



# Wärtsilä Capital Markets Day

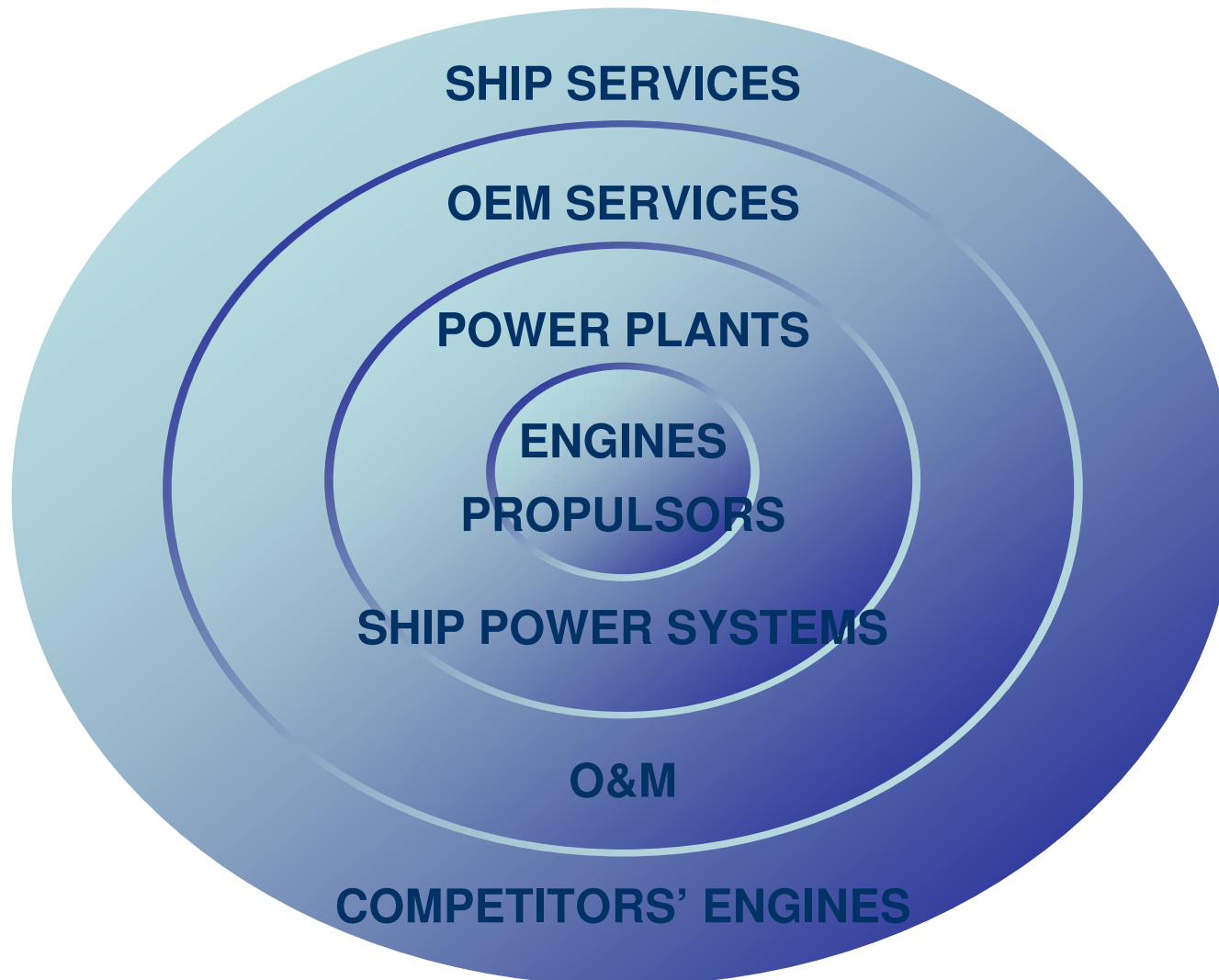


**Strategy and future plans**

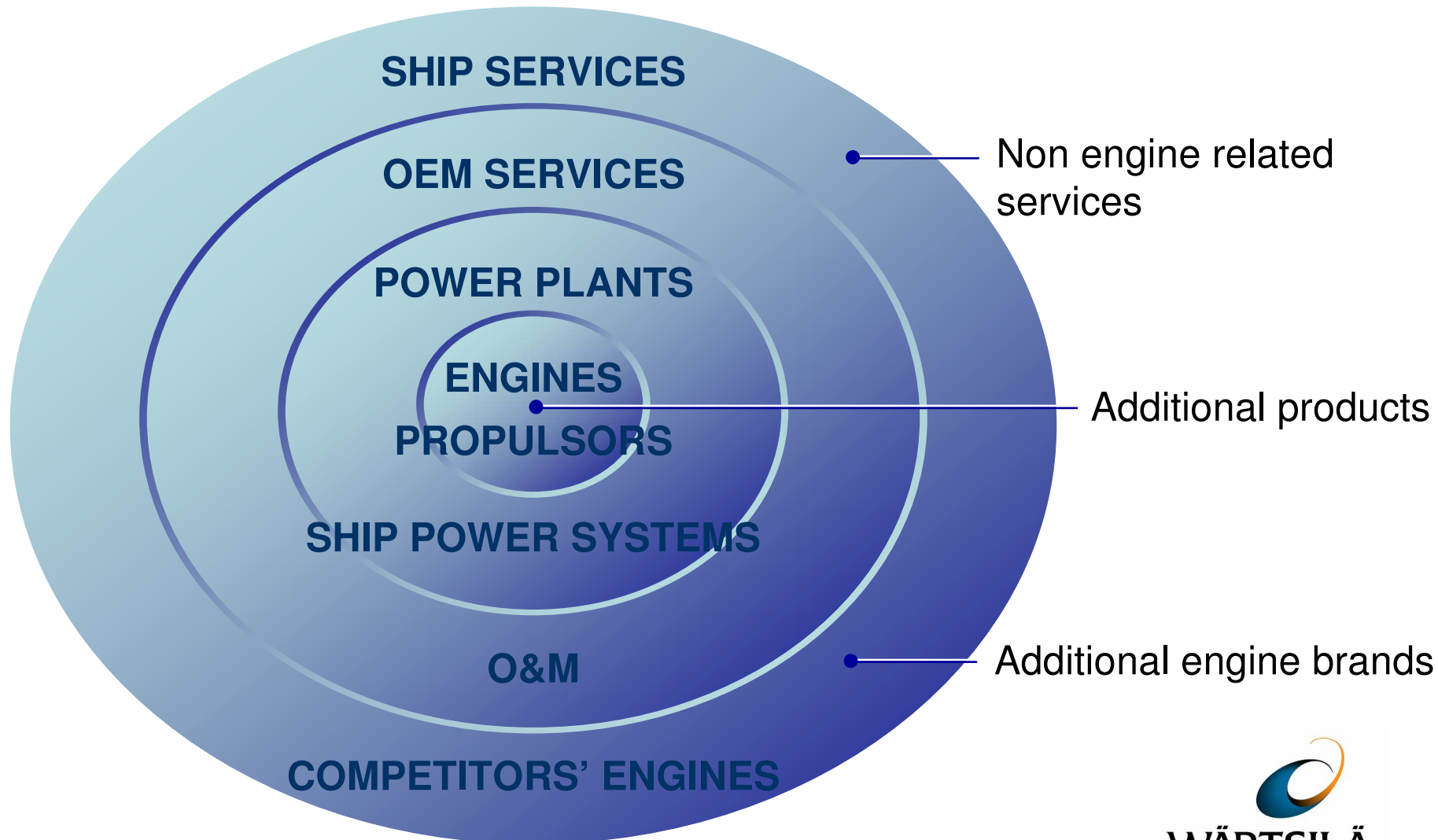
**Ole Johansson, President & CEO**

**Trieste, Italy, 31 May 2005**

**We are in business to power your business**

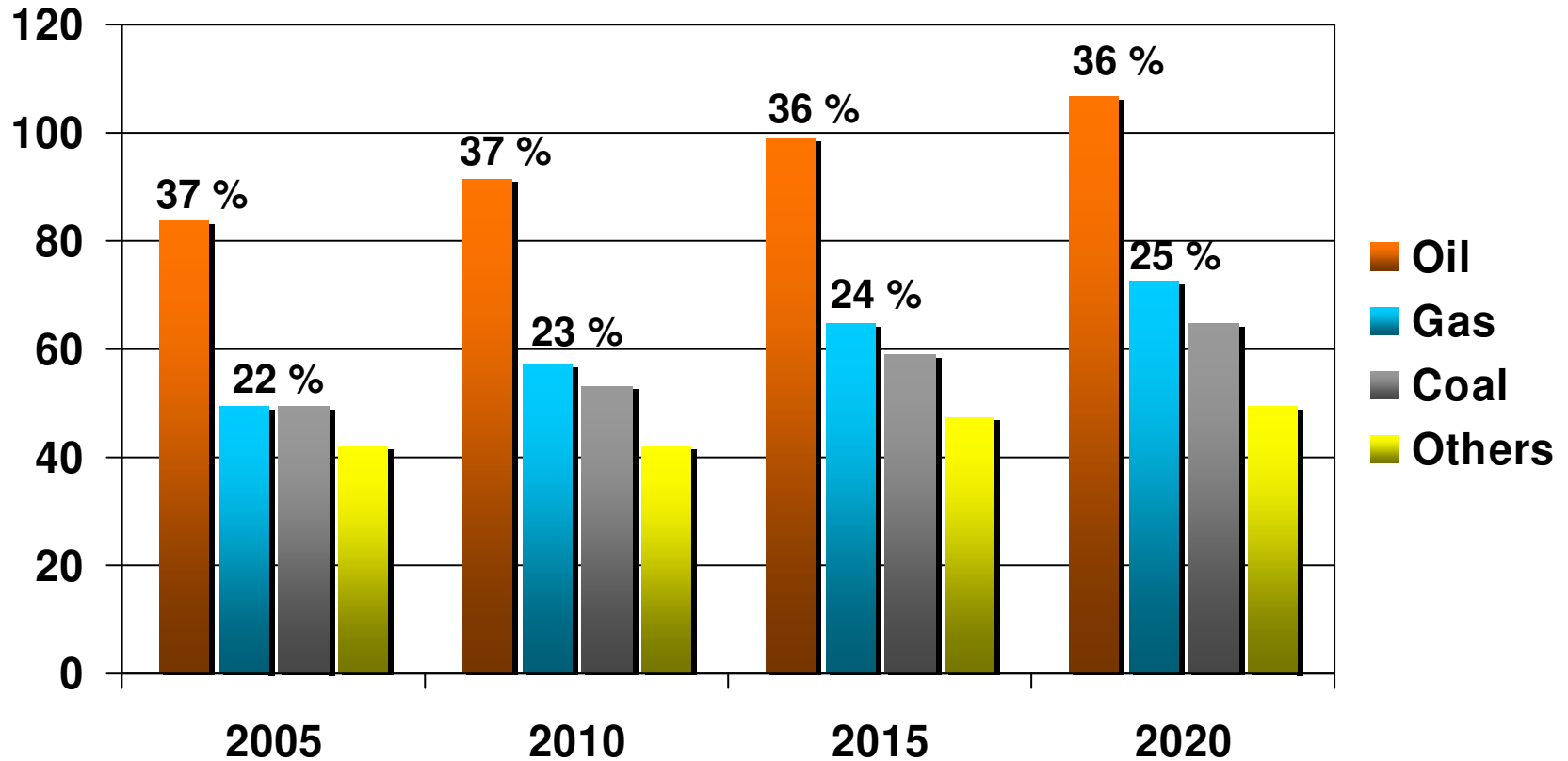


...and we are seeking growth beyond the organic growth



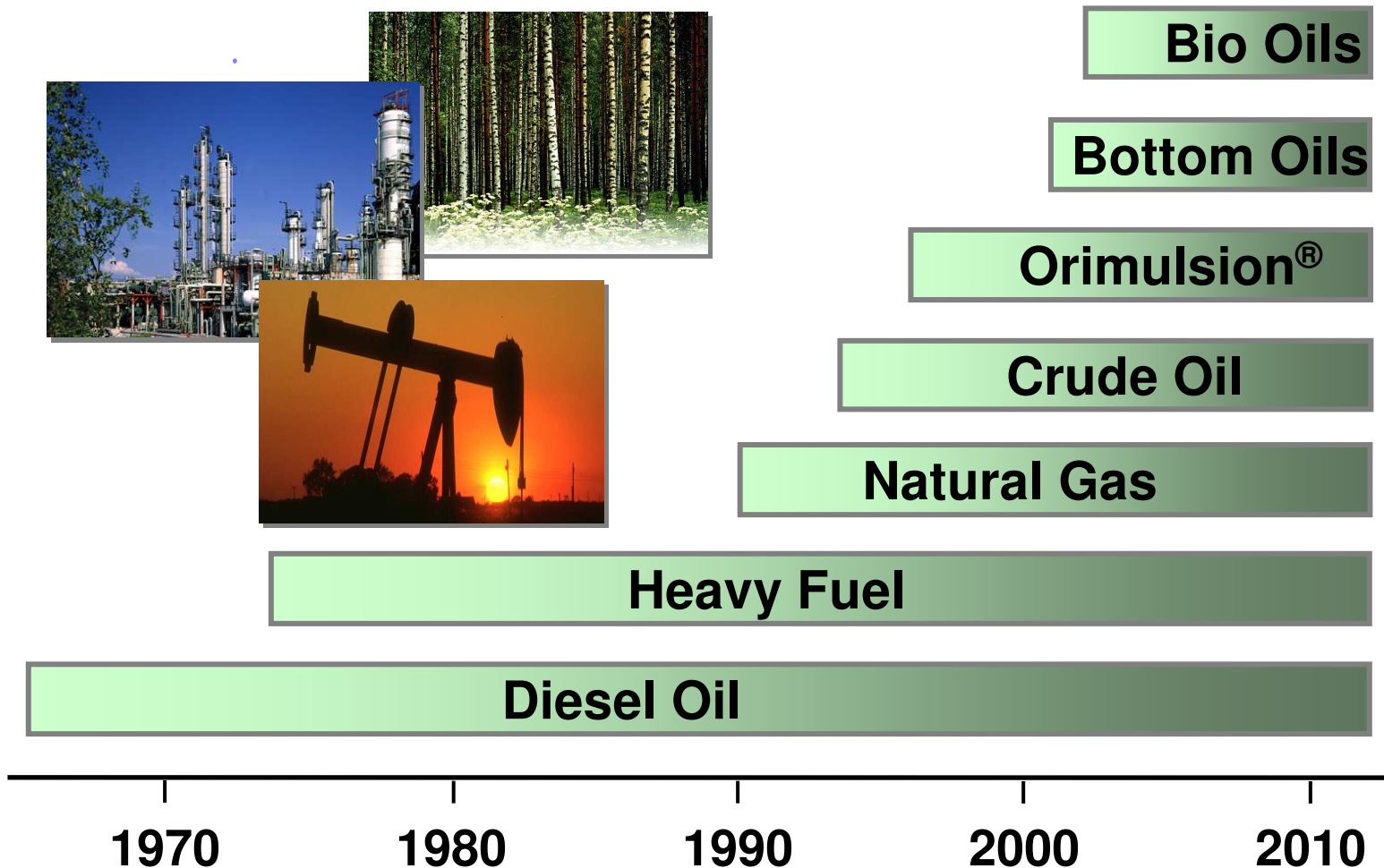
# Total Energy Consumption of the World

MBDOE

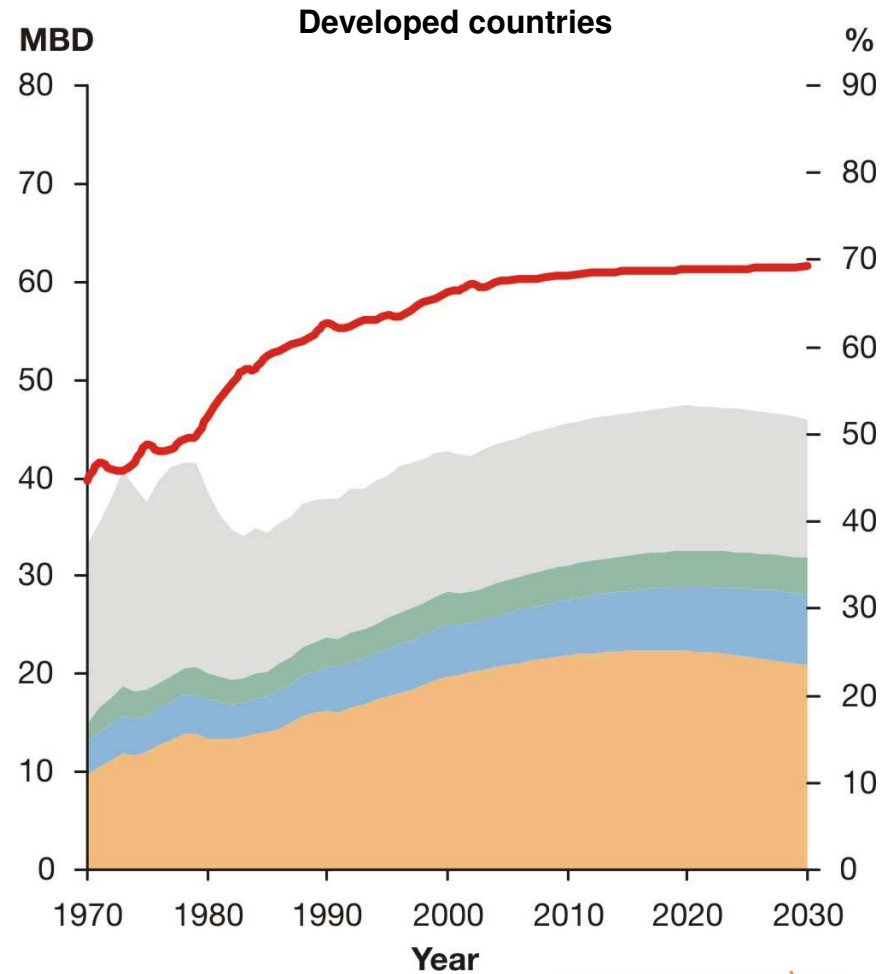
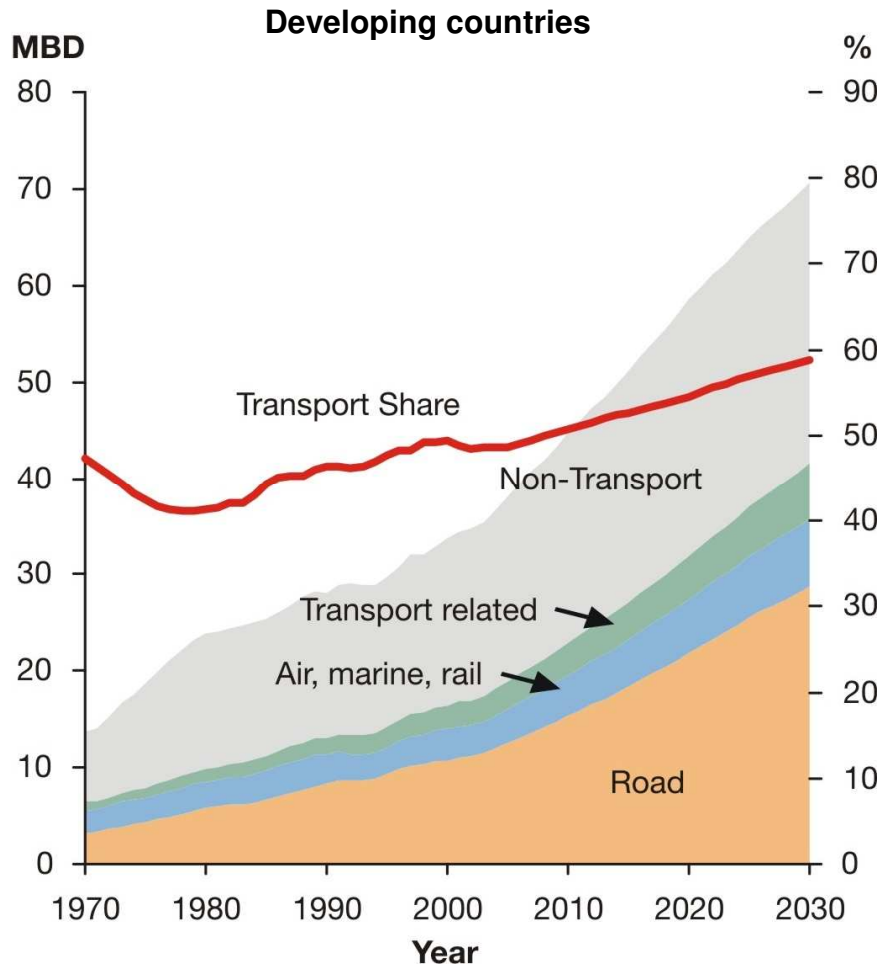


Source: ExxonMobil

# Status of fuel versatility - Wärtsilä engines

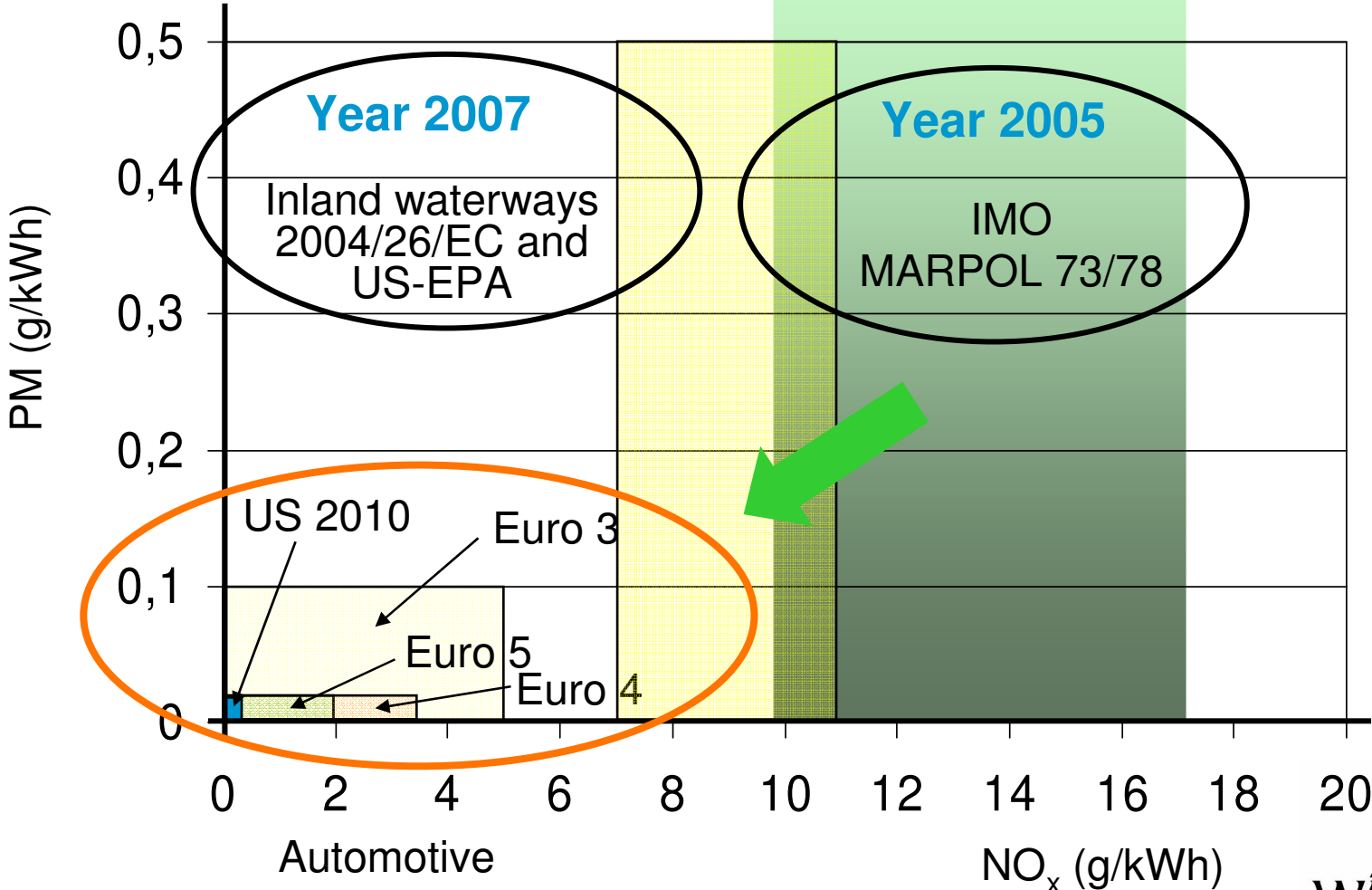


# Transportation demand shapes the oil barrel



Source: ExxonMobil

## Comparison of emission reduction requirements



## High electrical efficiency

- Wärtsilä gas engines (4...20 MW) 43...46 %
- Single cycle gas turbines (1...60 MW) 25...40 %
- Combined cycle gas turbines (> 50 MW) 50...57 %

## Flexible operation characteristics

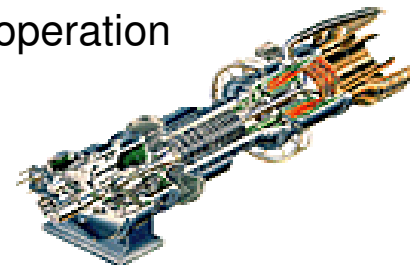
- Fast starting/stopping and loading
- High efficiency on part loads
- Low output reduction (derating) on high altitudes and temperatures

## Competitive emissions

- Primary NO<sub>x</sub> levels below most norms without secondary equipment

## Multi fuel options

- LFO & HFO and even crude oil possible. Gas turbines are not suitable for HFO
- Switching between fuels possible also during operation





# Gas engine business potential

## Power Plants

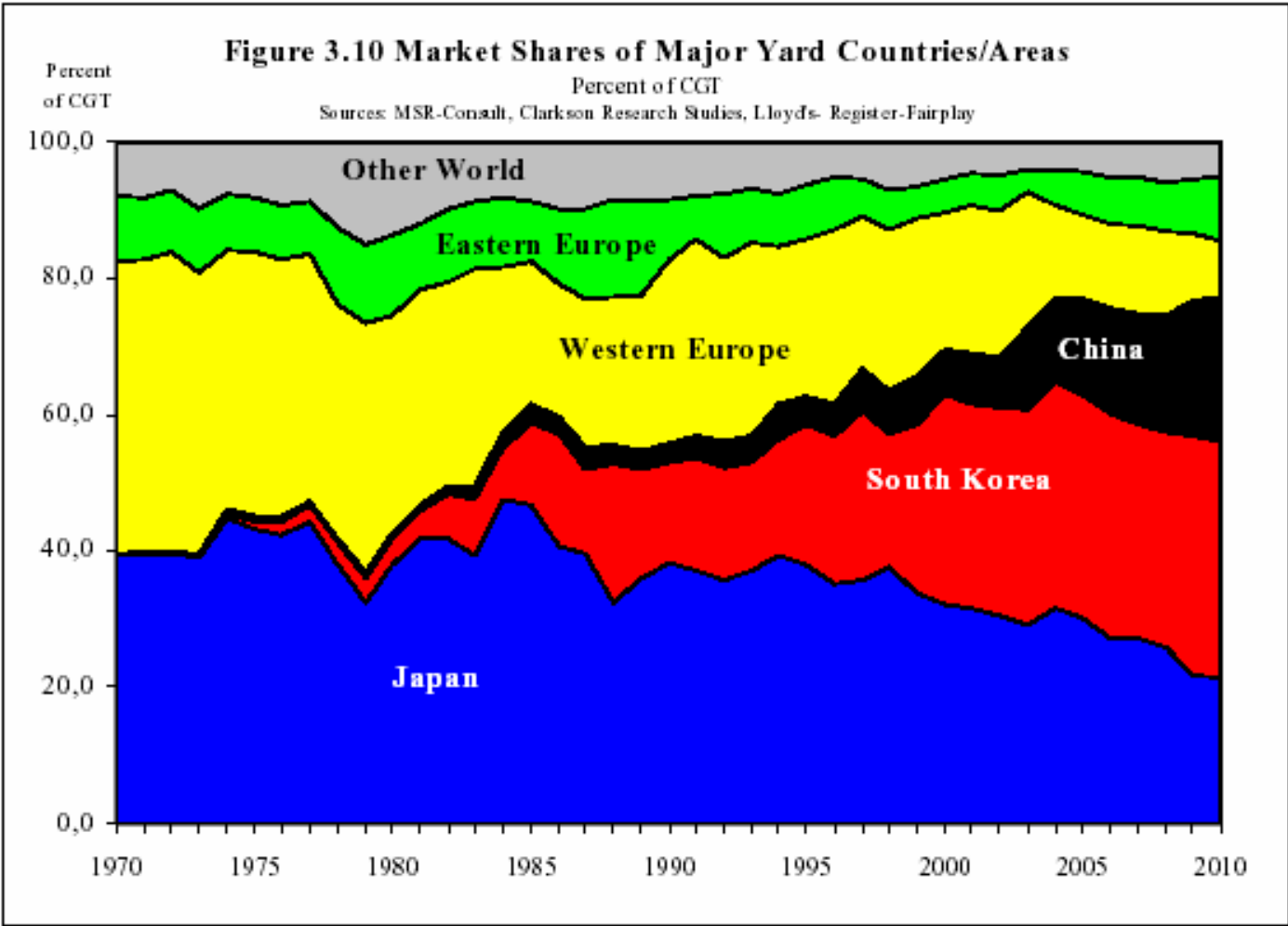
- Large scale load management plants (peak shaving) in strong grids. The benefits of gas engines have recently been demonstrated in USA
- Distributed power production where gas engines have a market to capture from gas turbines
- Fuel conversion of existing plants from HFO to gas

## Ship Power

- LNG carriers
- Floating LNG Storage & Regasification Units (FSRUs)
- Floating Production, Storage & Offloading Units (FPSOs)



# Forecasted geographical distribution of shipbuilding



Sources: MSR-Consult, Clarkson Research Studies  
Lloyd's Register-Fairplay

# Developing the service business – major trade routes

Six acquired and four Wärtsilä established CISERV companies since 2001



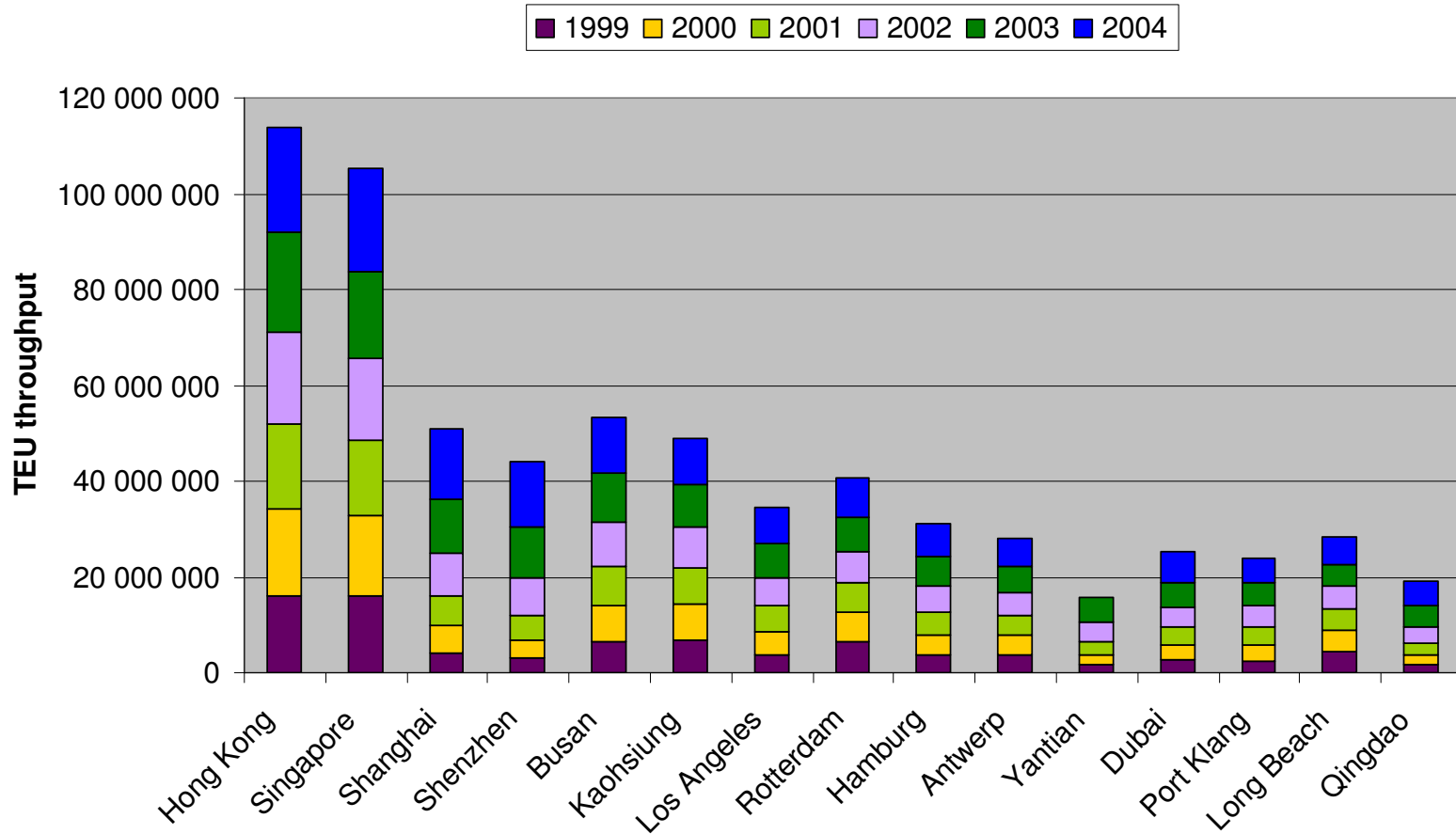
Ciserv concept will be further developed to ports where ships sail

# Developing the service business

## 15 major ports worldwide



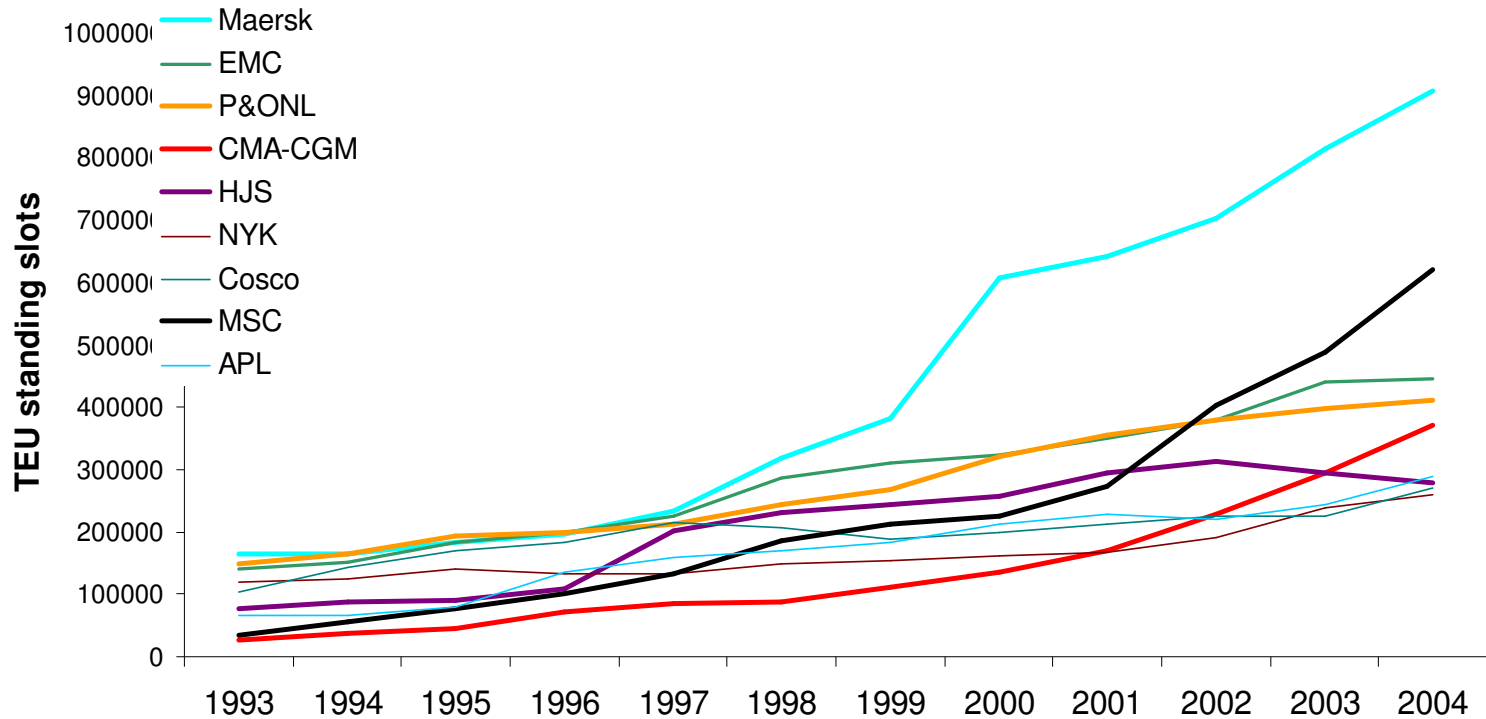
# Container port development 1999-2004



Note: figures are based on ship capacity, not actual container throughput

Source: Clarkson Research Studies

# Major lines' TEU fleet capacities 1993-2004



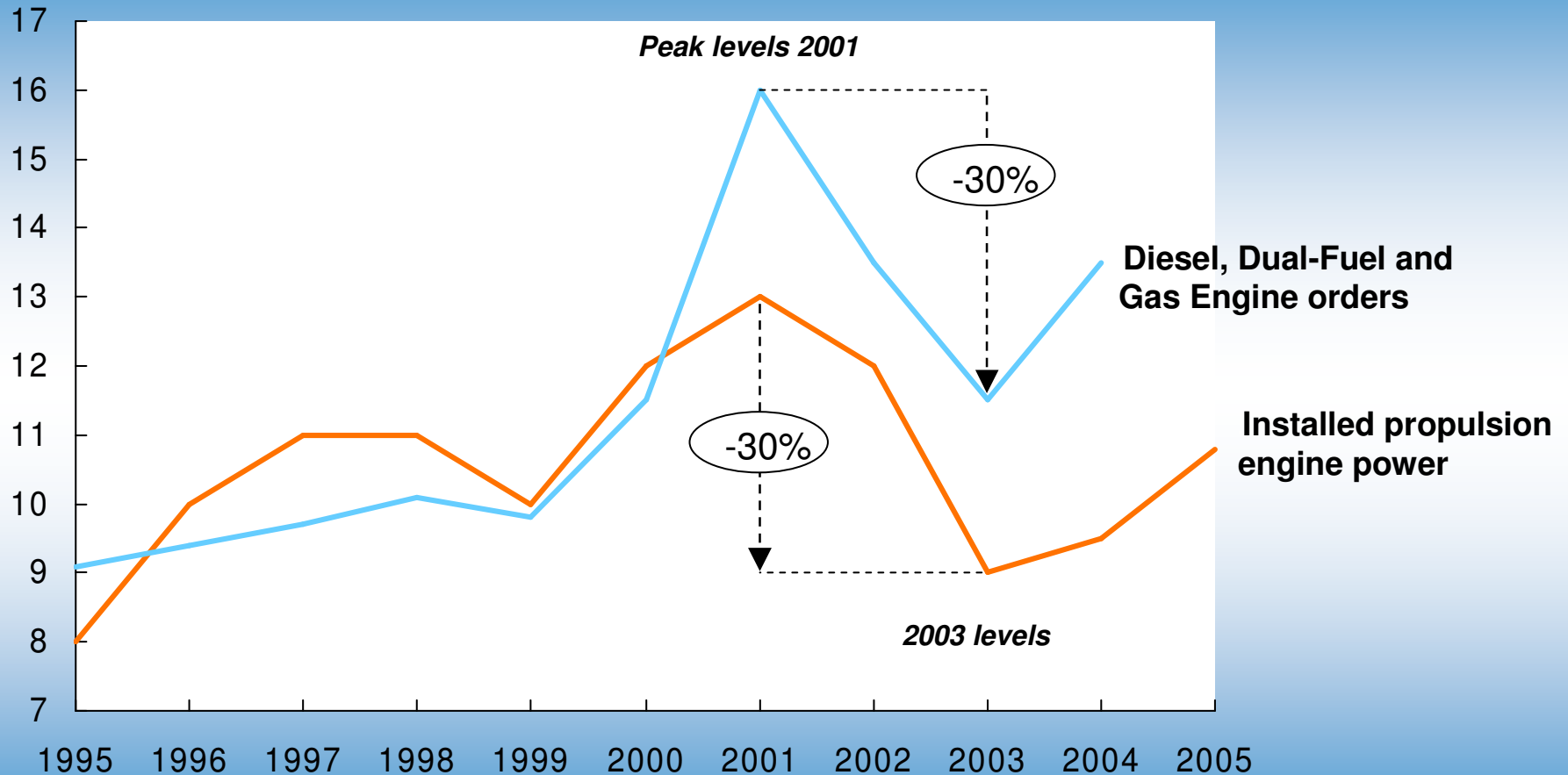
Source: Clarkson Research Studies

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# Volatile ship power and power plant markets

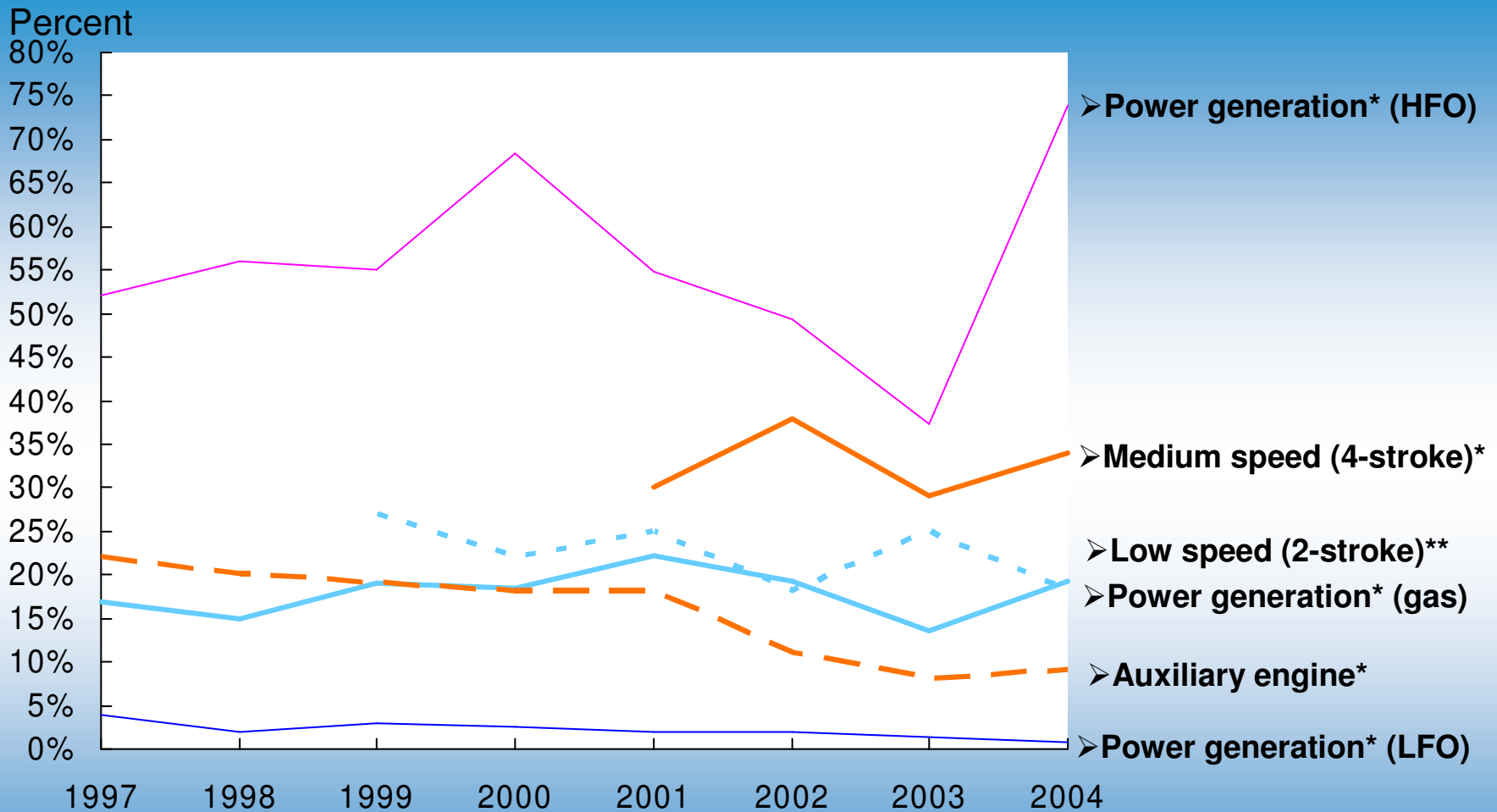
Engine power installed (propulsion) and orders (diesel, dual fuel, and gas)

GW



Source: Lloyds register of ships (installed marine power); Diesel & Gas Turbine Worldwide, Oct 2004 (Diesel, dual-fuel and gas engine orders)

# Market share development



\*Share of MW. Total market from Diesel & Gas Turbine, Wärtsilä sales from public reports

\*\*Share of MW. From Wärtsilä 2-stroke reporting

Source: Wärtsilä; Diesel & Gas Turbine (Power generation & Auxiliary engines  
Ship Power business intelligence (2-stroke & 4-stroke engines)





- 2005 net sales to grow approx. 15 %
- Profitability for the whole year 2005 around 8%
- 2006 net sales up approx. 10 % and profitability slightly better than 2005