## 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.

#### 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
  - **Energy Engine Power Plants new build driven by balancing and baseload:** Gradual shift to renewables
- **Ortfolio 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, up to 25% hydrogen blends, pure ammonia fuel engine concept

**By 2025:** pure hydrogen fuel engine concept ready





### **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 <sup>1)</sup>
- Gradual replacement of coal
- Renewables expected to become the largest source of global electricity by early 2025 <sup>2)</sup>
- 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%<sup>1)</sup> in services
  - +17% in thermal balancing installed base
  - 3X<sup>1)</sup> 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

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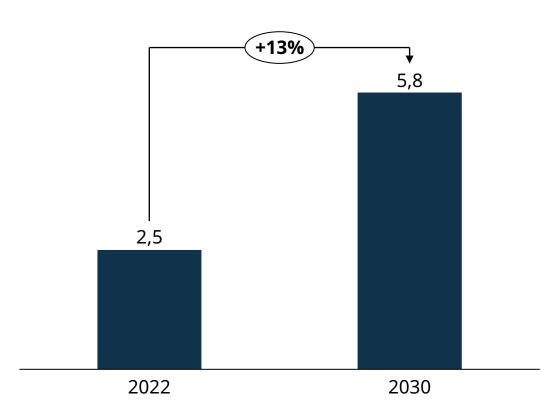


# Transform – attractive growth opportunities at the center of the decarbonisation transformation

## 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)<sup>1</sup>; 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 2030<sup>2</sup>)
- 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 consumption<sup>1)</sup>
- Lower maintenance costs compared to 2-stroke



Pioneer in carbon capture & storage

- Complementary technology to engines
- EUR ~10bn market opportunity in the next 10 years<sup>2)</sup>
- 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	<ul> <li>Thermal balancing market is expected to grow +4X by 2030 driven by accelerating intermittent baseload. US is an important market for thermal balancing</li> </ul>
<b>+19%</b> 22	+17%	<ul> <li>Power generation related regulatory changes support uptake of thermal balancing (US Federal and State bills, EU electricity market reform and China market reform)</li> </ul>
		<ul> <li>Sustainable fuels together with flexible engine power plants balance grids in an affordable and sustainable way, also for longer shortages in intermittent renewable generation</li> </ul>
5	24	<ul> <li>Energy storage incentives in the US (IRA<sup>1)</sup> investment and production tax credits) support the energy storage market growth. Local regulatory changes in general support the uptake of energy storage</li> </ul>
2022 2030	2022 2030	-

Source: BNEF, Wärtsilä estimates 1) Inflation Reduction Act



## 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 plants<sup>1)</sup>

- 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



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 +30X<sup>1</sup> 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



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 base<sup>2)</sup> 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



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 <sup>1)</sup>	Share of absolute growth
<ul> <li>Energy Storage &amp; Optimisation         <ul> <li>Fast growing demand for energy storage and power system optimisation solutions</li> </ul> </li> </ul>	$\textcircled{\bullet} \textcircled{\bullet} \textcircled{\bullet}$
<ul> <li>Marine newbuild driven by decarbonisation</li> <li>Uptake of solutions ready for sustainable fuels, and recovery in passenger and offshore segmer</li> </ul>	• •
<ul> <li>Moving up the service value ladder in Marine and Energy         <ul> <li>Continuous growth in agreement coverage</li> <li>Decarbonisation-driven retrofits</li> </ul> </li> </ul>	٠
<ul> <li>Energy Engine Power Plants new build driven by balancing and baseload</li> <li>Gradual shift to renewables</li> <li>The focus on offering equipment rather than EPC decreases revenue expectations but improves our risk profile</li> </ul>	•
<ul> <li>Portfolio Business divestments         <ul> <li>Gas Solutions, ANCS, Water &amp; Waste, and Marine Electrical Systems</li> </ul> </li> </ul>	$\Theta \Theta$

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%<sup>1)</sup>

Drivers of improved profitability <sup>2)</sup>	Share of absolute improvements
<ul> <li>Moving up the service value ladder in Marine and Energy</li> </ul>	$\textcircled{\bullet} \textcircled{\bullet} \textcircled{\bullet}$
<ul> <li>Marine new build driven by decarbonisation</li> </ul>	••
<ul> <li>Energy Engine Power Plants new build driven by balancing and baseload</li> </ul>	••
<ul> <li>Energy Storage &amp; Optimisation</li> </ul>	٠
<ul> <li>Portfolio Business divestments</li> </ul>	۲
<ul> <li>Continuous improvement</li> <li>Cost inflation &amp; related price adjustments</li> </ul>	<b>}-&gt;0</b>

### 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

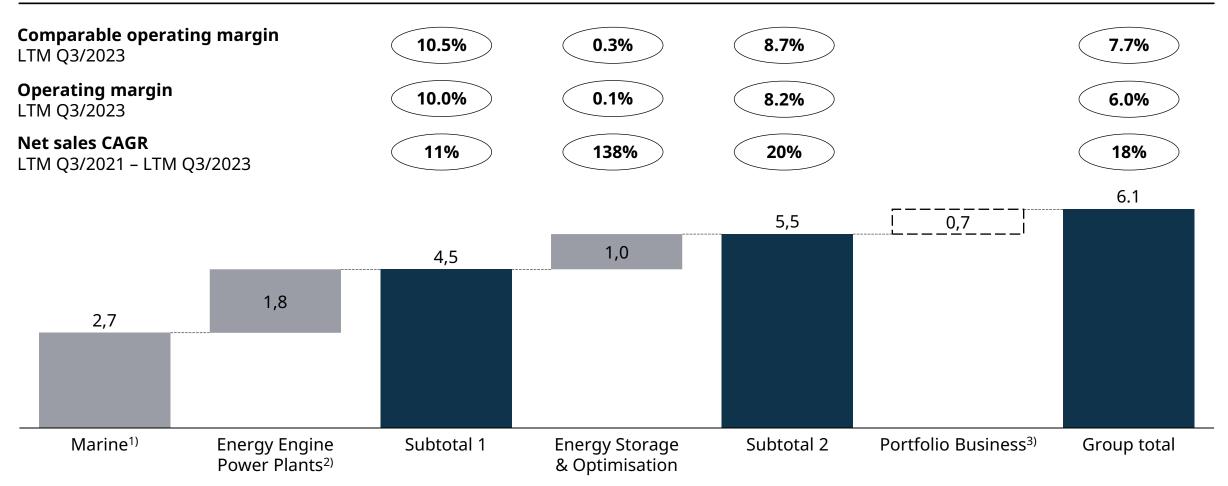
LTM Q3/2023	Group total	Group total excl. Portfolio Business
Net sales, EURm	6,142	5,480
Comparable operating margin <sup>1)</sup>	7.7%	8.7%
Operating margin <sup>1)</sup>	6.0%	8.2%

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

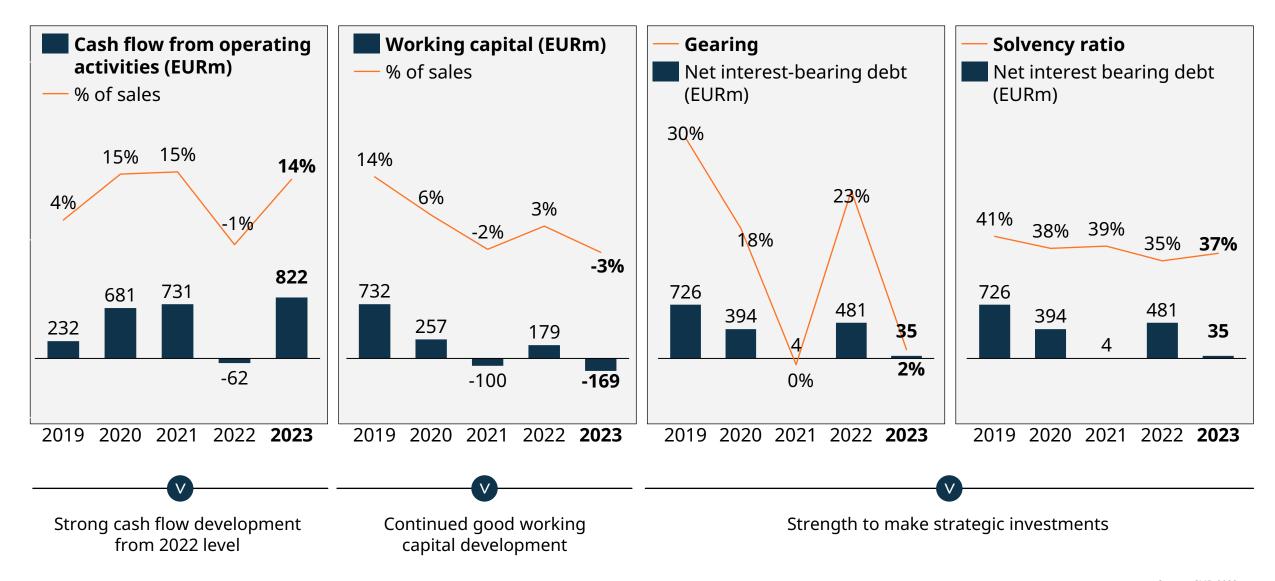
- Continued decarbonisation in both the energy and marine markets
- Good service performance
- Strong order book both in new equipment and services
- Profitability improvements in Energy Storage and former Voyage Business
- Improved capacity utilisation
- Continued cost optimisation

### + – Uncertainties

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

- Negative factors
- Wage inflation

### Strong balance sheet and financial position to support strategy execution



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

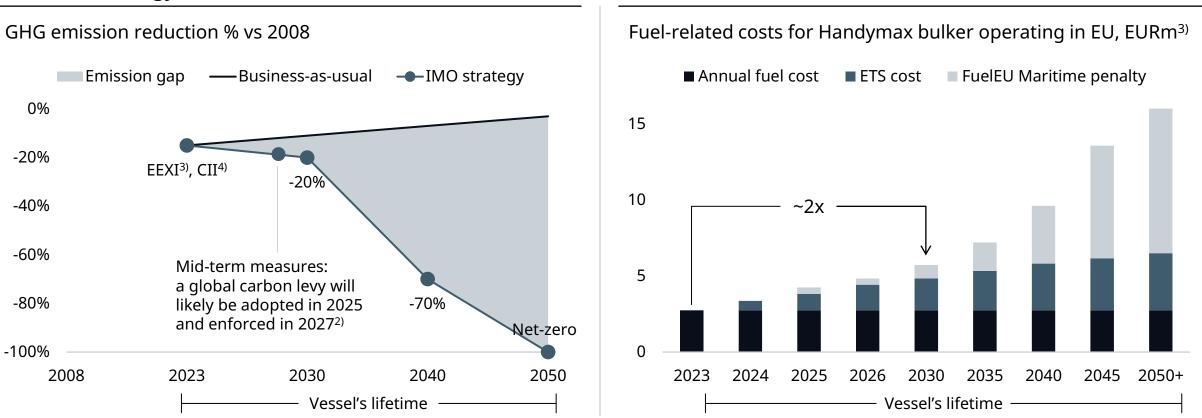




## After IMO net-zero commitment last year, the regulatory focus has moved to "mid-term measures"

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

#### IMO GHG Strategy<sup>1)</sup>

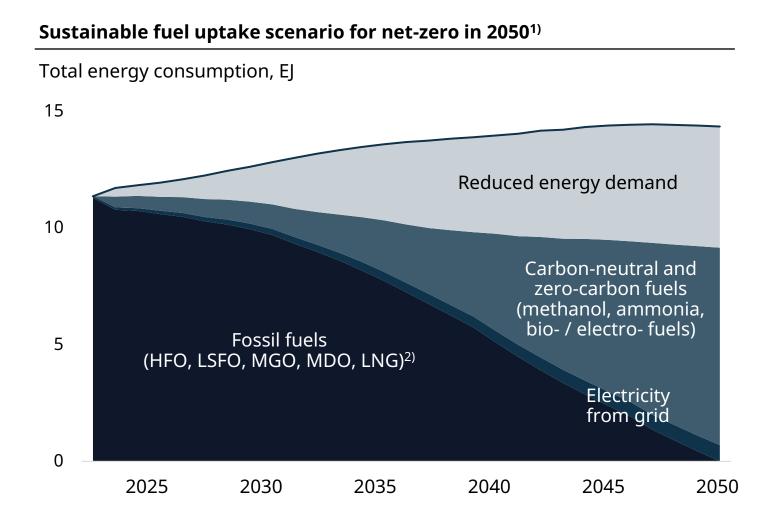


EU Fit-for-55

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)



### 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, ESTs<sup>3)</sup> are growing:
  - 37% of the tonnage on orderbook is fitted with at least 1 EST<sup>3)</sup>
  - 129 hybrid / full-electric 2 000+ GT vessels were ordered in LTM (compared to 99 in 2022 and 55 in 2019)

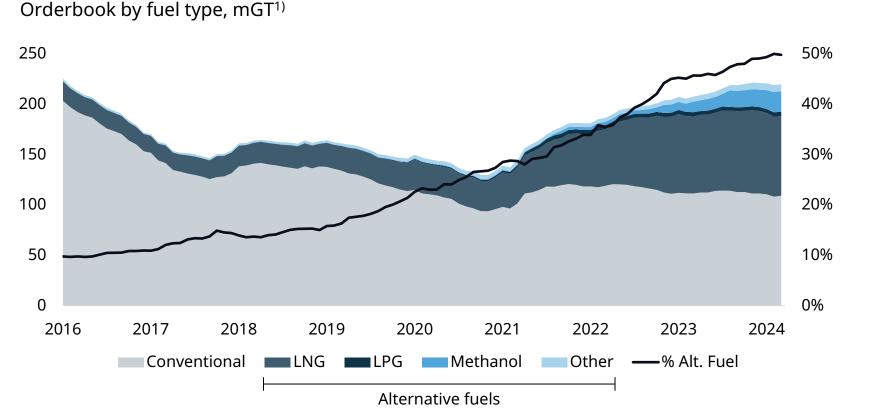
1) Source: DNV Maritime Forecast 2050; 2) HFO – Heavy Fuel Oil; LSFO – Low Sulphur Fuel Oil; MGO – Marine Gas Oil; MDO – Marine Diesel Oil; 3) Energy Saving Technology



# 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





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

~60%

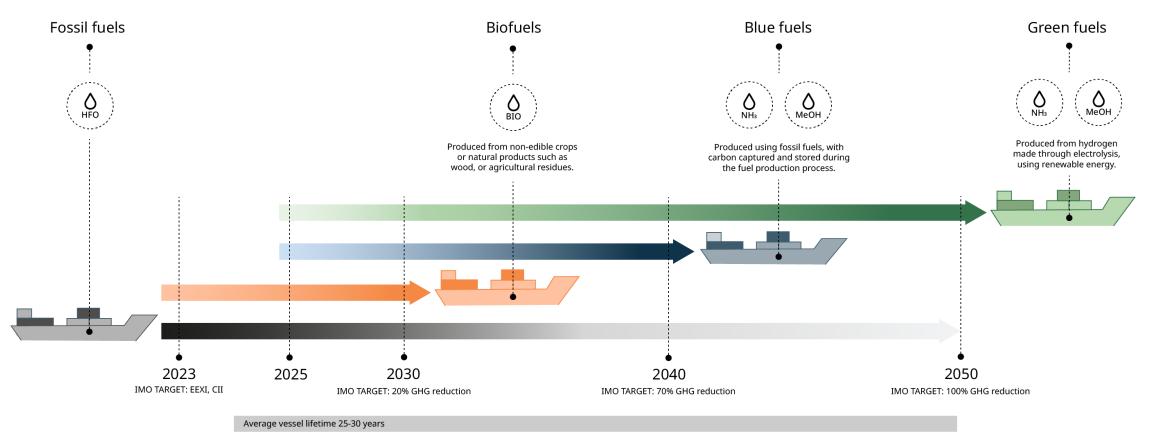
containerships contracted in 2023 -2024 YTD are set to run on methanol

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

		LING I		NH2	LH2 LH2 LH2	and the second s	
Fuel type	Low Sulphur Fuel Oil @ 20°C	Liquified Natural Gas @ -162°C	Methanol @ 20°C	Ammonia @ -33°C	Liquid Hydrogen @ -253°C	<b>Compressed</b> <b>Hydrogen</b> @ 350bar	Marine Battery Rack
Fuel price factor (per GJ) <sup>1)</sup>	1x	1.1x – 4.6x <sup>2)</sup>	2.6x – 5.5x <sup>3)</sup>	2.4x - 4.3x <sup>4)</sup>	3.6x - 4.6x <sup>4)</sup>	2.1x - 3.1x <sup>4)</sup>	2.0x – 5.3x <sup>8)</sup>
Fuel price factor in 2035, incl. carbon tax <sup>1) 5)</sup>	1x	0.8x - 1.4 <sup>2)</sup>	0.8x – 1.6x <sup>3)</sup>	0.7x – 1.2x <sup>4)</sup>	1.2x – 1.5x <sup>4)</sup>	0.6x – 1.0x <sup>4)</sup>	0.8x – 2.0x <sup>8)</sup>
Gross tank size factor <sup>6)</sup>	1x	1.7x – 2.4x <sup>7)</sup>	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



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

	Cruise	Ferries	Offshore	Navy	Specials	Merchant	Hy-El merchant
Engines / Hybrid <sup>1)</sup>	Diesel-Electric	Main Engines Aux Engines Hybrid System	Hybrid-Electric	Aux Engines	Main Engines	Aux Engines Main Engines <sup>5)</sup>	Hybrid-Electric
Propulsion <sup>2)</sup>	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 <sup>3)</sup>	EUR 15-40m	EUR 10-25m	EUR 5-15m	EUR 5-15m	EUR 5-15m	EUR 2-15m	EUR 25-30m
% of Order In	itake <sup>4)</sup> ~2	5%	~5%	~10%	~5%	~50%	-

Typical Wärtsilä Marine offering per vessel<sup>1)</sup>

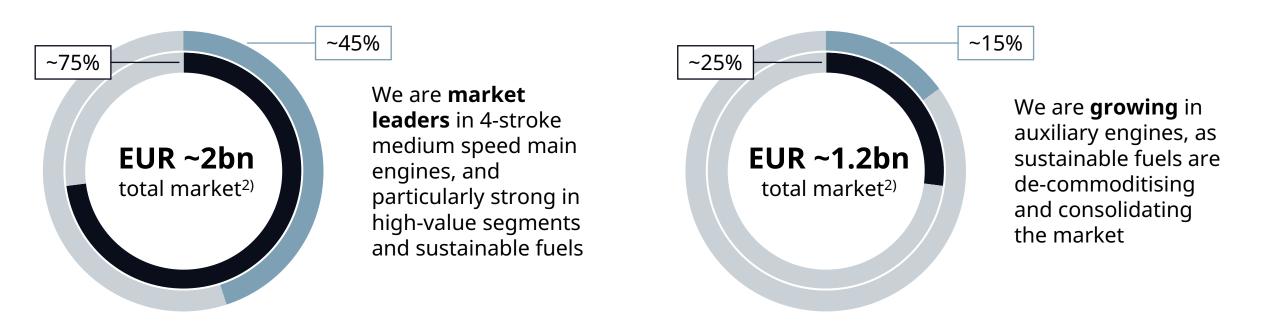
1) Non-exhaustive list; offering depends on vessel specific configuration and may vary substantially. 2) CPP/FPP = Controllable/Fixed Pitch Propeller; EST = Energy Saving Technology, e.g., gate rudder, EnergoProFin, EnergoFlow, EnergoPac; 3) Potential per shipset; it includes catalyst systems and electrical 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



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

4-stroke medium speed main engines market share<sup>1)</sup>

Auxiliary engines market share<sup>1)</sup>



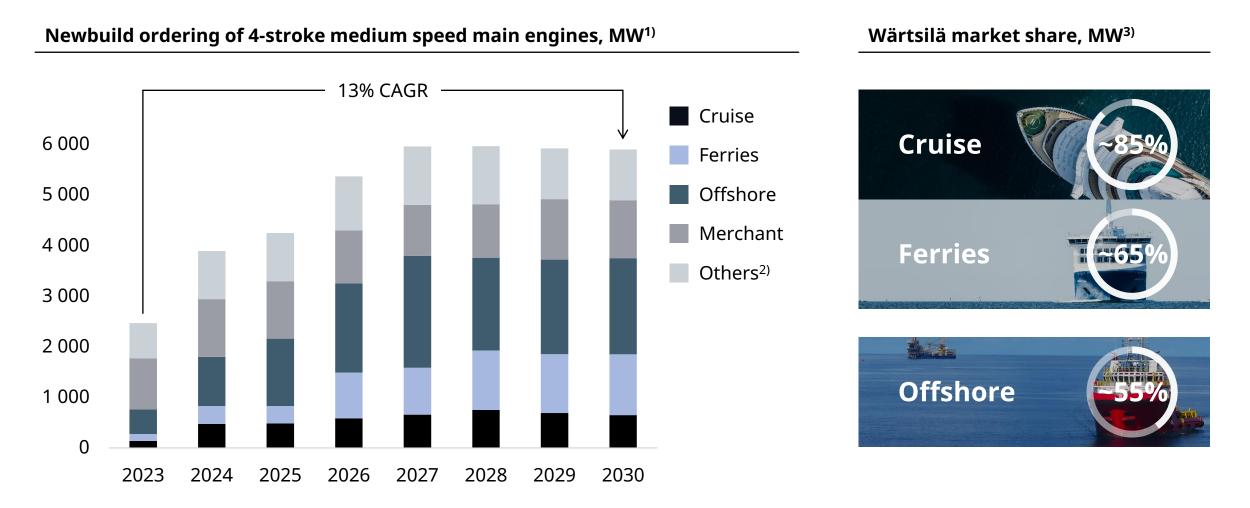
Outer circle: Wärtsilä total market share

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



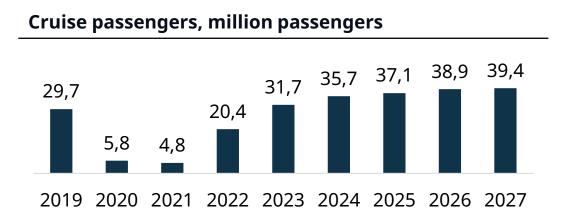
## Recovery in our key target segments will double the 4-stroke medium speed main engine addressable market by 2030 compared to 2023



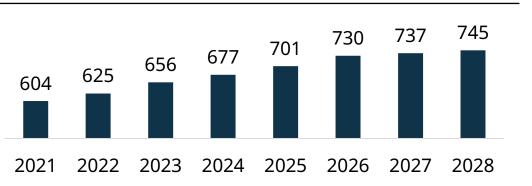
1) Source: Clarksons March 2024 forecasts; 2) Fishing, dredgers, support units, yachts, tugs, etc.; 3) Market share on 4-stroke main and auxiliary engines as per Q4 2023, Wärtsilä estimates, MW



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



#### Cruise capacity, 1000x lower berths<sup>1)</sup>



 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

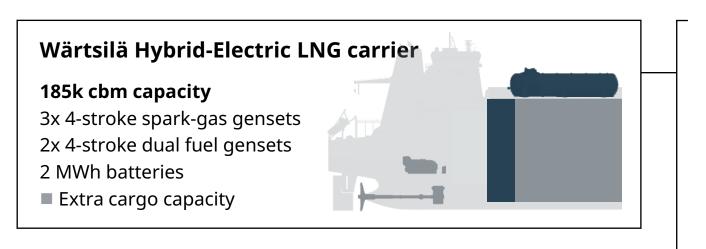
WÄRTSILÄ

- 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

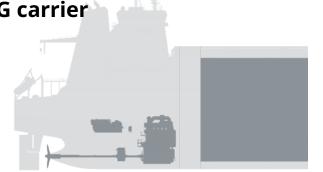


# Hybrid-Electric will challenge 2-stroke as prime-mover for LNG carriers, enabling higher efficiency and increased cargo capacity



#### **Conventional 2-stroke LNG carrier**

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

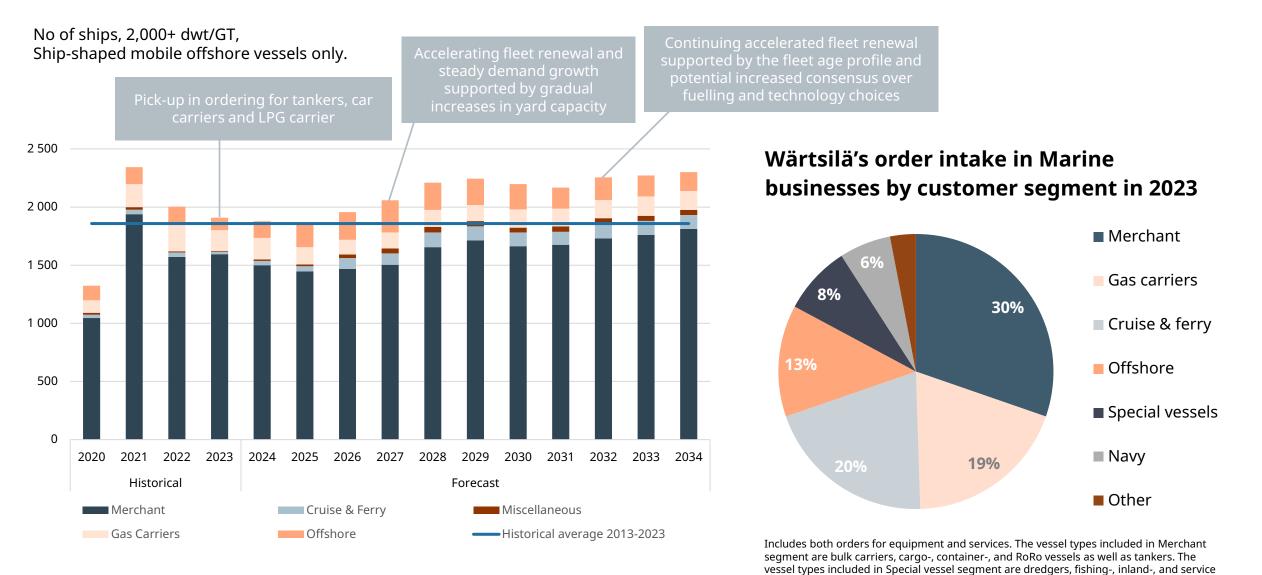


- Launched at Gastech in 2023 with Shell and Hudong-Zhonghua Shipbuilding
- ✓ 6% extra cargo capacity with same ship dimensions
- >10% lower fuel consumption and emissions with optimal efficiency across all speeds
- 20% lower maintenance costs with fewer engine running hours
- Superior redundancy, uptime,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



### **Vessel contracting forecast**

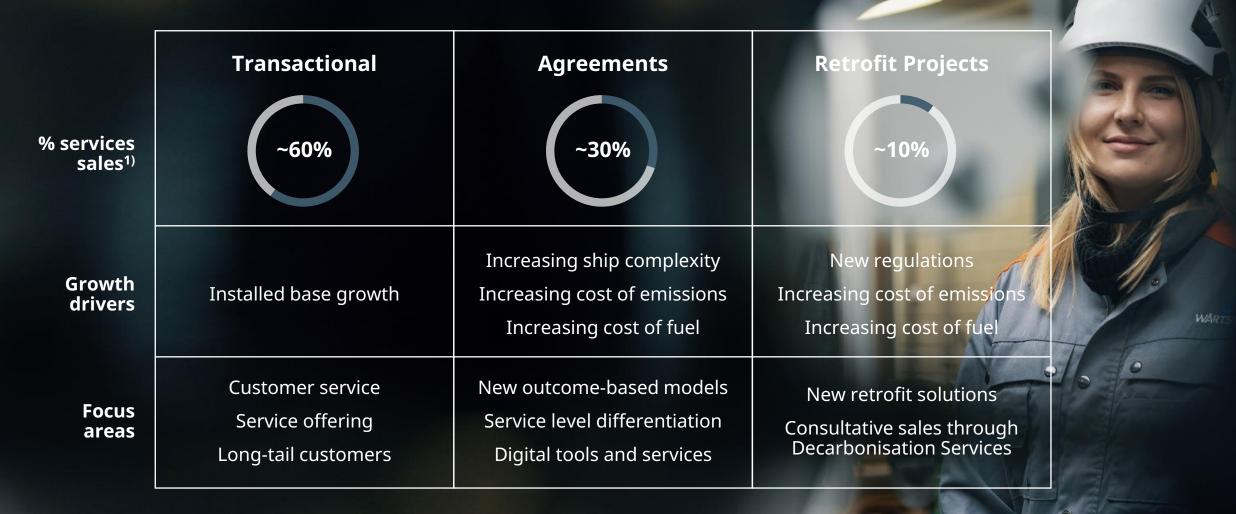


vessels as well as tugs.

Source: Clarksons Research, March 2024

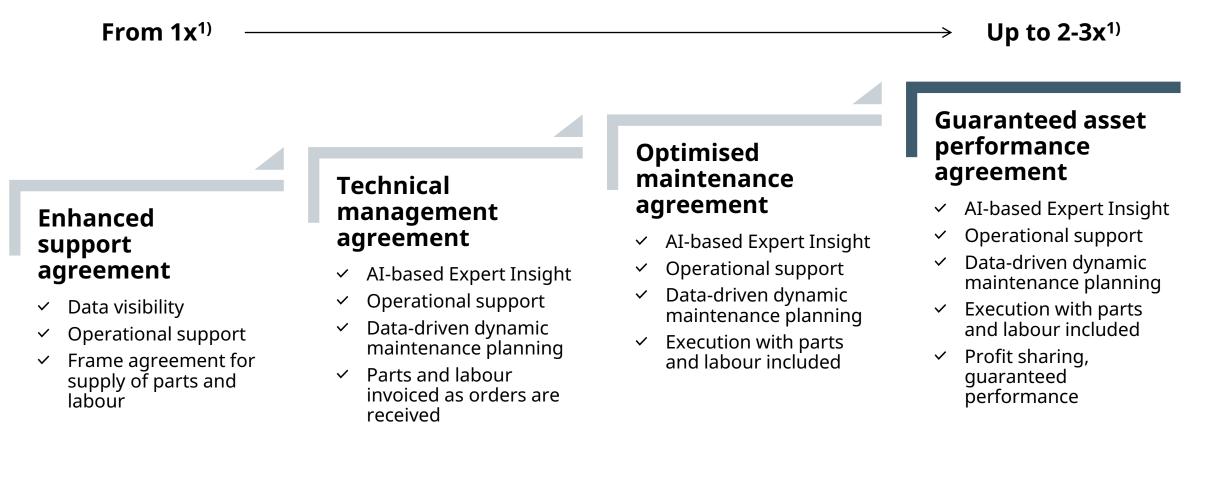


### Services is more than 60% of Marine sales We have 3 distinct revenue streams covering customer maintenance





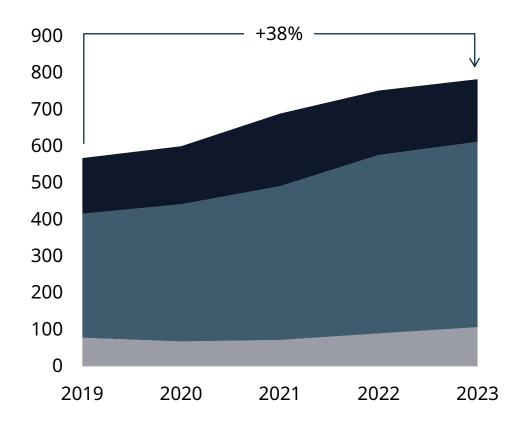
### We increase sales and profits by moving up our service value ladder



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 scope<sup>1)</sup>



### TMA / ESA

Tech. Maintenance / Enhanced Support Agreement

- + Connectivity solutions
- + Maintenance planning
- + Technical support

#### 

Optimised Maintenance Agreement

- + TMA/ESA scope
- + Parts and labour

#### GAP

Guaranteed Asset Performance Agreement

- + OMA scope
- + Performance guarantees
- + Outcome-based business model

WÄRTSI

### 26%

growth in sales to agreement vessels vs pre-Covid

### 29%

of our engine installed base is under agreement<sup>3)</sup>

### 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



customers groups buy from us at least once a year

+9%

4-stroke engine installed base growth since 2019

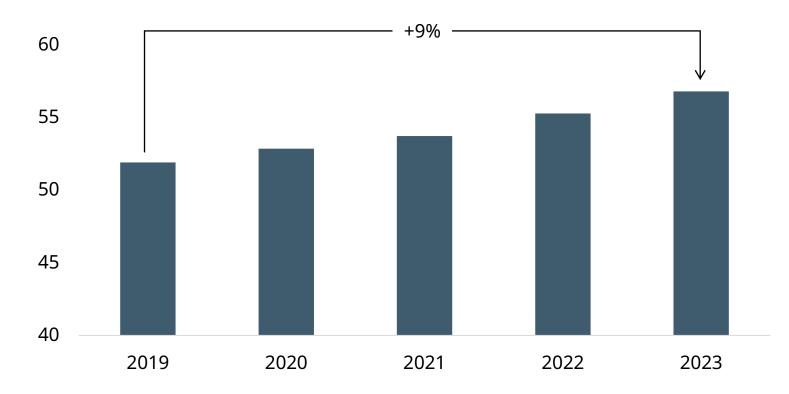
+7% number of buying customer growth since 2019

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

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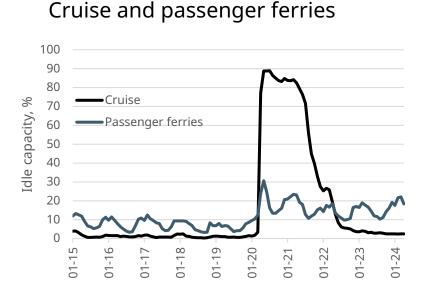
#### Marine 4-stroke installed base development

Marine 4-stroke installed base, GW<sup>1)</sup>



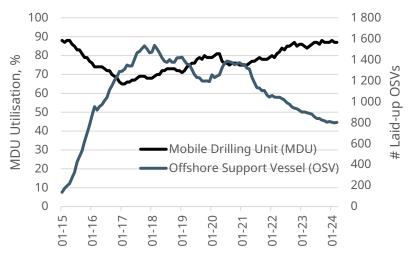
1) Based on 4-stroke lifecycle sales in 2019-2023, excluding Quantiparts

### 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

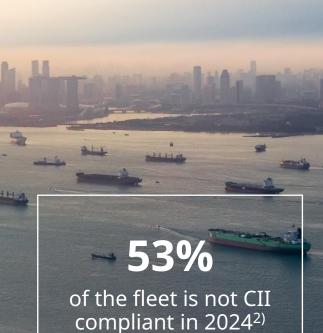


- Mobile Drilling Unit (MDU) utilisation rates are expected to reach 91% by the end of 2024, up from current 87% with utilisation supported by continued demand and limited supply of assets.
- The pool of laid-up OSVs is expected to decline by 9% in 2024 as demand for OSVs continues to improve.

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 existing fleet will not be CII compliant in 2028 if no action is taken<sup>2)</sup>

79%

# 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 decade<sup>1)</sup>

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Propulsion	Alternative fuel conversions	Radical power	Electrification
efficiency upgrades		derating	projects
Propulsion efficiency improvements, e.g., OptiDesign, EnergoFlow, EnergyProFin <sup>3)</sup>	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 <sup>4)</sup> upgrade, including hybrids and shaft generators to improve OpEx, emissions, safety
<b>700+</b>	<b>10+</b>	<b>30+</b> vessels contracted	<b>30+</b>
vessels contracted	vessels contracted		vessels delivered <sup>5)</sup>
EUR 20k-1m	<b>EUR 3-8m</b>	EUR 5-8m	<b>EUR 3-8m</b>
per shipset	per shipset	per shipset	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 noncompliant; 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 relation, business in the next 10 years<sup>1)</sup>

mitä kuuluu, toivottavasti siellä kaikki hyvin, ei olla hetkeen nähty.

 Applicable to all carbon-based fuels, vessels types and sizes
 Tulit mieleeni, kun mietimme DIF:n hallituksessa hallitusosaajia, jotka eivät viela ole

Tulit mieleeni, kun mietimme DIF:n hallituksessa hallitusosaajia, jotka eivät vielä ole Kiinnostaisiko sinua liittyä DIF:n jäseneksi, sinähän täytät jäsenkriteerit monin tavoin

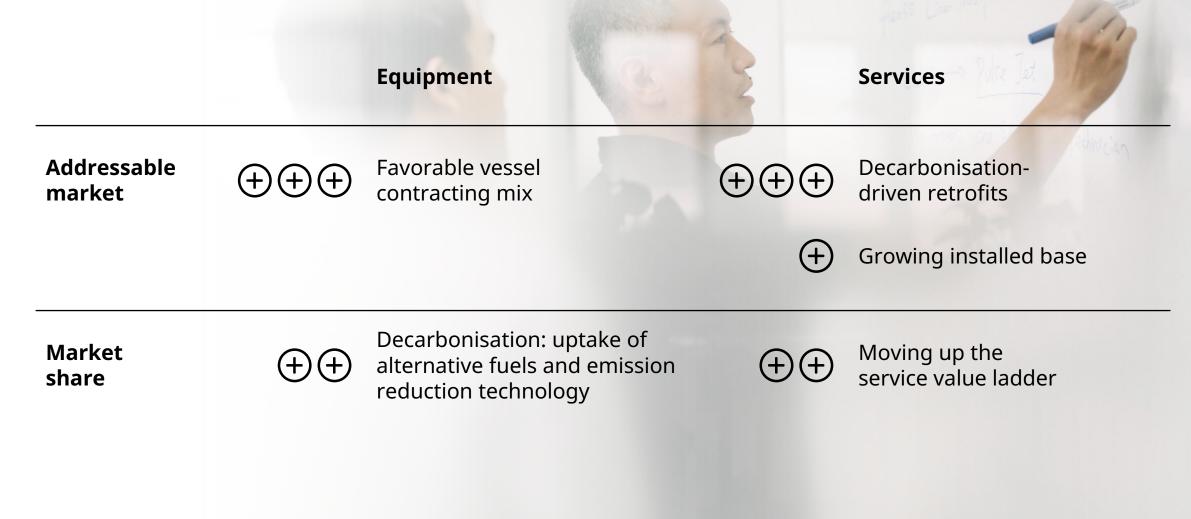
- Captured CO2 is stored onboandaforudischangeaateportsteiception faoilityn hallitustyöskentelystä mui hallitusammattilaisten kanssa.
- At our research centre and test facility in Moss, Norway, we simulate vessel installations of onboard carbons capturestaa, laittaisitko hakemuksen täältä (voit laittaa minut ja Leena Linnain suosittelijoiksi)
  - Operated for >2 years
  - CO2 capture capacity: 10 tons/day Hae jäseneksi | Directors' Institute Finland (dif.fi)
  - CO2 capture rate: ~70%
- First full-scale system operational on LPG carrier "Clipper Eris" in Q4 2024
- Commercial release in 2025 Ps. Alla lisätietoa tulevista tilaisuuksistamme.

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 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

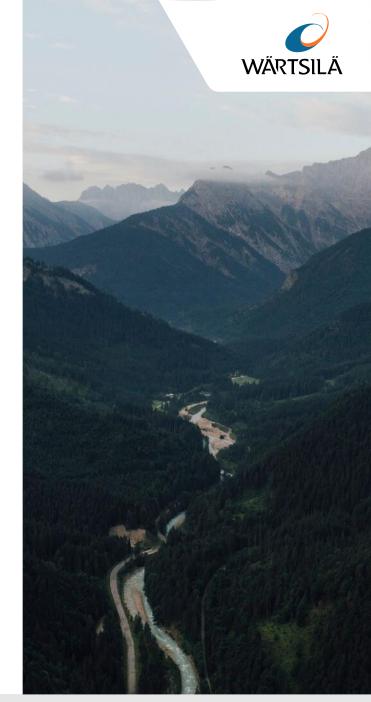
## Actions taken to improve new build profitability and achieve better risk / reward

### **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

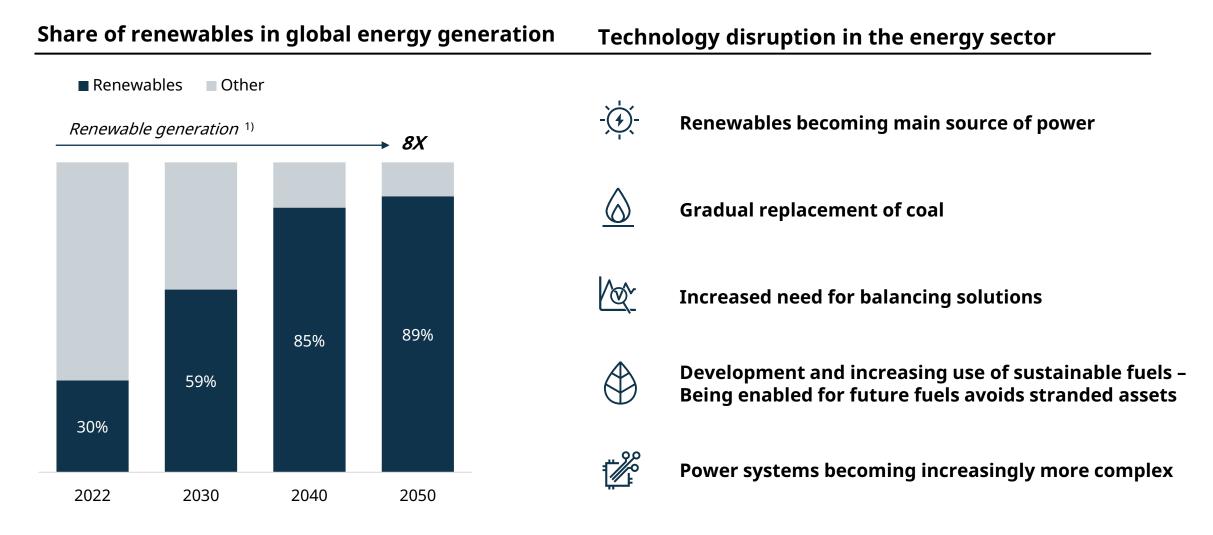
### **Offering & risk management**

- 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

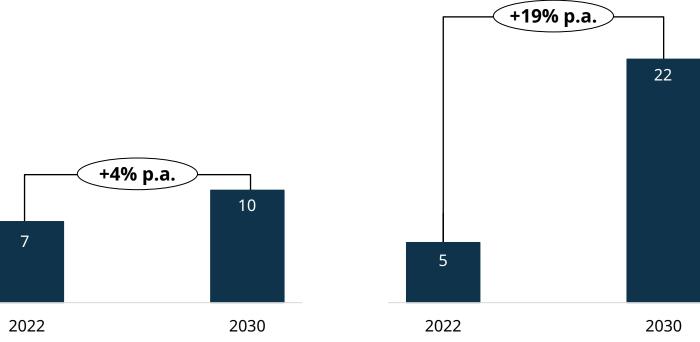


1) IEA World Energy Outlook 2023 (Net Zero Emissions scenario)

### 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

+19% p.a.

Addressable annual market (GW)<sup>1)</sup>

Outlook

 The transition towards renewables is the driving force behind demand for thermal balancing

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- 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

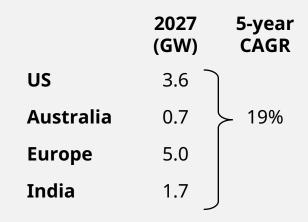
### Engine market shares <sup>1)</sup>



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

### Wärtsilä in strong position as thermal balancing market grows

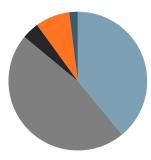
 Balancing market expected to grow in key regions <sup>2)</sup>



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

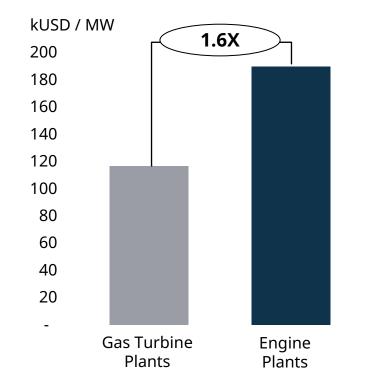
### Case Texas shows future trends. Increasing renewables creates need for balancing with engines outperforming competing technologies

**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 higher<sup>1</sup> real time market revenue potential for engines** vs. gas turbines



# Texas as a proofpoint for thermal balancing

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

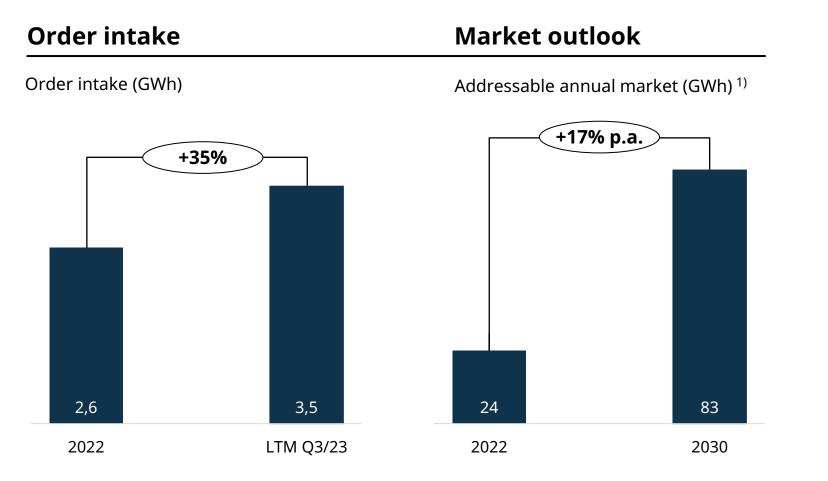
Similar conditions forming in:

- 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



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



### 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

## Energy Storage has grown 3X<sup>1)</sup> since 2021 and is now profitable – key focus on commercial approach and differentiated offering

### Selective commercial approach

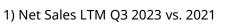
- Focusing on growth of utility scale storage in selected geographies
- Systematic project selection to drive profitability

### 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

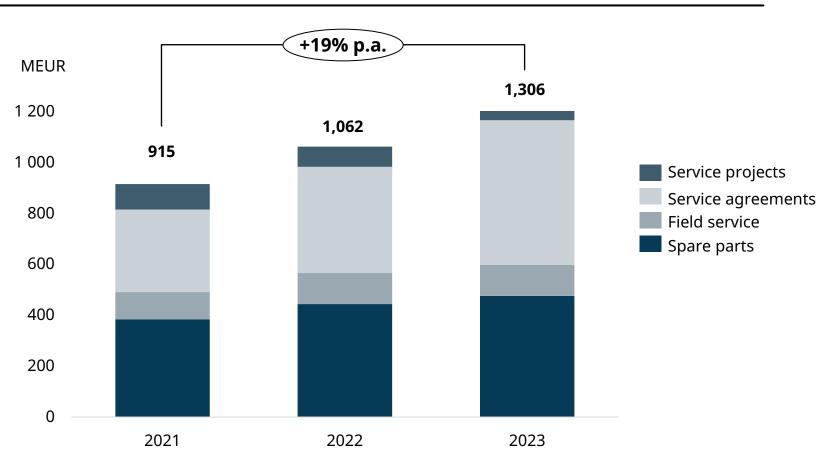
- Hardware and software development for competitive product cost
- Multi-sourcing and active supply chain management to meet regional requirements





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

### Service order intake, MEUR



**VÄRTSILÄ** 

### Energy services – growth drivers

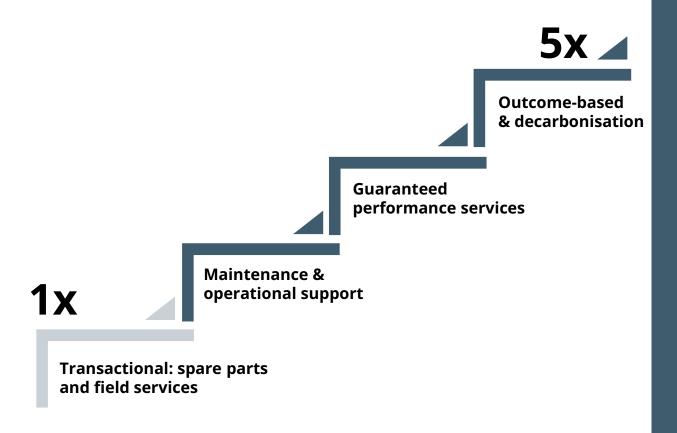
- Growing installed base over time
- Stable total operating hours
- Increasing agreement coverage
- Upgrades & fuel conversion demand
- Future growth potential in decarbonisation services and outcomebased agreements



## 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 agreement<sup>1</sup>, 3,4GW added since 2021

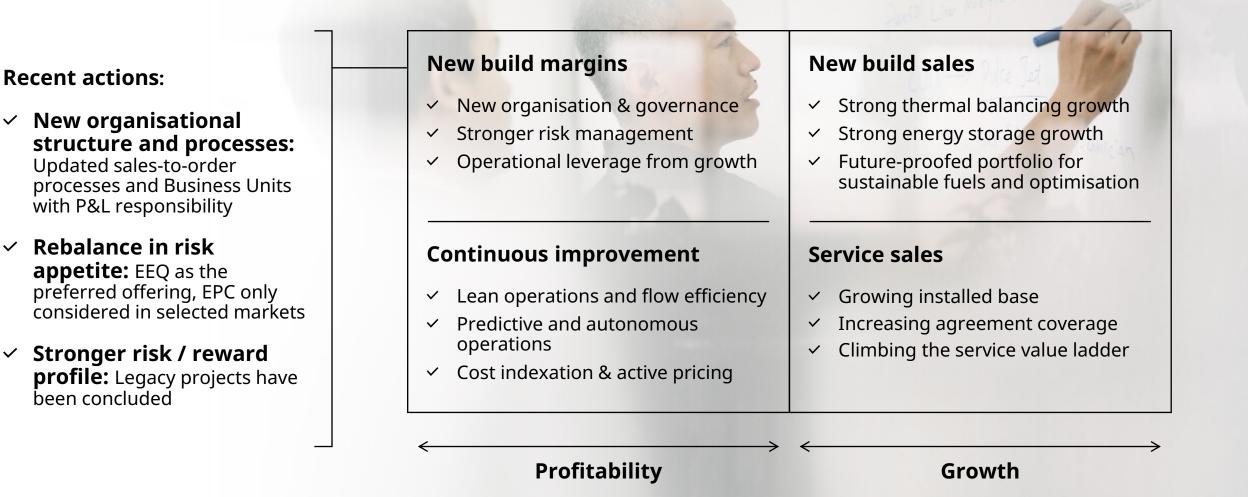
### Moving customers up the service value ladder

- 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



#### 56 © WÄRTSILÄ

## WÄRTSILÄ

### 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.



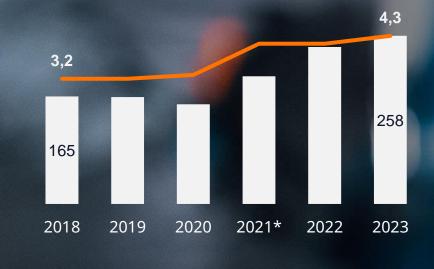
R&D







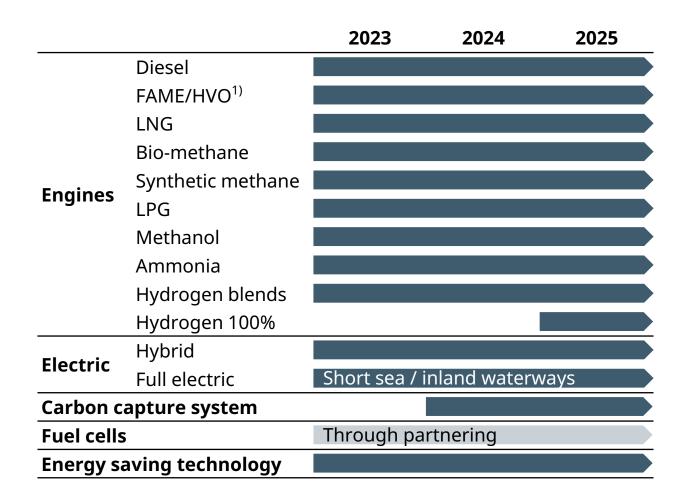
We continue investing in innovation to ensure a broad, industry-leading solution offering



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



- Industry's fastest and broadest future fuel roadmap
  - Market leaders in 4-stroke medium-speed main engines
  - ✓ Market leaders in hybrids with 26% market share<sup>2)</sup>
  - Pioneer with the world's first full scale carbon capture plant in 2024 and full commercial release in 2025
- Methanol engine types available today<sup>3)</sup>, 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



WÄRTSILÄ

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

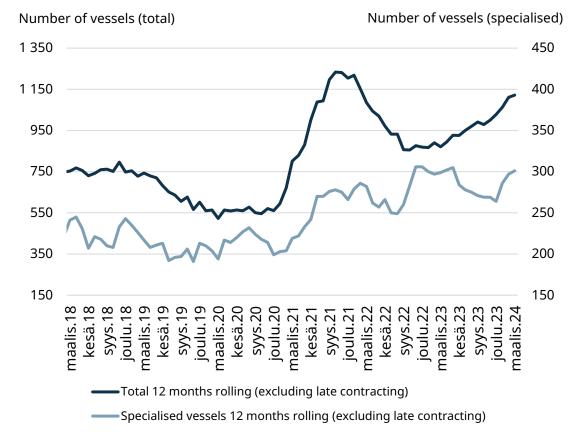
MEUR	1-3/2024	1-3/2023	CHANGE
Order intake	1,924	1,739	11%
of which services	949	889	7%
of which equipment	975	850	15%
Order book	7,294	6,153	19%
of which current year deliveries	3,864	3,325	
Net sales	1,321	1,465	-10%
of which services	833	736	13%
of which equipment	489	729	-33%
Book-to-bill	1.46	1.19	
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

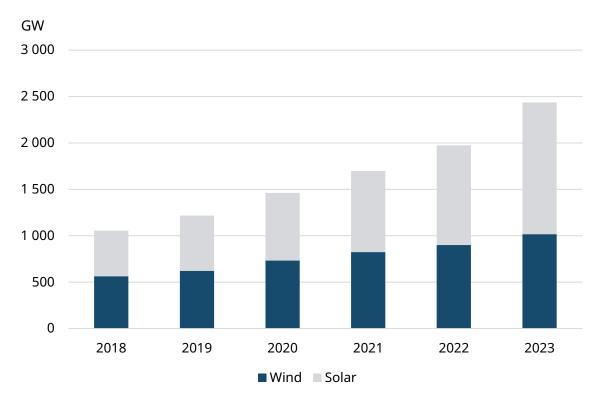
Source: Clarksons Research, 12m rolling contracting as per 4th of April 2024 (+100 gt, excluding late reporting of contracts) Specialised vessels include LNG carriers, LPG carriers, cruise & ferry, offshore, and special vessels.



### 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.

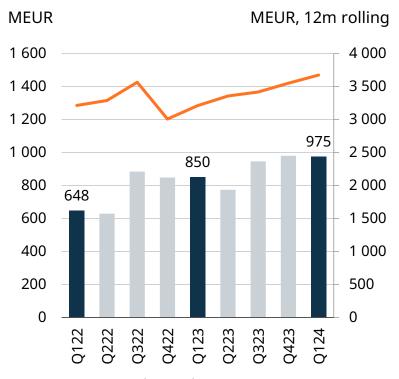


### Development on installed wind and solar capacity

Source: IRENA (2024), Renewable capacity statistics 2024

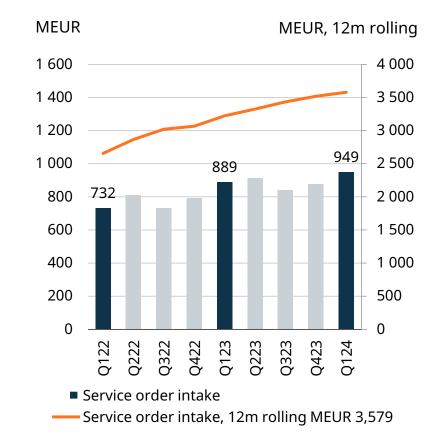
### **Organic order intake increased by 17%**





Equipment order intake
 Equipment order intake, 12m rolling MEUR 3,675

#### Services



### Order intake growth 11%

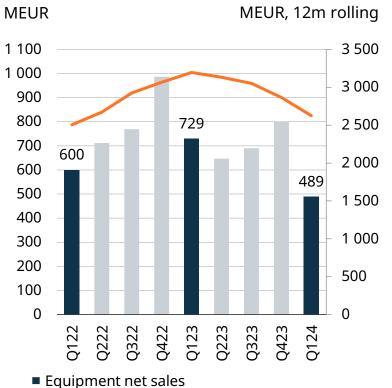
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Equipment order intake increased by 15%

Service order intake increased by 7%

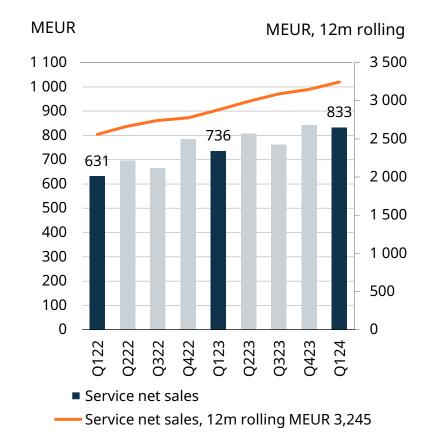
### **Organic net sales decreased by 6%**

### Equipment



Equipment net sales, 12m rolling MEUR 2,626

#### Services



### Net sales decreased by 10%

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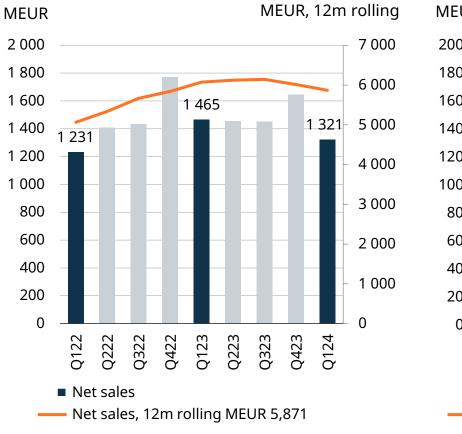
Equipment net sales decreased by 33%

Service net sales increased by 13%

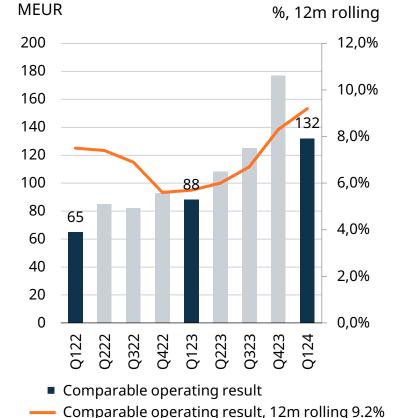
### **Profitability continued to improve**



#### Net sales



### **Comparable operating result**



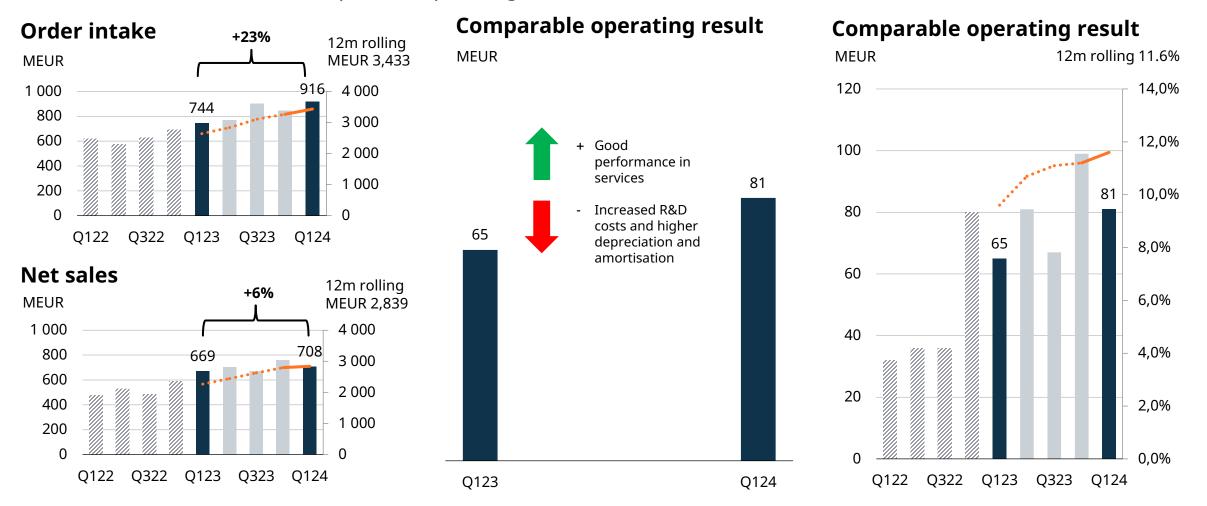
### Net sales decreased by 10%

Comparable operating result increased by 50%



### Marine: Good performance continued

Order intake, net sales and comparable operating result increased



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 Comparable operating result Comparable operating result** 12m rolling 4% MEUR MEUR 3,071 MEUR MEUR 12m rolling 9.8% 1 0 0 0 4 0 0 0 100 12,0% 774 744 800 3 0 0 0 507 600 10,0% 2 0 0 0 Good 80 400 performance in 1 0 0 0 services 200 + Improved 8,0% 0 0 profitability in the 60 50 EPP business Q123 Q323 Q124 Q122 Q322 50 6,0% Decreased sales Net sales Increased R&D 40 12m rolling 33 costs -30% 33 MEUR 2,417 MEUR 4,0% 24 1 200 4 0 0 0 20 1 0 0 0 2,0% 3 0 0 0 800 535 600 452 2 000 0 0,0% 400 1 0 0 0 200 0 Ω -20 -2,0% Q122 Q322 Q123 Q323 Q124 Q123 Q124

Q122

Q322

Q123

Q323

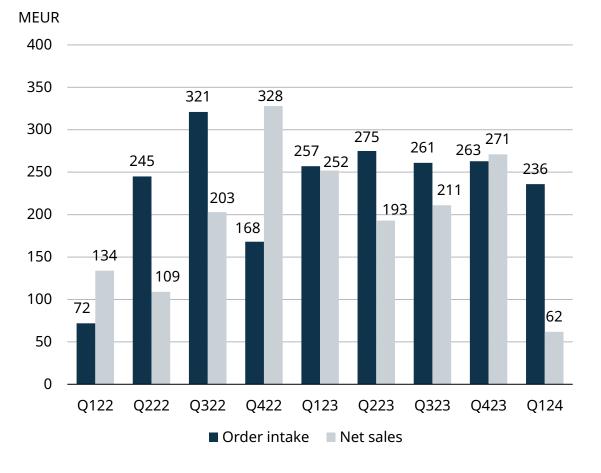
Q124



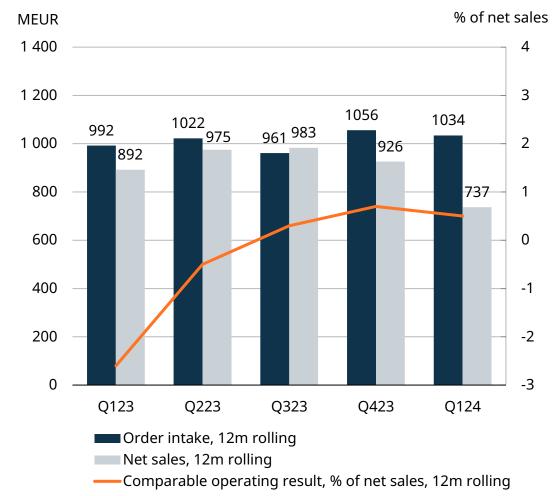
### Energy Storage & Optimization: Comparable operating result margin (12m rolling) positive

Low net sales due to the periodisation of project deliveries

### **Quarterly development**



### **Rolling 12 months development**

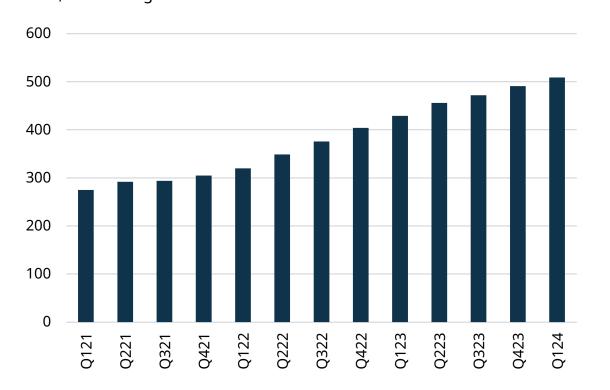




### **Good development in Marine service agreements**

Marine net sales to agreement installations increased

#### **Net sales to agreement installations (12 month rolling)**<sup>1)</sup> MEUR, 12m rolling



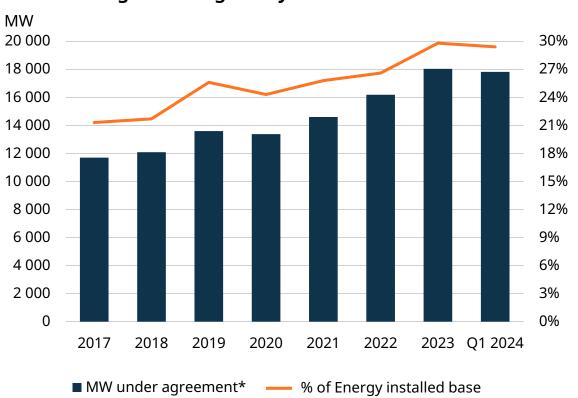
#### Wärtsilä Lifecycle Agreement to support optimised low-emission operations for two P&O Ferries vessels

- Wärtsilä has signed a Lifecycle Agreement with UKbased 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

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

#### 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



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#### **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.

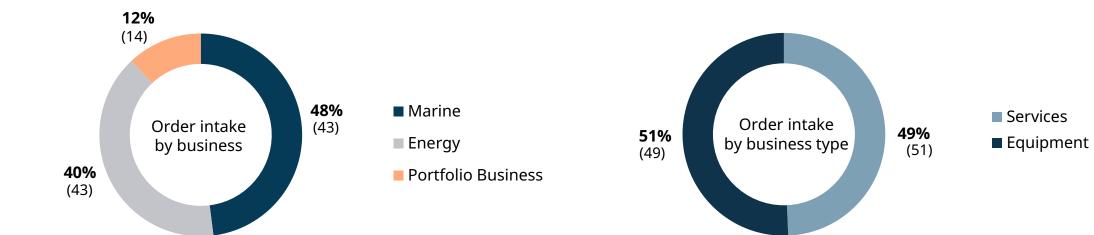
#### Energy

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

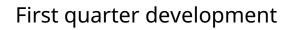
## Order intake

First quarter development

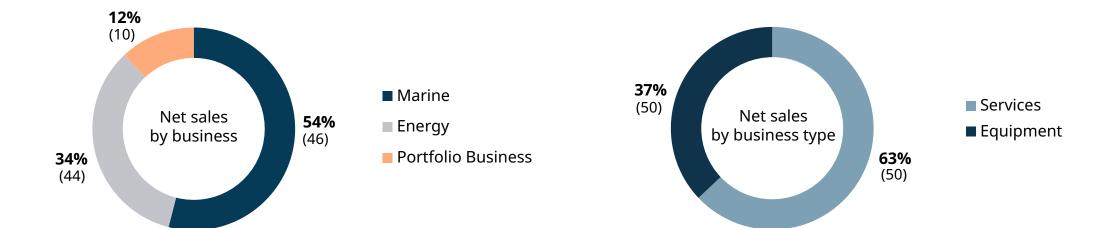




# Net sales



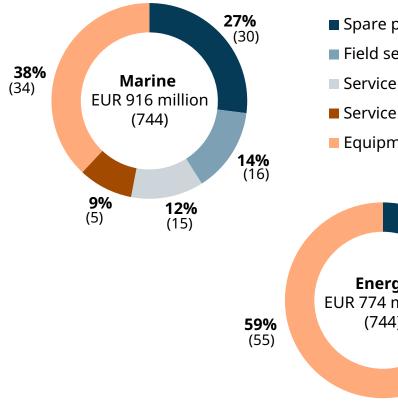


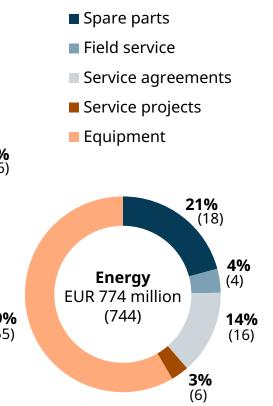




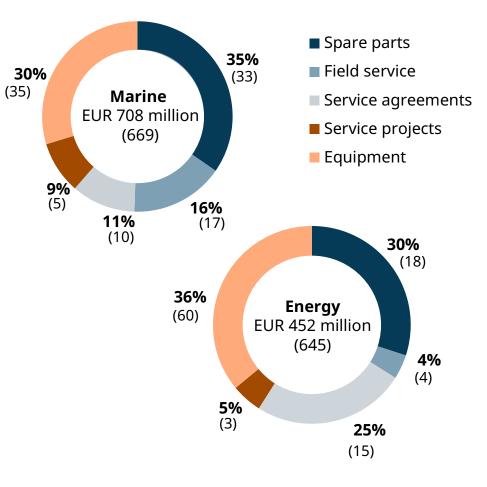
### First quarter development by business type

**Order intake** 











### January–March order intake by customer segment

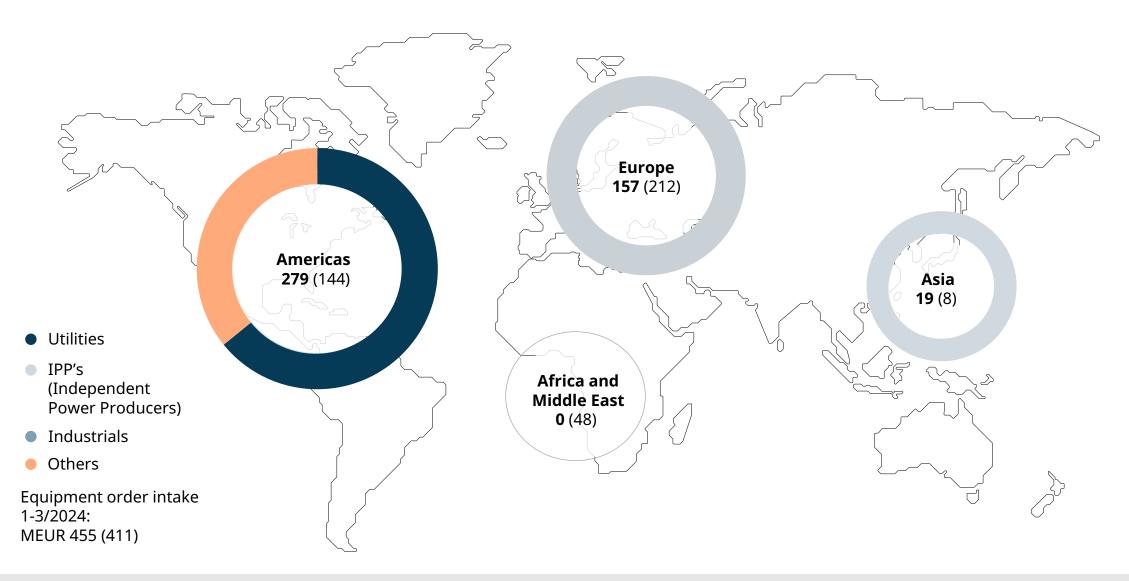
#### Marine

Warme	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					
Lifergy	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









2030

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

2021

#### **OUR MAIN DECARBONISATION INITIATIVES**



[4 -

....

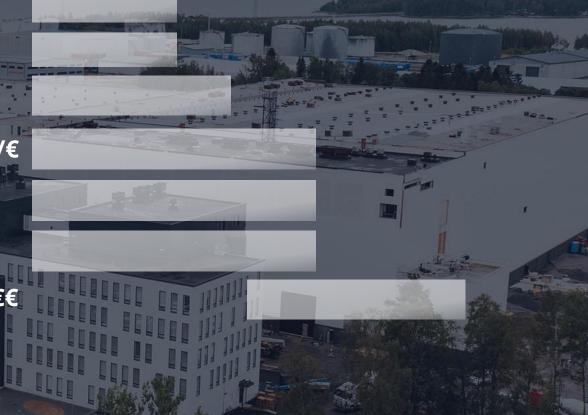
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(4)

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





## Wärtsilä "Set for 30" is progressing well

Variety of concrete actions have been taken – some examples



#### Wärtsilä's ESG Agenda in brief





### Ambitious decarbonisation targets for 2030

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

Good Corporate Citizen and Responsible Employer

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

Effective Governance model

 Sustainability matters embedded

## Sustainability is integrated into our strategy and purpose



#### **Environment**

community value Being a forerunner in sustainable innovation and furthermore reduce emissions in our customers' operations and in societies overall.

Customere

GET POSITIO

**PURPOSE** Enabling sustainable societies through innovation in technology and services

Customer & Snareholder v **Economic** Meeting customer and shareholder expectations and contributing towards the wellbeing of society.

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

value

High ethical standards

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

d agonomity value

Being a good corporate citizen and responsible employer.

Efficient, profitable, and competitive company operations

#### Wärtsilä's focus on social responsibility



Strong ethical culture

#### A responsible employer

A Safe place to work

Responsible value chain

Fair competition Trade compliance Anti-corruption Human and Labour Rights

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

Strong safety culture Providing means for safe work Product design principles

Human and Labour Rights Compliance Anti-corruption

- Clear policies and instructions
- Ethical training programmes and transparent communication
- Effective compliance programmes
- Global policies and processes
- Training programmes and effective communication
- Co-operation and consultation with our employees
- 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 noncompliance





# 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 <u>Investors</u> page

WÄRTSILÄ

#### 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: <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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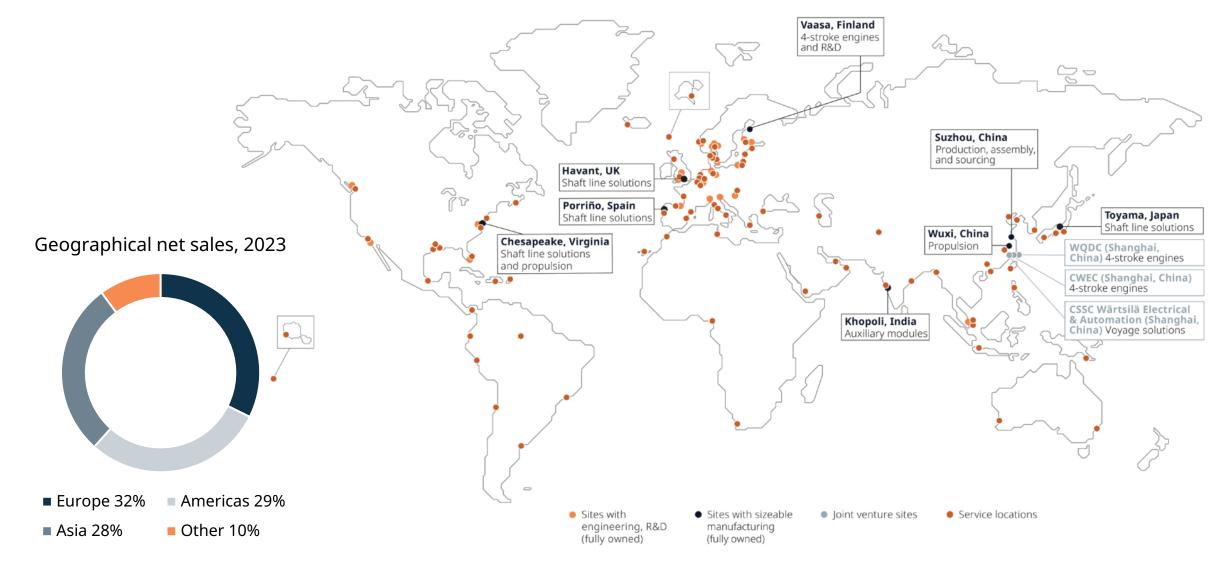


# Main competitors

Engines	Other marine solutions	Other energy solutions
MAN Himsen Rolls-Royce	Kongsberg Alfa Laval GE Siemens Schottel	GE Siemens Tesla Fluence
Marine b	usinesses Ei	nergy
Ship ov Ship ope Ship mana compa Charte Shipya Port auth	erators Independent agement ( anies Industria erers ards	tilities Power Producers IPPs) al customers



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



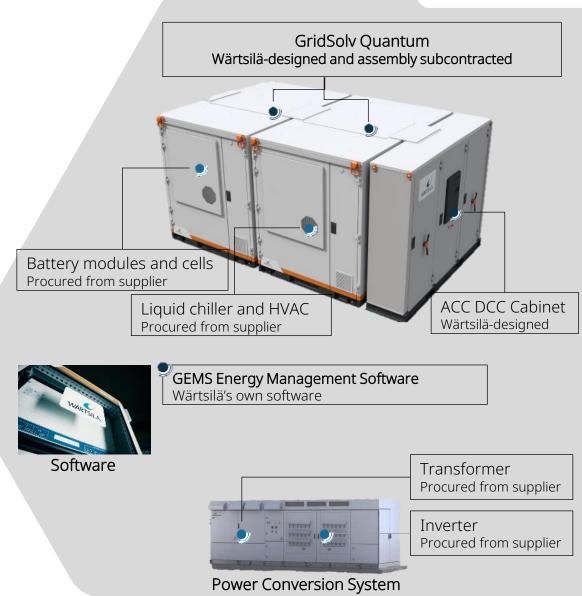


# Wärtsilä Energy Storage offering

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

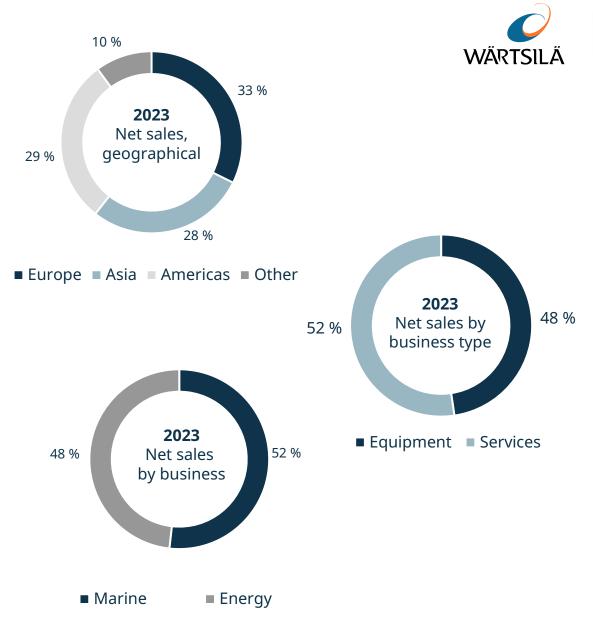
Comparable operating result 497 MEUR 8.3% of net sales

Operating result 402 MEUR 6.7% of net sales

Cash flow from operating activities **822 MEUR** 

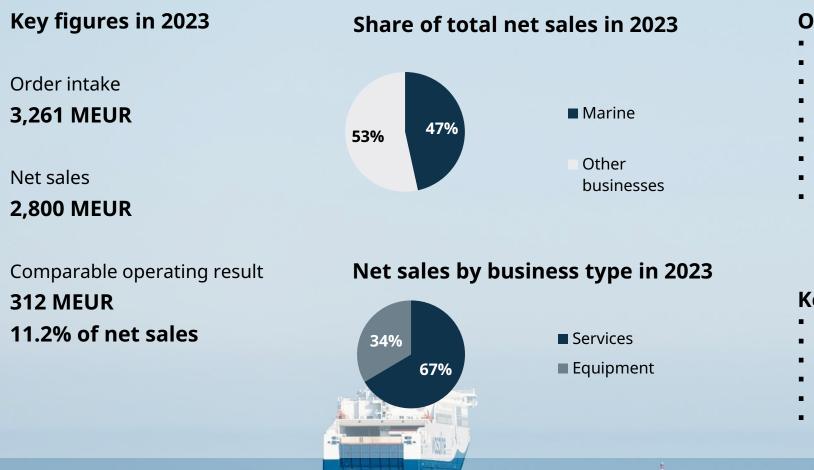
Personnel **17,800** 







# 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

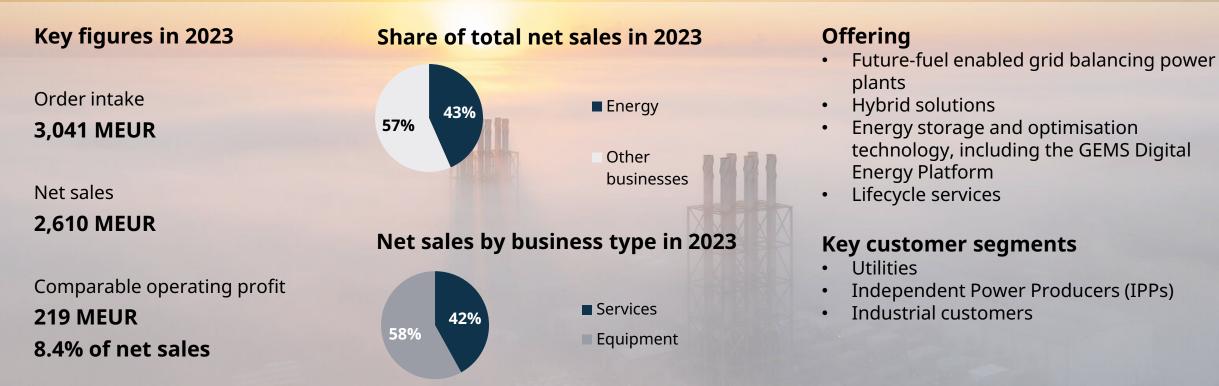
#### Key customer segments

- 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





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