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# Wärtsilä Shaping the decarbonisation of Marine and Energy Roadshow presentation December 2022



# **MARKET FUNDAMENTALS**

#### MARINE will move with unprecedented speed towards decarbonisation

#### **Policies & regulations**

- IMO target
- 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
- Autonomous operations



#### 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

#### Technology

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

#### Growing ENERGY demand

- By 2050, electricity generation expected to grow by 3X, renewables by 8X<sup>1)</sup>
- By 2030, balancing power market to grow by 10X<sup>2)</sup>
- Gradual replacement of coal
- Power systems increasingly complex

IEA World Energy Outlook 2021 (Net Zero Emissions Scenario)
 Bloomberg New Energy Outlook 2020, Wärtsilä estimates



WARTSIL,

# OUR VALUE CREATION POTENTIAL IS BASED ON TWO STRATEGIC THEMES



Decarbonisation creates new business opportunities





# TRANSFORM

Decarbonisation creates new business opportunities

- Maritime is going through an unprecedented rate of change, which is accelerated by regulations and the demand for green transport.
- Also, the energy sector is undergoing a massive transformation as decarbonisation and renewables are fundamentally going to change the way energy is generated.
- We are set for performance and have significant value creation potential to drive this transformation as a technology leader.



Major test programme launched, 100% ammonia concept in 2023, 100% hydrogen in 2025



- Extensive service network,
   positioned for growth both in transactional services and performance-based agreements

First real-life digital port call with Wärtsilä Navi-Port

First Wärtsilä GridSolv

Quantum

the USA

delivered in

3

5 Wärtsilä selected to supply world's largest bioLNG production plant



- 6 Hitting methanol milestone with first newbuild engine order
- 7 Ensuring optimal performance and minimal carbon footprint for world's most environmentally friendly ferry





# PERFORM

We are ready to leverage market recovery and growth

#### **#1-3 in global markets**

#### FINANCIAL TARGETS:

- 5% annual organic growth
- 12% operating margin

#### "SET FOR 30" DECARBONISATION TARGETS:

- carbon neutral in our own operations by 2030
- a product portfolio ready for zero carbon fuels by 2030





Clear financial targets and strong commitment to realise them



Robust capital allocation principles and active portfolio management



Notable opportunity in retrofits and conversions



Extensive service network, positioned for growth both in transactional services and performance-based agreements

#### Focus on:

- High performing teams
- Performance excellence and robust execution
- Continuous improvement
- Cost structure actions taken whenever and wherever necessary



# Set to deliver long term shareholder value

We have clear financial targets and are committed to realising them Our balance sheet and financing structure supports strategy execution We have clear capital allocation principles

# New financial targets reflect growth opportunities and increased profitability

	New targets		
Net sales	5% annual organic growth		
Profitability	12% operating margin		
Capital structure	Gearing <b>below 0.50</b>		
Dividend	At least 50% of earnings		





# Good growth opportunities in services, energy, and marine new build recovery. Our installed base provides a strong foundation for services growth

# Key drivers

#### Storage

 Fast growing demand for energy storage and power system optimisation solutions

#### Services

- Increased share of wallet from existing customers
- Deeper penetration of installed base
- Decarbonisation retrofits
- New business models

#### Thermal balancing

- Increased demand due to coal shut-downs
- Thermal balancing power complementing energy storage

#### Marine new build market recovery

 Cruise & Ferry and Special Vessel segments in particular  $\begin{array}{c} \bullet \bullet \bullet \\ \bullet \end{array}$ 

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Target: 5% annual organic growth

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Limited additional CAPEX needed to facilitate the growth

**Starting point:** 

(LTM Q3/2021)

Net sales 4,401 MEUR



# We will reach our profitability target while maintaining R&D investments at $\sim$ 3% of net sales

Starting point: Operating margin 5.9% (LTM Q3/2021)

#### Key drivers

- Marine and Energy Services growth
- Thermal balancing power growth
- Storage growth
- Voyage turnaround and digital growth
- Pricing
- Continuous improvement
- Cost inflation

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Target: 12% operating margin

Limited additional CAPEX needed to facilitate the growth



Ambitious decarbonisation targets for 2030

To provide a product portfolio which will be ready for zero carbon fuels

To become carbon neutral in our own operations

# SUPPORTING DECARBONISATION IN MARINE



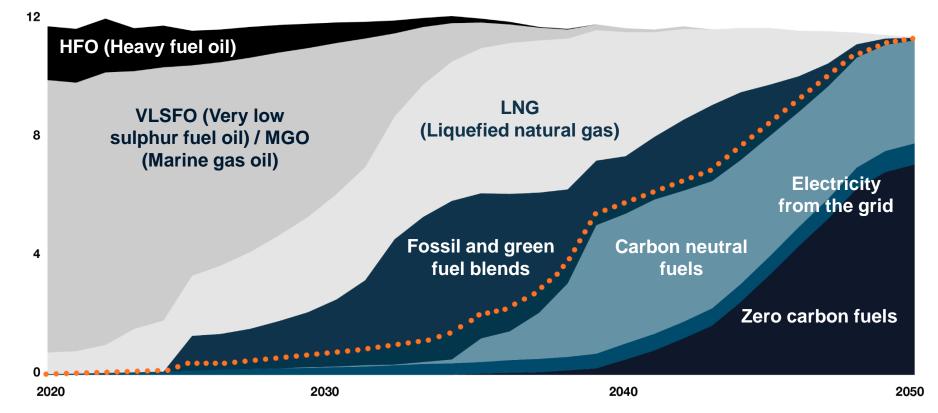
OWNERS WILL DECIDE ON TECHNOLOGY PARTNERS NOW:

- Vessel life is 25-30 years
- Critical decision criteria:
  - Multifuel capabilities for blending with green fuels
  - Conversion capabilities for future fuels

#### MOVE FROM A SINGLE-FUEL INDUSTRY TO A MULTI-FUEL ONE

Distribution of fuel types for Decarbonisation 2050 (1.5°C scenario), exajoule

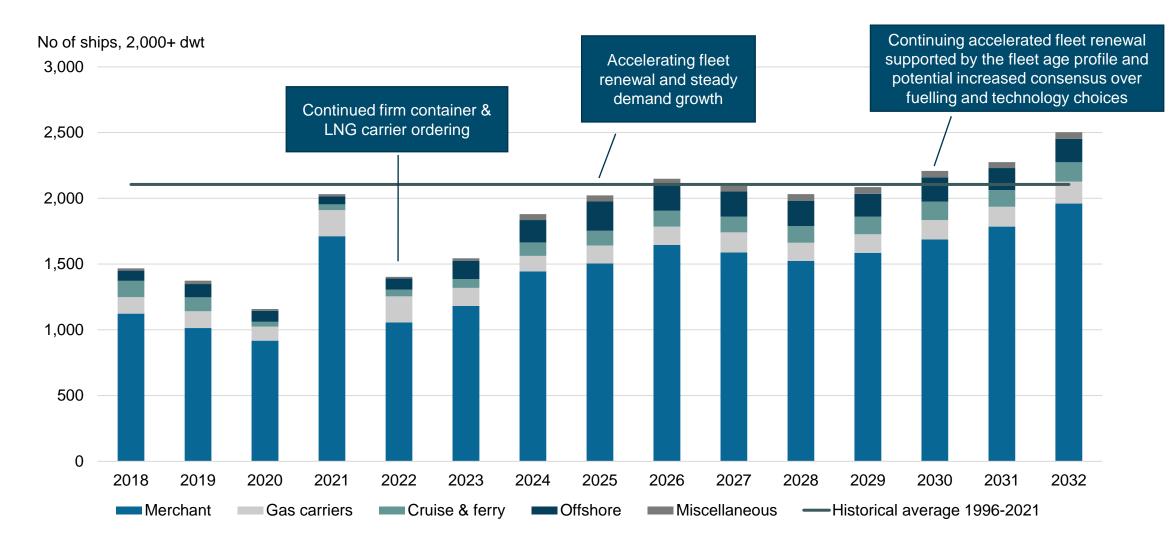
•••••• Carbon neutral and zero carbon fuels in maritime



Source: DNV Maritime Forecast 2050 model, Wärtsilä internal estimates

## **Vessel contracting forecast**



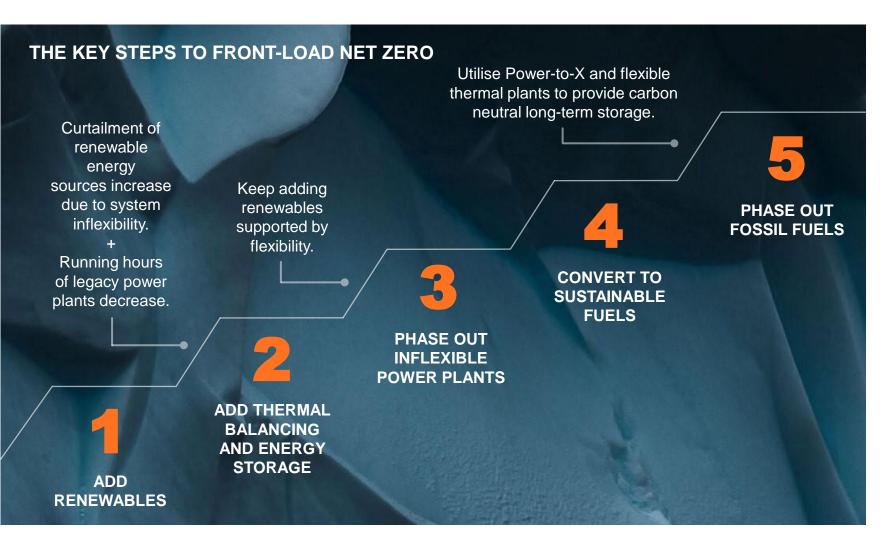


Source: Clarksons Research, September 2022

# SUPPORTING DECARBONISATION IN ENERGY



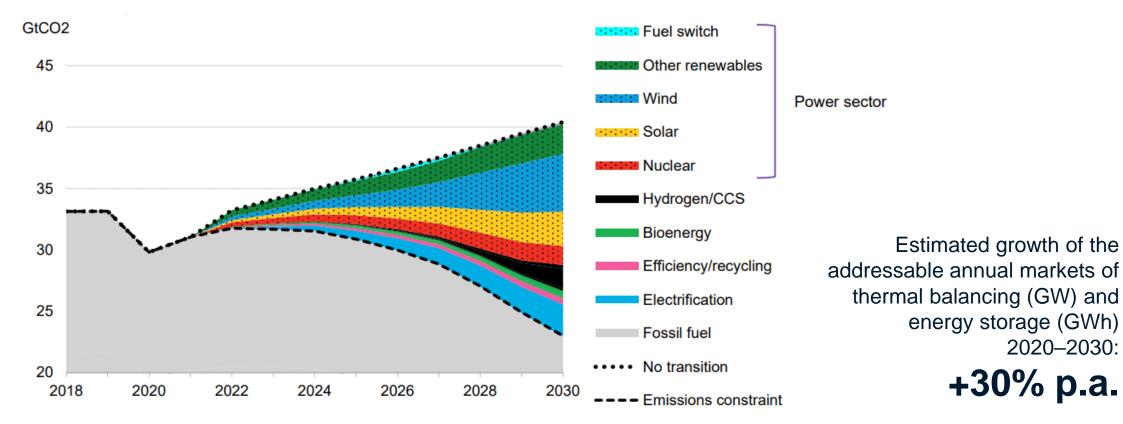
- Wind and solar are intermittent power sources
- Flexible balancing power needed to stabilize the power system: balancing power market expected to grow by 10X<sup>1</sup>
- Reciprocating engines ideally suited to provide balancing power
  - Energy efficient
  - Fast ramp up/ramp down
  - Fuel flexible
- Today running on gas, tomorrow on green fuels



#### 1) by 2030. Source: Bloomberg New Energy Outlook 2020, Wärtsilä estimates

## Renewable energy plays a key role in energy sector emissions abatement





Source: Bloomberg New Energy Outlook 2021

Source: Bloomberg New Energy Outlook 2020, Wärtsilä estimates at Capital Markets Day 2021



# **ORDER INTAKE AND ORDER BOOK IMPROVED**





# Increasing adoption of intermittent renewable energy is accelerating the need for flexible balancing power

#### **Omaha PPD 156 MW - USA**



Wärtsilä's technology with fast-starting internal combustion engines will be used to balance the power generation to the grid and ensure system stability

#### AGL 250 MWh - Australia



The battery energy storage system will support both thermal and renewable generating assets, and help Australia to **decarbonise** and transition towards **100% renewable energy future** 

#### BTG 150 MW - Brazil



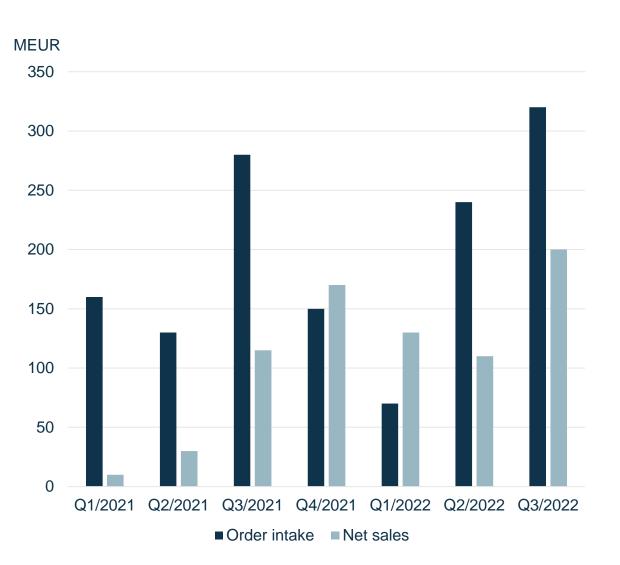
Wärtsilä gas power plants feature **high efficiency** at any load, and can reach **full output power within minutes**, an essential benefit in systems integrating higher levels of renewable energy

#### CFE 600 MW - Mexico



The two plants will operate continuously during summer months, **meeting the high electricity demand** in the region, while being used to provide **grid balancing service** for the remainder of the year

## Good demand in energy storage – market expected to grow 30% annually in this decade

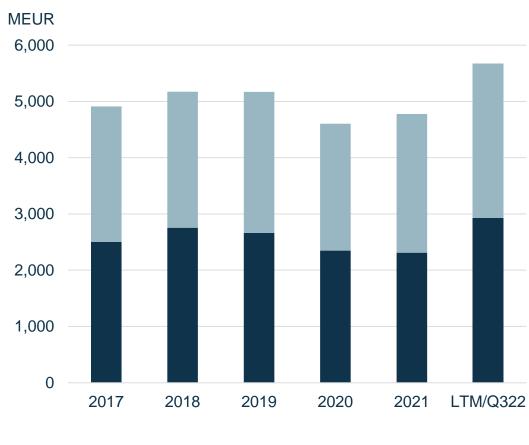


#### Wärtsilä Energy storage

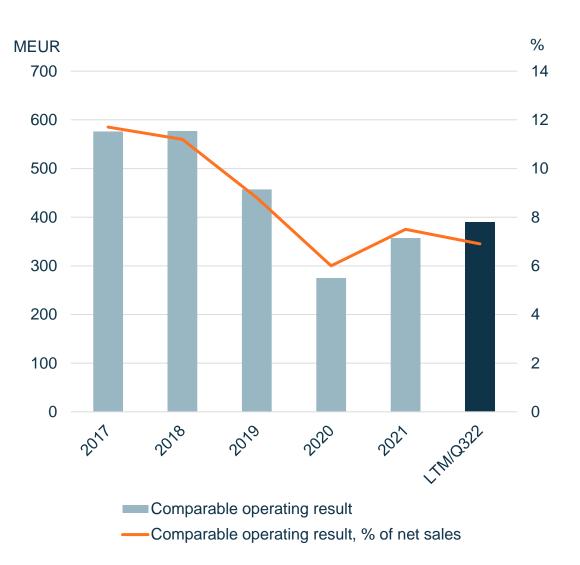
- Long-proven track record of grid scale system installations globally, integrated with wind, solar, hydro & thermal generation.
- Powered by the advanced GEMS Digital Energy Platform, designed to optimise energy system lifetime and energy system economics.
- Thermal balancing and energy storage are complementary technologies: energy storage solutions for shorter firming periods and dispatchable engines for unlimited periods (with high flexibility).
- Business currently loss making, but we aim to turn it profitable within a few years



# Net sales and comparable operating result increased

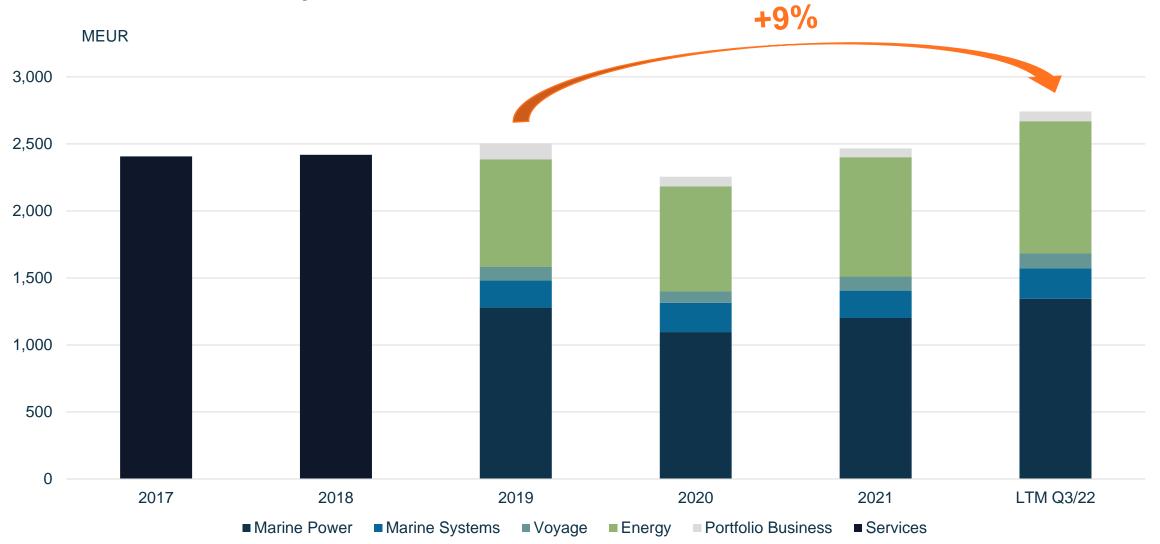


Equipment sales Service sales





# Service net sales by business



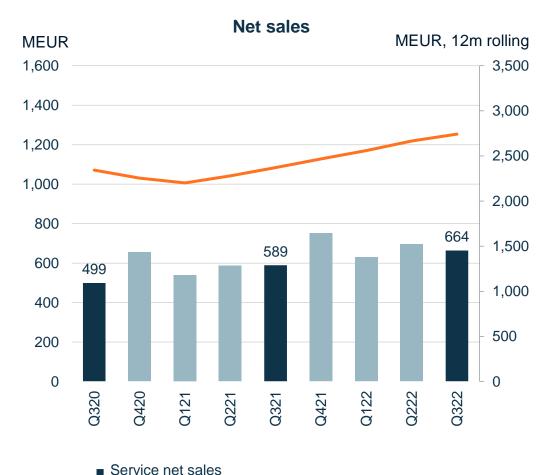


## Service orders and sales both increasing



Service order intake

---- Service order intake, 12m rolling MEUR 3,022

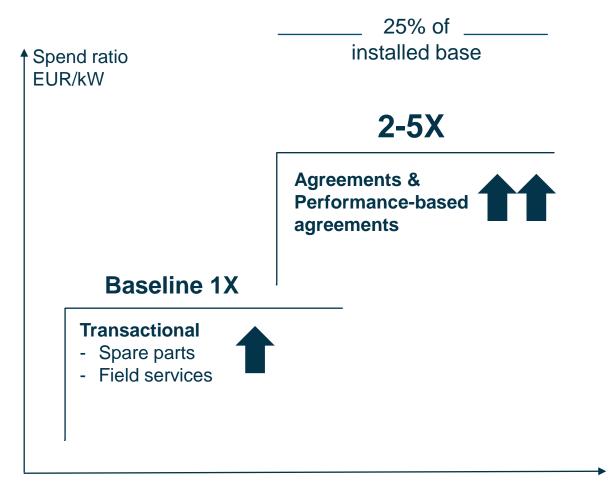


Service net sales

----- Service net sales, 12m rolling MEUR 2,742



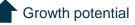
# Performance-based agreements have significant growth potential, both in Marine and Energy



#### **Enablers for growth**

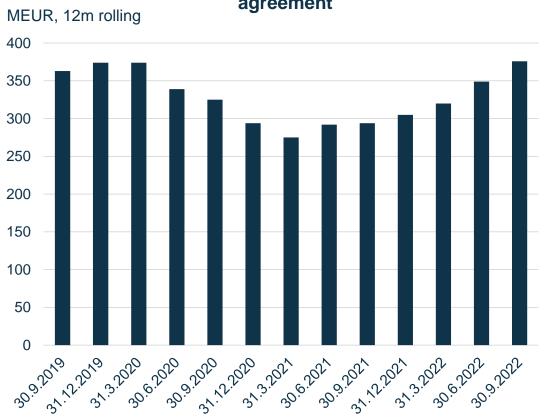
- Optimised asset performance for our customers
- Leveraging connectivity, big data, machine learning and extensive service network
- Successful experience from several projects in Marine and Energy

#### Moving up the service value ladder

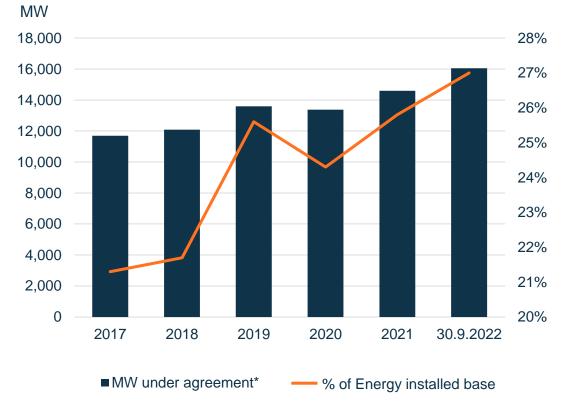




## **Positive development in both Marine and Energy service business**



#### Marine Power net sales from installations under agreement



**Energy service agreements** 

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

# Wärtsilä to support integration of renewables into Japan's power mix by providing balancing power gas engines



 The new Japanese plant will operate with ten Wärtsilä 34SG gas engines. It will replace a 100 MW combined cycle gas turbine that was formerly located on the project site.

WARTSII A

- The fast-starting engines will provide the grid balancing and peaking capabilities needed as Japan increases its share of energy from renewable sources.
- The main purpose of the utility-scale power plant is hedging market price fluctuations, and it will also enable participation in the recently launched cross-regional balancing market.
- Japan is committed to addressing climate change and has set a target to have its share of renewable energy within the power mix increased to 36 - 38 percent by 2030.



# CBO Group and Wärtsilä sign Decarbonisation Service agreement to speed up fleet sustainability



- Wärtsilä and Rio de Janeiro based Companhia Brasileira de Offshore (CBO) have signed an agreement for Decarbonisation Modelling.
- The objective is to support and accelerate CBO's journey towards decarbonised operations for its fleet of offshore support vessels, which is one of the largest in its segment in Brazil.
- Includes a detailed analysis of both short- and long-term solutions, including digitalisation, energy efficiency and energy saving devices, hybridisation, and future alternative marine fuels, with a particular focus on the viability of ethanol fuel.
- The agreement was signed in August 2022.

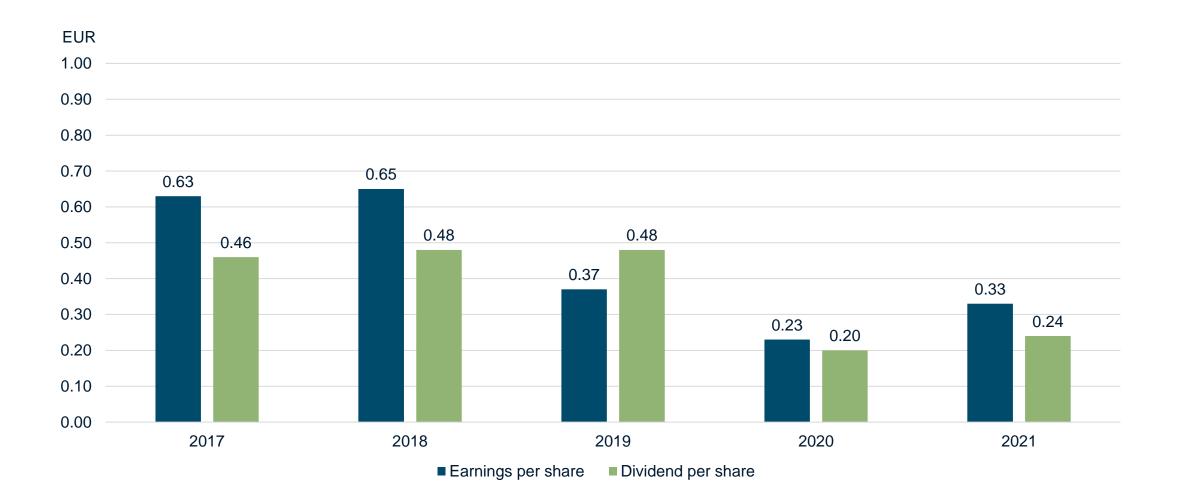


# **Strong balance sheet**

MEUR	7-9/2022	7-9/2021	1-9/2022	1-9/2021
Cash flow from operating activities	100	49	-113	360
Working capital			108	107
Net interest-bearing debt			377	309
Gearing			0.18	0.14
Solvency, %			34.5	39.3
Basic earnings/share, EUR	0.00	0.08	-0.16	0.19



# **COMMITTED TO PROVIDING SHAREHOLDER RETURNS**





## Strong presence in sustainable development indices



#### S&P Europe 350 ESG Index



# Wärtsilä is very well-positioned for the decarbonisation transformation

## Leader in

#### Carbon neutral & zero carbon fuels

- Available today: biofuels, methanol, up to 25% hydrogen blends
- 2023: ammonia concept
- 2025: 100% hydrogen concept

#### Energy efficient fossil fuels

#### Power system optimisation

- Energy storage
- Thermal balancing power

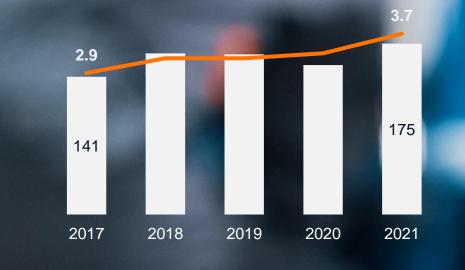
#### **Pioneer in**

- Marine electric drivetrain
- Marine carbon capture
- Marine optimisation and autonomous solutions
- Partnering for complementary technologies
  - Fuel cells
  - Air lubrication
  - Flettner rotors



# MMO 2 WÄRTS

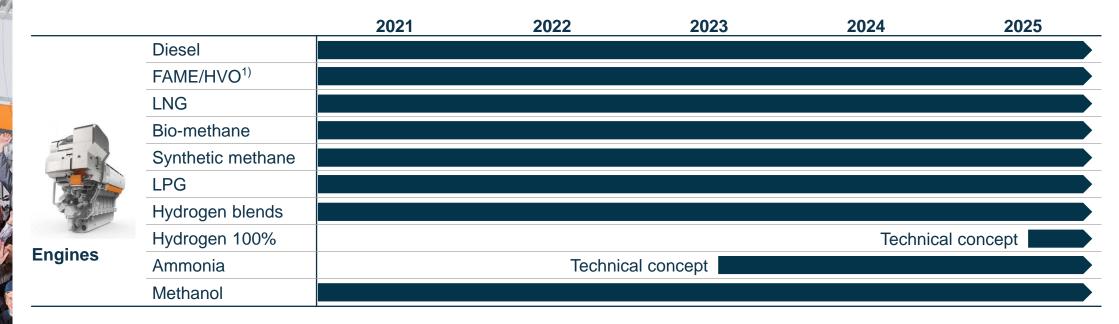
# WE CONTINUE INVESTING IN INNOVATION TO ENSURE A BROAD, INDUSTRY-LEADING SOLUTION OFFERING



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



# Front-runner in alternative fuel engine technology

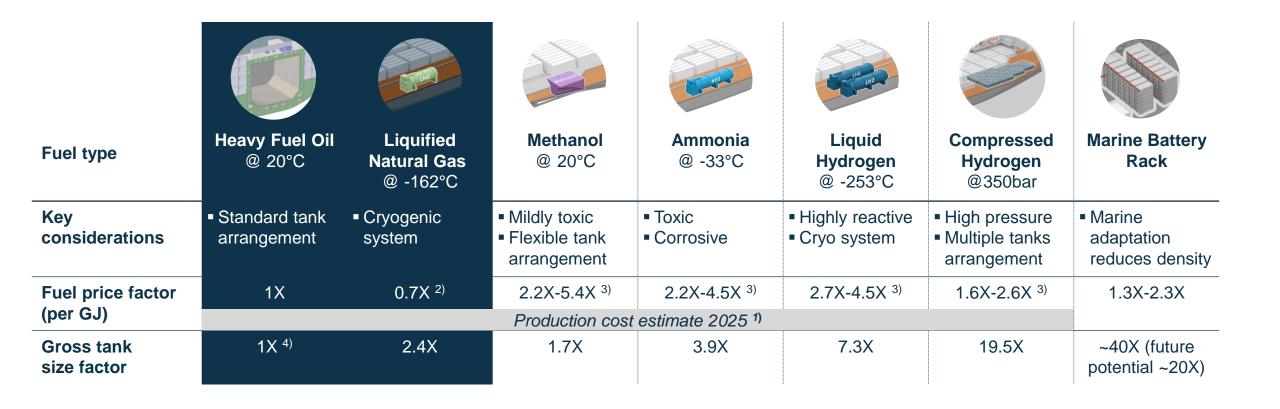


1) FAME, HVO: biodiesel

TATA



# Fuel conversions will play a vital role in the fuel transition for both existing and new vessels built during this and next decade. Fuel selection impacts the vessel structure



1) Sources: Maersk Mc-Kinney Møller Center for Zero Carbon Shipping – Industry transition strategy 2021, Wärtsilä-DNV collaboration; 2) fuel price for e-methane is expected to be in a range similar to e-methanol; 3) fuel price range spans across blue, bio and green-electro equivalent; 4) gross tank estimations based on Wärtsilä experience

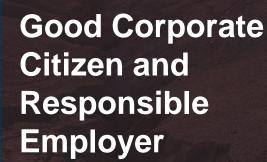
# Wärtsilä's ESG Agenda in brief





# Ambitious decarbonization targets for 2030

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



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

Effective Governance model

 Sustainability matters embedded

# Sustainability is integrated into our strategy and purpose

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

#### **Environment**

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

Customer &

POSITIO oonisation of mari

PURPOSE Enabling sustainable societies through innovation in technology and services

Social

Being a good

employer.

corporate citizen

and responsible

**Economic** 

Customer & Shareholder value 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

> Efficient, profitable, and competitive company operations

WÄRTSILÄ

# **V**ÄRTSILÄ

2030

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

2021

# **OUR MAIN DECARBONISATION INITIATIVES**

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Low emission company vehicles +/€ Heat pumps in heating +/€€

Energy efficiency measures +/€

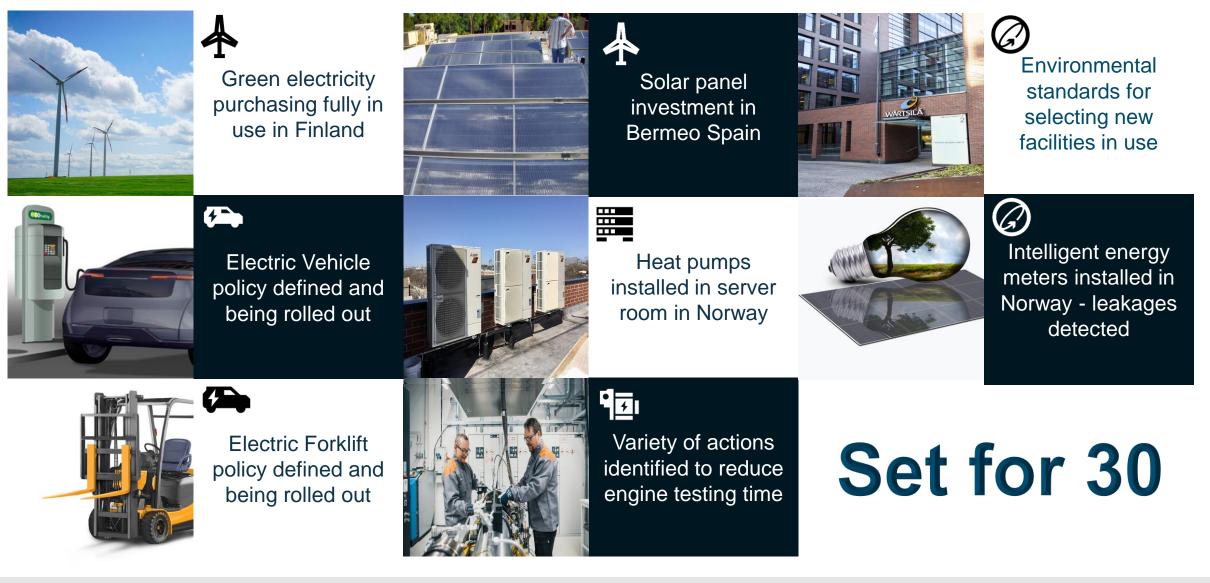
- R&D and factory engine testings reduced time +/€
- Self-generation and green electricity +++/€€
- A Simulations and other technologies +/€
  - Replacing fossil fuels with alternative fuels +++/€€€

+ GHG reduction potential € Cost to reduce



# Wärtsilä "Set for 30" is progressing well

Variety of concrete actions have been taken – some examples



# Wärtsilä's 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

# Wärtsilä's Governance Model



#### External Audit

Elected by the Annual General Meeting to audit the consolidated and parent company financial statements and accounting records, and the administration of the parent company.

#### **Internal Audit**

Analyses the company's operations and processes, as well as the effectiviness and quality of its supervision mechanisms. The function reports at regular intervals to the Audit Committee.

### Annual General Meeting

The Annual General Meeting is Wärtsilä's ultimate decision-making body.

### **Board of Directors**

The Board of Directors consists of eight members elected by the Annual General Meeting. They are responsible for the strategic management of the company.

#### **President & CEO**

The Board of Directors appoints the President & CEO, who is in charge of the operative, day-to-day management of the company

### **Board of Management**

The Board of Management supports the President & CEO.

#### **Thematic Boards**

Thematic Boards preparing and aligning for Board of Management decision on topical matters like strategy, sustainability, cyber, etc

#### **Shareholders' Nomination Board** The Nomination Board prepares matters

pertaining to the appointment and remuneration of the Board of Directors.

#### Audit Committee

The committee's responsibilities include monitoring the financial reporting process and the efficiency of the internal control, internal audit, and risk management systems.

#### **People Committee**

The committee's responsibilities include preparing matters concerning the nomination and remuneration of the President & CEO, the CEO's deputy, if any and the members of the Board of Management.

# SIGNIFICANT VALUE CREATION POTENTIAL





### ENERGY

Intermittent sources of energy require balancing solutions. By 2030, the balancing power market is expected to grow >10X.

#### MARINE

An unprecedented rate of change driven by regulations and demand for green transport. 50% GHG reduction in shipping by 2050



## TARGET POSITION

SHAPING THE DECARBONISATION OF MARINE & ENERGY

## LEADING OFFERING TO SUPPORT OUR CUSTOMERS IN DECARBONISATION

FUEL FLEXIBLE ENGINES ENABLING DECARBONISATION BATTERY, ENERGY SAVING, AND EMISSION ABATEMENT TECHNOLOGIES THERMAL BALANCING AND ENERGY STORAGE ENERGY EFFICIENCY & POWER SYSTEM OPTIMISATION

THE WIDEST SERVICE NETWORK IN THE INDUSTRY DIGITAL SOLUTIONS ENABLING OPTIMISED OPERATIONS AND SERVICE

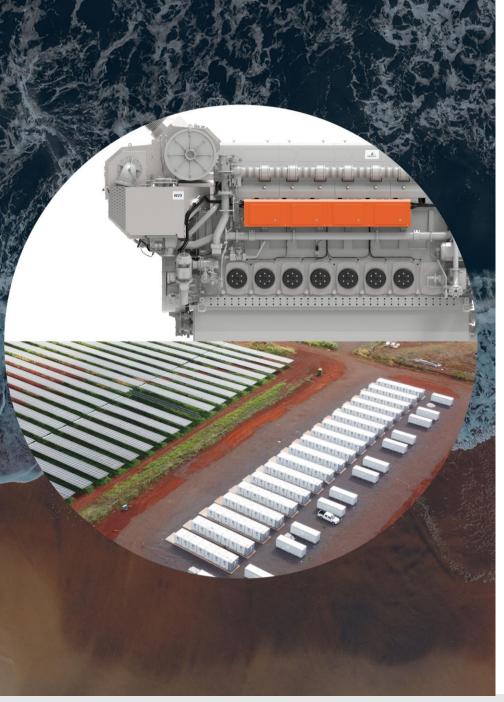


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# Financial development in Q3



# Good order intake – cost inflation and business mix burdened profitability

- Order intake increased by 36%
- Net sales increased by 30%
- Good progress in services:
  - Service order intake increased by 27%
  - Service net sales increased by 13%
- Comparable operating result decreased by 6%
- Intensifying cost inflation, prevailing disturbances in supply chains, tightening monetary policies, and challenging macro environment are creating turbulence within the global business environment.
- Last week, we announced that we are taking the next step to further strengthen our marine end-to-end lifecycle offering by integrating the Voyage business into Marine Power as a business unit.





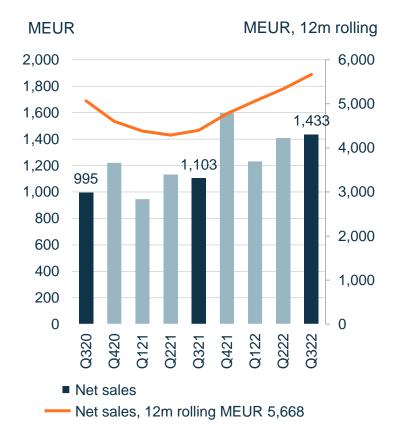
# **Key figures**

MEUR	7-9/2022	7-9/2021	CHANGE	1-9/2022	1-9/2021	CHANGE
Order intake	1,616	1,186 578	36% 27%	4,436	3,584 1,868	24% 22%
of which services	732			2,275		
Order book				6,229	5,325	17%
of which current year deliveries				1,651	1,402	18%
Net sales	1,433	1,103	30%	4,072	3,181	28%
of which services	664	589	13%	1,991	1,717	16%
Book-to-bill	1.13	1.07		1.09	1.13	
Operating result	10	75	-87%	-62	170	
% of net sales	0.7	6.8		-1.5	5.3	
Comparable operating result	82	87	-6%	232	199	17%
% of net sales	5.7	7.9		5.7	6.3	

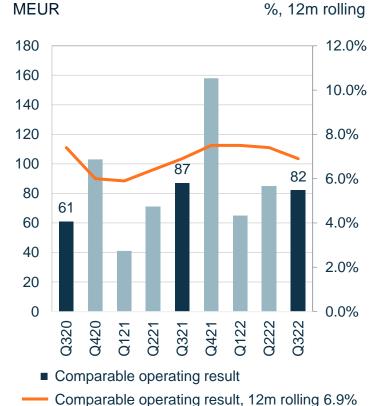
Wärtsilä's financial information for the year 2021 has been adjusted to reflect a change in categorisation between equipment and services in Wärtsilä Marine Power and Wärtsilä Marine Systems. This restatement has no impact on the group's total financial figures.

# **Third quarter highlights**

#### **Net sales**



#### **Comparable operating result**



# Net sales EUR 1,433 million

WÄRTSILÄ

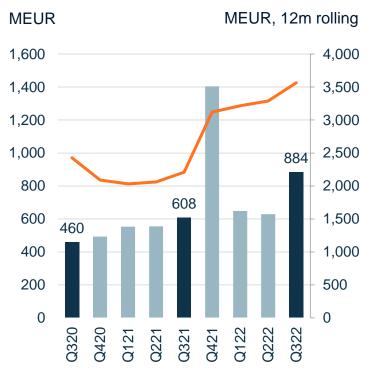
 13% increase in service sales

Comparable operating result EUR 82 million

6% decline

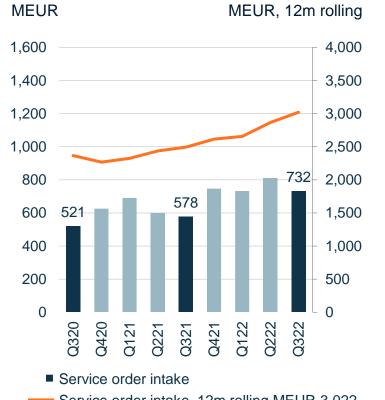
# Order intake increased by 36%

#### Equipment



Equipment order intake
 Equipment order intake, 12m rolling MEUR 3,565

#### **Services**



- Service order intake, 12m rolling MEUR 3,022

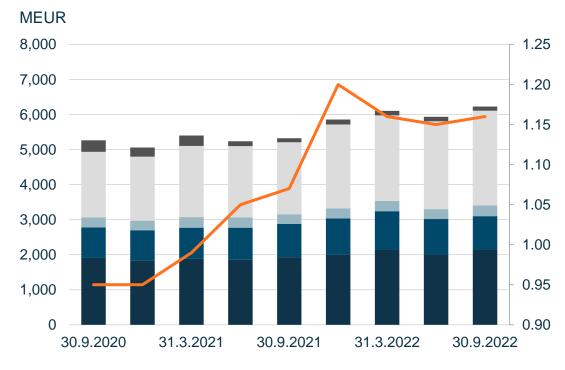
# **VÄRTSILÄ**

- Equipment order intake increased by 45%
- Service order intake increased by 27%

# Strong order book



#### Order book by business

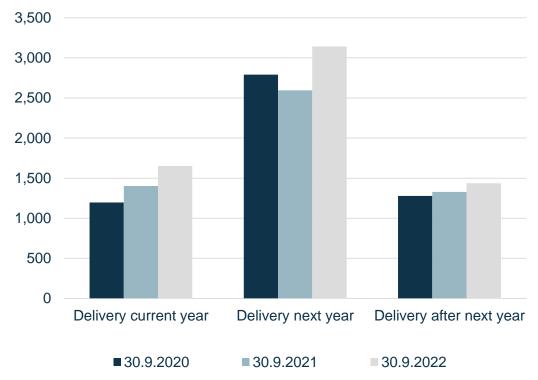


■ Marine Power ■ Marine Systems ■ Voyage ■ Energy ■ Portfolio Business

Book-to-bill, 12m rolling 1.16

#### Order book delivery schedule

MEUR







## **Board of Management**



Håkan Agnevall, President & CEO



Arjen Berends, Chief Financial Officer



Tamara de Gruyter, President, Wärtsilä Marine Systems



Kari Hietanen, Corporate Relations and Legal Affairs



Roger Holm, President, Wärtsilä Marine Power



Hannu Mäntymaa, President, Wärtsilä Voyage



Atte Palomäki, Communications, Branding & Marketing



Teija Sarajärvi, Human Resources



### **Board of Directors**



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



Risto Murto, Deputy Chair of the Board, President & CEO of Varma Mutual Pension Insurance Company



Karin Falk, President, Husqvarna Construction Division



Johan Forssell, President and CEO of Investor AB



Karen Bomba, President of Smiths Interconnect 2017–2020



Mats Rahmström, President & CEO of Atlas Copco AB



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



Tiina Tuomela, CFO, Uniper SE



# Largest shareholders 6 December 2022 (Euroclear)

#	Name	Shares	Share %
1	Invaw Invest AB	104,711,363	17.70%
2	Varma Mutual Pension Insurance Company	31,768,252	5.37%
3	Ilmarinen Mutual Pension Insurance Company	15,121,503	2.56%
4	Elo Keskinäinen Työeläkevakuutusyhtiö	6,898,000	1.17%
5	The Social Insurance Institution of Finland	5,517,730	0.93%
6	Svenska Litteratur-sällskapet i Finland Rf	5,171,277	0.87%
7	State Pension Fund	4,700,000	0.79%
8	Holdix Oy Ab	4,139,400	0.70%
9	Jenny and Antti Wihuri Foundation	2,700,000	0.46%
10	Sigrid Jusélius Foundation	2,374,505	0.40%
	Nominee registered	191,657,187	32.39%
	Total	591,723,390	100.00%



# Wärtsilä in brief

WĀRTSILĀ

WÄRTSILÄ

# **KEY FIGURES 2021**

# Order intake **5,735 MEUR**

# Net sales 4,778 MEUR

Comparable operating result 357 MEUR 7.5% of net sales

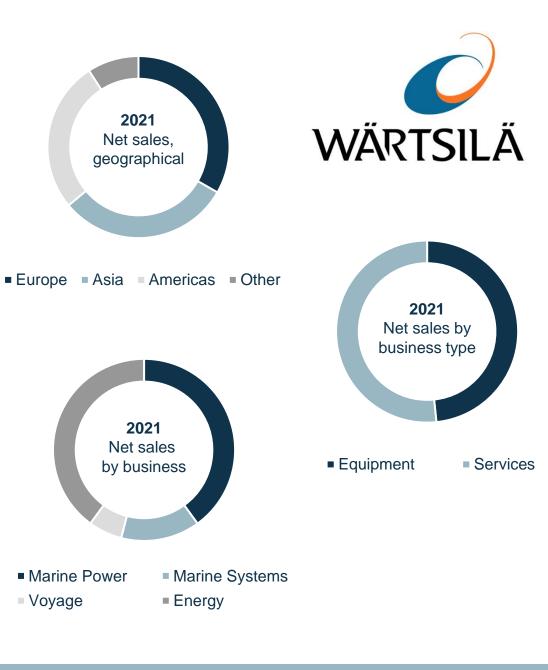
## Operating result 314 MEUR 6.6% of net sales

Cash flow from operating activities **731 MEUR** 

Personnel **17,000** 







#### Investor relations

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Clear financial targets and strong commitment to realise them			Robust capital allocation principles and active portfolio management	Strong track record in innovations Investing ~3% of net sales on R&D yearly		Solid balance sheet MEUR 800 700	
H <b>a</b> ta	Notable opportunity in retrofits and conversions	R	Extensive service network, positioned for growth both in transactional services and performance-based agreements	<b>Today:</b> engines run on I methanol, up to 25% hy <b>By 2023:</b> pure ammonia concept ready	drogen blends	600 500 400 300 200	
<ul> <li>High performing teams</li> <li>Performance excellence and robust execution</li> <li>Continuous improvement</li> <li>Cost structure – actions taken when necessary</li> </ul>		By 2025: pure hydrogen fuel engine concept ready		100 0 2017 2018 2019 2 Net debt			
EUR Net sale		cial targets es ual organic growth	Capturing oppo decarbonisation Marine	ortunities arising from on			

- Increasing environmental regulations
- Demand for green sea transport, driven by companies' environmental commitments to their customers

WÄRTSILÄ

2020

2021

—Gearing-%

35% 30% 25% 20% 15% 10% 5% 0%

Need for fuel flexible engines 

#### Energy

- Country climate pledges •
- Coal phase-out •
- Renewables growth and the consequent need for • balancing power and energy storage
- Need for fuel flexible engines •



o 76 annuaí organic growth

**Profitability** 12% operating margin

**Capital structure** Gearing below 0.50

#### Dividend

Distribute a dividend of at least 50% of earnings



# MAIN COMPETITORS

### **ENGINES**

# OTHER MARINE SOLUTIONS / OTHER ENERGY SOLUTIONS

MAN Himsen Rolls-Royce INNIO

# **CUSTOMER BASE**

Kongsberg Alfa Laval GE Siemens Schottel GE Siemens Tesla Fluence

# MARINE BUSINESSES

Ship owners Ship operators Ship management companies Charterers Shipyards Port authorities ENERGY

Utilities Independent Power Producers (IPPs) Industrial customers



# For more information, call us or visit our **Investors page**

#### Next upcoming IR events

- 3 January 2023, Pre-silent call with CFO
- 31 January 2023, Financial Statements Bulletin 2022

### Wärtsilä Investor Relations

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