Wärtsilä Capital Markets Day



Business Drivers

GDP growth

Population growth

The more people, the more energy is needed

Strive for increased standard of living

- Growing demand for energy
- Need for reliable systems



Environment

- General & political will to safeguard economical development with minimal impact on the environment
- Restrictions to build transmission lines in many populated areas -> decentralized power generation



© Wärtsilä 2

Electricity Market Trends

Political strive for more competition and free energy markets

- Privatisation
- Power pools
- Energy industry searches for new ways to compete

Environmental care

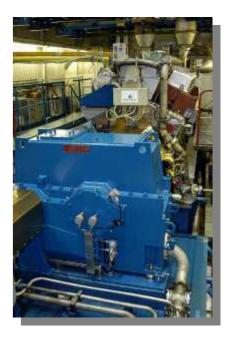
- Difficult to obtain permits for large projects
- Many fuels are almost "banned" coal, nuclear, hydro...
- > Tighter emission norms force technological development
- Kyoto Protocol & emission trading

Quality

Continuously increasing quality expectations

Geographical transitions

Market opportunities open up and disappear rapidly in various places on the globe. Emergency programs





© Wärtsilä 3

Customer Segmentation

Customer's Business

Energy Production

(Electricity & Heat)



Utility/Municipality/IPP

- ROI
- Availability
- Long-term Performance

Industrial Manufacturing (Cement, Paper, etc.)



Industry

- Savings
- Reliability
- Response time
- Peace of Mind



Main Customer Groups

Utilities

- Large state or publicly owned companies
- The level of technical skills varies from very good to very bad
- Changes of ownership in several countries
- Have generated the centralised large plant & main grid thinking
- Used to have infrastructure development responsibility from the state

Municipalities

- City "utility", often managing electricity, gas, water, sewage and possible district heating
- Limited technical skills

IPP's

- Investors who are looking for a good return for their investment
- Used to be US-based, now more local
- Buy complete solutions and very often a full O&M

Industry

- Large manufacturers of energy intensive products like cement, textiles, food, cars, paper etc.
- Invest in power generation to reduce risks or to reduce costs

Segment 1: Developing Countries

Most of Africa, many Latin American and Central Asian countries, many islands

Under-developed infrastructure

- The electricity grid is typically weak & overloaded. Large plants cannot be added without major grid investments
- Large coal, LNG etc. logistics do not exist

Impacts on power business

Fuel that can easily be made available is HFO. Engines are therefore the preferred technology

Financing

Projects typically require financial engineering

Wärtsilä's approach

- Modular power plants (5-100 MW) based on HFO or Dual Fuel engines
- WDFS active in development/financial arrangements

Segment 2: Growing markets

China, India, Russia, Turkey, East Europe, Brasil etc.

Rapid economical growth

- Political support for industrial growth
- Growth in electricity demand
- Construction of power generation, roads, harbours, gas pipelines

Impacts on power business

- Construction of new capacity; urgent demand often leads to decentralisation
- Introduction of local emission norms
- Transition from HFO to gas when available
- Electricity shortages & poor grid = emergency programs

Wärtsilä's approach

- > HFO and gas plants for IPP's (20-250 MW)
- ➤ HFO and gas plants (CHP) for industry (5-50 MW)
- HFO and gas plants for municipalities (5-50 MW)

Segment 3: Industrialized countries

West Europe, North America, Australia, Japan etc.

Slow economical growth

- Strong existing infrastructure
- Slow growth of electricity demand
- > Tight environmental norms
- Political support mainly for renewables
- Growing needs for peaking & reserve power
- Gas widely available, but concern of its long time availability and cost

Impacts on power business

- Cost of grid electricity going up
- Decentralised small scale power generation is growing
- Wind- and biopower are growing
- New major opportunities for peaking, grid frequency regulation and reserve capacity

Wärtsilä's approach

- Gas plants for IPP's/Utilities (50-200 MW)
- Gas plants for peaking/reserve (10-200 MW)
- Gas and HFO plants (CHP) for industry (5-50 MW)

Wärtsilä advantages

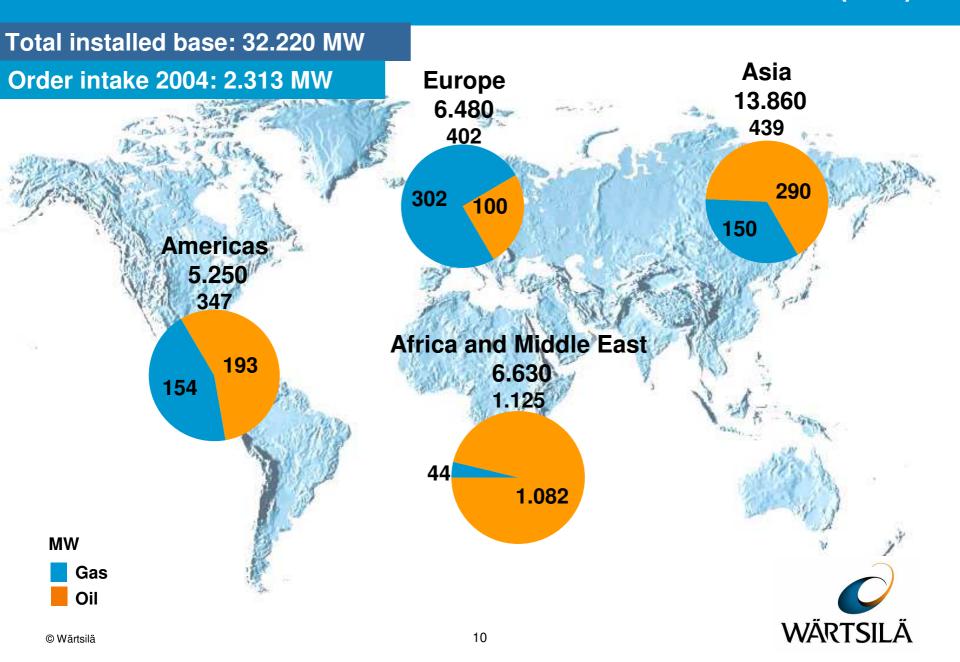
- Empowered and skilled global sales organisation
- Complete energy solutions
 - Project development capabilities
 - Complete plant delivery
 - Modular fast track delivery
 - Financial services
 - O&M with long-term commitment
- Technically advanced products
 - Technology leader on diesel and gas engines
 - Modular design of plants
- Very experienced project organization
- Short delivery times
- Global service
 - Service and spare parts available in most areas
 - Commitment to the future



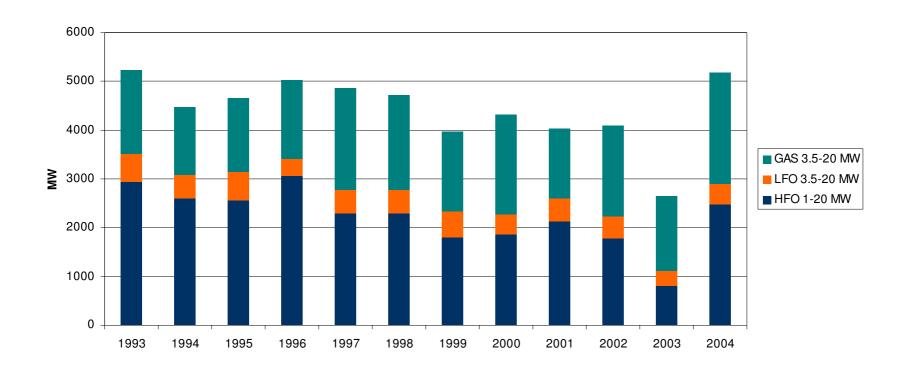


© Wärtsilä 9

Order Intake 2004 and Total Installed Base (MW)



Target Markets



- ☐ HFO 1-20 MW units (W20...W46)
- □ LFO 3.5-20 MW units (W32...W46). Below 3.5 MW = High speed engine market
- □ GAS 3.5-20 MW units (W34...W50). Below 3.5 MW = High speed engine market

11

