

# Vattenfall Capital Markets Day 2007

Presentation by

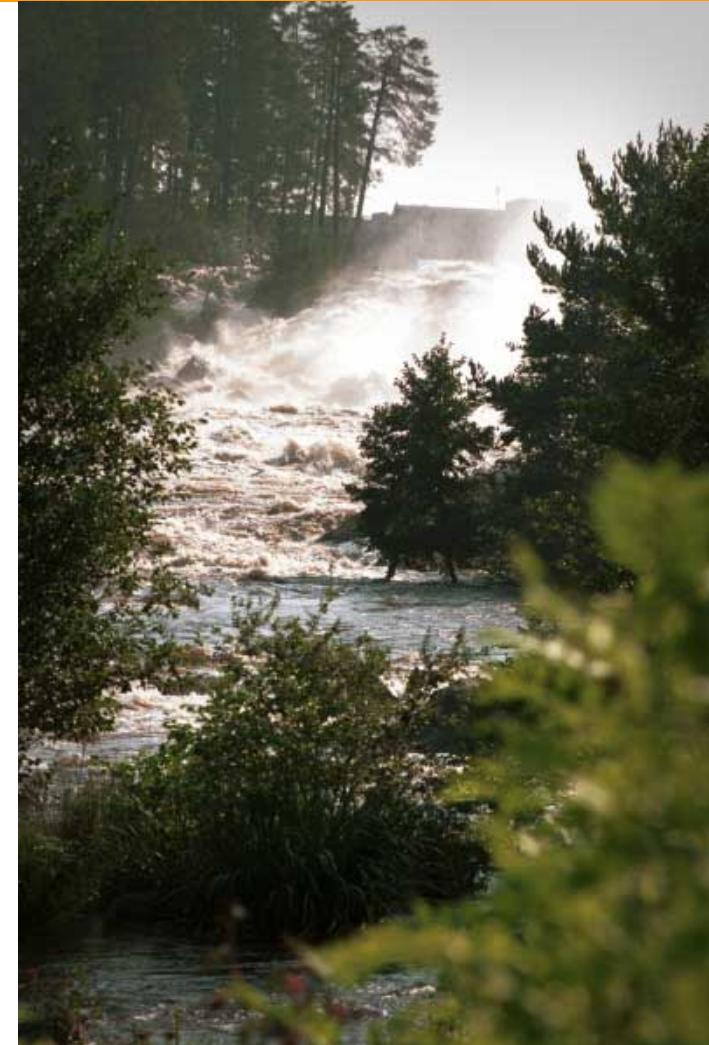
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Head of Business Group Vattenfall Nordic

Stockholm, 24 September 2007

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# Overview - BG Nordic

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## Nordic market:

Vattenfall is the largest electricity generator with 20% market share

- **Sweden:**  
80.8 TWh electricity generation  
5.2 TWh heat generation  
0.7 million customers  
~8 300 employees\*
- **Finland:**  
0.3 TWh electricity generation  
1.6 TWh heat generation  
0.3 million customers  
~500 employees\*
- **Denmark:**  
6 TWh electricity generation  
6 TWh heat generation  
~650 employees\*



\* Full-time equivalents

# Key data

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<i>Amounts in SEK billion</i>	<b>H1 2007</b>	<b>H1 2006</b>	<b>% Change</b>	<b>LTM</b>	<b>FY 2006</b>	<b>FY 2005</b>
<b>Net sales</b>	24.6	20.7	+18.9	44.0	40.1	42.0
<b>EBIT *</b>	7.0	8.4	-16.8	11.8	13.2	13.7
<b>Net assets **</b>	83.7	76.2	+ 9.8	n.a.	81.7	77.2
<b>Electr. generation, TWh</b>	48.1	44.7	+7.6	88.3	84.9	89.8
<b>Heat generation, TWh</b>	6.4	4.3	+48.8	10.7	8.5	7.3
<b>Employees ***</b>	9 458	8 834	+7.1	n.a.	9 158	8 788

\* Excl. items affecting comparability (IAC)

\*\* At the end of the period

\*\*\* Full time equivalents (FTE)

LTM = last twelve months

# Key figures - renewable energy generation

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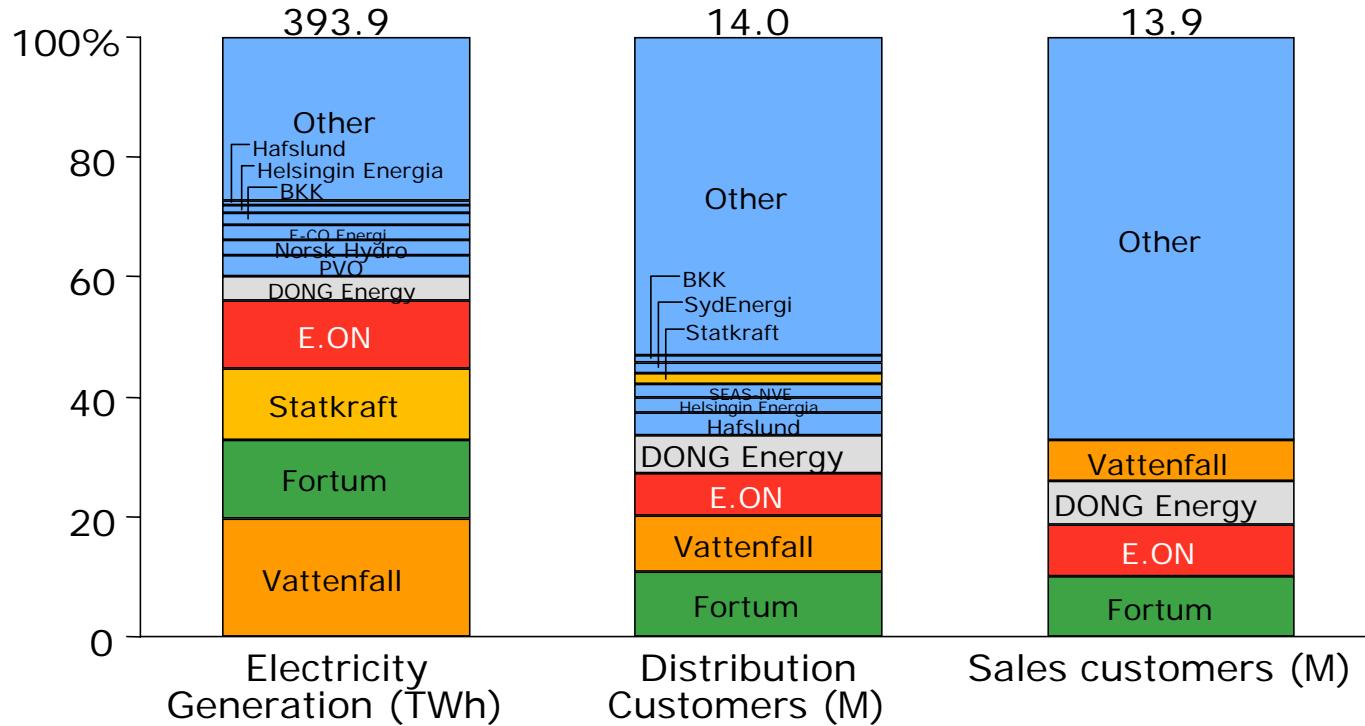
<b>Actual Jun 2007</b>	<b>Wind</b>	<b>Hydro*</b>	<b>Heat</b>	<b>Total</b>
Operating Profit (MSEK)	135.6	69.6	135.7	340.8
Investments (MSEK)	424.4	26.4	225.0	675.8
Tangible fixed assets (MSEK)	5,997.3	277.4	3 955.8	10,230.5
Return on tangible fixed assets (%)	4.5	50.2	6.9	6.7
Sold Volume Electricity (GWh)	575	186	204	965.0
Sold Volume Heat (GWh)		* pertains to hydro power that qualifies for electricity certificates in Sweden	2,348	2,348.0



## 2. Market positions

# Market shares

The Nordic market, 2005



- The Nordic market has strong cross-border connections which make it highly competitive with many players both in generation and sales (as the four countries form an integrated market area) compared with most other power markets

### 3. Capex

# Changes in Nordic electricity generation 2007 – 2015

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(Vattenfall's estimate based on public information)

## Sweden

**23.3 TWh**

Wind	5.5
Hydro	1.7
Nuclear power upgrading	9.0
Natural gas CHP*	2.0
Biofuel CHP*	5.1
Decommissioning of nuclear units	0

## Finland

**11.4 TWh**

Wind	0.3
Hydro	0.3
CHP*	3.7
Nuclear	12.0
Decommissioning of coal condensing units	-4.9

## Norway

**18.0 TWh**

Wind	3.5
Natural gas	8.7
Hydro	5.8

## Denmark

**-5.6 TWh**

Wind	2.7
Decommissioning of coal condensing units	-11.9
CHP, condensing	3.6

**Total Nordic:**

**+ 47.1 TWh**

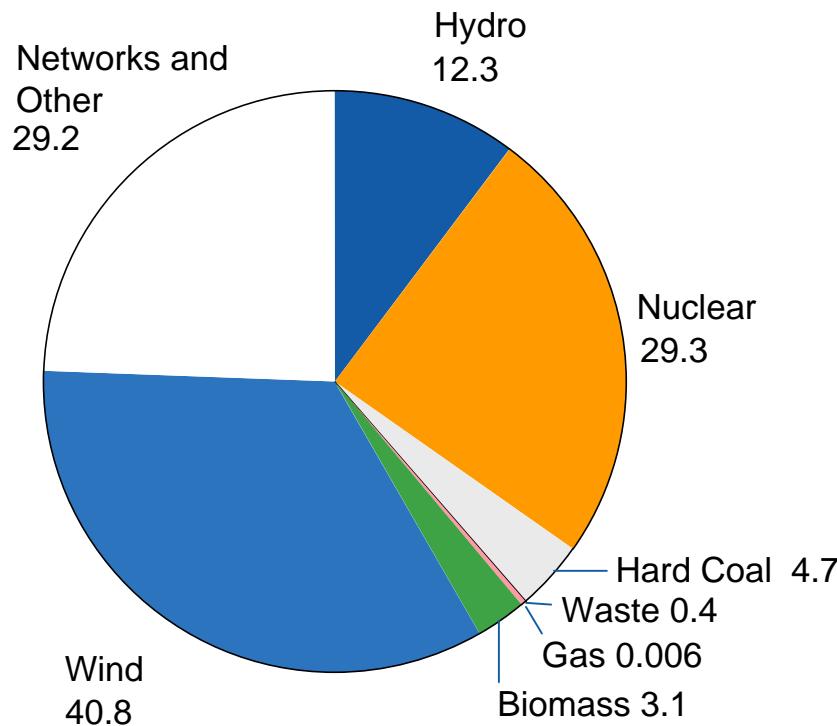
**Increased consumption 19.7 TWh**

\* CHP and back-pressure generation

# BG Nordic – planned capex 2007-2017

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SEK billion



EUR/SEK 9.2435

# Capex plans in renewables

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- Vattenfall adds 10 TWh from renewable sources until 2016

— Hydro Power

approx. 2 TWh



— Biofuels

approx. 0.5 TWh



— Wind Power

approx. 7-8 TWh



- Vattenfall's investments represent approx. 40 bn SEK

# Lillgrund – 110 MW windpower farm

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- The world's 3<sup>rd</sup> largest offshore windpower farm
- Now under construction – in operation this year (2007)
- Installed capacity: 110 MW (48 wind mills)
- ~330 GWh electricity generation (~60,000 households)



# Capex programme for nuclear power in Sweden

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- Programme for renewal
  - Fulfil new security regulations and expected EU harmonisation
  - Modernise power plants for continuously high availability and safety
  - Improved efficiency ( $\rightarrow \sim 1.6 \text{ TWh}$ )
- Programme for power increase
  - Increase the thermal power on 5 of 7 units ( $\rightarrow \sim 6.4 \text{ TWh}$ )
- Physical protection
  - Fulfilment of SKIFS 2005:1 with substantially increased level of ambition for the physical protection

## 4. Sales activities

# BG Nordic is increasing its market share

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- Attractive offers to retail customers
- Right to change
  - fee payable when utilised
- Best price guarantee

[www.vattenfall.se/trygghetsavtal](http://www.vattenfall.se/trygghetsavtal)



# 90.1 TWh signed with power intensive industry

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Between 2004-2007 Vattenfall has signed several long-term electricity contracts with industrial customers in order to support their capacity requirements and offer stable and competitive electricity prices. Customers include:

- Outokumpu
- Vargön
- Söral
- Holmen
- Stora Enso
- LKAB
- SCA
- Kubal
- Billerud

