024. Figures prior to 2023 reflect the data as per the organisation structure at each point in time and is not adjusted for changes such as acquisitions.



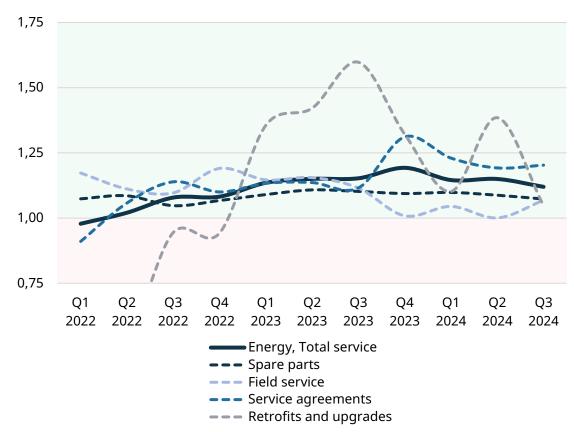


Rolling 12-month book-to-bill's above 1 for all service categories in both Marine and Energy

Marine, 12m rolling book-to-bill¹⁾



Energy, 12m rolling book-to-bill



1) 2023 data restated to reflect the redefined organisational structure as of 1 Jan 2024. Figures prior to 2023 reflect the data as per the organisation structure at each point in time.

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



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 growth ¹⁾	Share of absolute growth
Energy Storage & Optimisation	
 Fast growing demand for energy storage and power system 	em optimisation solutions
 Marine newbuild driven by decarbonisation 	$\textcircled{\bullet} \textcircled{\bullet}$
 Uptake of solutions ready for sustainable fuels, and reco 	very 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 decreation our risk profile 	ses revenue expectations but improves
 Portfolio Business divestments 	$\Theta\Theta$
 Gas Solutions, ANCS, Water & Waste, and Marine Electric 	al 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 profitability ²⁾	Share of absolute improvements
 Moving up the service value ladder in Marine and Energy 	$\textcircled{\bullet} \textcircled{\bullet} \textcircled{\bullet}$
 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 Cost inflation & related price adjustments 	>0

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)

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

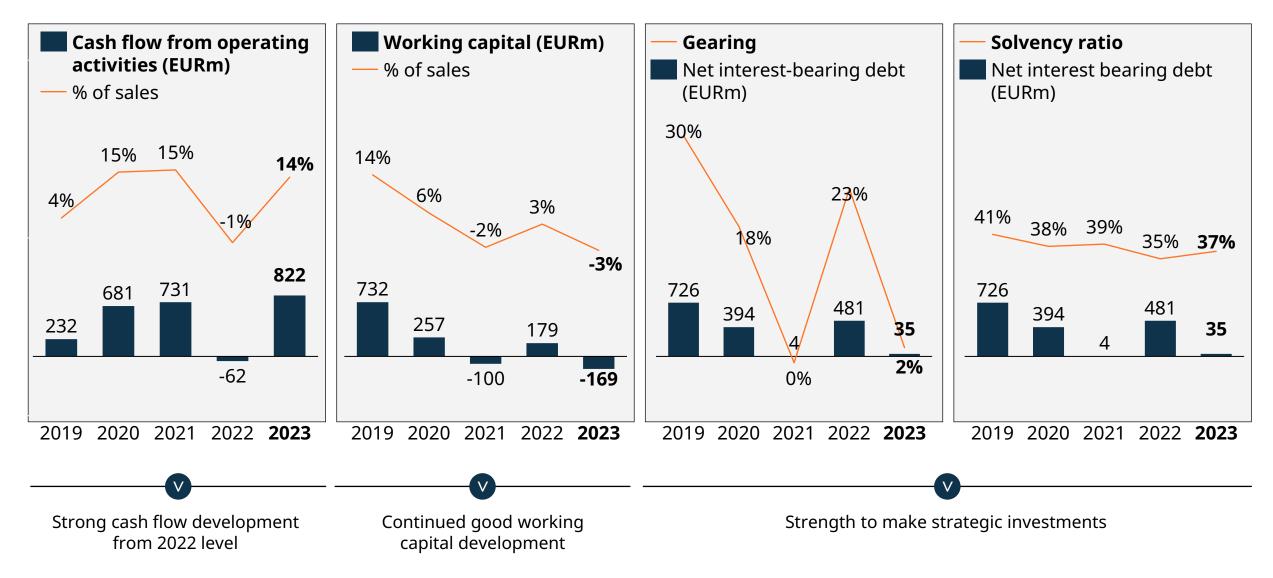
+ – Uncertainties

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

Negative factors

- Wage inflation
- Equipment deliveries in H2/2024 will grow faster than service deliveries, especially in Energy, which will impact relative profitability

Strong balance sheet and financial position to support strategy execution



WARTSILA



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

THE WARTSILÄ 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

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

2

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



5

Capture growth in services

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

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

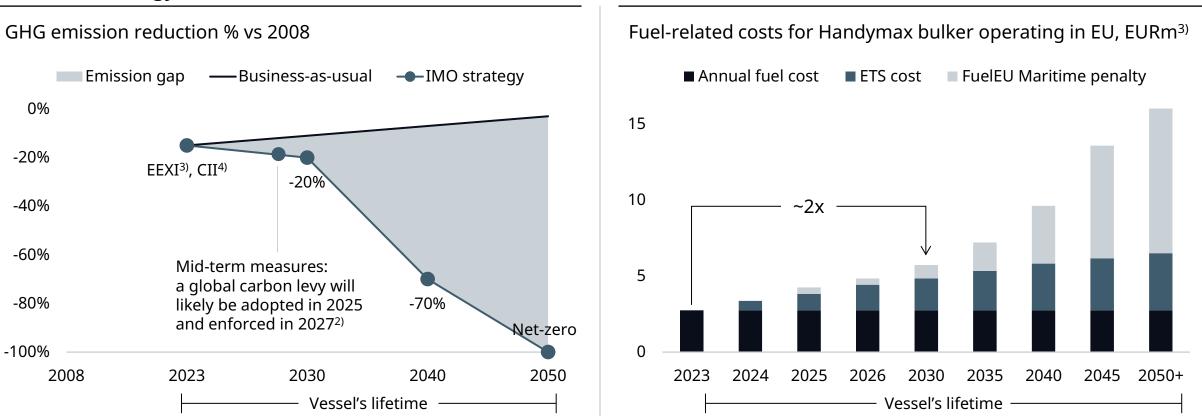




After IMO net-zero commitment last year, the regulatory focus has moved to "mid-term measures"

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

IMO GHG Strategy¹⁾



EU Fit-for-55

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)



Decarbonisation can be reached through different pathways; net-zero targets will require a fundamental shift towards sustainable fuels

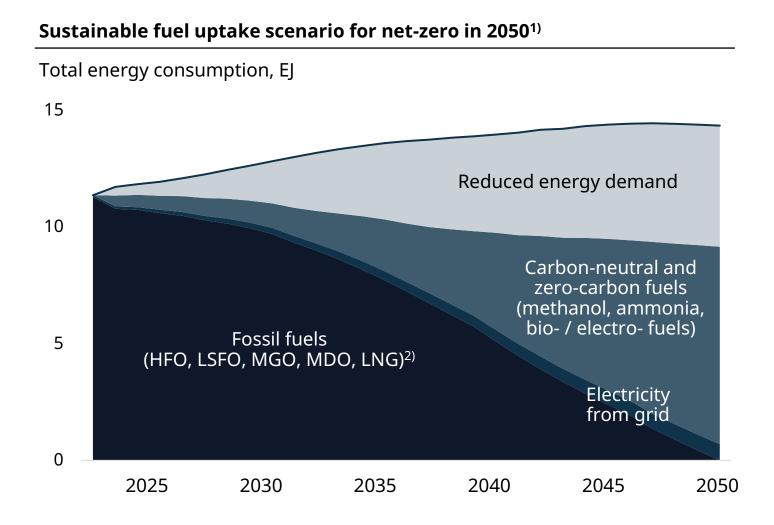
Decarbonisation pathways

Burn less fuel ¹⁾		Clean up emissions ¹⁾ Use alternative energy sources		e energy sources		
Vessel efficiency	Operational efficiency	Emission abatement	Sustainable fuels	Electrification		
 Reduction of GHG emissions and fuel cost E.g., energy efficiency improvement of engine, propulsion, hull, other systems 	 Reduction of GHG emissions and fuel cost E.g., speed reduction, route optimisation, onboard energy management 	 Significant reduction of GHG emissions through onboard carbon capture, regardless of the fuel CO2 offloading infrastructure, onboard storage and value chain needed 	 Significant / total reduction of GHG emissions Technology available; infrastructure and supply under development 	 Zero GHG emissions through battery- electric propulsion Viable on short ranges due to low energy density 		
	Approximate greenhouse gas (GHG) emission reduction potential					
25%	25%	70%	100%	100%		

1) These pathways shall be combined with the utilisation of alternative fuels to support long term IMO targets



A progressive switch to sustainable fuels is already under way



- Fuel transition is under way: ~50% 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: ~60% of containerships contracted in 2023–2024 YTD 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)

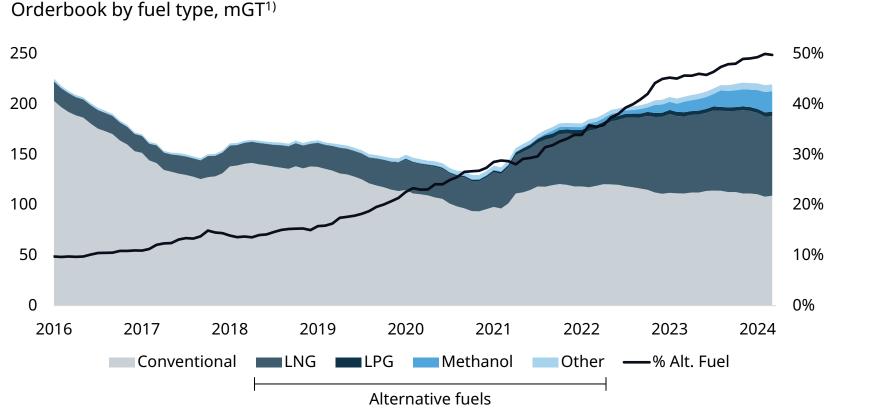
1) Source: DNV Maritime Forecast 2050; 2) HFO – Heavy Fuel Oil; LSFO – Low Sulphur Fuel Oil; MGO – Marine Gas Oil; MDO – Marine Diesel Oil; 3) Energy Saving Technology



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



~50%

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

~60%

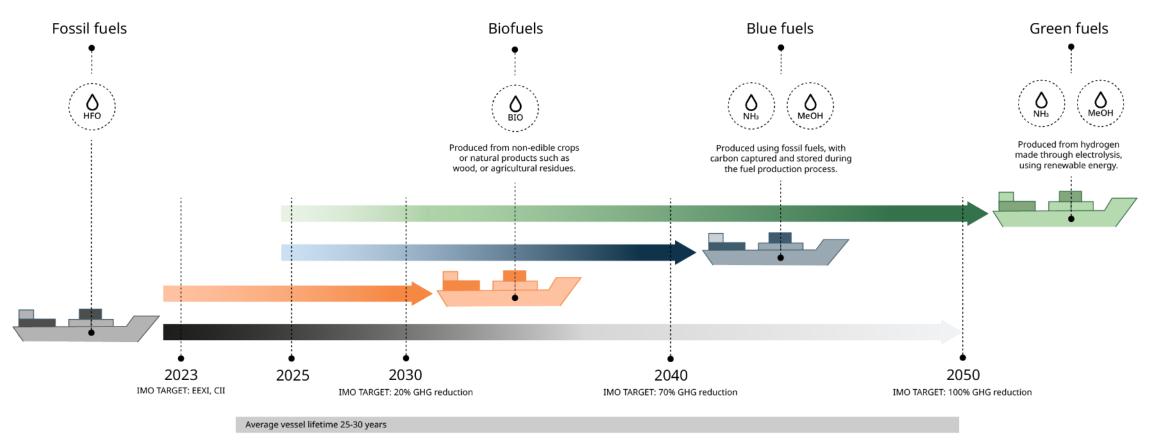
containerships contracted in 2023 -2024 YTD are set to run on methanol

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

				MI3	H ² LH ²		
Fuel type	Low Sulphur Fuel Oil @ 20°C	Liquified 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)

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;
 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

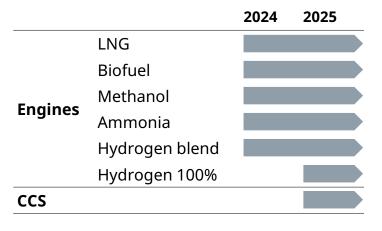


The alternative fuel ecosystem must continue to develop further to support the maritime green transition

Engine technology

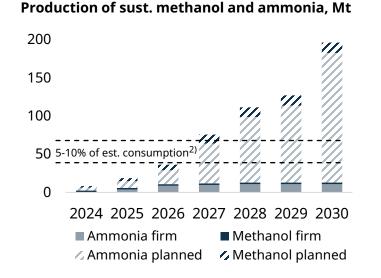
- Technology is readily available, with ~50% of the current vessel orderbook set to run on alternative fuels
- Wärtsilä leads in fuel flexibility and efficiency, having the industry's most comprehensive offering:

Wärtsilä's alternative fuel roadmap



Availability of fuels

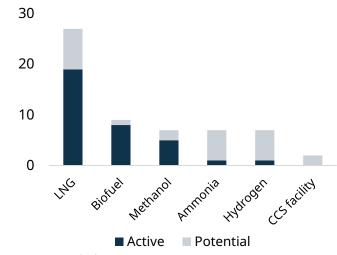
- Alternative fuels are not yet available at the required scale
- Production is estimated to pick up, with planned capacity of sustainable methanol and ammonia reaching ~190 Mt by 2030¹):



Port infrastructure

- Bunkering infrastructure is limited but developing rapidly; carbon capture and storage infrastructure is still lacking
- ~60% of the top 50 ports worldwide are planning to build alternative fuel bunkering³⁾:

Alternative fuels bunkering in top 50 ports, no. ports



1) Source: DNV AFI, 2) global fleet would require an estimated ~600Mt of fuel to run solely on ammonia and methanol due to their lower energy content, 3) Source: Clarksons



Our engines have built-in upgradability to future fuels, with significant part commonality between different fuel versions and a modular design

CapEx, cargo space and vessel range







modularity and part commonality

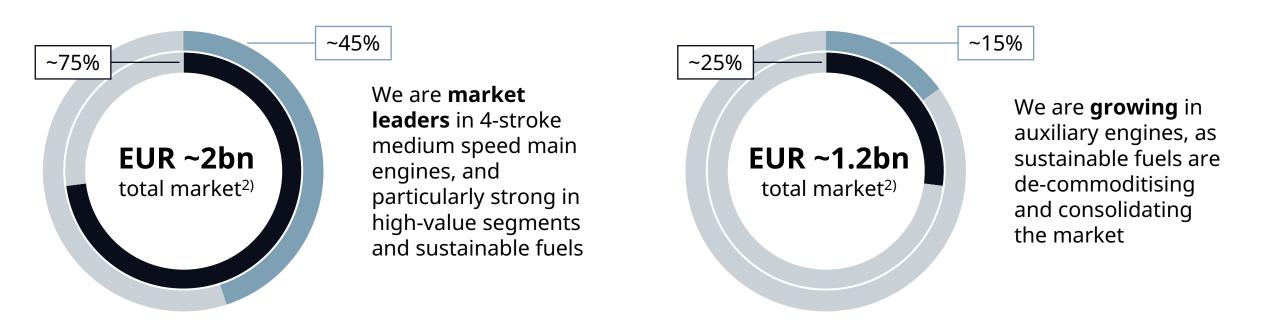
LNG DF ¹⁾ engine to run on:	Fuel System	Engine base	Engine top
 Bio/Synthetic diesel 	 No changes 	 No changes 	 No changes
 Bio/Blue/Green methane 	 No changes 	 No changes 	 No changes
 Ammonia 	 Replace with AmmoniaPac 	 No changes 	 Change fuel injection system and power pack²⁾
 Methanol 	 Replace with MethanolPac 	 No changes 	 Change fuel injection system and power pack²⁾
 Hydrogen blend³⁾ 	 Move to alternative fuel handling system 	 No changes 	 No changes
	Replacement of fuel handling and storage	10 0	\downarrow ulti-fuel engine to a new fuel
	system has bigger impact in terms of	requires limite	d investment thanks to high



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



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

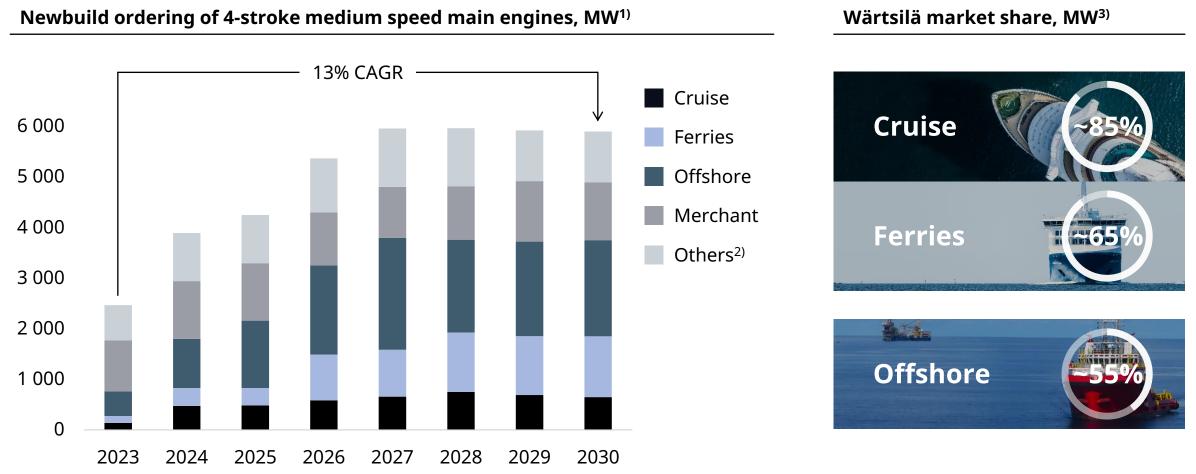
	Cruise	Ferries	Offshore	Navy	Specials	Merchant	Hy-El merchant
Engines / Hybrid ¹⁾	Diesel-Electric	Main Engines Aux Engines Hybrid System	Hybrid-Electric	Aux Engines	Main Engines	Aux Engines Main Engines ⁵⁾	Hybrid-Electric
Propulsion ²⁾	Tunnel Thrusters	CPP or Waterjets	Steerable Thrusters Tunnel Thrusters	CPP, FPP or Waterjets	CPP or Steerable Thrusters Tunnel Thrusters	CPP Tunnel Thrusters EST	CPP Tunnel Thrusters EST
Potential ³⁾	EUR 15-40m	EUR 10-25m	EUR 5-15m	EUR 5-15m	EUR 5-15m	EUR 2-15m	EUR 25-30m
% of Order In	ntake ⁴⁾ ~2	5%	~5%	~10%	~5%	~50%	-

Typical Wärtsilä Marine offering per vessel¹⁾

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 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



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

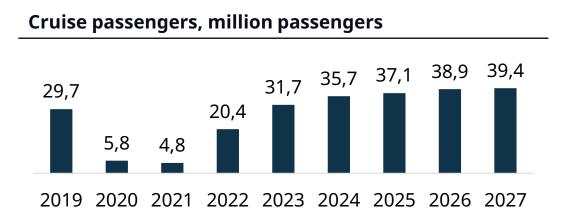


Source: Marine investor theme call in May 2024.

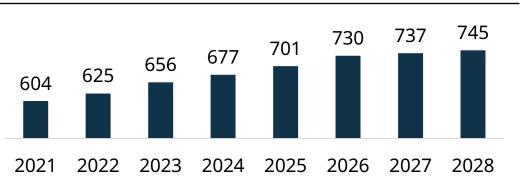
1) Clarksons March 2024 forecasts; 2) Fishing, dredgers, support units, yachts, tugs, etc.; 3) Market share on 4-stroke main and auxiliary engines as per Q4 2023, Wärtsilä estimates, MW



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



Cruise 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

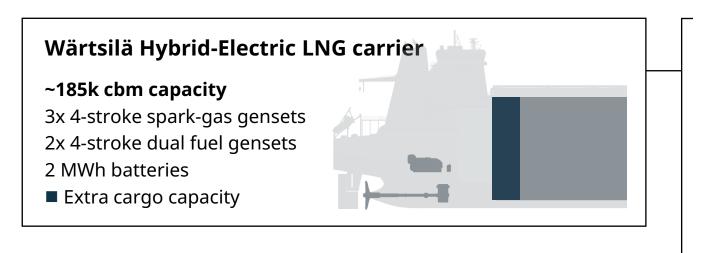
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- By 2027, cruise is forecast to grow to nearly 40 million passengers (+24% vs 2023)
- 60% of ships with delivery between 2023 and 2028 are set to run on LNG fuel
- Methanol is gaining traction, e.g., Celebrity Cruises new Edge Series ship will be 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

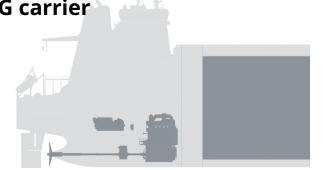


Hybrid-Electric will challenge 2-stroke as prime-mover for LNG carriers, enabling higher efficiency and increased cargo capacity



Conventional 2-stroke LNG carrier

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

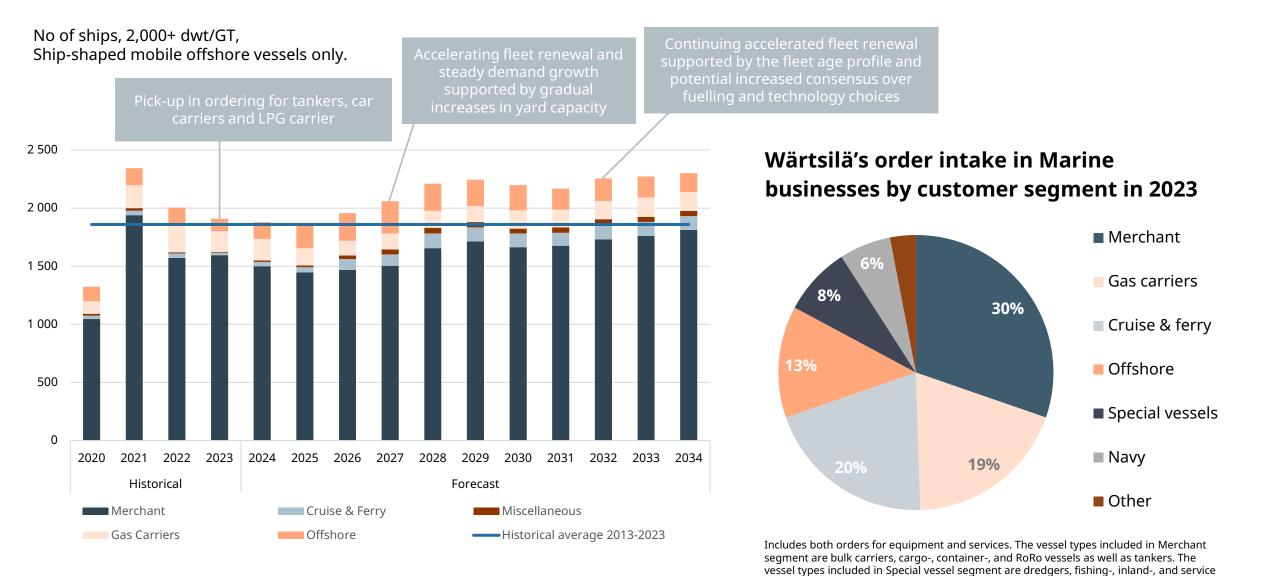


- Launched at Gastech in 2023 with Shell and Hudong-Zhonghua Shipbuilding
- ✓ 6% extra cargo capacity with same ship dimensions
- >10% lower fuel consumption and emissions with optimal efficiency across all speeds
- 20% lower maintenance costs with fewer engine running hours
- Superior redundancy, uptime, 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 Hanwa Ocean and Hudong-Zhonghua shipyards in their general arrangements and outline specifications



Vessel contracting forecast

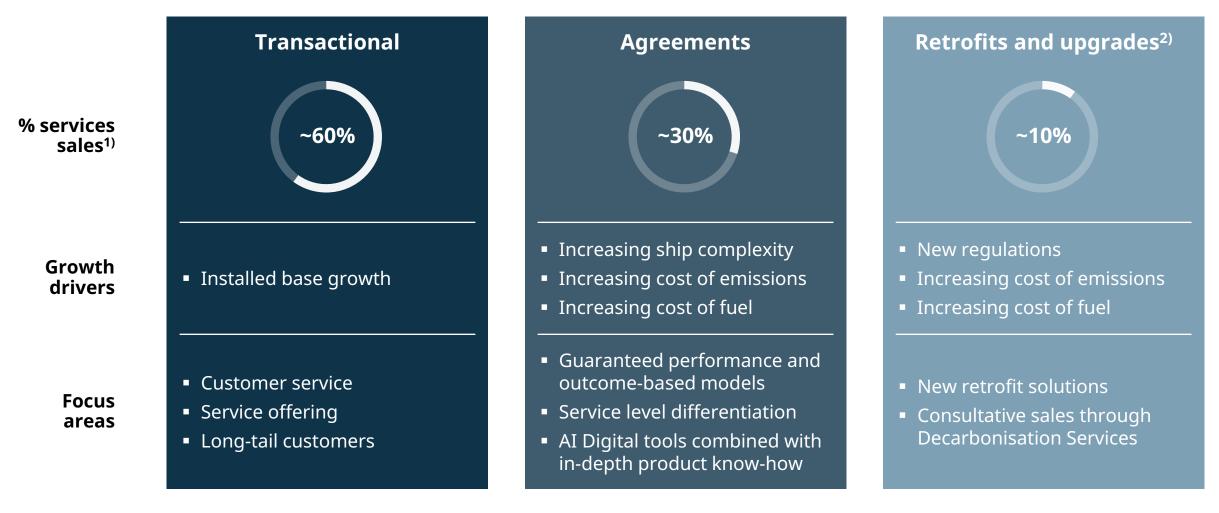


vessels as well as tugs.

Source: Clarksons Research, March 2024



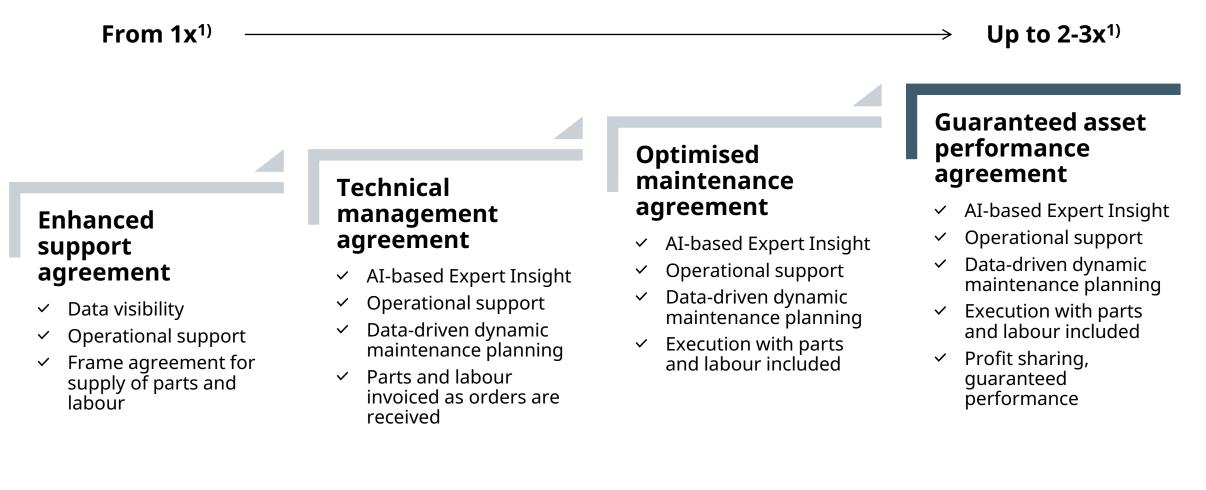
Services accounts for >60% of Marine sales; we operate through an integrated service framework with three service delivery models



1) Q3 2023–Q2 2024; agreement sales include all spare parts and field services sold to vessels under agreement, plus the agreement fee; 2) Referred to as Service Projects in the interim reports



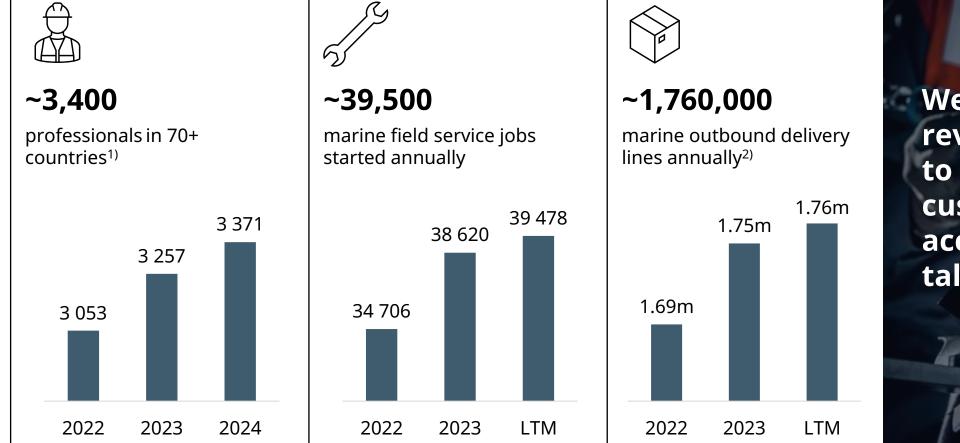
We increase sales and profits by moving up our service value ladder



1) Sales EUR/kW relative to transactional

We have the widest service network in marine





LTM - Last twelve months, Q3 2023-Q2 2024; 1) Billable field services and workshop personnel as per Q2 2024, including Marine and Energy; 2) One delivery can include one or multiple lines to for the same customer, one line includes a material number and its quantity

We continuously review our footprint to better serve our customers and access the best talents



Service agreements enable maximum fleet efficiency and uptime



Reliability and uptime have increased while unforeseen maintenance events have decreased; with early anomaly detection, enabled by Expert Insight service, we expect to deliver further improvements in all these areas



Head of Fleet Asset Management, major cruise line

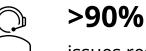




Expertise Centres, providing 24/7 remote technical support to agreement customers

40 million

datapoints collected on average every day from a connected vessel



issues resolved remotely



EUR >60m

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



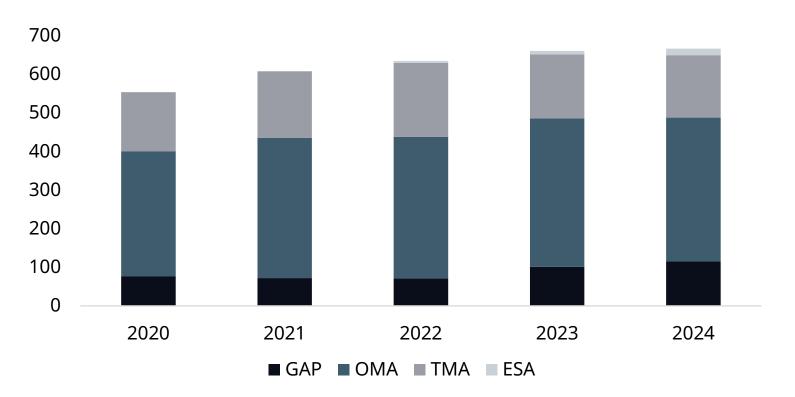
average reduction in planned/unplanned maintenance¹⁾

25-30%

1) Analysis on 160 LNG carriers with an active GAP - Guaranteed asset performance or OMA - Optimised maintenance agreement

The fleet under Wärtsilä service agreement keeps expanding and shifting towards higher-tier agreements

Fleet under agreement as end of Q2 over 2020-2024, # ships¹⁾



LTM - Last twelve months, Q3 2023–Q2 2024; 1) Agreement scope including 4-stroke and 2-stroke engines; Ship Electrical Solutions, Propulsions, Voyage, Exhaust Treatment excluded; GAP - Guaranteed asset performance agreement, OMA - Optimised maintenance agreement, TMA - Technical management agreement, ESA - Enhanced support agreement; figures as per end of June of each year; 2) In MW terms, 4-stroke installed base, excluding QuantiParts



>90%

renewal rate LTM Q2 2024

29%

of our engine installed base is under agreement²⁾

24%

sales to agreement vessels in 2023 were linked to GAP

13%

growth in sales to agreement vessels LTM Q2 2024

>3,000

customers groups buy from us at least once a year

+9%

4-stroke engine installed base growth since 2019

+7%

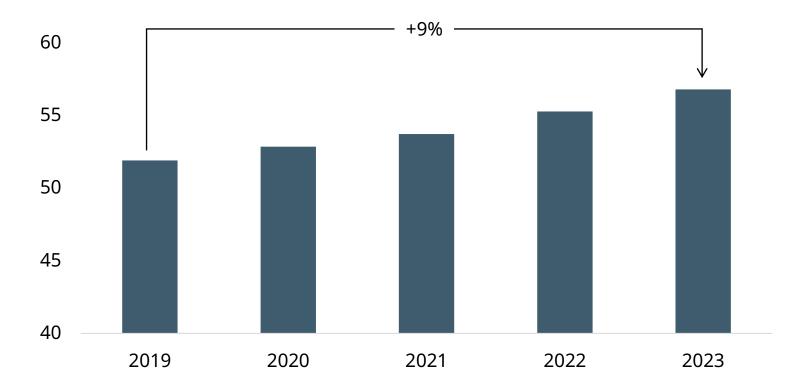
number of buying customer growth since 2019

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

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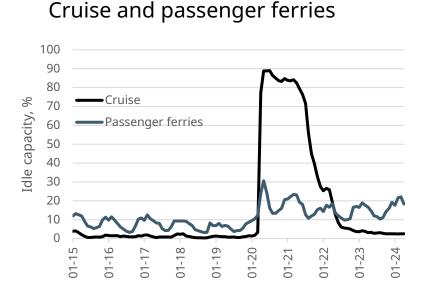
Marine 4-stroke installed base development

Marine 4-stroke installed base, GW¹⁾



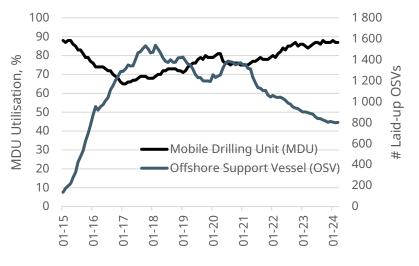
1) Based on 4-stroke lifecycle sales in 2019-2023, excluding Quantiparts

Vessel utilisation rates driving Wärtsilä's service business



- 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

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Source: Clarksons Research, March 2024



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⁾

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

Total investments in retrofits, including Carbon Capture and Storage solutions (CCS), are estimated to be EUR 15-20bn over the next decade¹⁾

WÄRTSII Ä

Propulsion	Alternative fuel	Radical power	Electrification	
efficiency upgrades	conversions	derating	projects	
Propulsion efficiency improvements, e.g., OptiDesign, EnergoFlow, EnergyProFin ³⁾	Engine retrofits to run on alternative fuels on top of conventional diesel	2-stroke power output reduction to optimise efficiency, fuel consumption and emissions at lower speeds	Electrical system ⁴⁾ upgrade, including hybrids and shaft generators to improve OpEx, emissions, safety	
700+ vessels contracted	10+ vessels contracted	30+ vessels contracted	30+ vessels delivered ⁵⁾	
EUR 20k-1m per shipset	EUR 3-8m per shipset	EUR 5-8m per shipset	EUR 3-8m per shipset	

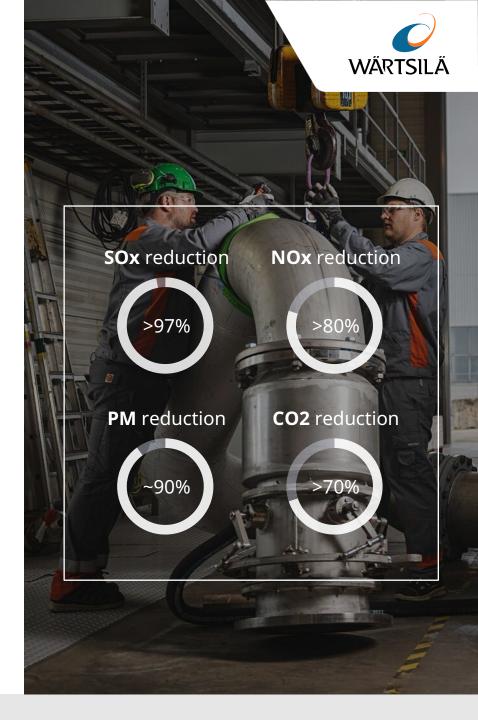
1) Source: Clarksons, incl. ESTs, CCSs, and engines, excl. hybrids and offshore; 2) CII (Carbon Intensity Indicator) applies to cargo, RoPax, cruise ships >5 000 GT (with some exceptions); source: Wärtsilä CII tool, correction factors excluded, ships with D or E rating considered as non-compliant; 3) 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

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⁾

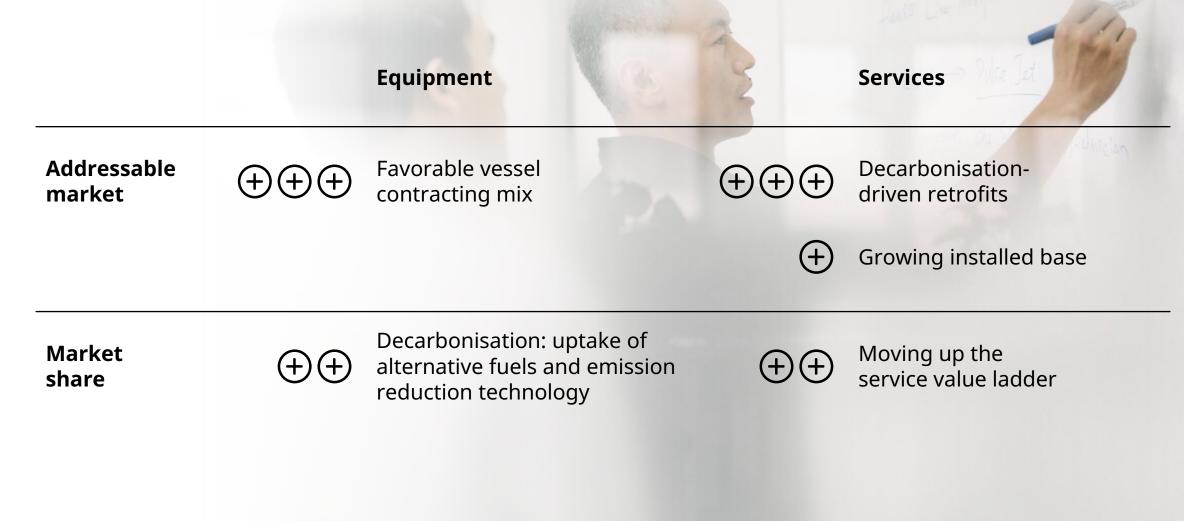
- Applicable to all carbon-based fuels, vessels types and sizes
- Captured CO2 is stored onboard for discharge at port reception facility
- At our research centre and test facility in Moss, Norway, we simulate vessel installations of onboard carbon capture:
 - Operated for >2 years
 - CO2 capture capacity: 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



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 29% p.a. between 2023-2030
- 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

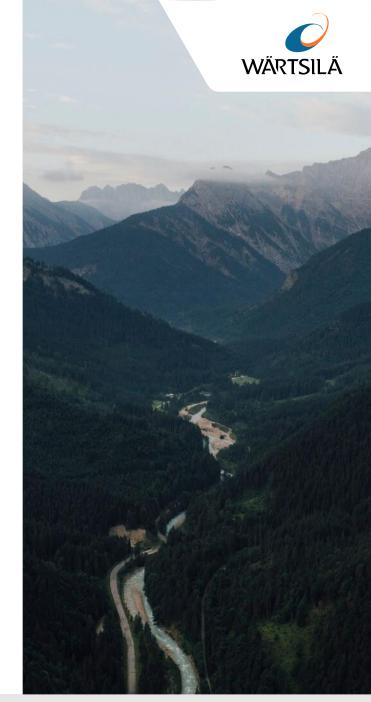
Actions taken to improve new build profitability and achieve better risk / reward

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

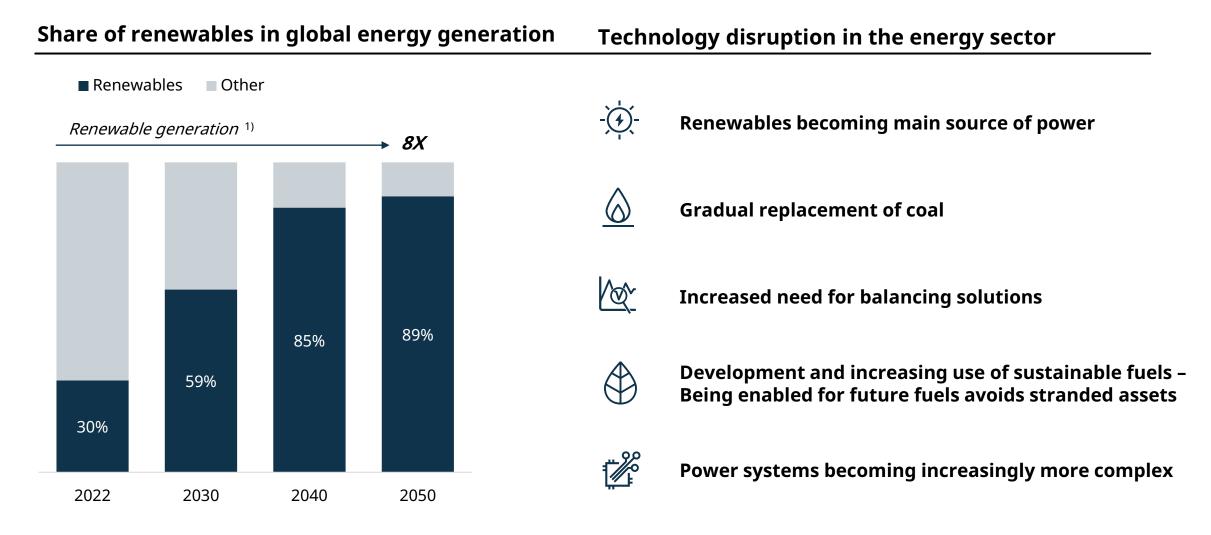
Offering & risk management

- 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

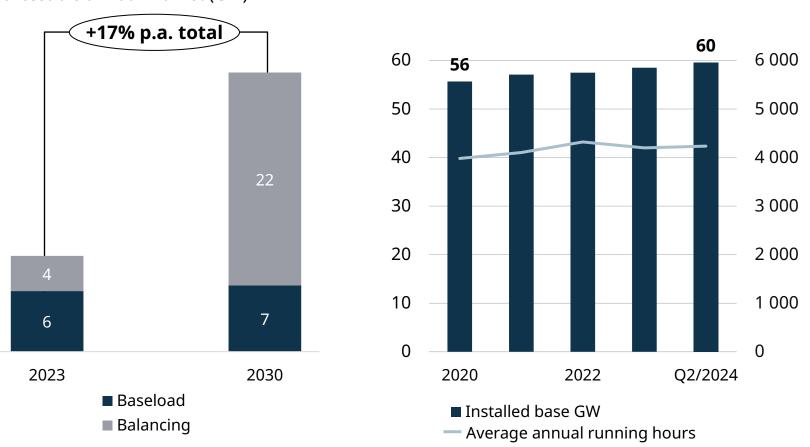


1) IEA World Energy Outlook 2023 (Net Zero Emissions scenario)

Thermal balancer market expected to grow ~29% per year – the baseload market outlook remains stable

Wärtsilä operating installed base (GW)

Engine power plants



Addressable annual market (GW)

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



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
- Running hours have remained stable even with the growth of balancing

56 © Wärtsilä



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

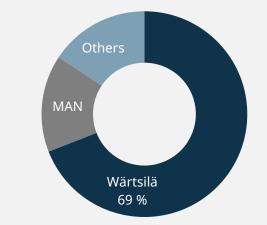
Modelling supports Wärtsilä go to market approach

- 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

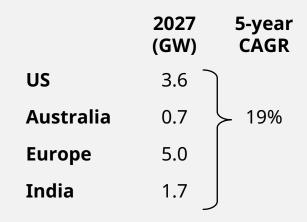
Engine market shares ¹⁾



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⁾



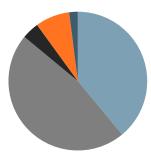
 Additional potential in markets like Brazil, Argentina, China, Japan and Vietnam

2) Based on BloombergNEF ETS and Wärtsilä data

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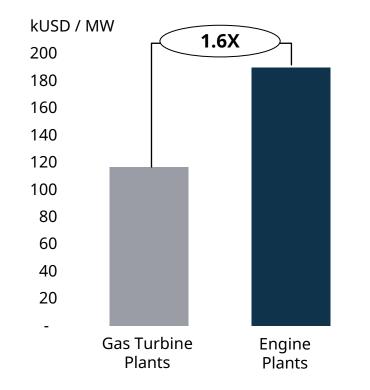
Case Texas shows future trends. Increasing renewables creates need for balancing with engines outperforming competing technologies

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



- Solar and wind 39%
 Fossil fuel baseload 47%
 Nuclear 4%
 Thermal balancing 8%
 Energy storage 2%
- 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

WARTS

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

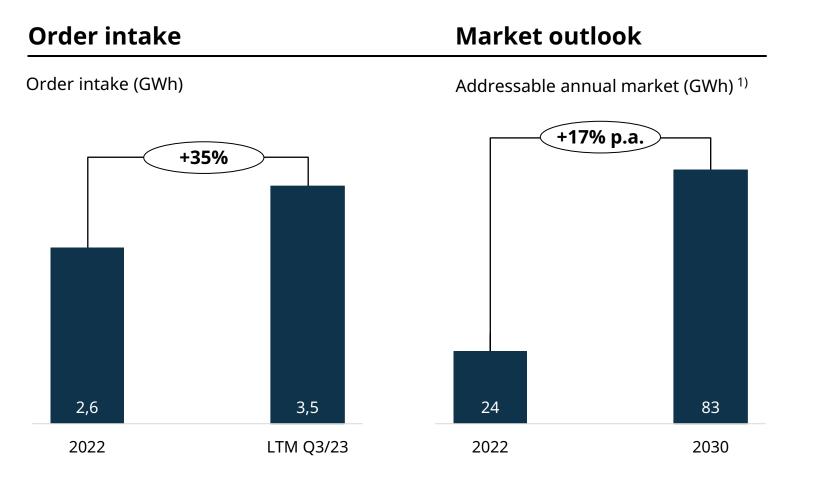
Similar conditions forming in:

- 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



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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

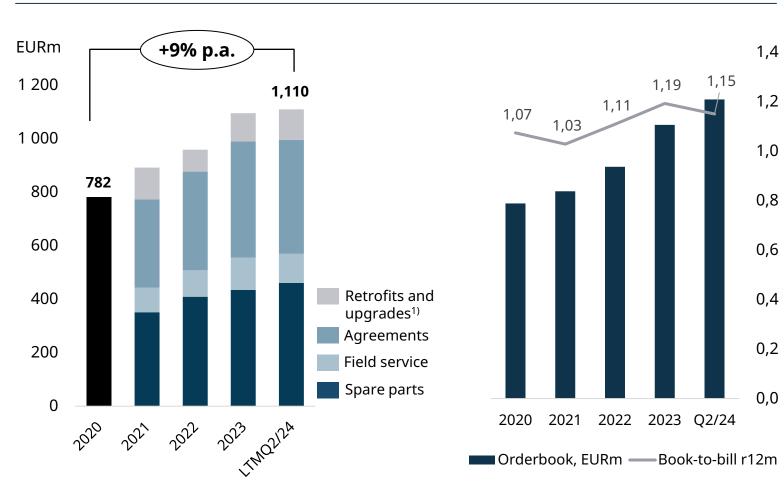


1) Net Sales LTM Q3 2023 vs. 2021

Good performance in Services with a solid foundation for future growth

Growing Service Net sales

All time high orderbook & strong book-to-bill



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+24% total Services sales 2021–LTM Q2/2024

+29% Service agreements sales 2021–LTM Q2/2024

+40% total orderbook 2020–2023

Energy services growth drivers remain solid

- Increasing agreement coverage
- Growing installed base
- Upgrades & sustainable fuel conversion demand
- Growth potential in outcome-based and decarbonisation agreements
- Stable total running hours

1) Referred to as Service Projects in the interim reports

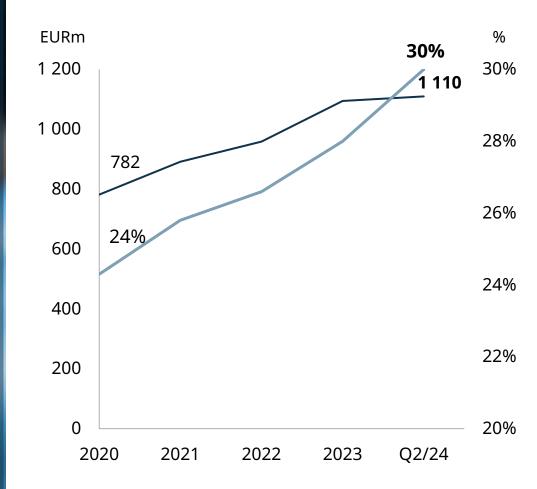
GG

Our strategic focus to increase lifecycle agreement coverage is generating growth in Energy

> **Anders Lindberg** President, Energy

55

Increasing agreement coverage is supporting growth



- Agreement coverage of installed base (%)
- Service Net Sales (LTM Q2/2024)

30% agreement coverage High agreement renewal rate for existing customers **>90% renewal rate** LTM Q2/24

Increasing share of agreement

customers in our installed base

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Sales to installations under agreement account for **56% of net sales** (2023)

Decarbonisation Services provide new growth opportunities

Decarbonisation Services optimises microgrids by integrating



∜□□

Energy Management Systems

Engine Power Plants



إ

Battery Energy Storage

Customer's renewable power generation



into outcome-based agreements

Our target customers are captive microgrids in the industrial segment and small-scale island utilities, with requirements in:

grid efficiency, reliability, and sustainability

Our modelling shows that customers face challenges with optimising microgrids even at low renewable penetrations. As share of renewables grow, grid reliability constraints further complicates optimisation for **lowest CO2 and Levelised Cost of Electricity**



Out of our installed base, approximately 23% or 14 GW is addressable for Decarbonisation Services.

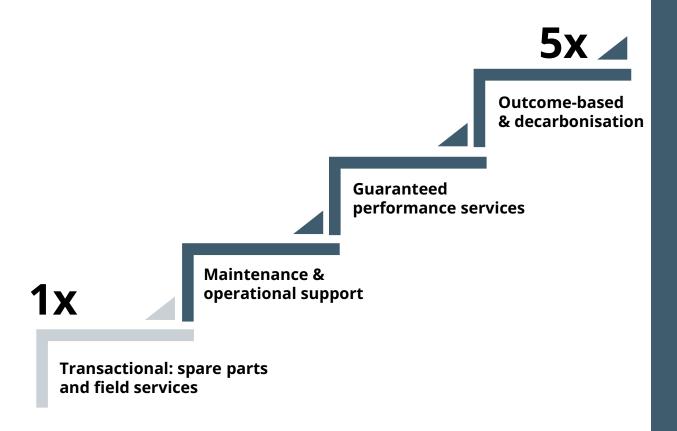
In addition, as a part of new microgrid investments, we see an increasing interest for decarbonisation services



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

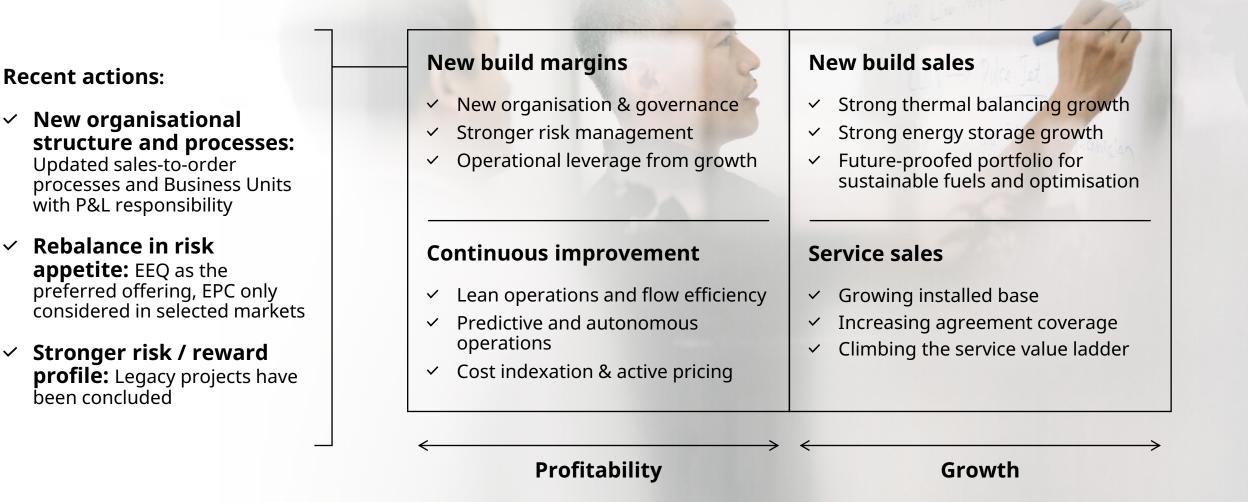
Moving customers up the service value ladder

- 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





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.



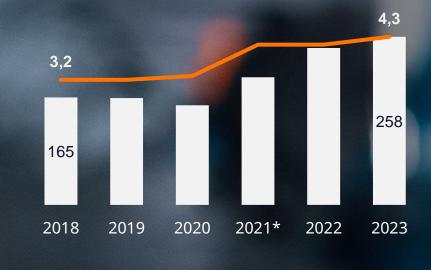
R&D





MMO 2 WÄRT

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



R&D expenditure, MEUR ——% of net sales

* 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

		2023	2024	2025	
	Diesel				
	FAME/HVO ¹⁾				
	LNG				
	Bio-methane				
	Synthetic methane				
Engines	LPG				
	Methanol				
	Ammonia				
	Hydrogen blends				
	Hydrogen 100%				
Flactwic	Hybrid				
Electric	Full electric	Short sea / inland waterways			
Carbon capture system					
Fuel cells		Through partnering			
Energy sa	aving technology				

- 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,
- 100% hydrogen-ready power plant engine technology was launched in Q2 2024, available for orders in 2025

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

Q3 2024 development



WÄRTSILÄ

29 October 2024



Improved net sales, profitability and cash flow



- Net sales increased by 18%
- Continued strong order book (7,583 MEUR)
- Comparable operating result increased by 41%
- Good progress in services continued:
 - Service order intake increased by 4%
 - Service net sales increased by 6%
- Strong cash flow from operating activities (296 MEUR)

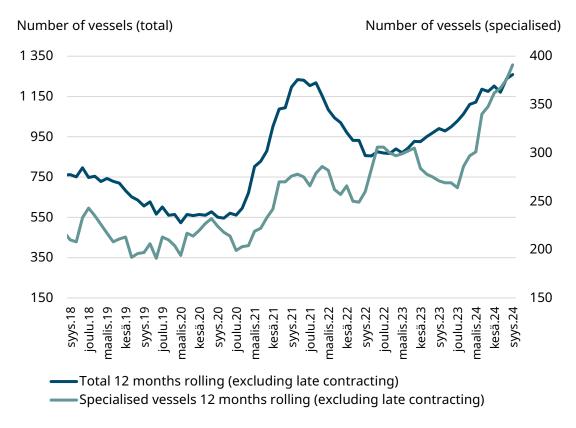


Marine: market sentiment is positive for Wärtsilä's key segments

Increase in demand for new ships in the third quarter

- The number of vessels ordered in the review period increased to 1,953 (1,356 in the corresponding period in 2023, excluding late reporting of contracts).
- Despite growth in shipyard capacity and output (especially in China and South Korea), newbuild shipyard capacity utilisation remains high, indicating that a shortage of yard capacity still exists.
- Global shipyard capacity is currently at ~70% of 2011 peak level and could increase to 80-85% by 2030 mainly driven by yard reactivations and expansions in China which has accounted for around three quarters of announced capacity increases since 2021.
- The positive trend in interest for alternative fuels continued with 486 orders for alternative fuel capable ships reported between January-September, accounting for 25% (23) of all contracted vessels and 49% (44) of vessel capacity.
- Strong growth in demand and a positive outlook has driven cruise newbuild ordering while containership newbuild investments have increased in recent months as shipowners continue to renew their aging fleets.

Total and specialised vessel contracting



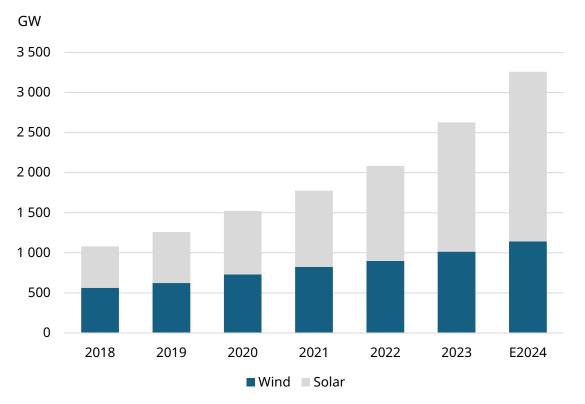
Source: Clarksons Research, 12m rolling contracting as per 4th of October 2024 (+100 gt, excluding late reporting of contracts) Specialised vessels include LNG carriers, LPG carriers, cruise & ferry, offshore, and special vessels.



Energy: solid long-term market opportunities

Rising protectionism and decreasing inflation impact energy markets in the third quarter

- Macroeconomic development continued to be impacted by protectionism and elevated risks in the geopolitical environment creating uncertainty and slower decision making.
 - The Inflation Reduction Act has boosted the outlook for clean energy deployment in the US, while policies such as domestic content requirements or import tariffs hurt the outlook for the energy transition.
- Global natural gas prices continued to increase moderately.
- The demand for balancing has been strong during 2024, while demand for baseload has been stable.
- In October 2024 DNV's Energy Transition Outlook predicted peak in energy-related emissions to be reached this year.
- The rapid growth of AI is having sizable impact on the global electricity demand for data centers. Today data centers account for approximately 1–2% of global electricity demand, potentially doubling in share by 2026.*



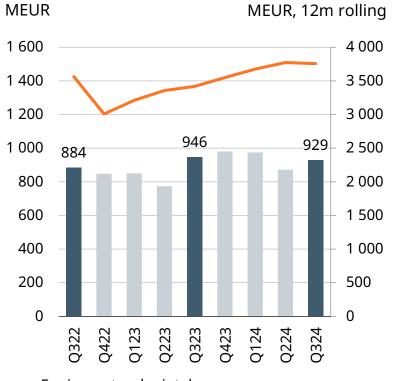
Development on installed wind and solar capacity *

*Source: IEA Renewables 2024 - Renewable Energy Progress Tracker

Organic order intake increased by 4%

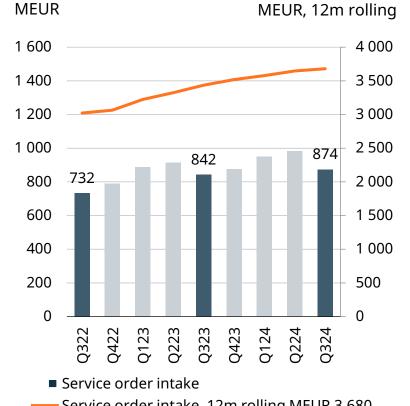


Equipment



Equipment order intake Equipment order intake, 12m rolling MEUR 3,756

Services



Service order intake, 12m rolling MEUR 3,680

Order intake increased by 1%

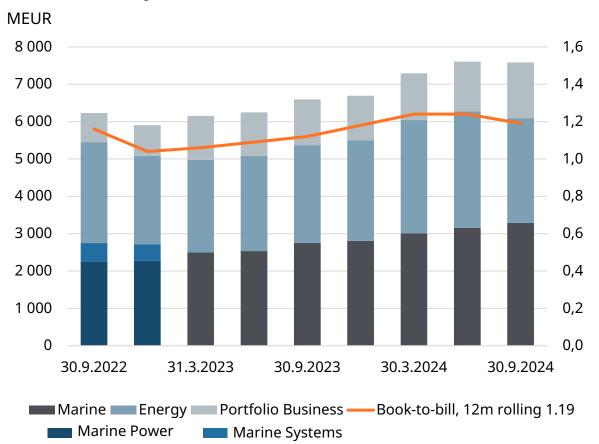
Equipment order intake decreased by 2%, primarily driven by timing of Energy Storage & Optimisation orders

Service order intake increased by 4%

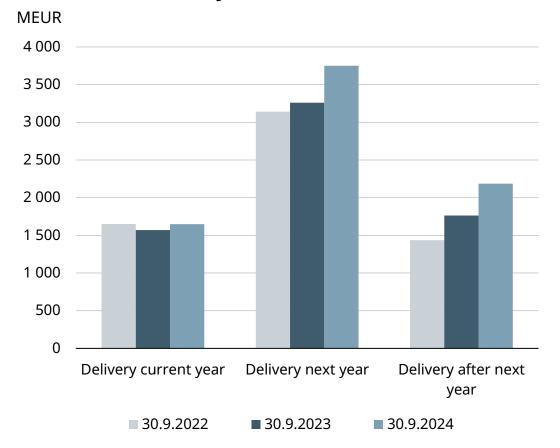


Strong order book, rolling book-to-bill continues above 1

Order book by business



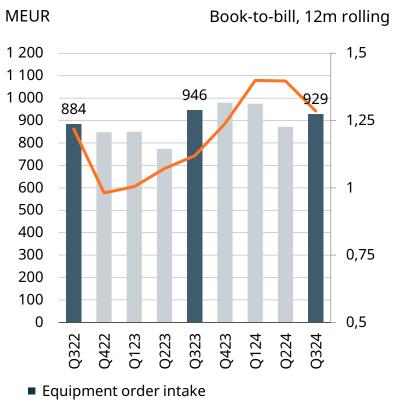
Order book delivery schedule



Financial figures for 2023 have been restated to reflect a redefined organisational structure after discontinuation of Marine Systems as a reporting segment as of 1 January 2024. Gas Solutions business unit was moved to Portfolio Business for divestment, and Exhaust Treatment and Shaft Line Solutions business units were moved from Marine Systems to Marine Power and consequently, Marine Power changed its name to Marine as of 1 January 2024. 2022 figures are 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.

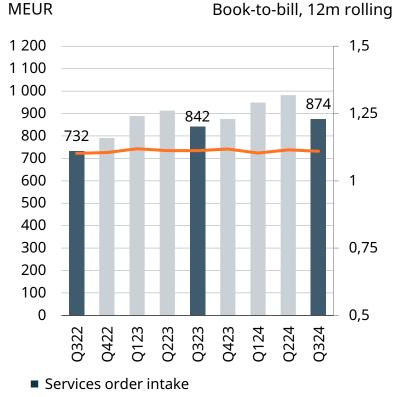
Book-to-bill above 1 in both equipment and services

Equipment



Equipment book-to-bill, 12m rolling 1.29

Services



— Services book-to-bill, 12m rolling 1.11

Rolling book-to-bill (12m) stood at 1.19 at the end of the third quarter

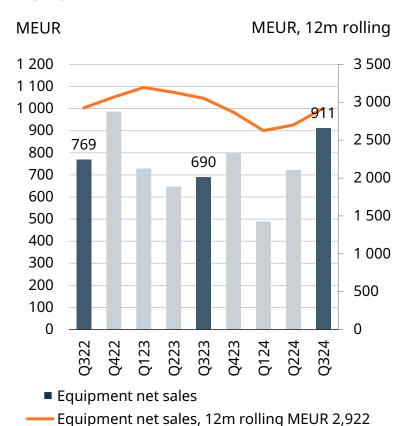
WÄRTSILÄ

Rolling book-to-bill (12m) for equipment was 1.29

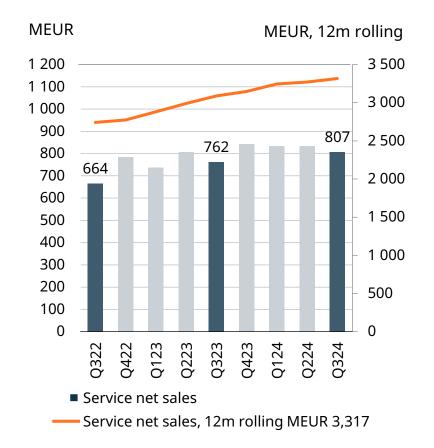
Rolling book-to-bill (12m) for services was 1.11

Organic net sales increased by 21%

Equipment



Services



Net sales increased by 18%

WÄRTSILÄ

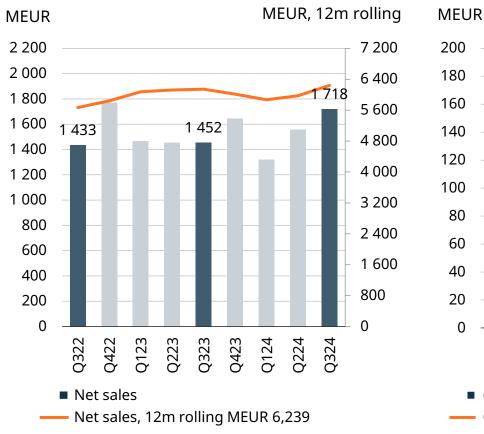
Equipment net sales increased by 32%

Service net sales increased by 6%

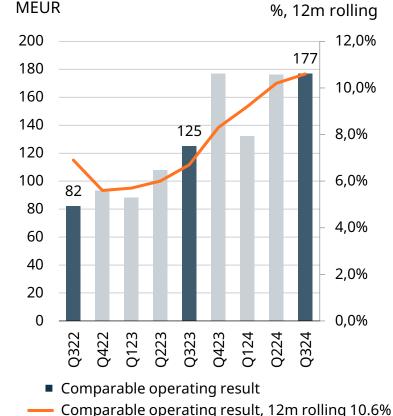
WÄRTSILÄ

Profitability continued to improve

Net sales



Comparable operating result



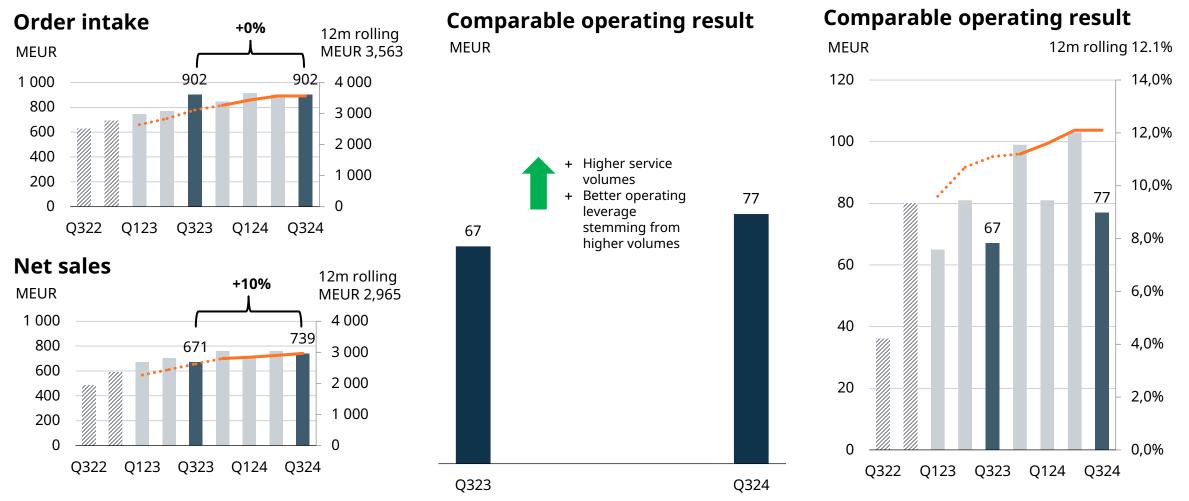
Net sales increased by 18%

Comparable operating result increased by 41%



Marine: Good performance continued

Net sales and comparable operating result increased



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.

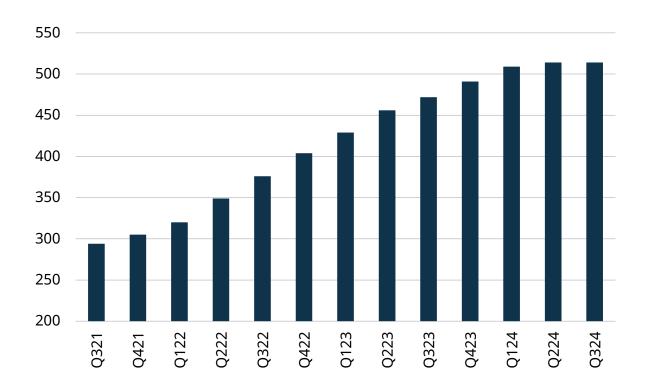
As financial figures prior to 2023 have not been restated to account for the current organisational structure, the non-comparable figures are marked with dashed columns and a dashed line.



Good development in Marine service

Marine net sales to agreement installations was stable at over 500 MEUR in Q3

Net sales to agreement installations (12 month rolling)¹⁾ MEUR, 12m rolling



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

Wärtsilä and Royal Caribbean Group sign Lifecycle Agreement to accelerate sustainability goals

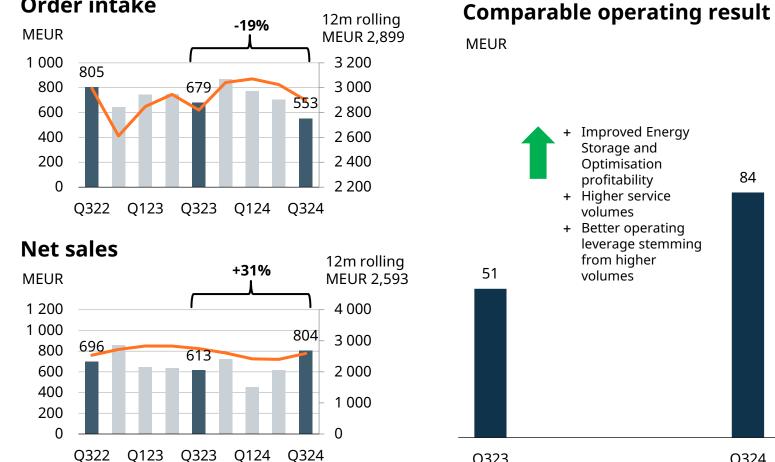
- Wärtsilä signed a 5-year Lifecycle Agreement with Royal Caribbean Group covering 37 of the company's cruise ships.
- The agreement is designed to optimise the performance, reliability and availability of the ships' engines, ensuring the highest level of operational efficiency.
- The contract covers both scheduled and unscheduled maintenance, as well as Wärtsilä's Expert Insight service.
- A performance-based model is also implemented, meaning that gains resulting from best operation and maintenance practices will be shared between Royal Caribbean Group and Wärtsilä, further highlighting the collaborative efforts.
- To be booked in Q4 order intake.

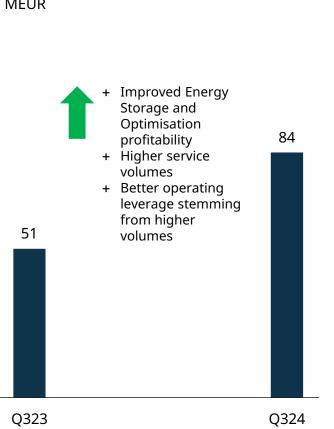


Energy: Comparable operating result increased

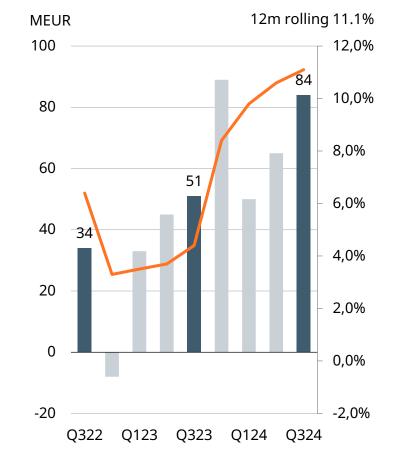
Equipment orders and deliveries grew clearly in Engine Power Plants

Order intake





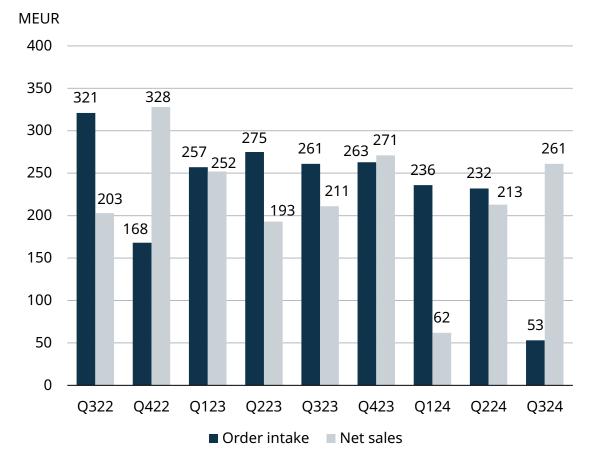
Comparable operating result



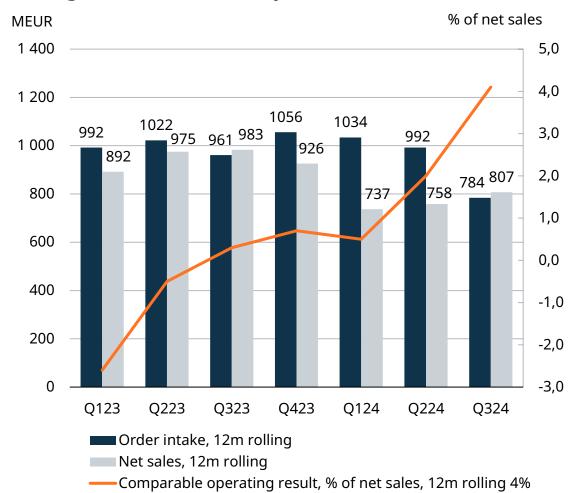


Energy Storage & Optimization: Comparable operating result margin (12m rolling) continued to improve while the order intake is lumpy

Quarterly development



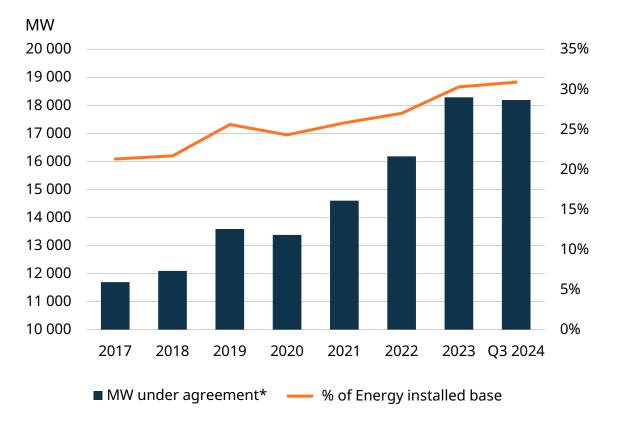
Rolling 12 months development



Agreement coverage in Energy continues to grow



MW under agreement globally



Wärtsilä strengthens commitment to Zambia with O&M agreement renewal for Ndola power plant

- Wärtsilä has signed a renewal of its Operations & Maintenance (O&M) agreement covering the 105 MW power plant owned by Independent Power Producer Ndola Energy Company Ltd (NECL) in Zambia.
- The previous agreement had been in force since 2013.
- The plant operates with twelve Wärtsilä 32 engines, including six equipped with two-stage turbocharging technology. Hydropower is the main source of electricity in Zambia.

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



Strong cash flow from operating activities

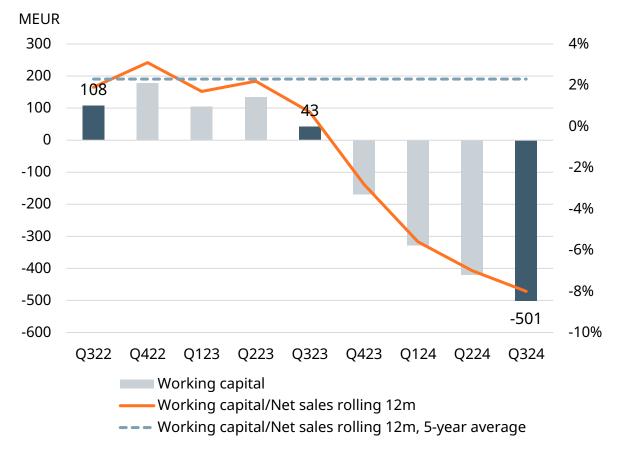
MEUR MEUR, 12m rolling -100 -200 Q322 Q422 Q123 Q223 Q323 Q423 Q124 Q224 Q324

Cash flow from operating activities

Cash flow from operating activities

— Cash flow from operating activities, 12m rolling MEUR 1,160

Working capital to net sales ratio





Prospects



Marine

 Wärtsilä expects the demand environment for the next 12 months (Q4/2024–Q3/2025) to be better than that of the comparison period.

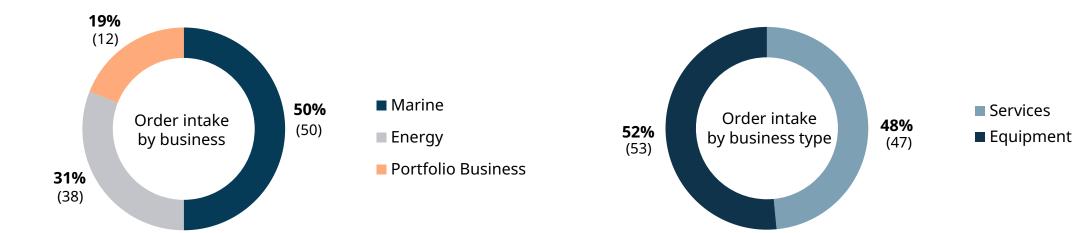
Energy

 Wärtsilä expects the demand environment for the next 12 months (Q4/2024–Q3/2025) to be better than that of the comparison period.

Order intake

Third quarter development

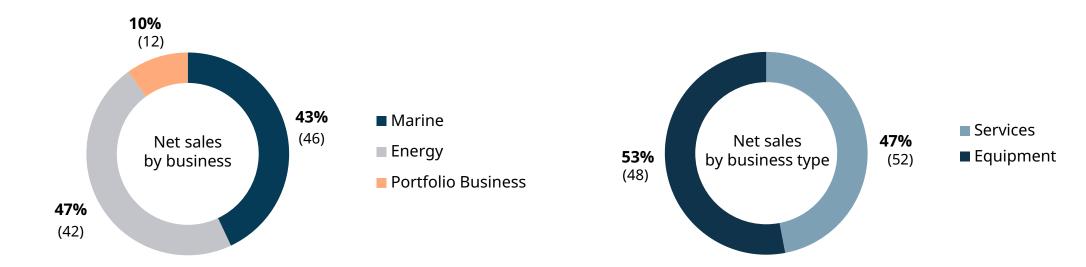




WÄRTSILÄ

Net sales

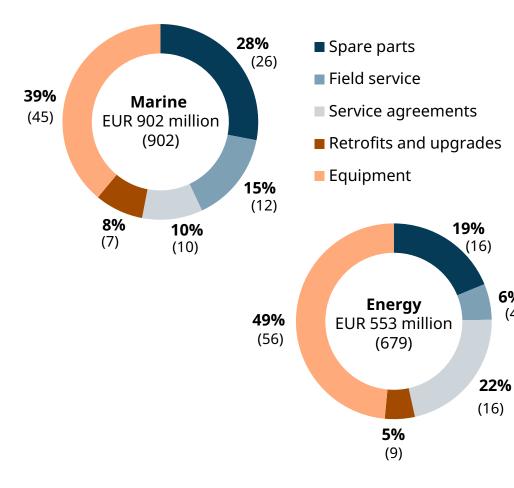
Third quarter development





Third quarter development by business type

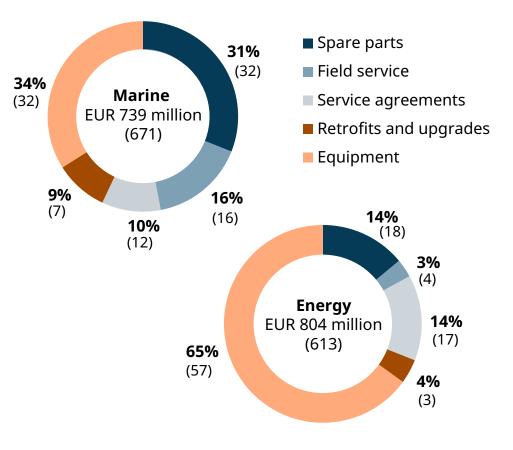
Order intake



Net sales

6%

(4)





January–September order intake by customer segment

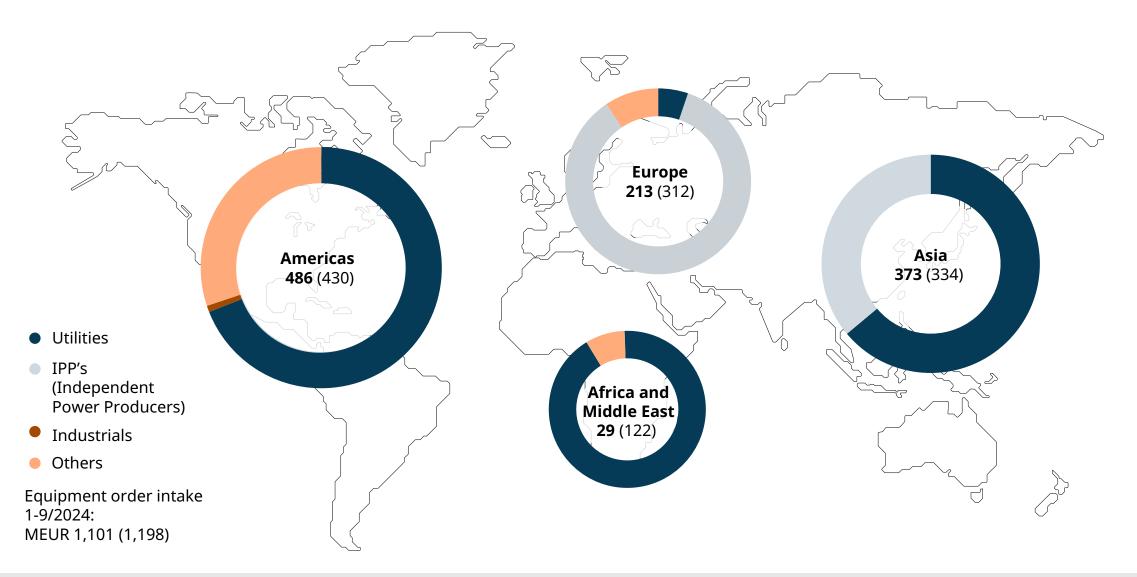
Marine

	Gas carriers	Cruise & ferry	Offshore	Navy	Special vessels	Merchant	Other
Equipment	6% (9)	23% (26)	5% (6)	6% (10)	11% (3)	44% (42)	4% (4)
Services	13% (14)	22% (22)	17% (18)	11% (8)	10% (11)	26% (25)	1% (2)
Total	10% (12)	22% (23)	13% (13)	9% (9)	11% (8)	33% (31)	2% (3)

Energy					
Lifergy	Utilities	Independent Power Producers	Industrials	Other	
Equipment	56% (59)	29% (30)	0% (10)	15% (0)	
Services	32% (33)	33% (32)	23% (22)	12% (13)	
Total	32% (33)	33% (32)	23% (22)	12% (13)	



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









2030

Decarbonising our own operations requires a wide range of actions "SET FOR 30"

2021

OUR MAIN DECARBONISATION INITIATIVES



[4 -

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(4)

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







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



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 October 2024 (CMi2i quarterly update)

#	Name	Shares	Share %
1	Invaw Invest AB	104,711,363	17.70%
2	Keskinäinen Työeläkevakuutusyhtiö Varma	26,543,252	5.37%
3	BlackRock Fund Advisors	19,515,247	3.30%
4	The Vanguard Group, Inc.	18,452,416	3.12%
5	Keskinäinen Eläkevakuutusyhtiö Ilmarinen	16,823,037	2.84
6	Keskinäinen Työeläkevakuutusyhtiö Elo	9,193,739	1.55
7	Amundi Asset Management SA (Investment Management)	8,396,000	1.42
8	BlackRock Advisors (UK) Ltd.	7,139,352	1.21
9	SSgA Funds Management, Inc.	7,137,297	1.21
10	BlackRock Investment Management (UK) Ltd.	6,857,544	1.16
11	Marathon Asset Management Ltd.	5,870,779	0.99
12	Acadian Asset Management LLC	5,857,139	0.99
13	Arrowstreet Capital LP	5,496,337	0.93
14	Legal & General Investment Management Ltd.	5,448,326	0.92
15	UBS Asset Management (UK) Ltd.	5,066,425	0.86
	Total Top 15	252,508,253	42.67%



For more information, visit our <u>Investors</u> page

WÄRTSILÄ

Next upcoming IR events

- 10.12. CEO Strategy call
- 11.12. Nordea Capital Goods Week
- 11.12. IR Theme call: Energy (Engine Power Plants)
- 8.1. SEB Nordic Seminar
- 9.1. Pre-silent call with the CFO

Wärtsilä Investor Relations

Hanna-Maria Heikkinen, Vice President, Investor Relations tel. +358 10 709 1461, email: <u>hanna-maria.heikkinen@wartsila.com</u>

Samu Heikkilä, Senior Manager, Investor Relations tel. +358 10 709 1121, email: <u>samu.heikkila@wartsila.com</u> Maija Hongas, Senior Manager, Investor Relations tel. +358 10 709 3178, email: <u>maija.hongas@wartsila.com</u> Noora Suni, Investor Relations Specialist tel. +358 10 709 1101, email: <u>noora.suni@wartsila.com</u>

Meeting requests

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



Appendix

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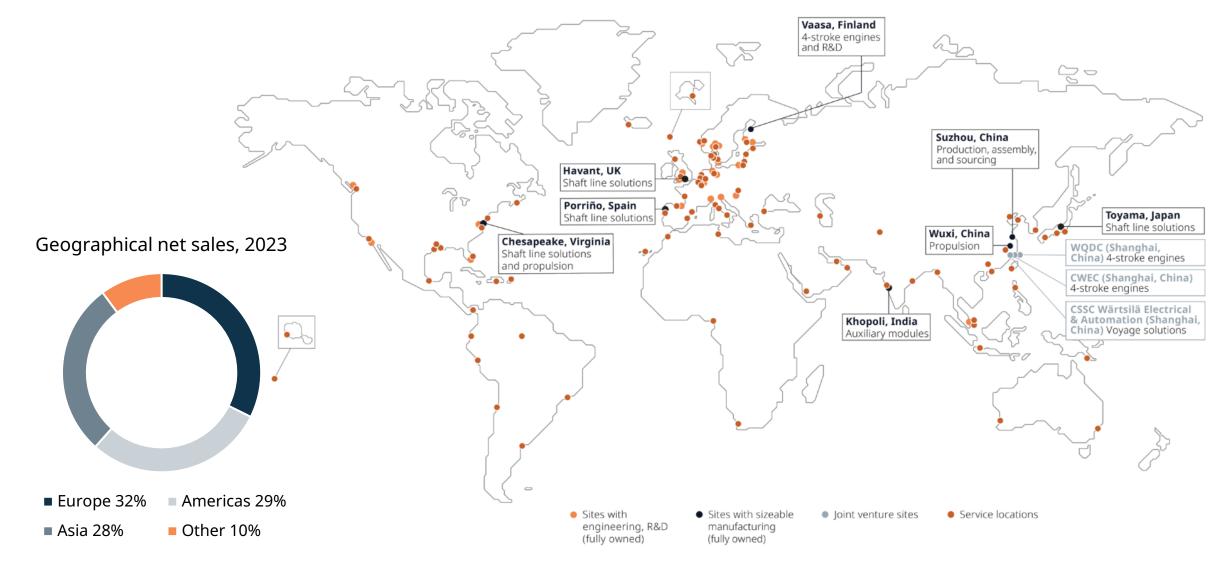


Main competitors

Engines	Other marine solutio	ons Other energy solutions
MAN Himsen Rolls-Royce	Kongsberg Alfa Laval GE Siemens Schottel	GE Siemens Tesla Fluence
Marin	ne businesses	Energy
Ship Ship n co Ch Sł	nanagement	Utilities ndent Power Producers (IPPs) dustrial customers



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



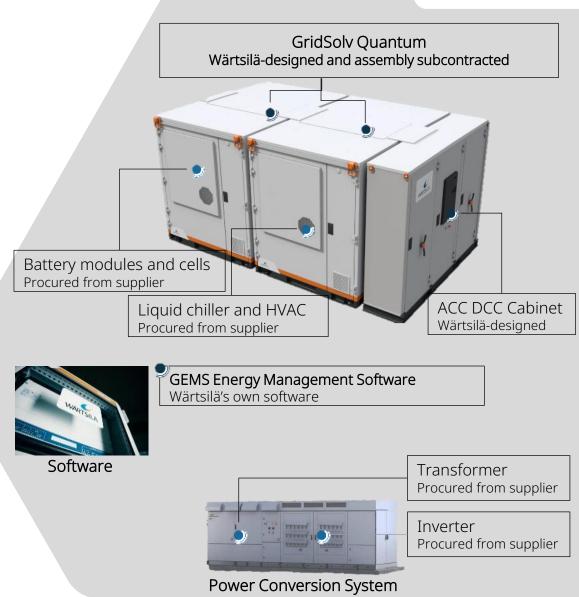


Wärtsilä Energy Storage offering

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.
- 2 Our project execution team manages **full installation and integration** at the customer's site(s).
- 3 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 fullyintegrated 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 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

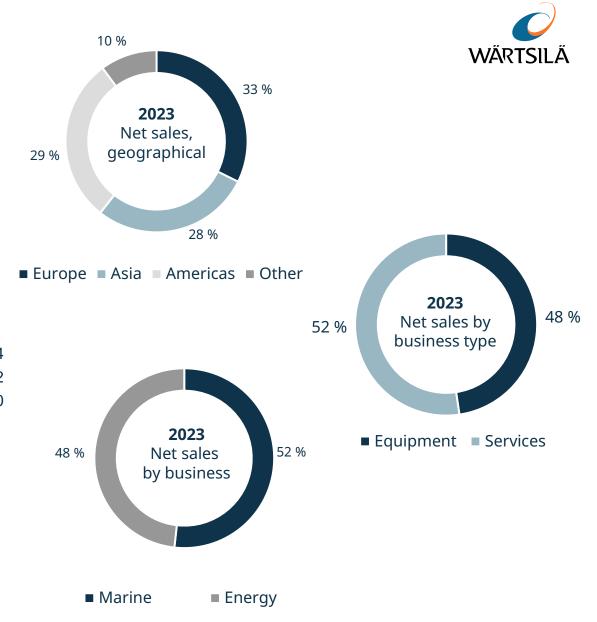
Comparable operating result 497 MEUR 8.3% of net sales

Operating result 402 MEUR 6.7% of net sales

Cash flow from operating activities **822 MEUR**

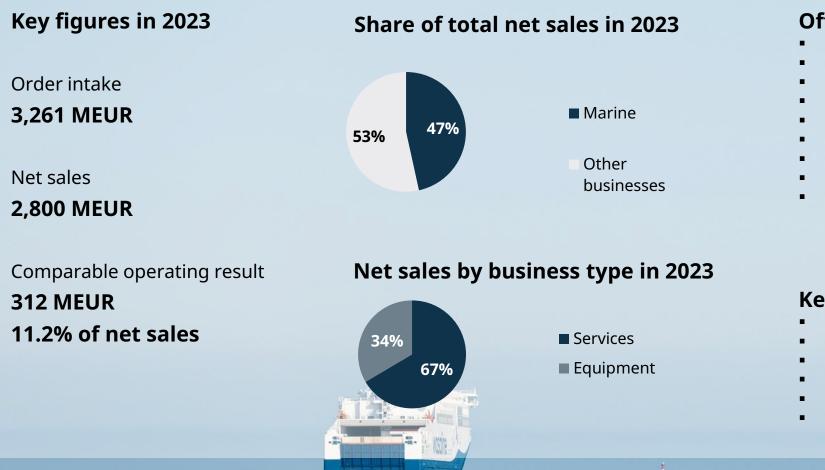
Personnel **17,800**







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



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

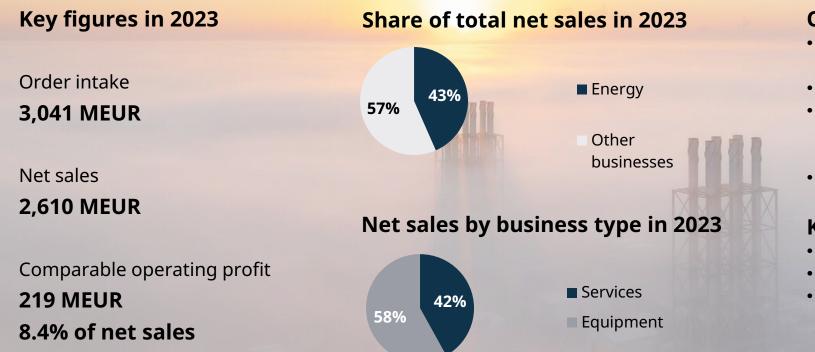
Key customer segments

- 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





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

