WÄRTSILÄ INDUSTRIAL OPERATIONS FOOTPRINT NOW AND IN THE FUTURE LARS HELLBERG

GROUP VICE PRESIDENT, WÄRTSILÄ INDUSTRIAL OPERATIONS

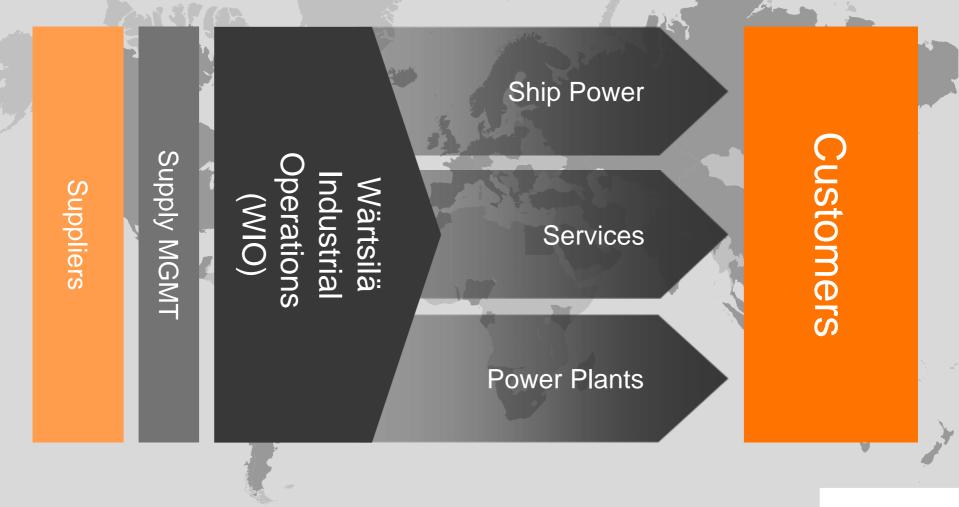




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Wärtsilä Corporation - Organisation







Our industrial challenge

The markets are volatile and require flexibility Wärtsilä meets external performance pressures effectively

- Increasing requirements on quality, delivery and cost and to deliver as promised
- Main market location shifting (customer presence in Asia)
- New industry cost-level (reduction by 10-30%)
- Increased environmental demands
- Increased pressure throughout the supply chain



A sustainable profitable growth for Wärtsilä

• 2009: WIO plans next moves

- New momentum to secure flexibility
- 2008 Market downturn
- 2006: Wärtsilä expands into Automation
- 2006: Market upturn much greater than expected
- 2005: Expansion into Asia

2008

- 2005: Clear market upturn
- 2004: Closed Turku factory, sold Mulhouse factory and intellectual property
- 2003: Wärtsilä volumes at lowest point
- 2002: Wärtsilä expands with Propulsion

2005

• 2001: Layoffs in Italy, sold welded part operations Trieste, closed Zwolle factory

2000: Market downturn

2003

Key data Wärtsilä 2004 Net sales 2.4 B€ EBIT 4.6 % People 11,000 #

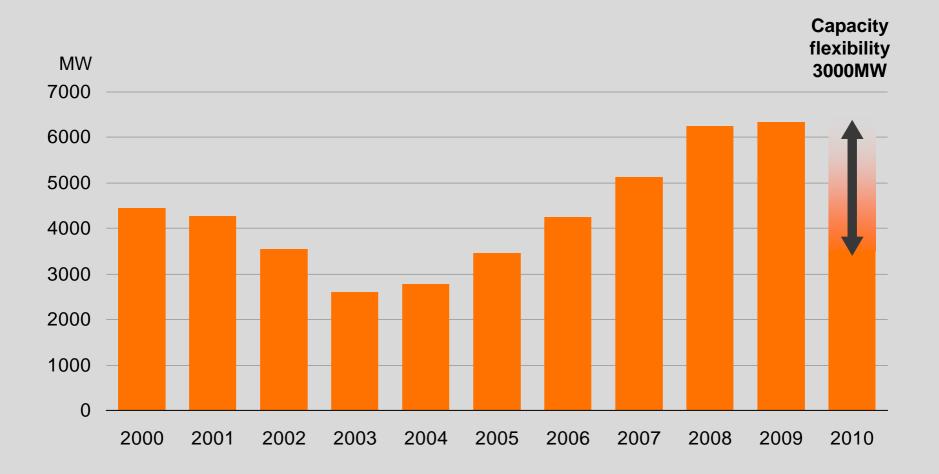
Key data Wärtsilä 2009 Net sales 5.3 B€ EBIT 12.1 % People 18.500 #



2000



WÄRTSILÄ



Flexibility is obtained from people, outsourcing, supply chain optimisation and streamlining of manufacturing foot print

Wärtsilä's current manufacturing capacity



Norway, 390 employees Propellers, gears, propulsion controls, R&D, power drives, power distribution, vessel automation Finland 1,430 employees Engine manufacturing, R&D

UK, 180 employees Seals, synthetic bearings, R&D

The Netherlands, 530 employees Propellers, thrusters, propulsion controls, R&D, DTS – Component Machining unit

Switzerland, 270 employees R&D and licensing **Spain**, 70 employees Engine manufacturing, R&D, blades, propellers Italy 890 employees Engine manufacturing, R&D India, 130 employees Gears, propellers, components, auxiliary engines

China, 1,130 employees Low-speed engines, thrusters, components, seals, bearings auxiliary engines, propellers, shaft lines, blades and hubs

> Japan 170 employees Seals, bearings

South Korea 30 employees Engine manufacturing

Number of employees December 31, 2009: 4,900 in Industrial operations, 18,541 Wärtsilä total

70-80% in Europe, 20-30% in Asia



Wärtsilä in China



WÄRTSI





- Local provision of competences as a service provider in a global network
- Operational engineering activities* are brought close to the customers
 - Better engineering support for customers
 - Closely located to local manufacturing
 - Local operational functions for application engineering, quality, problem solving, supplier development, product localisation and production support and development.
 - Shorter information loop to serve running projects
 - Shorter engineering lead-times, faster and more efficient
 - Growth support in Asia
 - Technical hub function
 - IP protection



* This excludes R&D activities

Capacity growth in Asia - examples



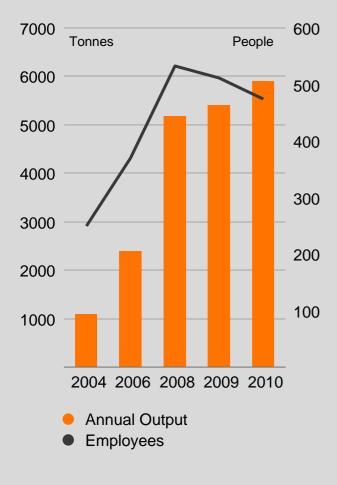


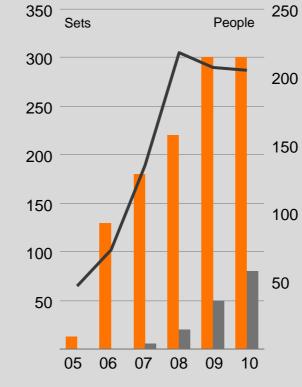
Wärtsilä CME (Zhenjiang) No 1 in China and 4th biggest FPP manufacturer in the world





Wärtsilä Qiyao Diesel Company Ltd. (Shanghai)

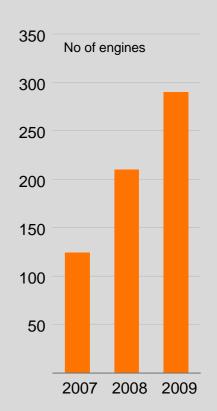




Tunnel Thrusters

Employees

Wärtsilä Transverse Thrusters



WÄRTSILÄ



Global economy and financial	Innovation & technical	Competitors and competitive landscape	Customer expectations	Regulations & environment
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Key issues:

- Volatile and unpredictable market calls for **flexibility in supply chain**
- Customer requests move from "technology" to "benefits of technology"
- Customer demands for quality (first time right and reliability), timely responses, short lead time, competitive life cycle costs, serviceability and high power output density.
- Environmental and Energy efficiency concern is raising throughout all world leaders.



Our transition: presence



2005

Engine division

- Vaasa (FI)
- Trieste (IT)
- Winterthur (CH)

Ship Power

- Khopoli (IN)
- Havant (UK)
- Drunen (NL)
- Santander (ES)
- Toyama (JP)
- Rubbestadneset PCP (NO)
- Slough (UK)

Expansion and focus to develop industrial competences in one division

2009

Wärtsilä Industrial Operations

- Vaasa (FI)
- Trieste (IT)
- Winterthur (CH)
- Khopoli (IN)
- Havant (UK)
- Drunen (NL)
- Santander (ES)
- Toyama (JP)
- Rubbestadneset PCP (NO)
- Slough (UK)
- Wuxi (CN)
- Stord (NO)
- Bermeo (ES)
- Zwolle (NL)
- Rubbestadneset PCA (NO)
- JV's:
- Zhenjiang (CN)
- Qingdao (CN)
- Mokpo (KO)
- Lingang (CN)

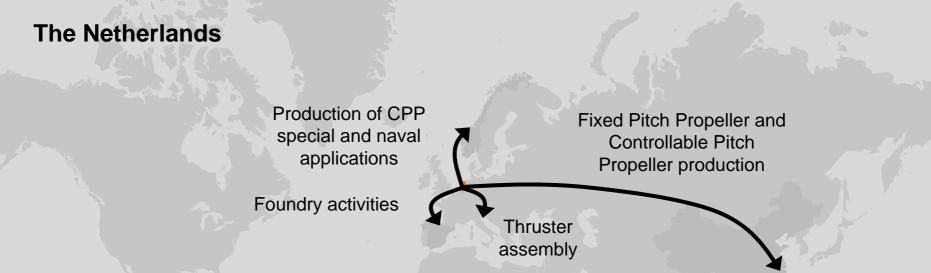
Targets 2010+

- Close to customers
- Assembly focused
- Global supplier base
- Plan to reduce European footprint
- Component manufacturing by supply chain



Plan to reduce European footprint



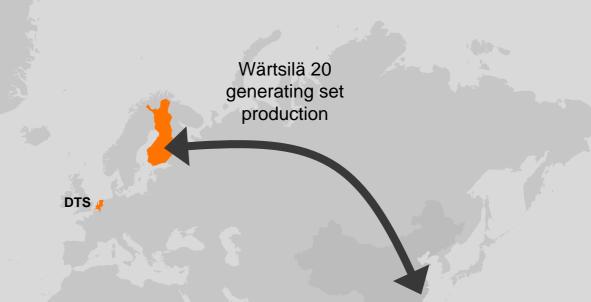


- Controllable Pitch Propeller manufacturing is planned to be moved to China and naval applications focused in Norway
- Thruster manufacturing is planned to be transferred to Trieste, Italy.
- **Foundry** (Fixed Pitch Propellers, blades and hubs) is planned to be moved to the existing foundries in China and Spain



Plan to reduce European footprint





The Netherlands

 Component manufacturing DTS in Zwolle is planned to be integrated into the supply chain.

Finland

Wärtsilä 20 generating set production moved to China

Back





2005

Engine division

• Engines (2-stroke and 4-stroke)

Ship Power

• Propulsion equipment

2009

- Engines (2-stroke and 4-stroke)
- Propulsion equipment
- Automation equipment
- Ecotech products

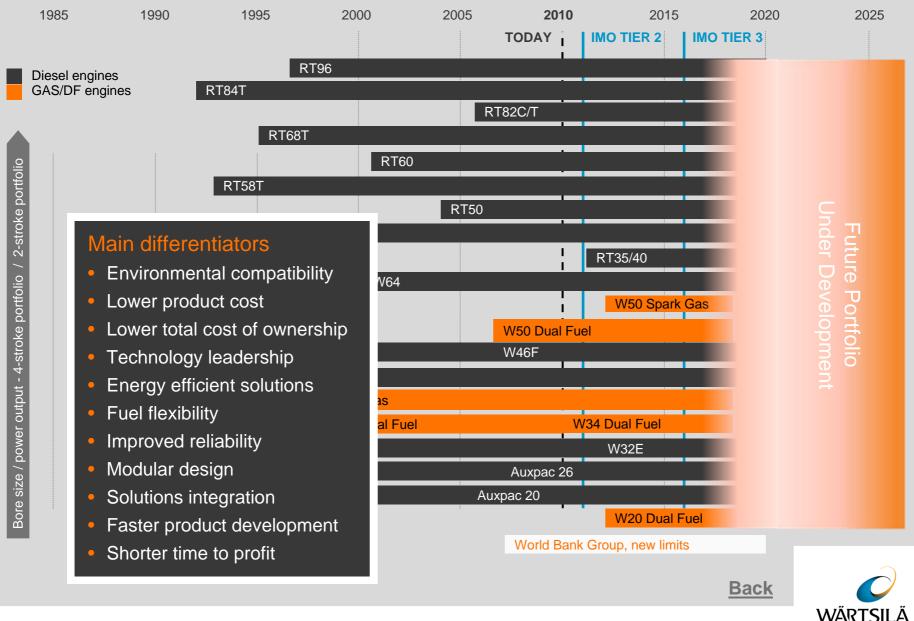
Targets 2010+

- Start renewal of portfolio
- Conceptual approach on commonality, modularity, platforms, design to manufacture, design to cost and design to service



Wärtsilä engine portfolio & focus areas



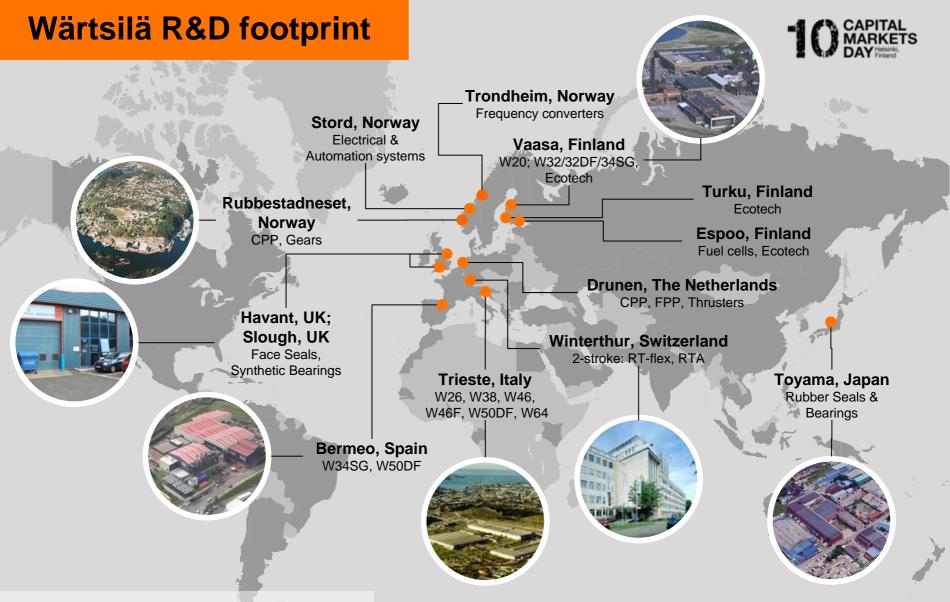


Wärtsilä R&D environment

CAPITAL MARKETS DAY

Global challenges = our opportunities CLIMATE AND ENVIRONMENT		ENERGY GUARANTEE (reliable power supply)		
Customer focus = our foc ENERGY EFFICIENCY	CUS ULTRA LOW EMISSIONS	RELIABILITY	LIFE CYCLE COST	
Our strengths PEOPLE WITH KNOWHOW	INNOVATIONS	SYSTEMATIC WAY OF WORKING	TESTING & VALIDATION	
Our improvement areasSTATE-OF-THE-ART SIMULATIONSUPPLY CHAIN INTEGRATIONDESIGN FOR MANUFACTURING, ASSEMBLY, COST, SERVICE ABILITY				





WIO R&D ~740 employees R&D spending 2010: EUR 141 million

Continuous strong focus on R&D and life-cycle solutions will further strengthen Wärtsilä's position as technology leader

R&D will be maintained in Europe



The WIO strategy 2010+



Main strategy	STRATEGIC GOAL We provide market leading products						
Main themes	Competitive product portfolio	R&D and manufacturing footprint with integrated supply chain	Quality, Delivery and Cost (QDC)				
■ Key Drivers	 Develop a streamlined portfolio of products Approach: commonality, modularity, platforms, design to manufacture, design to cost and design to service 	 Footprint close to the customers Capacity cost and capital efficiency 	 Focus on assembly and testing Flexible operations Pull production & continuous flow Secure competitive product cost Supply chain integration 				
	 Environmental solutions 	 Product Life Cycle Management 	 Standard commodity as well as tailor made products 				
Key Enablers	 People Performance Culture	Process developmentContinuous improvement	 Project Management Risk Management				





