

Vattenfall Capital Markets Day 2006

Presentation by

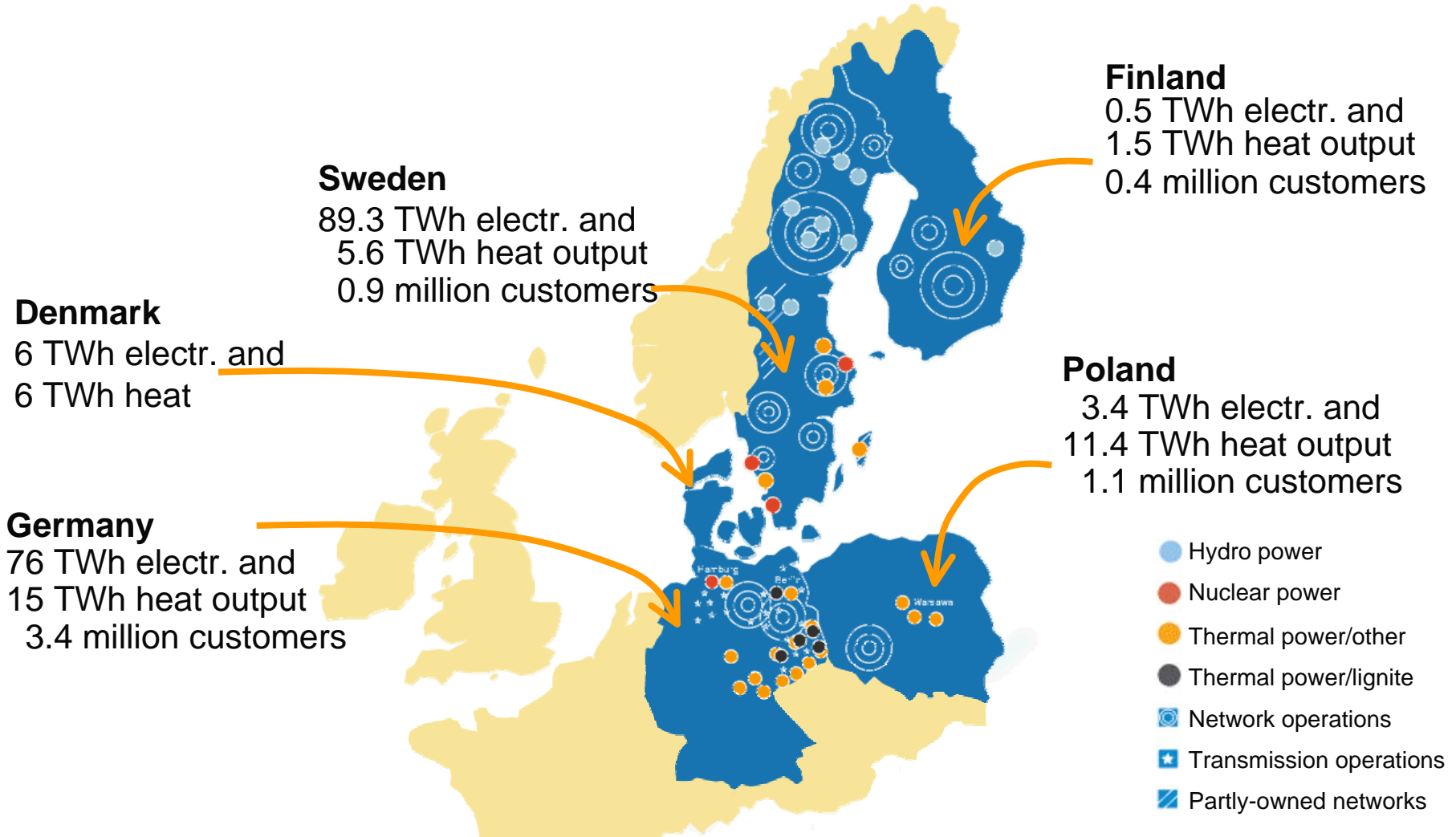
Lars G. Josefsson
CEO

Gothenburg, 9 August 2006

1. Overview
2. Industry trends
3. Regulation
4. Price development
5. Vattenfall's strategic focus
6. Curbing climate change
7. Conclusions
- *Back-up slides*

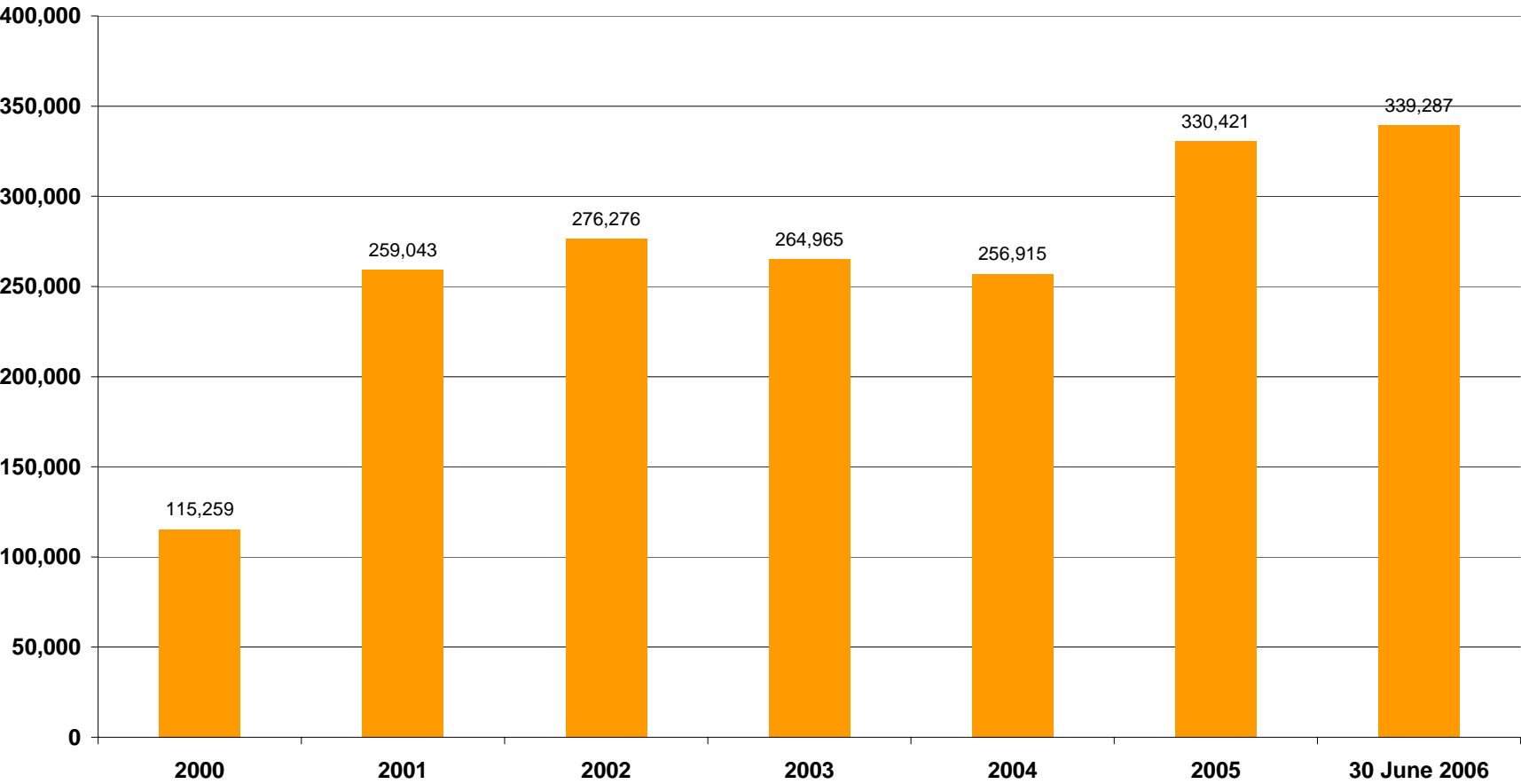
1. Overview

Strong position in Northern Europe



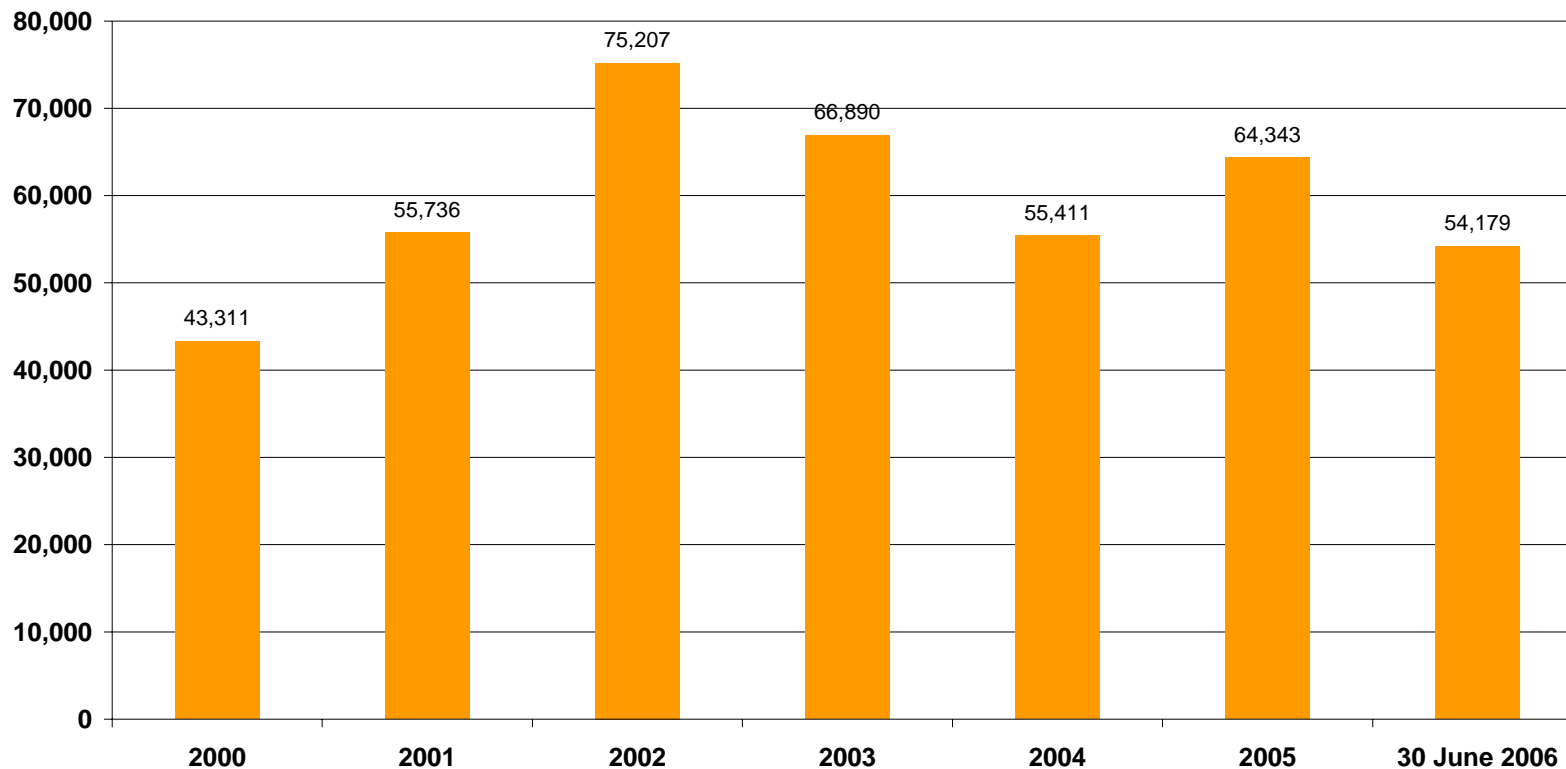
Total Assets increased from SEK 115 to 330 billion 5

SEK millions



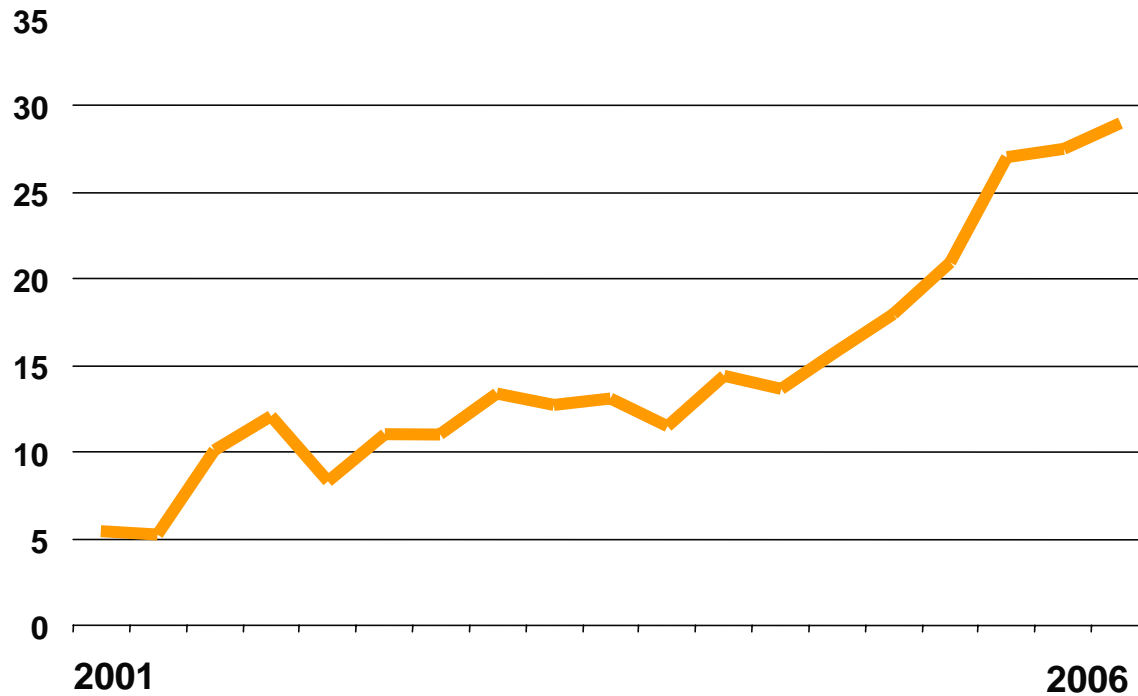
Net debt development over last six years

SEK millions



Strong increase in estimated equity value

EUR billion



Sources: Based on various investment bank estimates

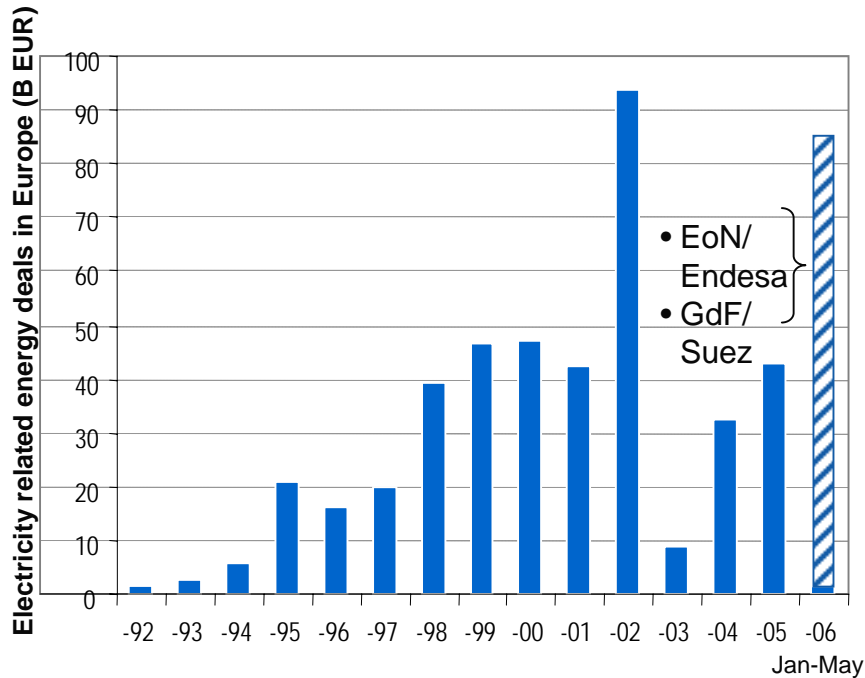
2. Industry trends



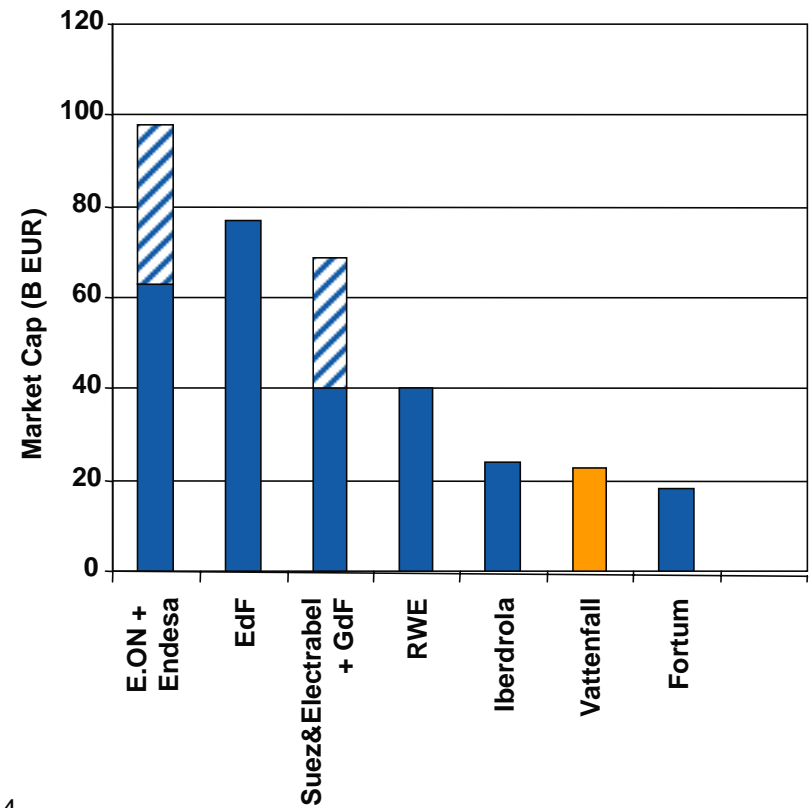
- Continued liberalization and privatisation, albeit in Poland stalled privatisation
- Increased M & A activity
- Increased protectionism
- Regulatory pressure on grids
- Increased concern for security of supply, fuel supply and risk for black-outs
- Increased debate on electricity price increases

Consolidation of large players

Continued industry consolidation



Creation of Mega-players



Left graph: Announced deals larger than 200 MEUR. Source: Mergermarket

Right graph: Stock market capitalisation as at March 2006.

Vattenfall market cap calculated as an average of 2004 & 2005 Net profit * P/E 14

Developments in value chain steps

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Regulatory and general developments:

- Increased importance of climate change
- Greater uncertainties
- Tighter regulation
- Increasing demands to handle new sources
- Tighter regulation
- Demands on higher quality (Nordic)
- Public & political opinions on price levels
- Discussed CHP support schemes could increase profitability

Commercial developments:

- Higher input and product prices
- Improved financial performance
- Squeezed between price and cost pressures
- Squeezed between price and cost pressures
- Increasing re-investment levels
- Further squeeze on margins
- Remarkable differences between profitability in UK vs. Nordic/DE
- Increased profitability due to rising fuel and consequently heat prices

3. Regulation

- Vattenfall is positive to a regulation based on the performance
- A regulatory model should reflect customers and societies demand for high quality of supply and good service
- Vattenfall believes tariffs shall be fair
 - Reasonable return for required quality
 - Reasonable return – all cost incurred shall be reflected in the tariffs

6 June 2006

Ruling from German regulator Bundesnetzagentur (BNetzA).

- Vattenfall must cut transmission tariffs by 17.9 % for July-Dec. 2006 (EBIT and cash flow impact of 459 MSEK)
- In addition, retroactive cut of tariffs for November 2005 – June 2006 (EBIT and cash flow impact of 507 MSEK)

BNetzA disapproved certain costs, primarily:

- costs for network losses,
- costs for balancing power in conjunction with increased feed in of wind power
- certain depreciation items

June 2006

Vattenfall appealed against the ruling of BNetzA at the Higher Regional Court in Düsseldorf

- Application for interim relief
- Formal filing of complaint (Hauptsacheverfahren)

21 July 2006

The court issues an interim relief:

- the court sees no substantial reason to delay the implementation of tariff cuts for the period July – December 2006 *but*
- rejects BNetzA:s demand on retroactive tariff cuts

Main court decision (Hauptsacheverfahren) is estimated to be issued within in 9-12 months

August 2006

Expected BNetzA ruling on the Distribution business (for tariffs until 2007)

End of 2006

Approval of transmission tariffs for the year 2007

Ex-post regulatory framework (The Network Performance Assessment Model)

- A theoretical network model.
- Penalty/award for “customer benefits”.
- Key assumptions for revenue:
 - Capital return
 - O&M
- In Febr. 2006 the Regulator ordered Vattenfall to repay 236 MSEK in network tariffs for 2003

Based on a notional network which does not fully reflect actual location of network (i.e. capital base different from reality).

Penalty. Extremely high quality expectation.

*Low (assumed low L-T interest rates)
Unrealistic low expectation (50% cut)*

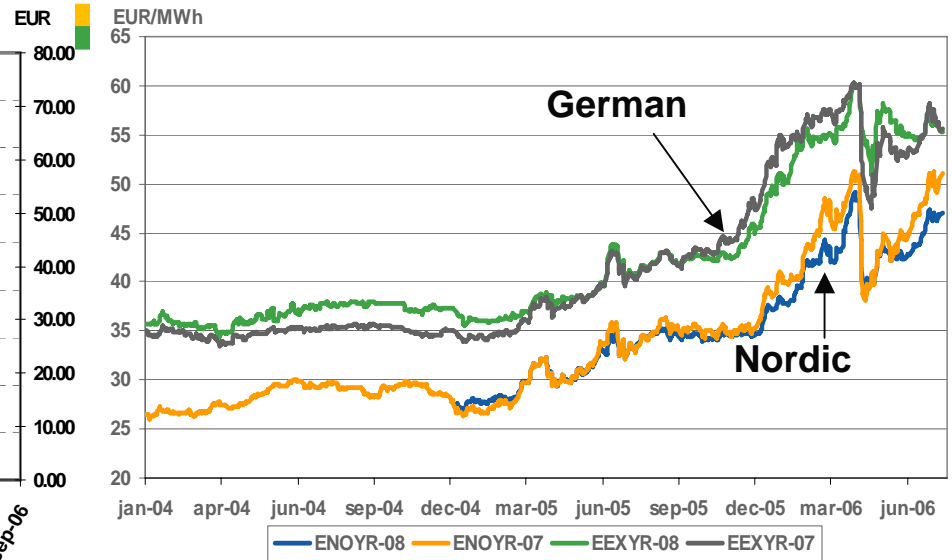
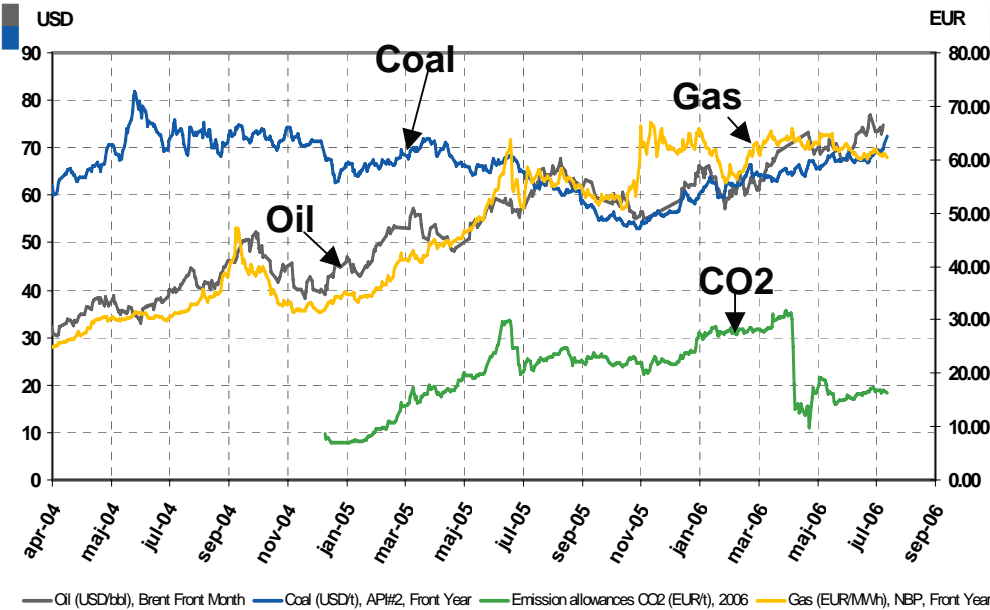
Vattenfall has appealed against the decision

4. Price development

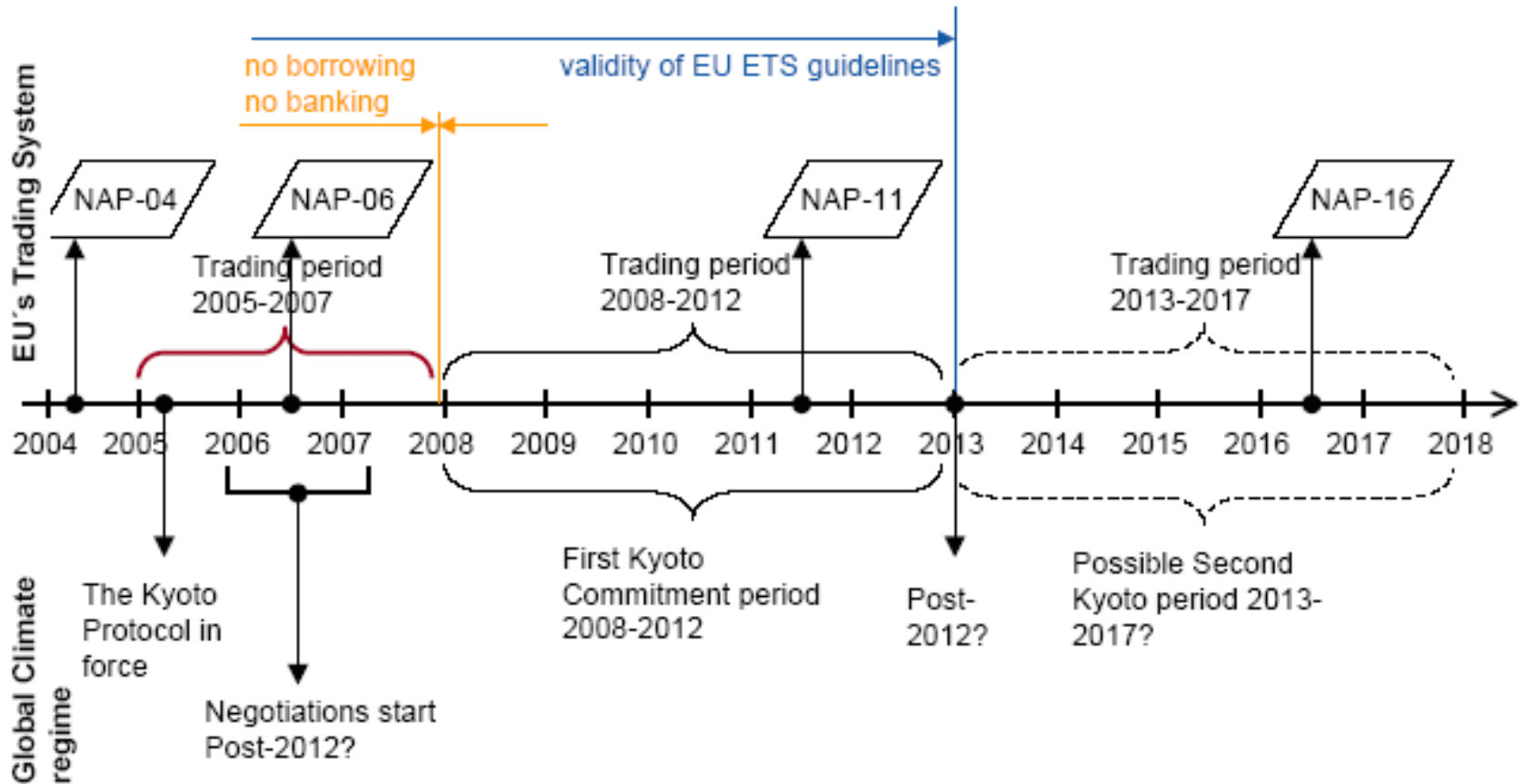
Uncertainty about future fuel prices

Increasing fuel and CO2 prices...

...have caused electricity prices to increase correspondingly



Time table (CO₂)



5. Strategic Focus

With the consolidation programme successfully completed, Vattenfall is currently focusing on the realisation of its vision – of becoming a leading European energy company – and **remains committed to the same five ambitions**, that were defined two years ago

- To continue the profitable growth
- To become the benchmark for the industry
- To become “Number One for the Customer”
- To become “Number One for the Environment”
- To be the employer of choice

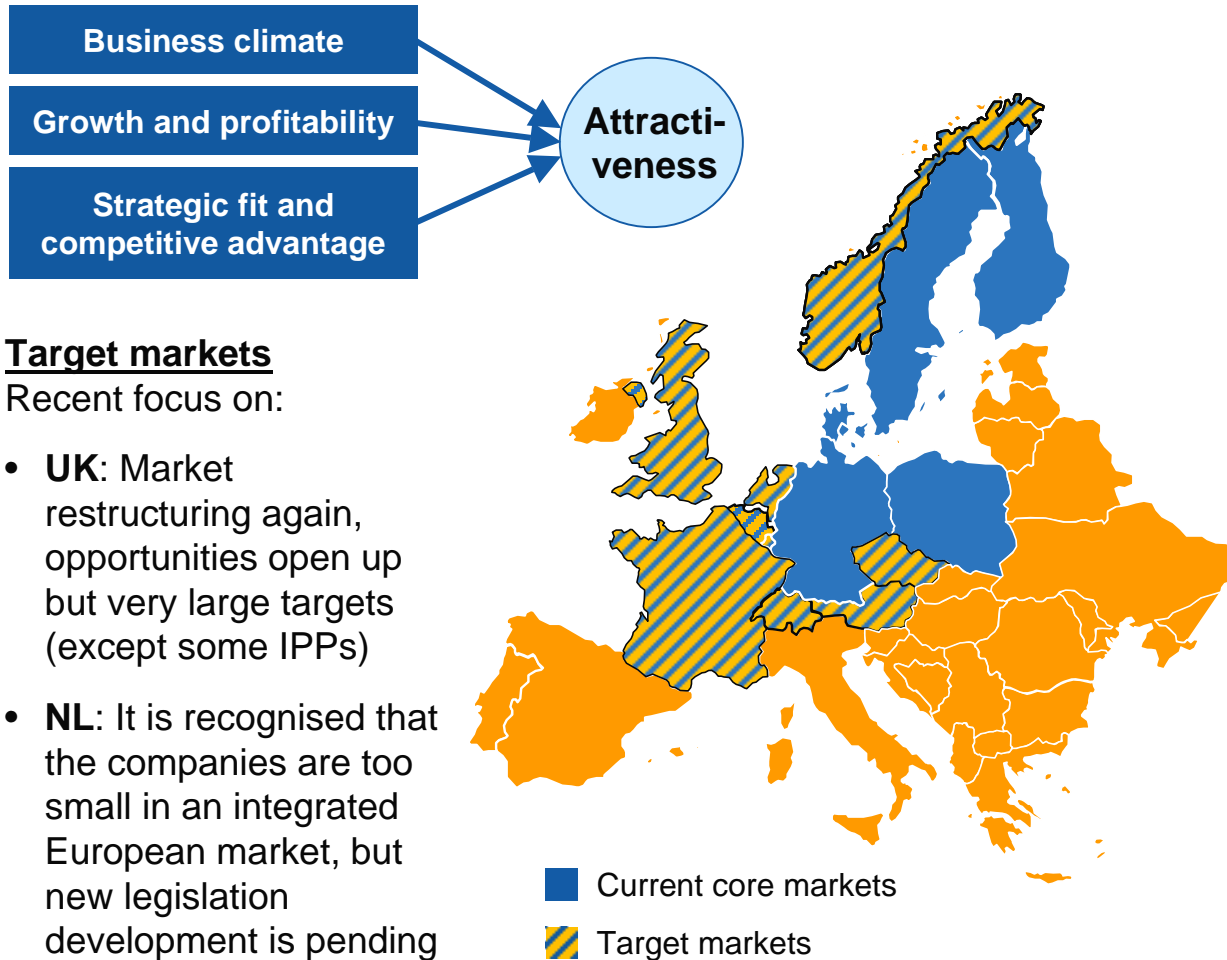
Ambition

To continue the profitable growth through a proactive expansion program

- Driven by generation of heat and electricity. Gas is an opportunity
- Geographic focus on core and selected target markets
- Implemented through M&A as well as plant investments

Key strategies

- Continue to identify, evaluate and pursue potential M&A candidates
- Prepare for integration and consolidation of acquired or merged entities
- Enhance efforts to evaluate attractiveness of increased investments in new or refurbished generation capacities



Target markets

Recent focus on:

- **UK:** Market restructuring again, opportunities open up but very large targets (except some IPPs)
- **NL:** It is recognised that the companies are too small in an integrated European market, but new legislation development is pending

Non-target countries

- **Baltic countries:** Too small
- **South East Europe:** Oversupply
Uncertain market situation and legal framework
- **Russia and Ukraine:** Uncertain market situation and legal framework
- **Iberia:** Consolidated market
Unattractive regulatory development (Spain)
- **Italy**
More fragmented market. Low sophistication and liquidity in the market functioning

Ambition

Vattenfall should be the benchmark for the industry in selected areas

Key strategies

- Continue to pursue performance and cost effectiveness everywhere in the organisation
- Begin to work effectively with KPI's* in all relevant areas of the company
- Pursue cross border synergies in the IT area under the responsibility of the Group CIO team
- Allow the Group Purchasing Function to be responsible for management and purchasing synergies within the Group
- Work extensively with synergies in the area of capacity management, investment management and fuel purchasing

* KPI = Key Performance Indicator

Ambition

Vattenfall should become number one for the customer manifested through

- Increasing market share
- Improved customer satisfaction
- Maintained or increased profitability

Key strategies

- Guarantee competitive pricing while providing the best possible service
- Increase the customer base
- Measure and monitor the status of being “Number one” through regular CSI measurements
- Simplify the process of becoming a Vattenfall customer
- Evaluate opportunities to further increase coordination of customer management between different entities

Ambition

Vattenfall should be Number One for the environment

- Finding new and better solutions which reduces CO₂-emission
- Having a leading role in developing renewable electricity and heat generation
- Acting more environmentally responsible than what could reasonably be expected from any other power company

Key strategies

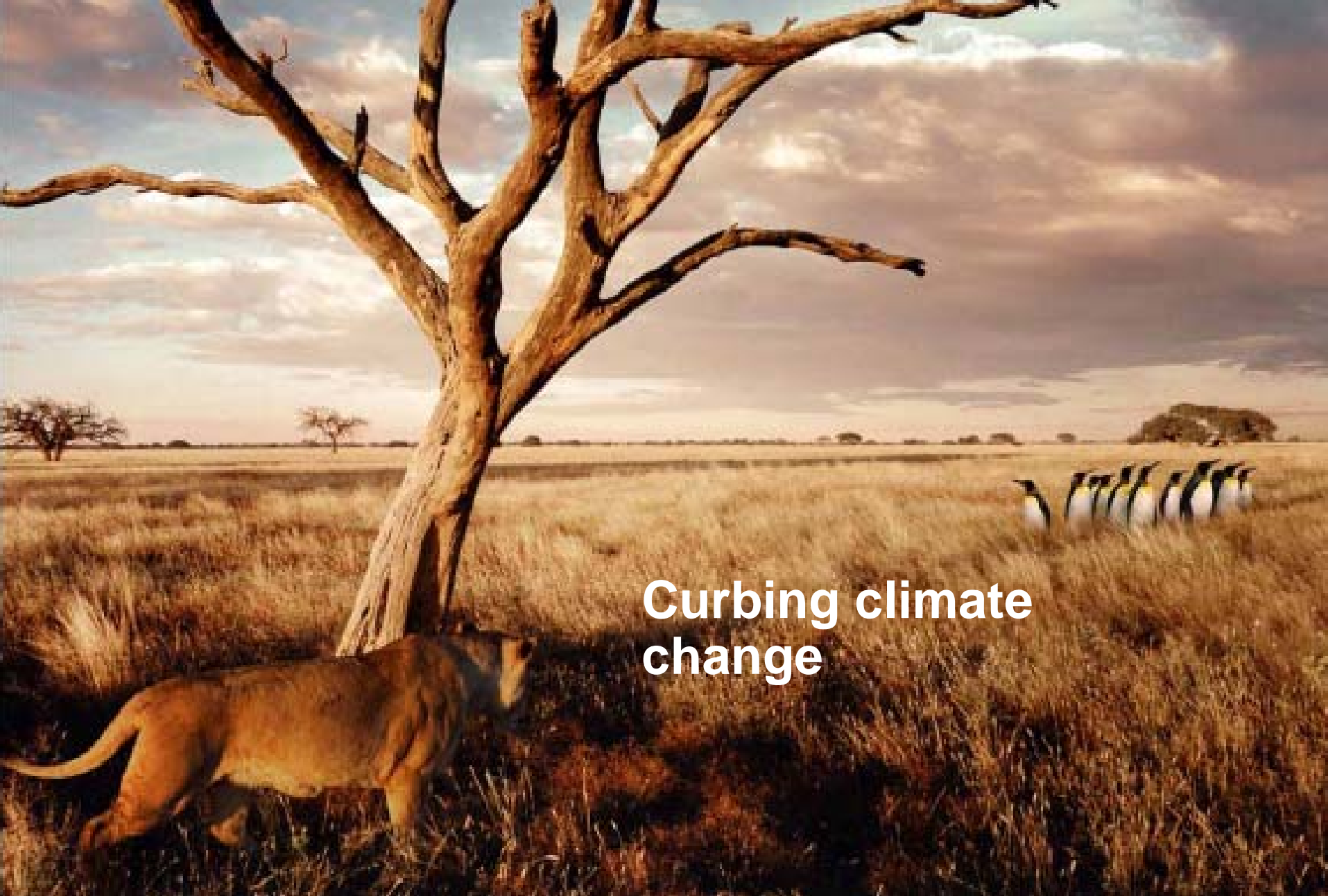
- Increase investments in generation which emits little or no CO₂, including the recently defined package of renewables
- Increase capacity in existing assets which do not emit any CO₂
- Increase efficiency in existing power and heat production as well as in distribution
- Continue development of Vattenfall’s CO₂-free Power Plant Project
- Create better systems to measure and steer the environmental performance and systematically integrate environmental aspects in all business operations

Ambition

Vattenfall should be the Employer of Choice

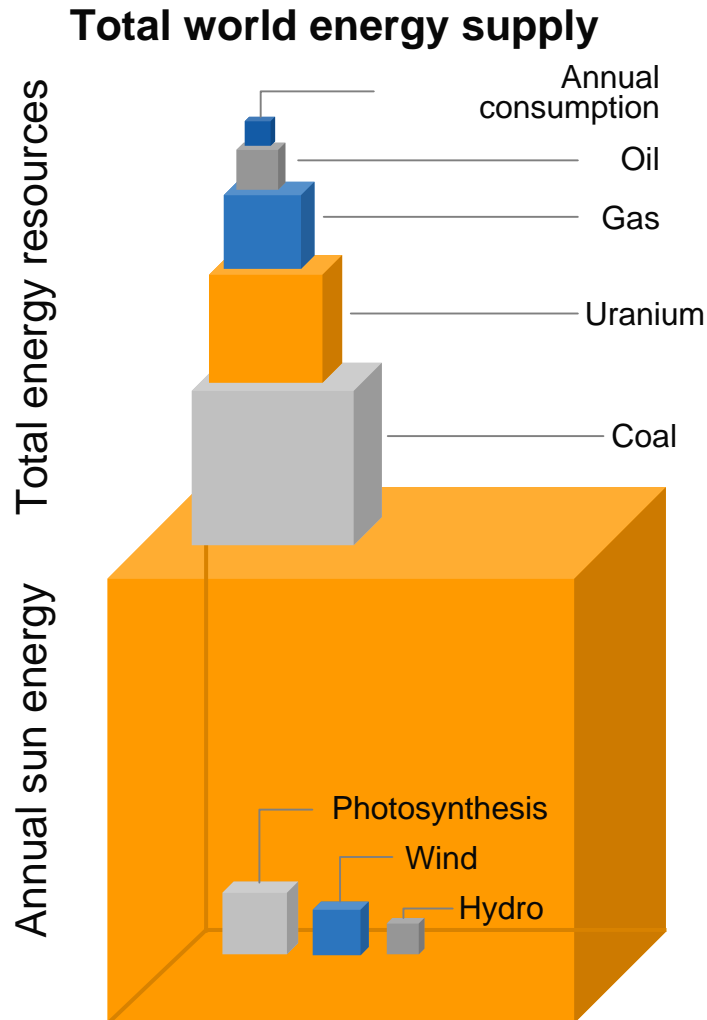
Key strategies

- Secure excellent leadership by first class management planning and development
- Ensure access to the competence that meets our long-term requirements
- Secure strong employee commitment



Curbing climate change

Are we running out of energy?

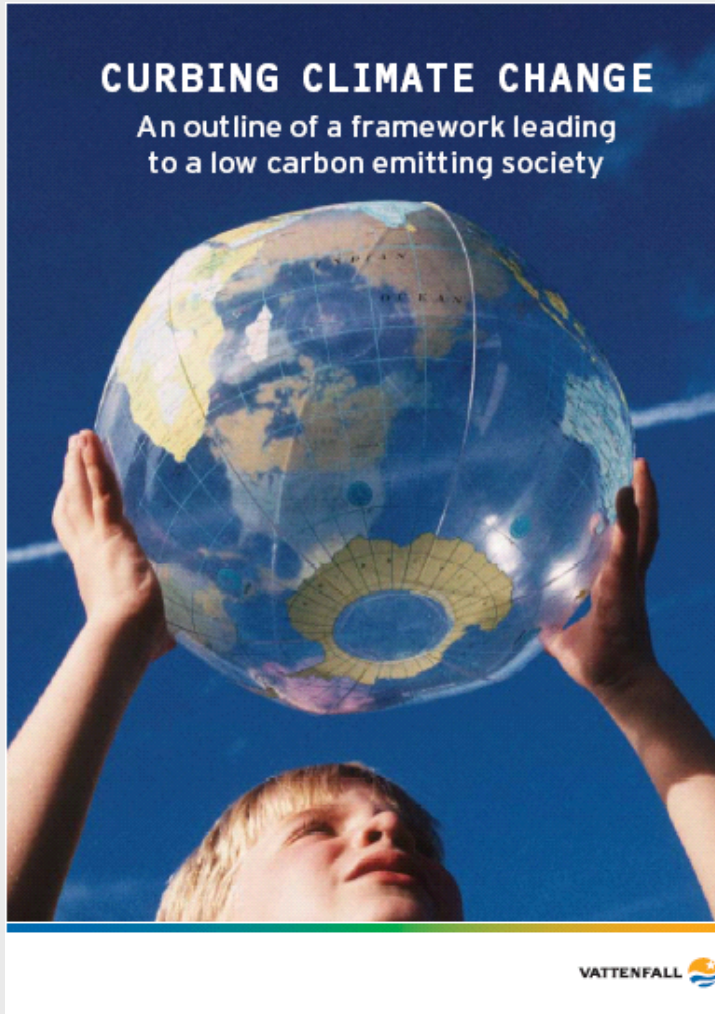


On today's technical and economic terms, it is possible to extract:

- At least 95 % of coal
- 40-70 % of oil
- 35 % of gas
- Less than 2 % of uranium

Vattenfall's proposal – curbing climate change

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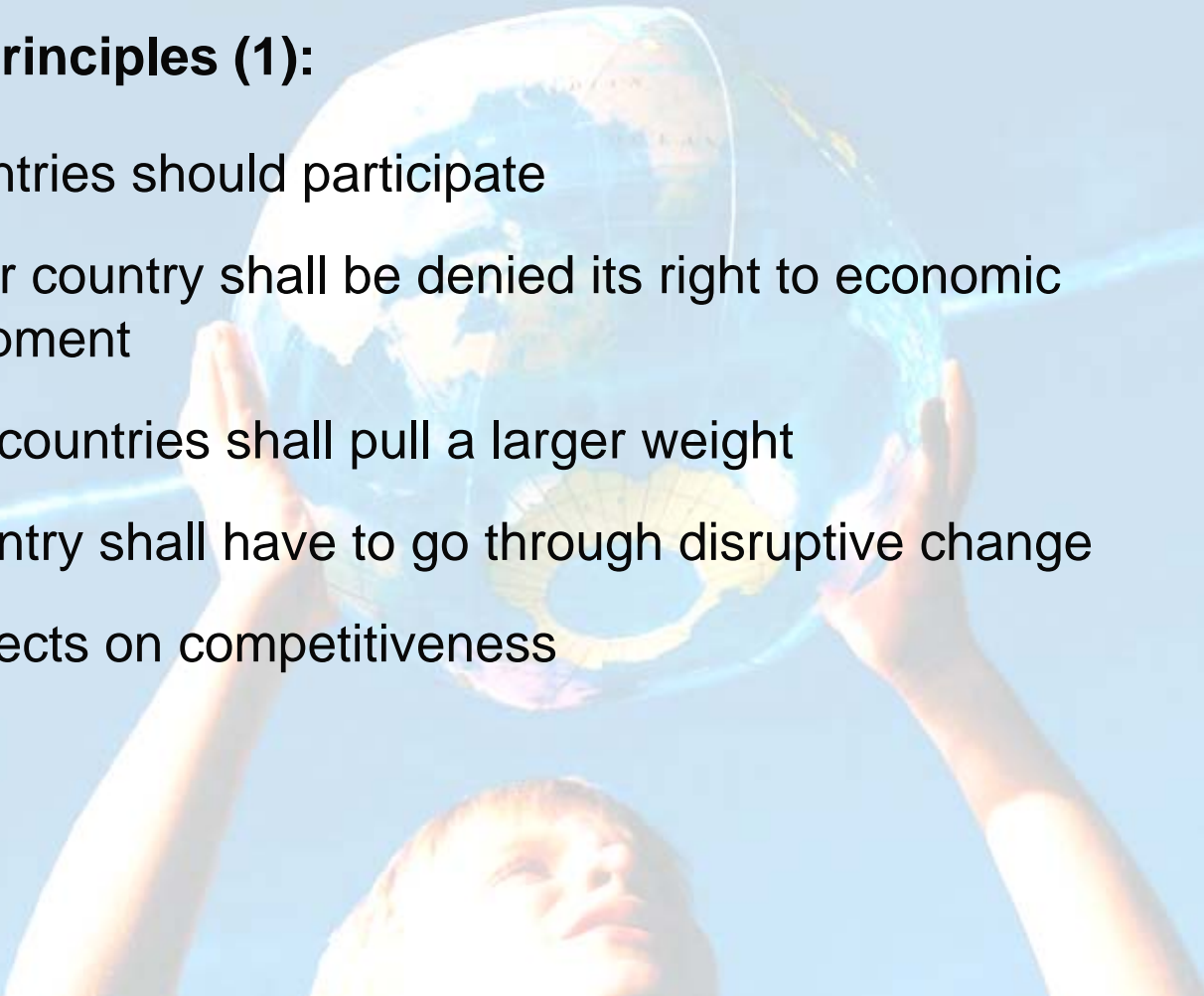


Vattenfall's report can be downloaded from www.vattenfall.com

Vattenfall's adaptive global burden-sharing model ³¹

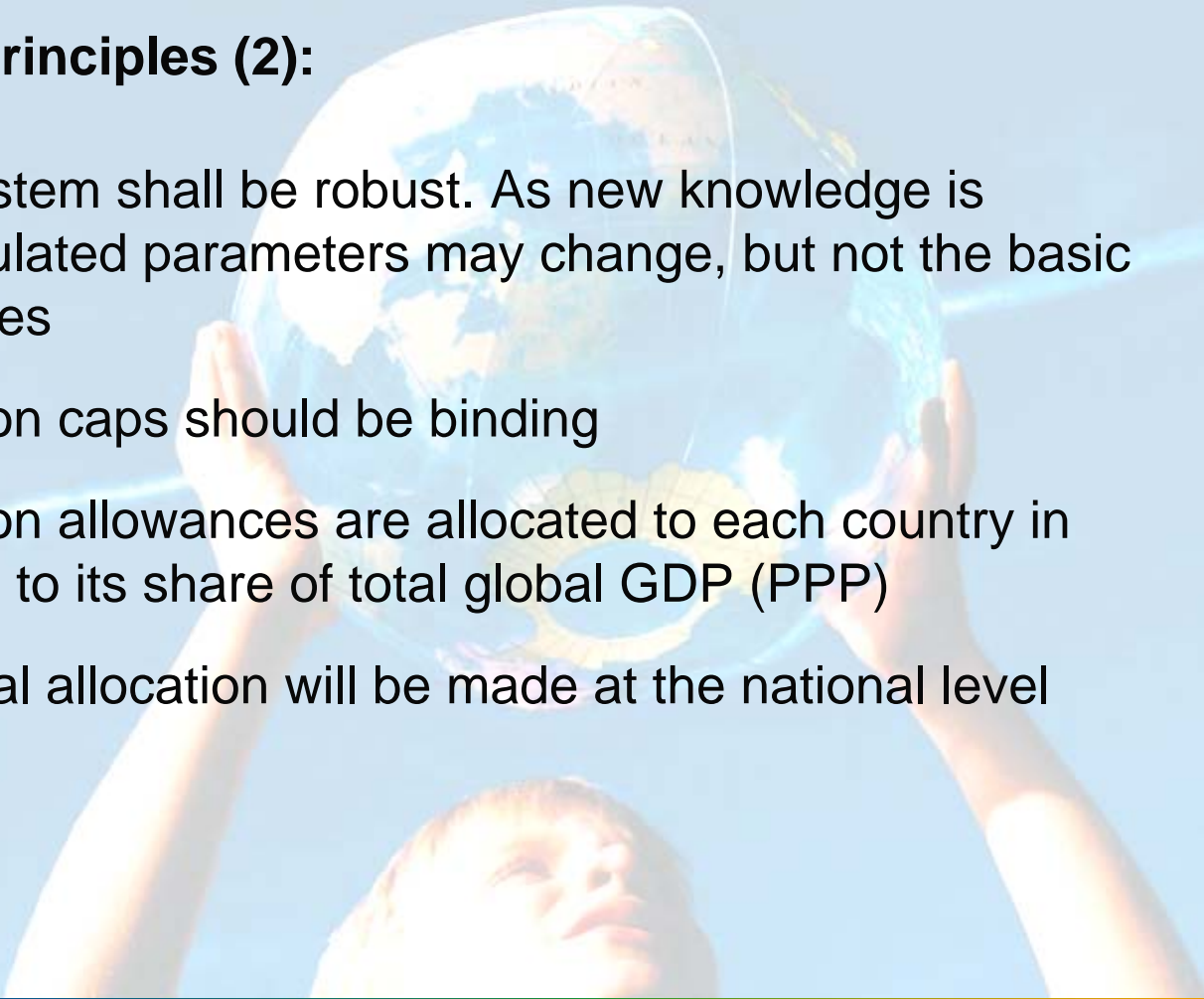
Basic principles (1):

- All countries should participate
- No poor country shall be denied its right to economic development
- Richer countries shall pull a larger weight
- No country shall have to go through disruptive change
- Fair effects on competitiveness



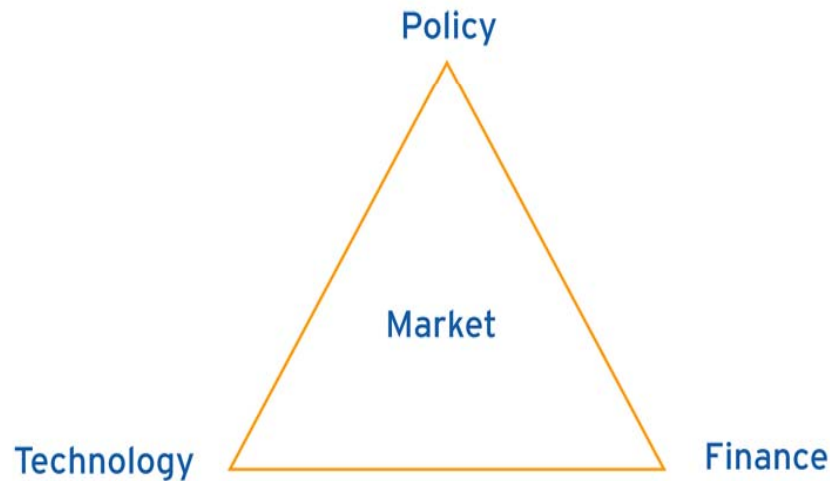
Basic principles (2):

- The system shall be robust. As new knowledge is accumulated parameters may change, but not the basic principles
- Emission caps should be binding
- Emission allowances are allocated to each country in relation to its share of total global GDP (PPP)
- The final allocation will be made at the national level



A global carbon dioxide market

Curbing climate change is about combining technology, finance and policy in a wise way. If that is done by the international community a worldwide carbon dioxide market will follow.



Why should emissions be priced at all?

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- Efficiency / technology choice
- Incentives for development
- Create resources for investment
- Signal correct order of exploitation



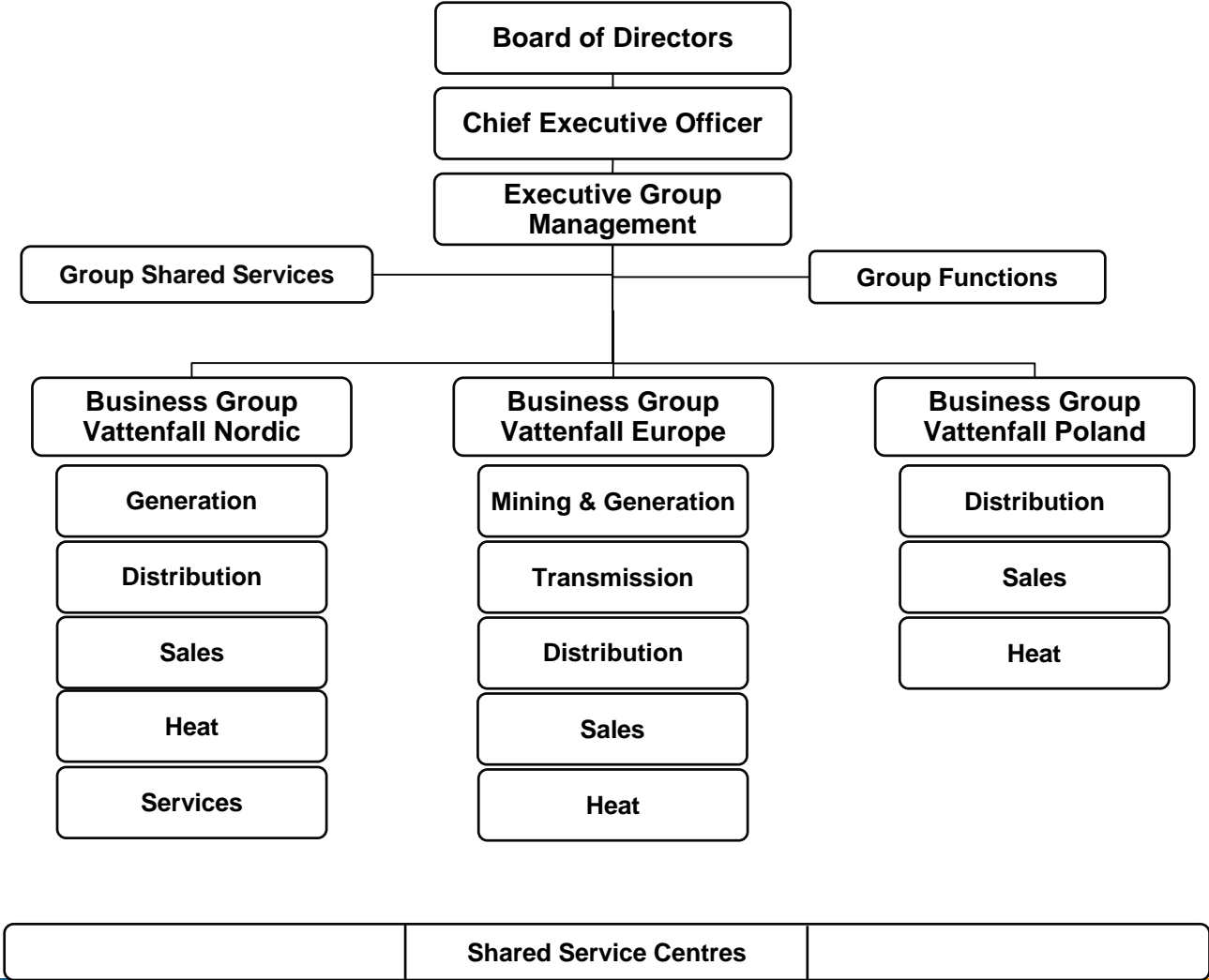
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- A very long time perspective must be applied - 100 years
 - Convergence towards a common goal should be prioritised
 - Knowledge available is still fragmented – adaptation must be built in
 - Efficient use of resources and strong incentives for R&D are crucial
 - A global pricing mechanism for emissions must be created

7. Conclusions

- Strong market position in Northern Europe
- Well diversified production mix
- Growth ambitions, both M&A and organic
- Increased cap ex programme, including renewables
- Strong financial development, but no access to equity market
- Major threats from harsher regulation and taxation
- CO2 emissions crucial for electricity price development
- Curbing Climate Change – Vattenfall takes a leading role
- Current customer perception trend must be changed

Back-up slides

Organisation chart



Vattenfall's installed capacity (Megawatts)

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IFRS consolidation

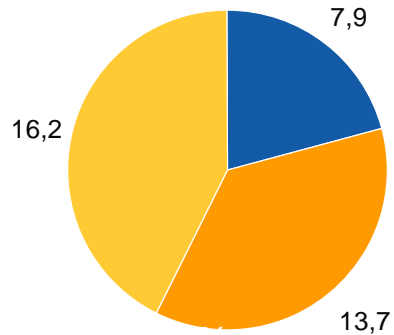
	Nordic Countries		Germany		Poland		Total	
	2005	2004	2005	2004	2005	2004	2005	2004
Electricity & heat generation capacity, MW								
Hydro power	8,399	8,386	2,894	2,894	-	-	11,293	11,280
Nuclear power	6,697	7,242	771	771	-	-	7,468	8,013
Fossil-based power	1,068	1,004	11,371	11,371	981	928	13,420	13,303
Wind power	31	31	41	41	-	-	72	72
Biofuel, waste	160	215	35	35	-	-	195	250
Total electricity	16,355	16,878	15,112	15,112	981	928	32,448	32,918
Total heat	3,440	3,523	7,528	9,096	4,996	4,824	15,964	17,443

Proportional consolidation

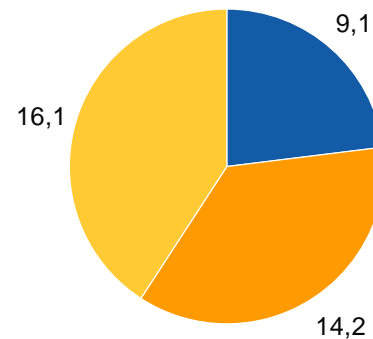
	Nordic Countries		Germany		Poland		Total	
	2005	2004	2005	2004	2005	2004	2005	2004
Electricity & heat generation capacity, MW								
Hydro power	8,155	7,935	2,894	2,894	-	-	11,049	10,829
Nuclear power	4,577	5,119	1,409	1,409	-	-	5,986	6,528
Fossil-based power	1,054	990	11,371	11,371	732	692	13,157	13,053
Wind power	30	30	41	41	-	-	71	71
Biofuel, waste	160	160	35	35	-	-	195	195
Total electricity	13,976	14,234	15,750	15,750	732	692	30,458	30,676
Total heat	3,300	3,380	7,528	9,096	3,727	3,597	14,555	16,073

Lower hydro production in Q2 2006

Q2 2006 Total: 37.7 TWh

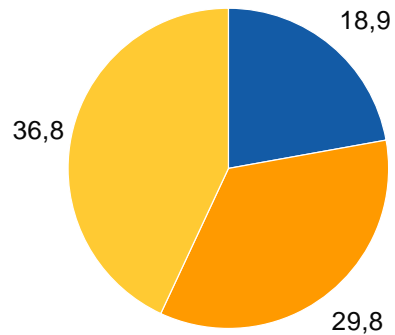


Q2 2005 Total: 39.4 TWh

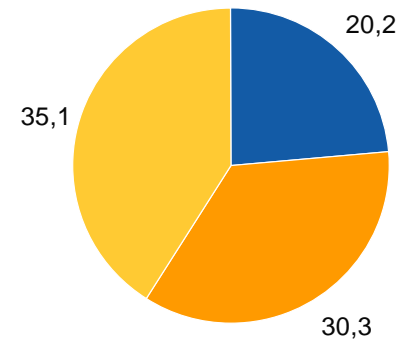


- Hydro
- Nuclear
- Fossil

H1 2006 Total: 85.5 TWh



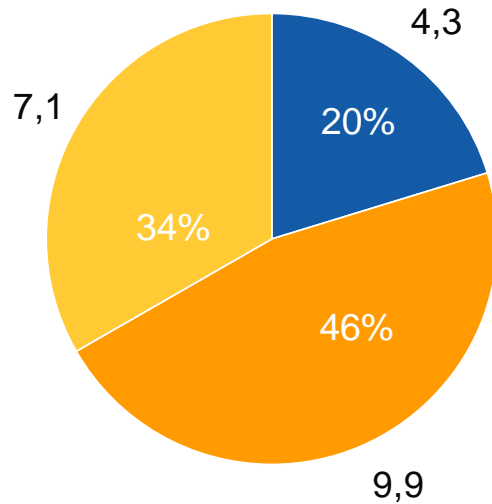
H1 2005 Total: 85.6 TWh



Increased heat sales in H1 2006

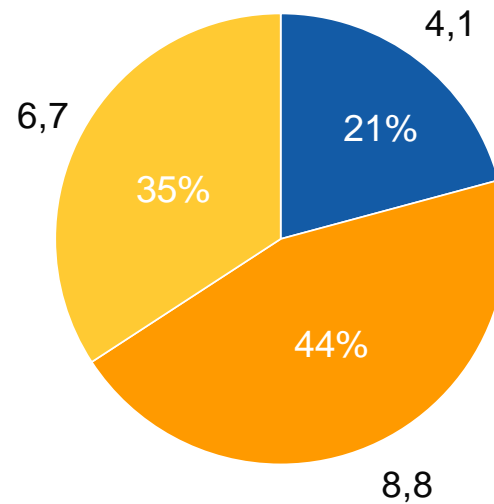
H1 2006

Total: 21,3 TWh



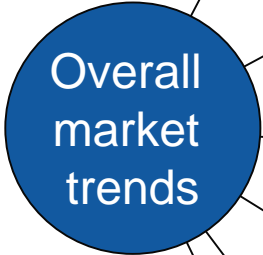
H1 2005

Total: 19.6 TWh



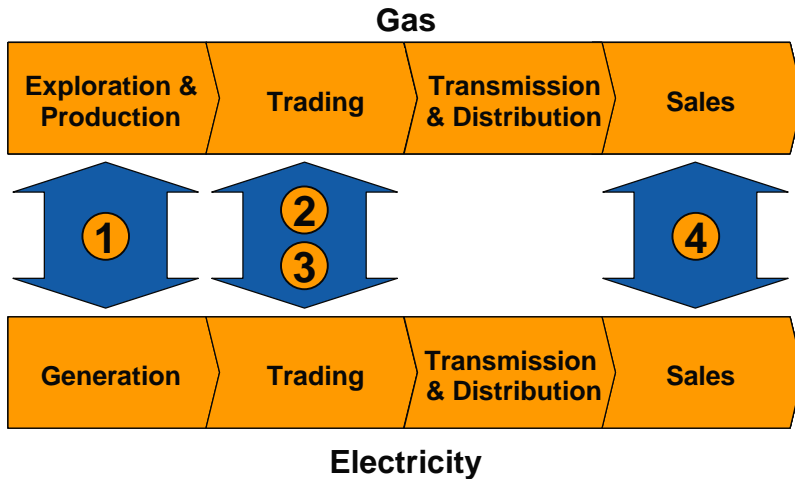
- Nordic
- Germany
- Poland

Trend	Comments
<p>Liberalisation and integration of EU energy markets</p>	<ul style="list-style-type: none"> • Continuous reforms towards the IEM, in particular in Eastern Europe • DG Comp Sector Inquiry more severe • Convergence of price levels between different markets • Increased correlation between price levels of fuels and electricity and between different geographical markets • Increased protectionism from national governments (-) • Increased political debate on the price developments and, in particular, in the grid area tougher regulation (-)
<p>Consolidation of large players</p>	<ul style="list-style-type: none"> • Continued high M&A activities • Creation of Mega-players • Tendency towards establishment of national champions
<p>Convergence of electricity, gas and heat but departure from multi utility</p>	<ul style="list-style-type: none"> • Integration of value chain⁰¹ • Strengthened linkage between gas and electricity prices • Increasing level of dual fuel sales in gas/electricity (plus heat)
<p>Increased uncertainty about future fuel prices</p>	<ul style="list-style-type: none"> • Potential for very high oil prices • Possibility of decoupling gas/oil • Possible gas bubble over next years • Uncertainty whether the coal price will come back down to 40 USD/ton
<p>Increased concerns for and actions to deal with climate change</p>	<ul style="list-style-type: none"> • Uncertain support for a continued CO2 emission trading system after 2012 • Increased investments in CO2 free technologies for fossil fuels • Continued interest in renewable capacities
<p>Major resumption of construction of generation assets</p>	<ul style="list-style-type: none"> • Increased number of expansion projects • Price level on equipment going up



Convergence of gas and electricity

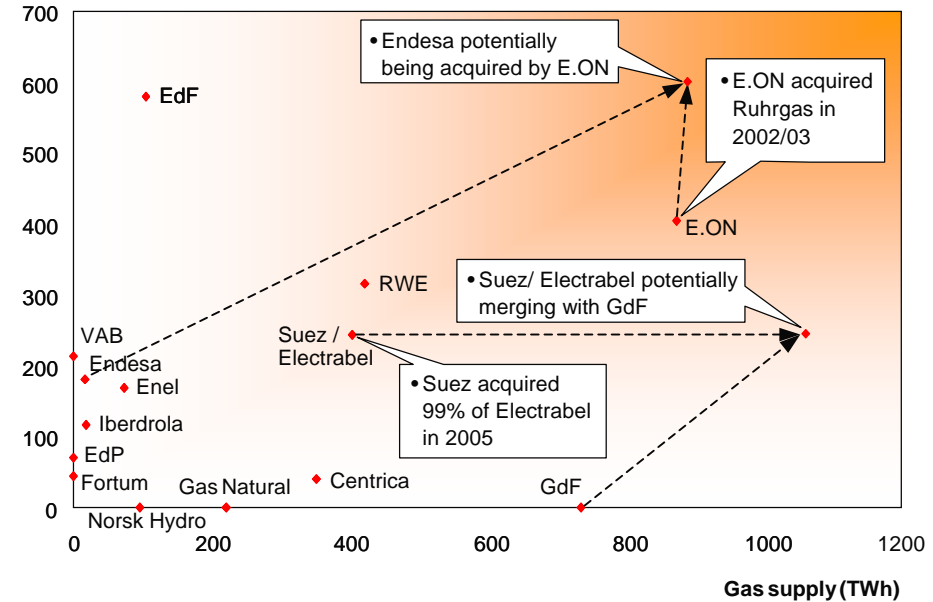
Linking value-chains



1. Gas has the largest share of power generation capacity
2. Gas directly price setting in many power markets and also has impact on power prices through CO2 prices
3. Most trading houses trade both gas and power (economies of scale, better informed, arbitrage opportunities)
4. Dual fuel offers increasing

Gas – power mergers

Electricity supply (TWh)



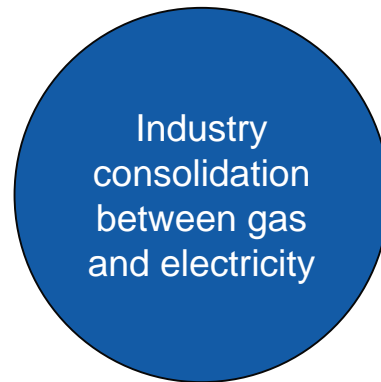
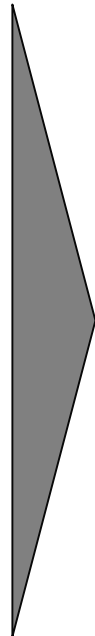
Linkages between gas and electricity

Gas for power generation

Price relationship

Joint trading operations

Retail operations



Benefits from electricity/gas consolidation

Growth opportunities

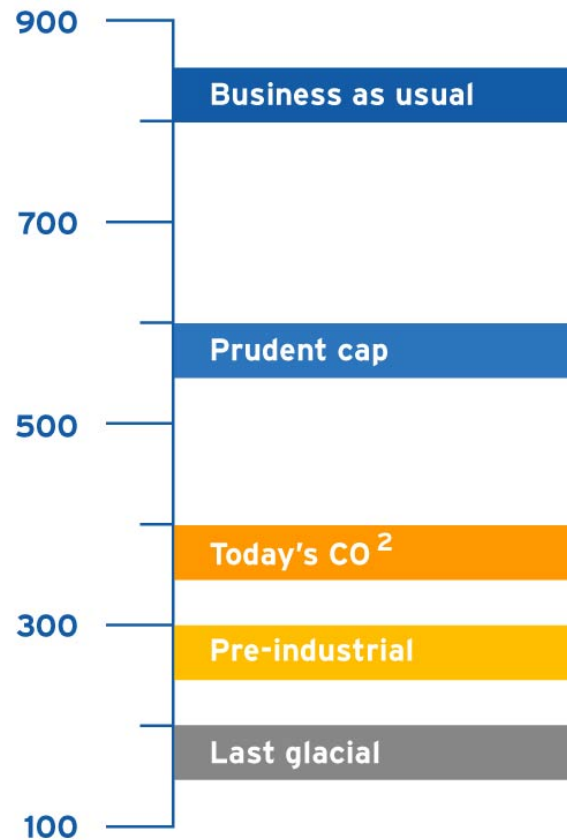
Cost synergies

Risk diversification

Trading/arbitrage opportunities

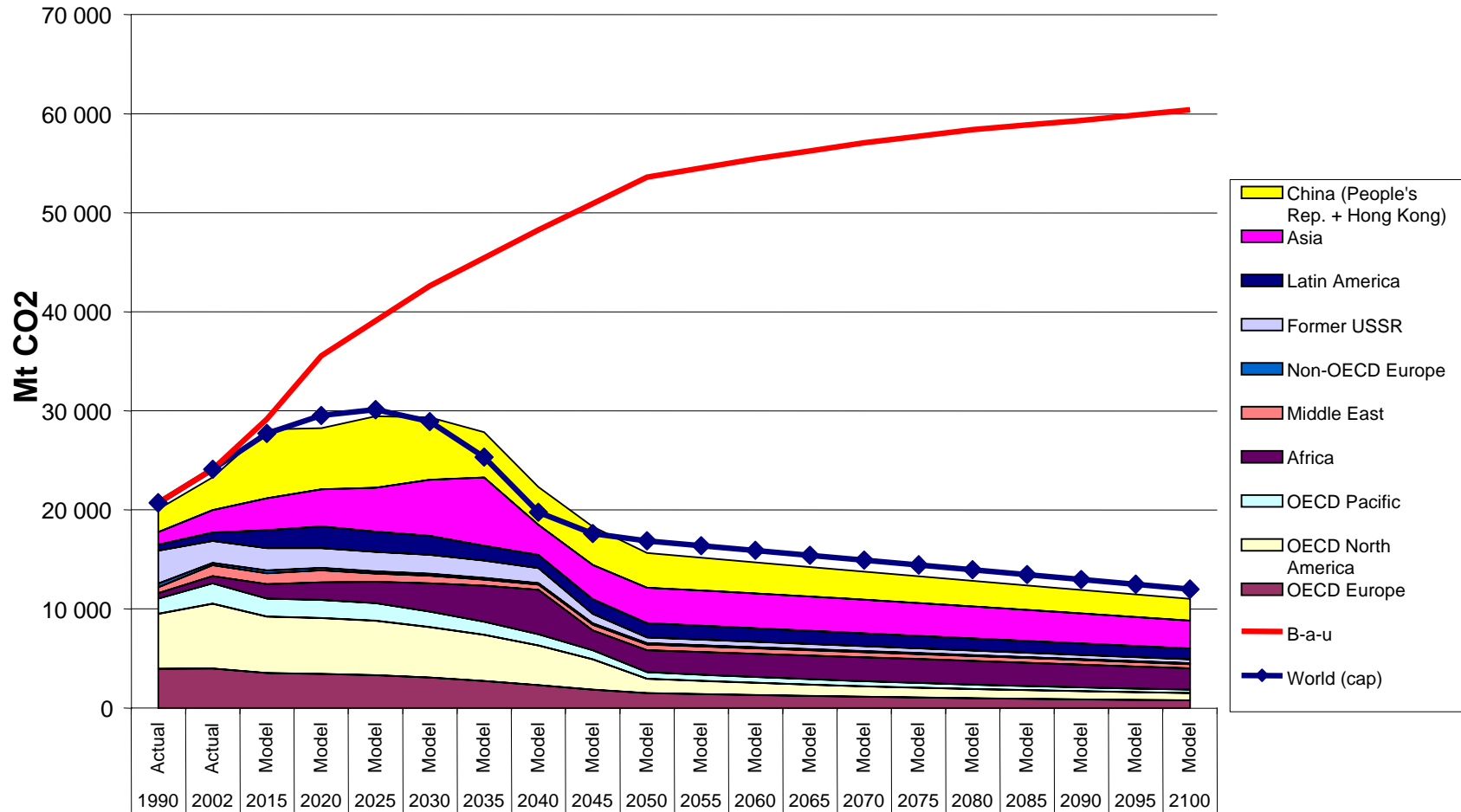
Know-how

Atmospheric CO₂ content (ppm)



Source: W. Broecker

Allocation of CO2 emission allowances for emissions from fuel combustion – "Early peak"



Allocation of CO2 emission allowances for emissions from fuel combustion – "Late peak"

