



Annual statistics 2008

Statistics

Key figures	3
Definitions, units and symbols	3

Generation capacity and electricity production

S1 Installed capacity	5
S2 Average-year generation of hydro power	5
S3 Comparison of capacity and maximum system load	6
S4 Changes in installed capacity	6
S5 Electricity generation	7
S6 Total electricity generation by energy source and net exchange of electricity	8
S7 Monthly generation and total consumption of electricity 2007 - 2008	9
S8 Total electricity supply	10

Electricity consumption

S9 Electricity consumption	10
S10 Total electricity consumption 1998 - 2008	10
S11 Electricity gross consumption per capita 1998 - 2008	10
S12 Net consumption of electricity by consumer category	11
S13 System load	12

Transmission grid

S14 Existing interconnections between the Nordel countries	13
S15 Existing interconnections between the Nordel countries and other countries	14
S16 The most important interconnections and grid reinforcement	14
S17 Transmission lines in service owned by transmission system operator	15

Electricity exchange

S18 Exchange of electricity (map)	16
S19 Exchange of electricity	16
S20 Monthly exchange of electricity between the Nordel countries	17
S21 Exchange of electricity between the Nordel countries 1963 - 2008	18

Other market information

S22 Water reservoirs	19
S23 Prices and turnover on the Nordic power and carbon markets 2007 - 2008	20

Annual statistics is available at www.nordel.org

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Sources

Danish Energy Association
Finnish Energy Industries
Icelandic National Energy Authority
Nordel
Nord Pool
Norwegian Water Resources and Energy Directorate
OECD (Organisation for Economic Co-operation and Development)
Statistics Denmark
Statistics Iceland
Statistics Sweden
Swedenergy

Key figures for 2008

		Nordel	Denmark	Finland	Iceland	Norway	Sweden
Population	mill.	25.2	5.5	5.3	0.3	4.8	9.3
Total consumption	TWh	412.7	36.1	87.0	16.6	128.9	144.1
Maximum load ¹⁾	GW	61.0	6.1	12.5	1.7	18.4	22.2
Electricity generation	TWh	414,0	34,6	74,1	16,5	142,7	146,0
Breakdown of electricity generation:							
Hydropower	%	58	0	23	75	98	47
Nuclear power	%	20	-	30	-	-	42
Other thermal power	%	19	80	47	0	1	10
Wind power	%	3	20	0	-	1	1
Geothermal power	%	-	-	-	25	-	-

¹⁾ Measured 3rd Wednesday in January - = Data are non-existent 0 = Less than 0.5 %



An advanced aerodynamic lift
Photo: Lena Wretman-Berglund

Definitions, units and symbols

Biofuel

Wood waste, industrial wood fuels, black liquor and pitch oil, wood fuels as wood waste or saw dust, biogas, straw, animal wastes and litter, bio oil.

Combined heat and power generation (CHP)

Generation at a steam power plant where some of the energy of the steam is used for electricity generation and some for another purpose, e.g. for district heating or as process steam for the industry.

Condensing power

Generation at a conventional steam power plant where the energy of the steam is used solely for electricity generation and where the steam is condensed to water after the turbine.

Electricity generation (net electricity generation)

The electrical energy generated by the power plants, excluding the plants' own consumption.

Exchange of electricity

The physical exchange of electricity between the countries.

Gross consumption

The total consumption minus occasional power to electric boilers.

Gross temperature corrected consumption

Gross consumption corrected to correspond normal yearly temperature variations.

Installed capacity (net capacity)

The rated capacity of the power plants excluding the power plant's own consumption of electricity (exclusive heat production).

Losses

Losses in the transmission and distribution networks.

Net consumption

The sum of the electricity delivered to the end users.

Occasional power to electric boilers

The supply of electricity to electric boilers for the generation of steam or hot water, which may alternatively be generated using oil or some other fuel.

Other renewable power

Wind power, waste, and geothermal power.

Pumped storage power

The electricity used for pumping water up to a reservoir for electricity generation later on.

Total consumption

The sum of electricity generation and net imports.

Transmission capacity

The power that a high voltage line can transmit under normal conditions, taking into account limitations that may be imposed on the rated capacity.

Units and symbols

kW	kilowatt
MW	megawatt = 1,000 kW
GW	gigawatt = 1,000 MW
kWh	kilowatt-hour = 3,600 kJ
MWh	megawatt-hour = 1,000 kWh
GWh	gigawatt-hour = 1,000 MWh
TWh	terawatt-hour = 1,000 GWh
~	Alternating current (AC)
=	Direct current (DC)
-	Data are non-existent
..	Data are too uncertain
0	Less than 0.5 of the unit given

Calculation of the electricity consumption

Electricity generation

- + Imports
- Exports

= Total consumption

- Occasional power to electric boilers

= Gross consumption

- Losses, pumped storage power etc.

= Net consumption

Generation capacity and electricity production

S1a Installed capacity¹⁾ by production types on 31 December 2008, MW

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Installed capacity total¹⁾	12 618	17 036	2 575	30 789	34 181	97 199
Nuclear power	-	2 646	-	-	8 938	11 584
Other thermal power	9 446	11 150	120	890	8 027	29 633
- Condensing power	784 ²⁾	2 935	-		2 271	5 990
- CHP, district heating	7 692	4 101	-	142	2 955	14 890
- CHP, industry	558	3 274	-	49	1 194	5 075
- Gas turbines etc.	412	840	120	699	1 607	3 678
Hydro power	10	3 097	1873	29 474	16 195	50 649
Wind power	3 163	143	-	425	1 021	4 752
Geothermal power	-	-	582	-	-	582
Mothballed³⁾	413	0	0	0	510	923

¹⁾ Refers to the sum of the rated net capacities of the individual power plant units in the power system, and should not be considered to represent the total capacity available at any single time.

²⁾ Includes 100% condensing power in Denmark. The rest is included in CHP, district heating.

³⁾ Mothballed capacity that can be recommissioned by decision of the power plant owner. All mothballed plants are considered as unavailable no matter how long in advance the decision of recommissioning must be taken. Mothballed capacity are not included in the total installed capacity.

S1b Installed capacity¹⁾ by main energy source on 31 December 2008, MW

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Installed capacity, total¹⁾	12 618	17 036	2 575	30 789	34 181	97 199
Nuclear power	-	2 646	-	-	8 938	11 584
Fossil fuels²⁾	8 815 ⁵⁾	9 194	120	699	5 093	23 921
Renewable power	3 803	5 196	2 455	30 090	20 150	61 694
- Hydro power	10	3 097	1 873	29 474	16 195	50 649
- Bio fuel	297	1 946	-	104	2 652	4 999
- Waste	334	10	-	87 ⁴⁾	282	713
- Wind power	3 163	143	-	425	1 021	4 752
- Geothermal power	-	-	582	-	-	582
Mothballed³⁾	413	0	0	0	510	923

¹⁾ Refers to the sum of the rated net capacities of the individual power plant units in the power system, and should not be considered to represent the total capacity available at any single time.

²⁾ Include coal, oil, gas, etc. Finland: also peat and blast furnace gas.

³⁾ Mothballed capacity that can be recommissioned by decision of the power plant owner. All mothballed plants are considered as unavailable no matter how long in advance the decision of recommissioning must be taken. Mothballed capacity are not included in the total installed capacity.

⁴⁾ Includes energy recovery from industry.

⁵⁾ Includes 24 MW not specified.

S2 Average-year generation of hydro power in 2008, GWh

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Average-year generation 2008	-	13 400	12 247	122 700	65 000	213 347
Average-year generation 2007	-	13 120	8 394	121 761	65 000	208 275
Change	-	280	3 853	939	0	5 072
Reference period	-	1961-90	1950-00	1970-99	1950-00	

S3 Comparison of capacity and maximum system load in 2008, MW

	Denmark	Finland	Iceland	Norway	Sweden
Installed capacity¹⁾	12 618	17 036	2 575	30 789	34 181
Available production capacity²⁾	7 300	13 220	2 561	24 600	28 500
Maximum system load³⁾	6 307	13 245	2 060	21 884	24 900

¹⁾ Installed capacity pr. 31.12.08. Refers to sum of rated net capacities of the individual power plant units in the power system and should not be considered to represent the total capacity available at any single time.

²⁾ The data are estimated by the Operational Group in Nordel and shows available production capacity for the market at peak on a cold winter day (10-year winter). More information is available in the report Power Balance 2008/2009 at www.nordel.org.

³⁾ Maximum system load for each country in winter 2008/2009, MWh/h.

S4 Changes in installed capacity in 2008

Power category	Type of fuel	Commissioned MW	Decommissioned MW
Denmark			
CHP district heating	Oil	1	
	Natural gas	8	7
	Biofuel	9	1
CHP Industry	Other		1
	Natural gas		1
	Biofuel	12	2
Gas turbines etc.		44	
Wind power		78	38
Finland			
Condensing power	Biofuel		10
Hydro power		29	
CHP, industry		226	108
CHP, district heating		4	40
Wind power		18	
Iceland			
Geothermal power		90	
Hydro power		115	
Norway			
Hydro power		476	113
Wind power		45	
Sweden			
Condensing power	Oil		27
Hydro power		26	40
CHP district heating	Biofuel	76	36
	Oil		8
	Waste	40	
CHP Industry	Oil		8
	Biofuel	15	37
Gasturbine	Oil	13	6
Nuclear power		8	133
Wind power		236	3
Total		1 568	619

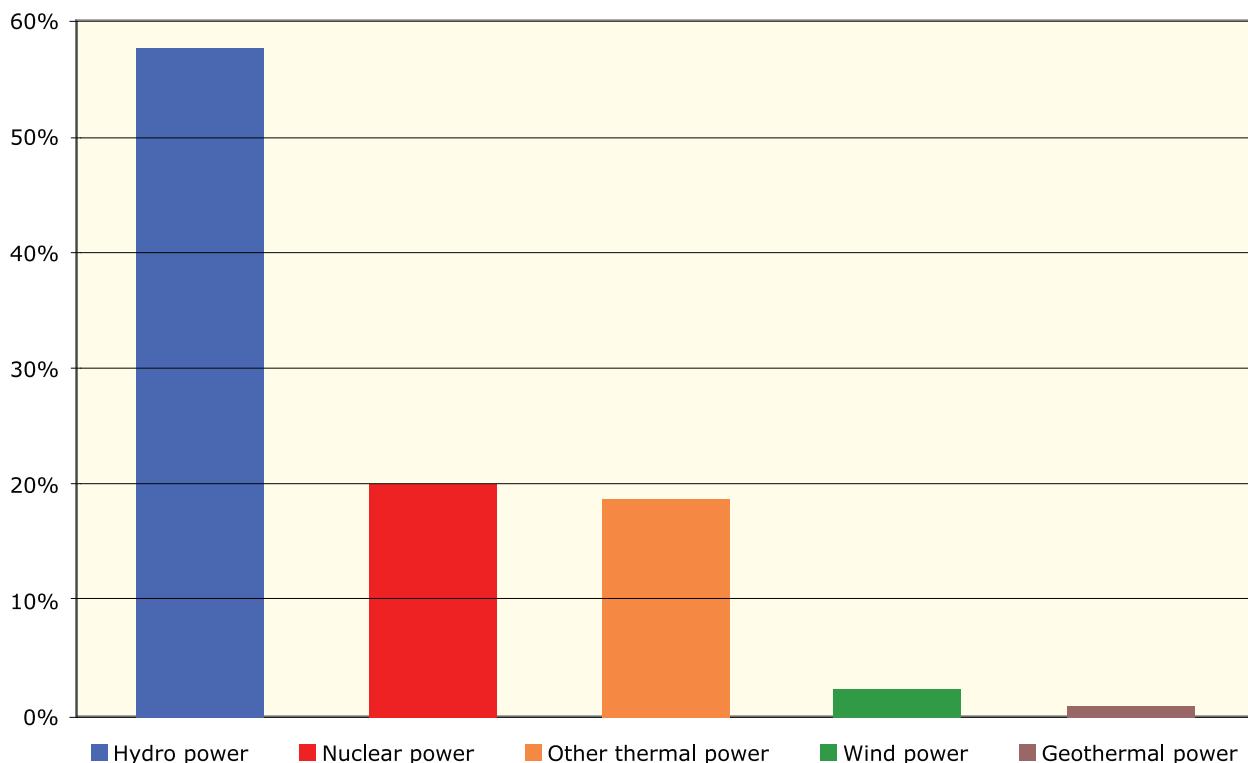
S5 Electricity generation 2008, GWh

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Total generation	34 648	74 137	16 468	142 727 ²⁾	146 021	414 001
Nuclear power	-	22 038	-	-	61 266	83 304
Other thermal power	27 644	34 948	3	1 147	14 331	78 073
- Condensing power	11 718	8 203	-		840	20 761
- CHP, district heating	14 034 ¹⁾	14 659	-	119	7 209	36 021
- CHP, industry	1 879	12 080	-	596	6 256	20 811
- Gas turbines, etc.	14	6	3	432	26	481
Hydro power	27	16 889	12 427	140 663	68 429	238 435
Wind power	6 977	262	-	917	1 995	10 151
Geothermal power	-	-	4 038	-	-	4 038
Total generation 2007	37 025	77 817	11 976	137 387	144 708	408 913
Change compared to 2007	-6.4 %	-4.7 %	37.5 %	3.9 %	0.9 %	1.2 %

¹⁾ Includes condensing power generation.

²⁾ Gross electricity generation: net electricity generation + power plant's own electricity consumption.

Electricity generation 2008 (share of total)



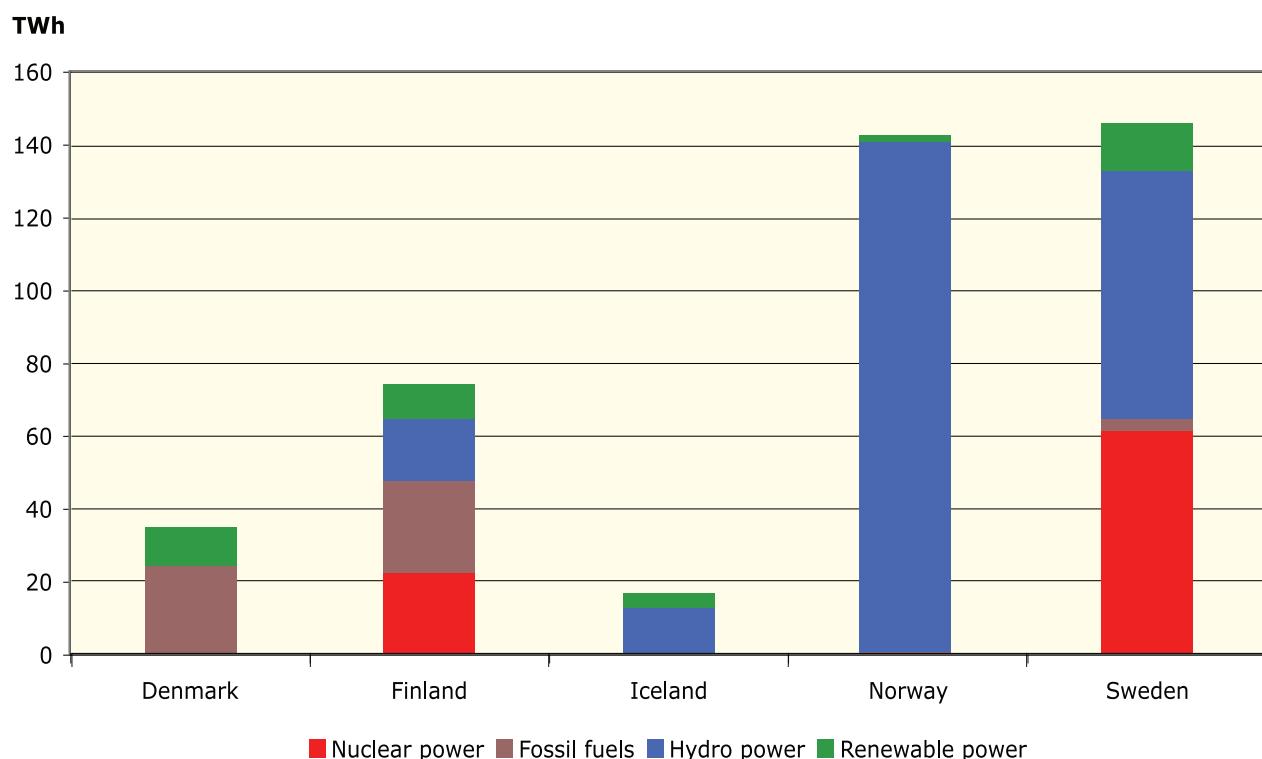
S6 Total electricity generation by energy source and net exchange of electricity 2007 and 2008, TWh

	Denmark		Finland		Iceland		Norway		Sweden		Nordel	
	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007
Total generation³⁾	34.6	37.0	74.1	77.8	16.4	12.0	142.7	137.4	146.1	145.1	413.9	409.3
Total thermal power	24.1	26.3	47.6	53.6	0.0	0.0	0.4	0.7	64.7	68.2	136.8	148.8
- Nuclear power	-	-	22.0	22.5	-	-	-	-	61.3	64.3	83.3	86.8
- Other thermal power ¹⁾	24.1	26.3	25.6	31.1	0.0	0.0	0.4	0.7	3.4	3.9	53.5	62.0
- Coal	16.1	18.5	8.5	13.6	-	-	-	-	0.6	0.9	25.2	33.0
- Oil	0.9	0.9	0.3	0.4	-	-	-	-	0.6	0.8	1.8	2.1
- Peat	0.0	0.0	5.8	7.0	-	-	-	-	0.1	0.1	5.9	7.1
- Natural gas	7.0	6.9	11.0	10.1	-	-	0.4	0.7	1.1	1.2	19.5	18.9
- Others ²⁾	0.0	0.0	-	-	-	-	-	-	1.0	0.9	1.0	0.9
Total renewable power	10.6	10.7	26.5	24.2	16.4	12.0	142.3	136.7	81.4	76.9	277.2	260.5
- Hydro power	0.03	0.0	16.9	14.0	12.4	8.4	140.7	135.0	68.4	65.5	238.4	223.0
- Other renewable power	10.6	10.7	9.6	10.2	4.0	3.6	1.6	1.7	13.0	11.3	38.8	37.5
- Wind power	7.0	7.2	0.3	0.2	-	-	0.9	0.9	2.0	1.4	10.2	9.7
- Biofuel	1.9	1.9	8.7	9.4	-	-	0.0	0.0	9.6	8.6	20.2	19.9
- Waste	1.7	1.6	0.6	0.6	-	-	0.7	0.8	1.4	1.3	4.4	4.3
- Geothermal power	-	-	-	-	4.0	3.6	-	-	-	0.0	4.0	3.6
Net imports	1.5	-1.0	12.9	12.9	-	-	-13.9	-10.0	-2.0	1.3	-1.5	3.2

¹⁾ Fossil fuels.

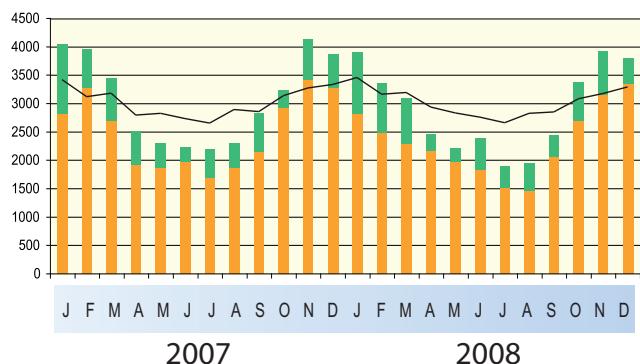
²⁾ DK West includes refinery gas.

³⁾ In Norway: Gross electricity production.

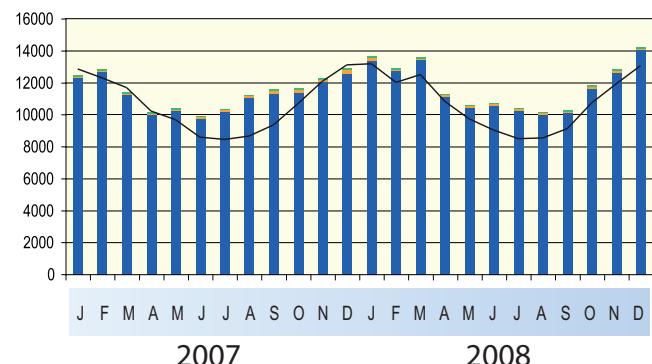


S7 Monthly generation and total consumption of electricity 2007-2008, GWh

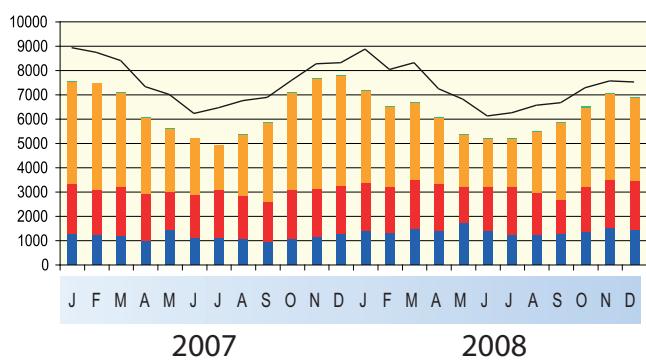
Denmark



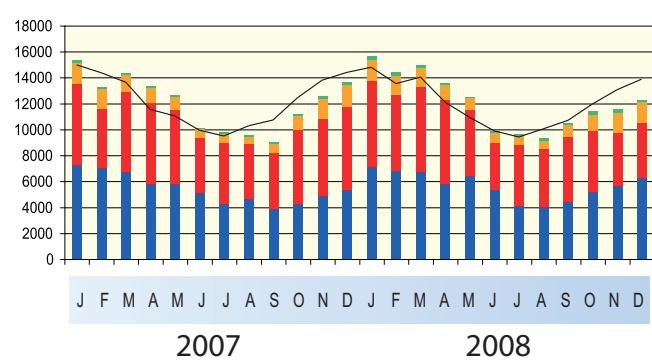
Norway



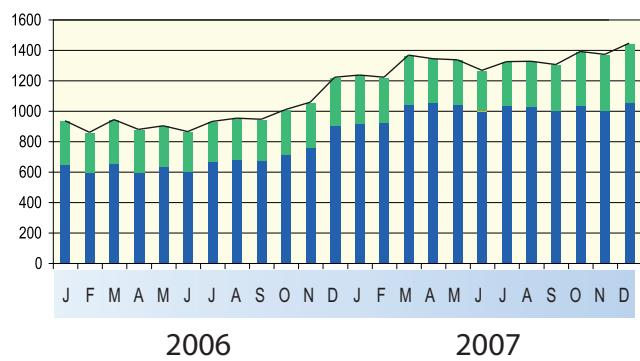
Finland



Sweden



Iceland



- Wind power (Denmark) or geothermal power (Iceland)
- Other thermal power
- Nuclear power
- Hydro power
- Total consumption

S8 Total electricity supply 2008, GWh

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Generation 2008	34 648	74 137	16 468	142 727	146 021	414 001
Net imports 2008	1 453	12 910	-	-13 876	-1 958	-1 471
Total supply 2008	36 101	87 047	16 468	128 851	144 063	412 530
Generation 2007	37 060	77 817	11 976	137 387	145 087	409 327
Net imports 2007	-950	12 864	-	-10 035	1 315	3 194
Total supply 2007	36 110	90 680	11 976	127 352	146 402	412 520

Electricity consumption

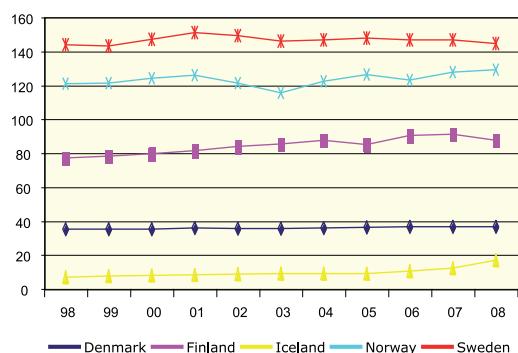
S9 Electricity consumption 2008, GWh

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Total consumption	36 102	87 047	16 604	128 851	144 059	412 663
Occasional power to electric boilers	-	0	181	4 312	1 333	5 826
Gross consumption	36 102	87 047	16 423	124 539	142 726	406 837
<i>Temperature corrected gross consumption</i>	35 425	88 780	16 067	128 405	145 747	414 424
Grid losses	2 324	3 050	946	10 501	10 989	27 810
Pumped storage power	0	-	-	1 384	28	1 412
Net consumption¹⁾	33 778	83 997	15 477	112 654	131 709	377 615
- housing	9 837	21 558	856	36 501	38 800	107 552
- industry (incl. energy sector)	9 517	44 314	13 035	49 568	59 200	175 634
- trade and services (incl. transport)	11 084	16 889	1 029	24 935	27 700	81 637
- other (incl. agriculture)	3 341	1 236	557	1 650	6 009	12 793
Total consumption 2007	36 111	90 680	11 976	127 352	146 023	412 142
Change compared to 2007	0.0 %	-4.0 %	38.6 %	1.2 %	-1.3 %	0.1 %
Population² (million)	5.5	5.3	0.3	4.8	9.3	25.2
Gross consumption per capita, kWh	6 564	16 424	51 483	25 946	15 413	16 158

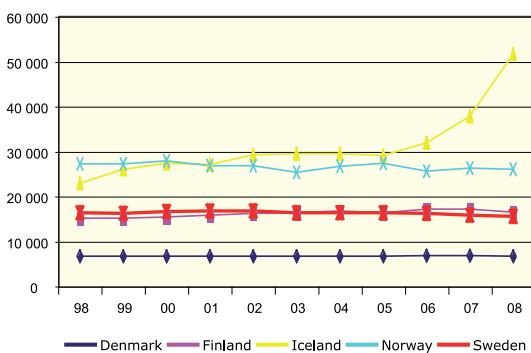
¹⁾ Estimated net consumption.

²⁾ At the end of the year.

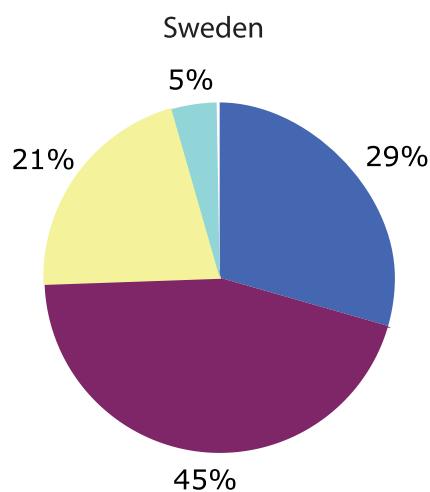
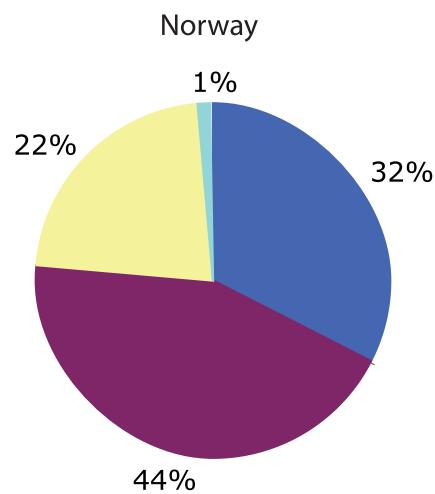
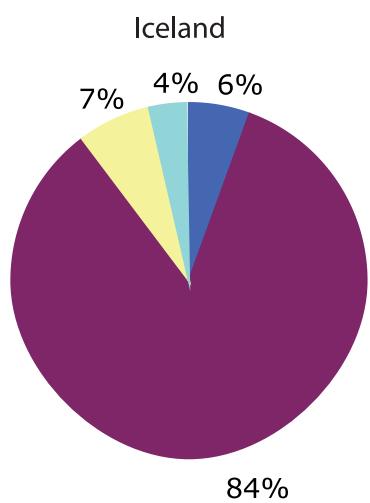
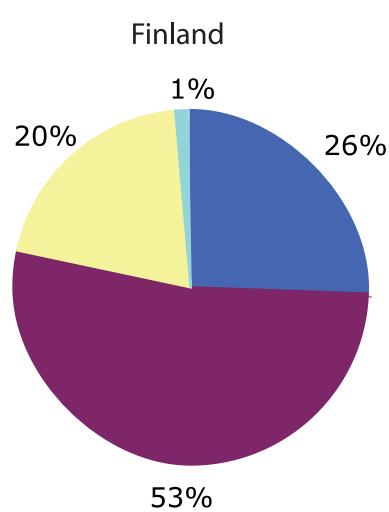
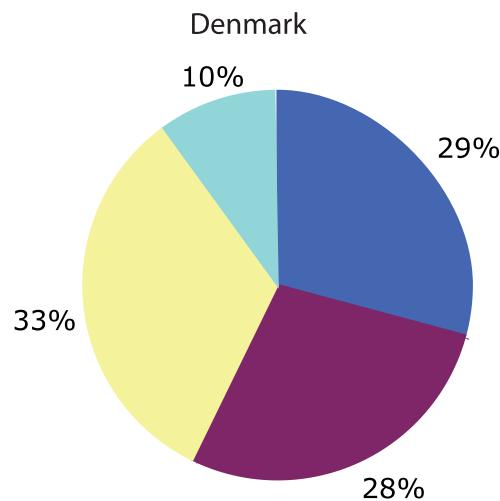
S10 Total electricity consumption 1998-2008, TWh



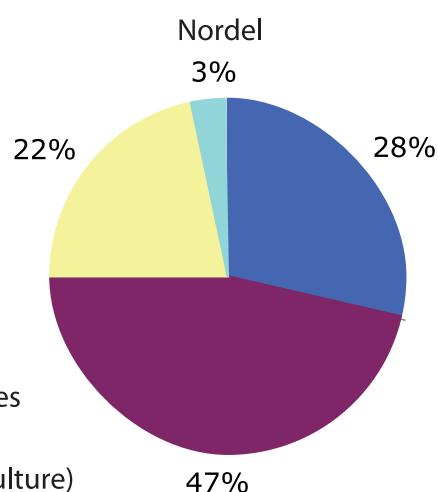
S11 Electricity gross consumption per capita 1998-2008, kWh



S12 Net consumption of electricity 2008, by consumer category



- █ Housing
- █ Industry (incl. energy sector)
- █ Trade and Services (incl. transport)
- █ Other (incl. agriculture)



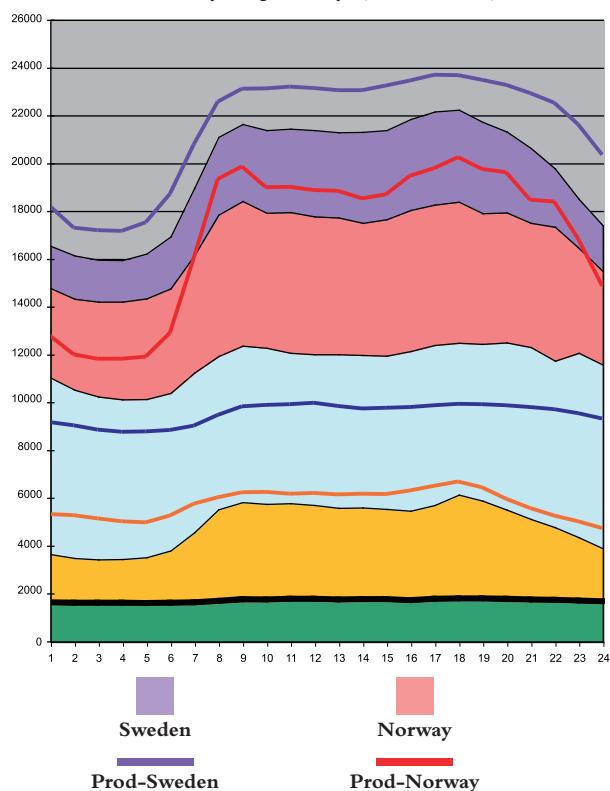
S13 Maximum system load in 2008

	Simultaneous maximum ^{a)}		Maximum system load in each country	
	Date/time (CET)	MWh/h	MWh/h	Date/time (local time)
Denmark	3 January 17:00-18:00	6 231	6 408	03 Jan 18:00-19:00
Finland		12 815	13 770	04 Jan 17:00-18:00
Iceland		N.A.	2 060	18 Dec 19:00-20:00
Norway		20 459	21 589	14 Feb 09:00-10:00
Sweden		23 580	24 500	23 Jan 17:00-18:00
Nordel		63 085		

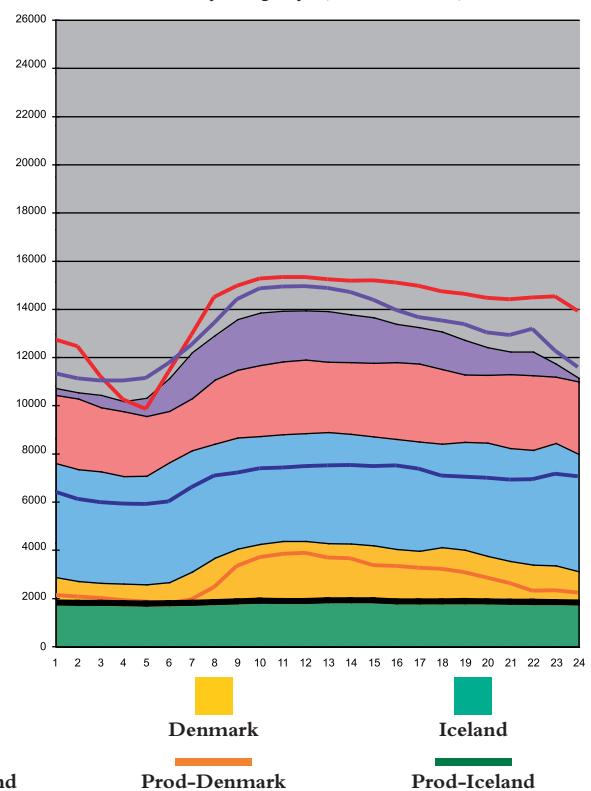
^{a)} In the interconnected Nordic power system.

System load 3rd Wednesday in January and in July 2008

Average 24-hour consumption and production
3rd Wednesday in January (2008-01-16) MWh/h



Average 24-hour consumption and production
3rd Wednesday in July (2008-07-16) MWh/h



Maximum system load 3rd Wednesday in January and in July 2008

	3rd Wednesday in Jan 2008		3rd Wednesday in July 2008	
	17:00 - 18:00 - MWh/h	12:00 - 13:00 - MWh/h	17:00 - 18:00 - MWh/h	12:00 - 13:00 - MWh/h
Denmark	6 135	4 284		
Finland	12 487	8 884		
Iceland	1 715	1 822		
Norway	18 390	11 813		
Sweden	22 240	13 901		
Nordel	60 967	40 705		

All hours are local time.

Transmission grid

S14 Existing interconnections between the Nordel countries 2008

Countries/Stations	Rated voltage kV	Transmission capacity as per design rules ¹⁾		Total length of line km	Of which cable km
		MW			
		From Denmark	To Denmark		
Denmark - Norway					
Tjele - Kristiansand	250/350=		1 000	1 000	240/pole 127/pole
Denmark - Sweden		From Sweden	To Sweden		
Teglstrupgård - Mörarp 1 and 2	132~	[	]	23	10
Gørløsegård - Söderåsen	400~	1 350	1 750	70	8
Hovegård - Söderåsen	400~	[	]	91	8
Hasle (Bornholm) - Borby	60~	60	60	48	43
Vester Hassing - Lindome 1 and 2	2x285=	740	680	149/pole 87/pole	
Finland - Norway		From Finland	To Finland		
Ivalo - Varangerbotn	220~		100	100	228
Finland - Sweden		From Sweden	To Sweden		
Ossauskoski - Kalix	220~	[	]	93	-
Petäjäkoski - Letsi	400~	1 600 ²⁾	1 200 ²⁾	230	-
Keminmaa - Svarbyn	400~	[	]	134	-
Raumo - Forsmark	400=	550	550	233	200
Tingsbacka (Åland) - Senneby	110~	80	80	81	60
Norway - Sweden		From Sweden	To Sweden		
Sildvik - Tornehamn	132~	[	]	39	-
Ofoten - Ritsem	400~	1 000 ⁴⁾	1 300 ^{3,4)}	58	-
Røssåga - Ajaure	220~	[	]	117	-
Nea - Järpströmmen	275~	[	]	100	-
Linnvasslev, transformator	220/66~	50	50	-	-
Lutufallet - Höjles	132~	40	20	18	-
Eidskog - Charlottenberg	132~	100	100	13	-
Hasle - Borgvik	400~	[	]	106	-
Halden - Skogssäter	400~	2 200 ⁴⁾	2 150 ^{4,5)}	135	-

¹⁾ Maximum permissible transmission.

²⁾ In certain situations, the transmission capacity can be lower than the limit given here.

³⁾ Thermal limit. Stability problems and generation in nearby power plants may lower the limit.

⁴⁾ The transmission capacity can in certain situations be lower, owing to bottlenecks in the Norwegian and Swedish network.

⁵⁾ Requires a network protection system during operation (production disconnection).

S15 Existing interconnections between the Nordel countries and other countries 2008

Countries/Stations	Rated voltage kV	Transmission capacity MW		Total length of line km	Of which cable km
		From Nordel	To Nordel		
Denmark - Germany					
Kassø - Audorf	2 x 400~	[]	[]	107	-
Kassø - Flensburg	220~	1500	950	40	-
Ensted - Flensburg	220~			34	-
Ensted - Flensburg	150~	150	150	26	5
Bjæverskov - Rostock	400=	600	600	166	166
Finland - Russia		From Nordel	To Nordel		
Imatra - GES 10	110~	-	100	20	-
Yllikkälä - Viborg ²⁾	2 x 400~	[]	[]	2 x 67	-
Kymi - Viborg ²⁾	400~	-	1400	132	-
Nellimö - Kaitakoski	110~	-	60	50	-
Finland - Estonia		From Nordel	To Nordel		
Espoo - Harku	150=	350	350	105	105
Norway - Russia		From Nordel	To Nordel		
Kirkenes - Boris Gleb	154~	50	50	10	-
Norway - Netherlands		From Nordel	To Nordel		
	450=	700	700	580	580
Sweden - Germany		From Nordel	To Nordel		
Västra Kärrstorp - Herrenwyk	450=	600 ¹⁾	600 ¹⁾	269	257
Sweden - Poland		From Nordel	To Nordel		
Stärnö - Slupsk	450=	600	600	256	256

¹⁾ The transmission capacity is currently limited to 460 MW from Nordel and 390 MW to Nordel due to limitaion in the German network.

²⁾ Back to Back HVDC (+85 kV =) in Viborg and synchronous operation of NWPP power plant.

S16 The most important interconnections and grid reinforcements

Countries	Project	Rated voltage kV	Transmission capacity as per design rules	Total length of line km	Of which cable km	Expected commissioning year	Status
Finland - Sweden	Fенно-Skan 2 (Rauma - Finnbole)	500 HVDC	800	300	200	2011	Decided and under construction
Norway - Sweden	Nea-Järpströmmen	420~	750	100	0	2009	Under construction
Denmark East - Denmark West	Great Belt	400 HVDC	600	58	58	2010	Decided
Sweden - Norway	South-West link	420~/HVDC unknown	1200	700	520	2012-15	Decided in Sweden
Norway - Denmark	Skagerrak 4	400 HVDC	600	215,3	130,5	2014	Decided

S17a Transmission lines owned by TSO in service on 31 December 2008

	400 kV, AC and DC km	220-300 kV, AC and DC km	110, 132, 150 kV km	
Denmark²⁾	1 387	500	4 223	
Finland	4 300 ³⁾	2 330	7 494	
Iceland	328 ¹⁾	523	1 272	
Norway	2 723	4 511	2 080	
Sweden	11 010	4 330	0	

¹⁾ At present in service with 220 kV.

²⁾ Includes also 110 and 150 kV lines not owned by TSO.

³⁾ Includes 50% of Fennø-Skan 1 cable.

S17b Transmission lines owned by TSO in service during 2000-2008

	Denmark ²⁾	Finland	Iceland	Norway	Sweden
2000	5 814	13 630	1 917	8 480	15 130
2001	5 804	13 694	1 923	8 738	15 130
2002	5 804	13 841	1 923	8 796	15 130
2003	5 900	13 847	1 900	8 837	15 130
2004	5 900	13 877	1 900	8 961	15 130
2005	5 954	13 815	1 917	8 961	15 130
2006	5 954	13 801	1 917	9 048	15 130
2007	6 110	13 880	2 116	9 023	15 130
2008	6 110	14 124	2 123	9 314	15 340

²⁾ Includes also 110 and 150 kV lines not owned by TSO.

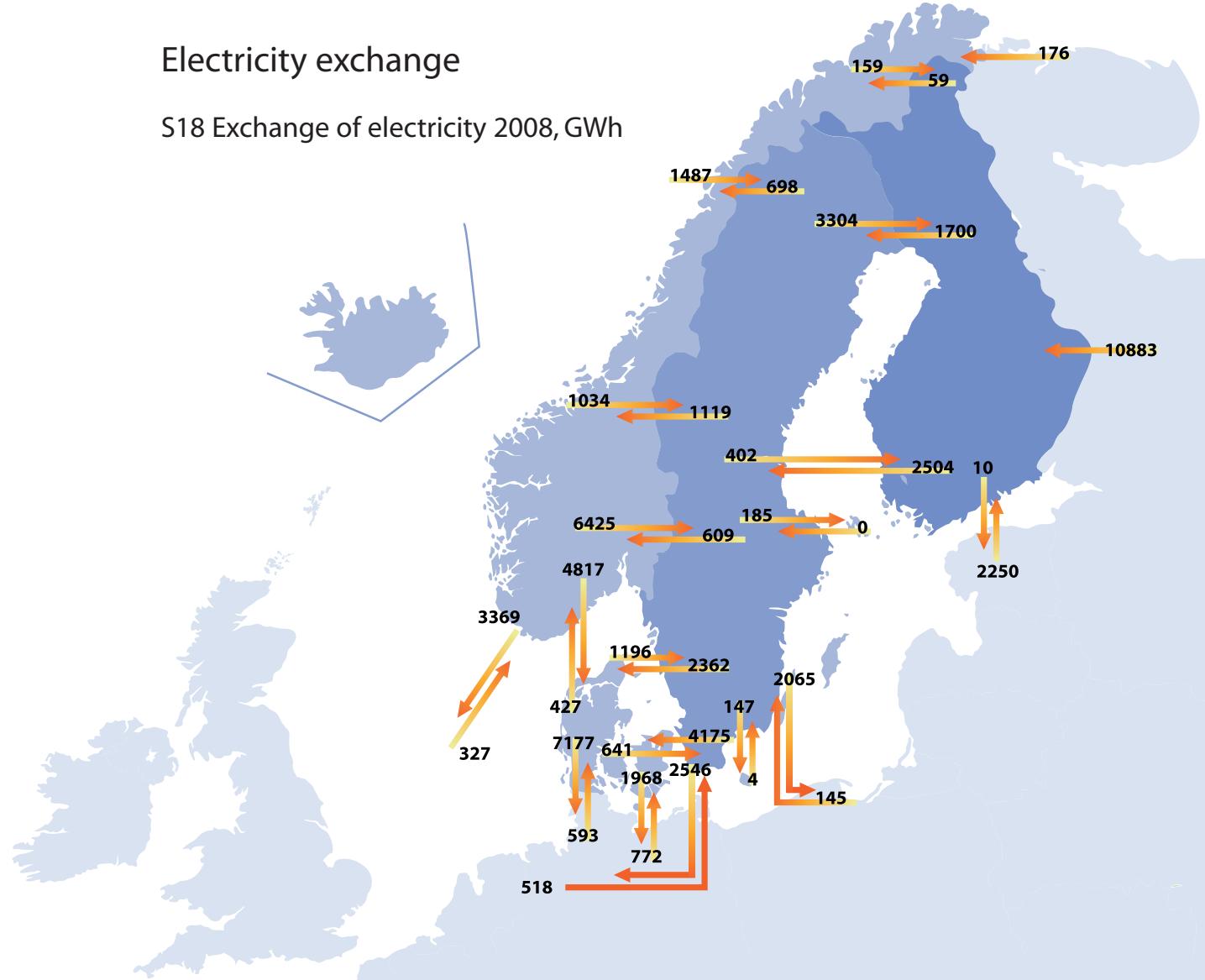


Maintenance carried out in Western Norway

Photo: Statnett

Electricity exchange

S18 Exchange of electricity 2008, GWh

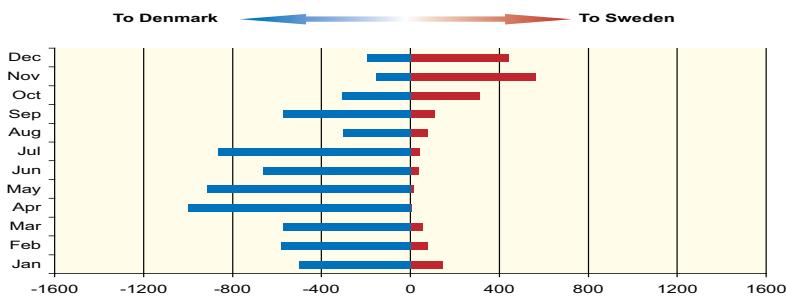
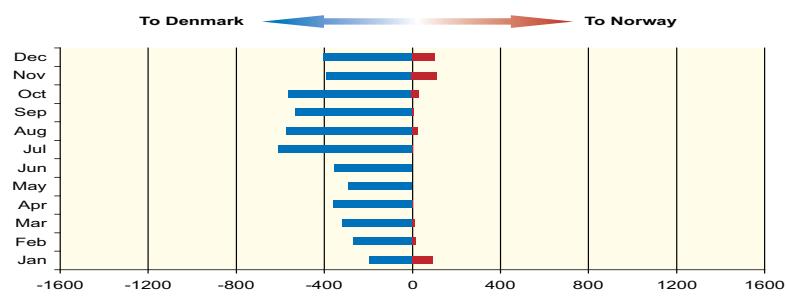
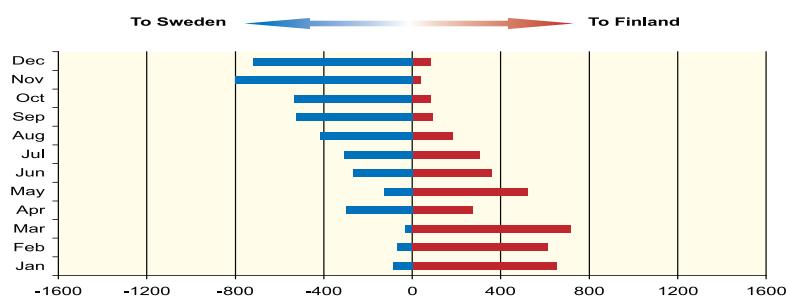
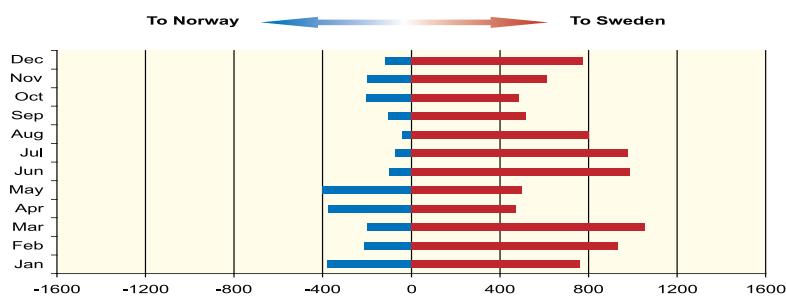
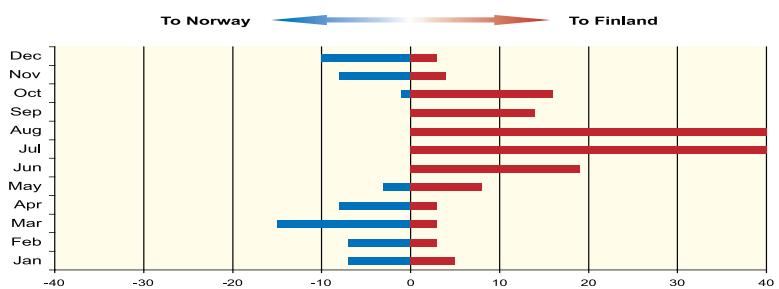


S19 Exchange of electricity 2008, GWh

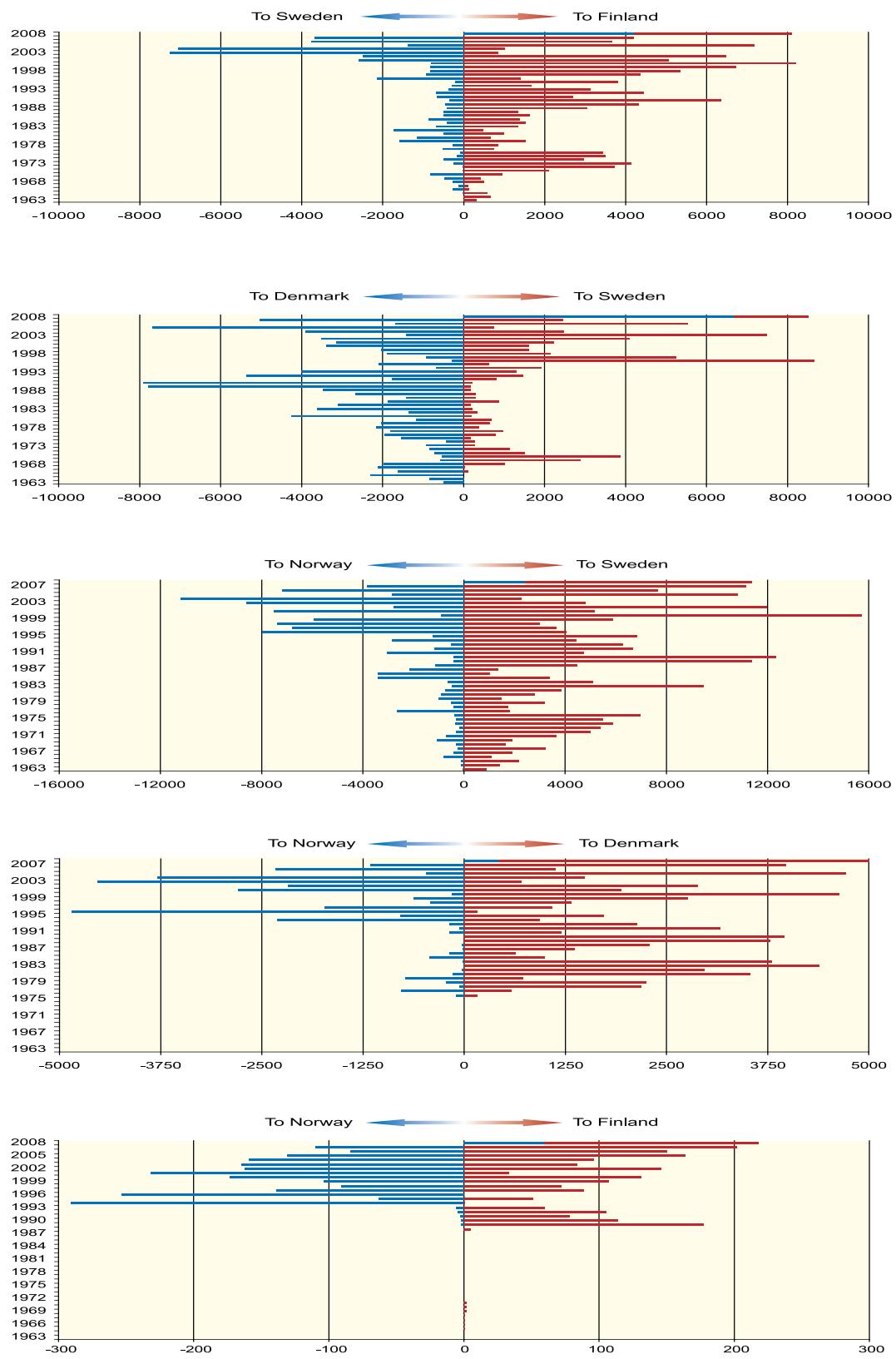
From:	To:	Denmark	Finland	Norway	Sweden	Other countries ¹⁾	Σ From
Denmark		-	-	427	1 841	9 145	11 413
Finland		-	-	59	4 204	10	4 273
Norway		4 817	159	-	8 946	3369	17 291
Sweden		6 684	3 891	2 426	-	4 611	17 612
Other countries¹⁾		1 365	13 133	503	663	-	15 664
Σ To		12 866	17 183	3 415	15 654	17 135	66 253
Nordel							
Total to		12 866	17 183	3 415	15 654	49 118	
Total from		11 413	4 273	17 291	17 612	50 589	
Net imports		1 453	12 910	-13 876	-1 958	-1 471	
Net imports/total consumption		4.0 %	14.8 %	-10.8 %	-1.4 %	-0.4 %	

¹⁾ Russia, Estonia, Germany, Poland, Netherlands.

S20 Monthly exchange of electricity between the Nordel countries 2008, GWh



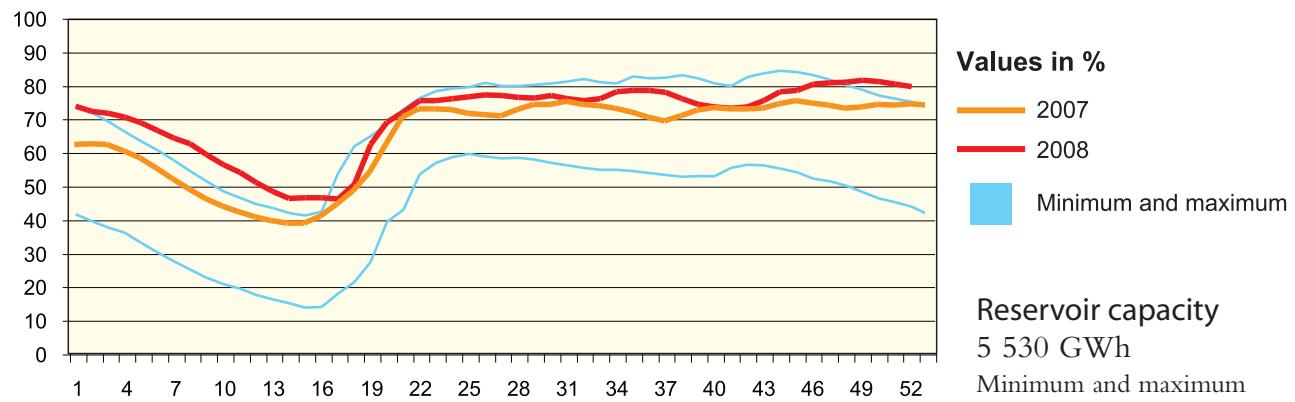
S21 Exchange of electricity between the Nordel countries 1963 - 2008, GWh



Other market information

S22 Water reservoirs 2008

Finland



Values in %

2007

2008

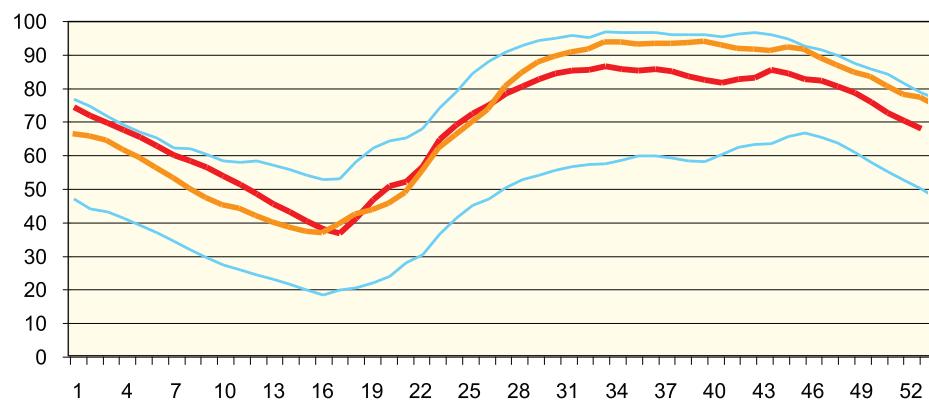
Minimum and maximum

Reservoir capacity

5 530 GWh

Minimum and maximum
limits are based on values
for the years 1990–2002.

Norway



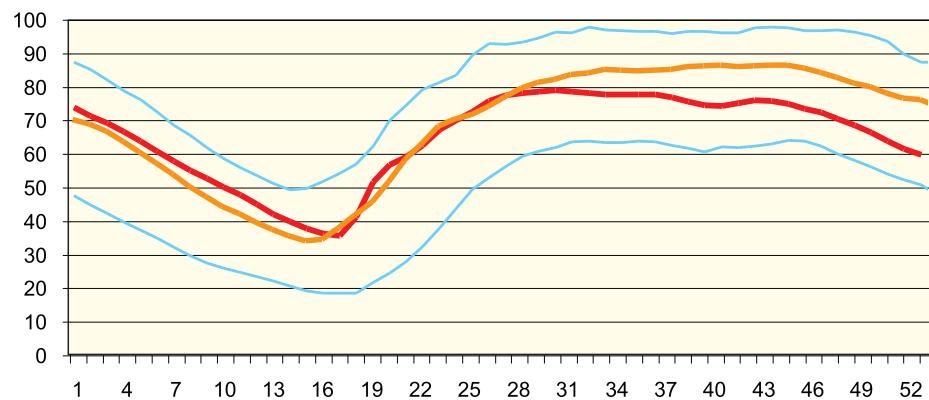
Reservoir capacity

81 729 GWh

The statistics are supposed
to cover 97.1 % of the
total reservoir capacity.
The total reservoir capacity
is 84 147 GWh.

Minimum and maximum
limits are based on values
for the years 1990–2003.

Sweden



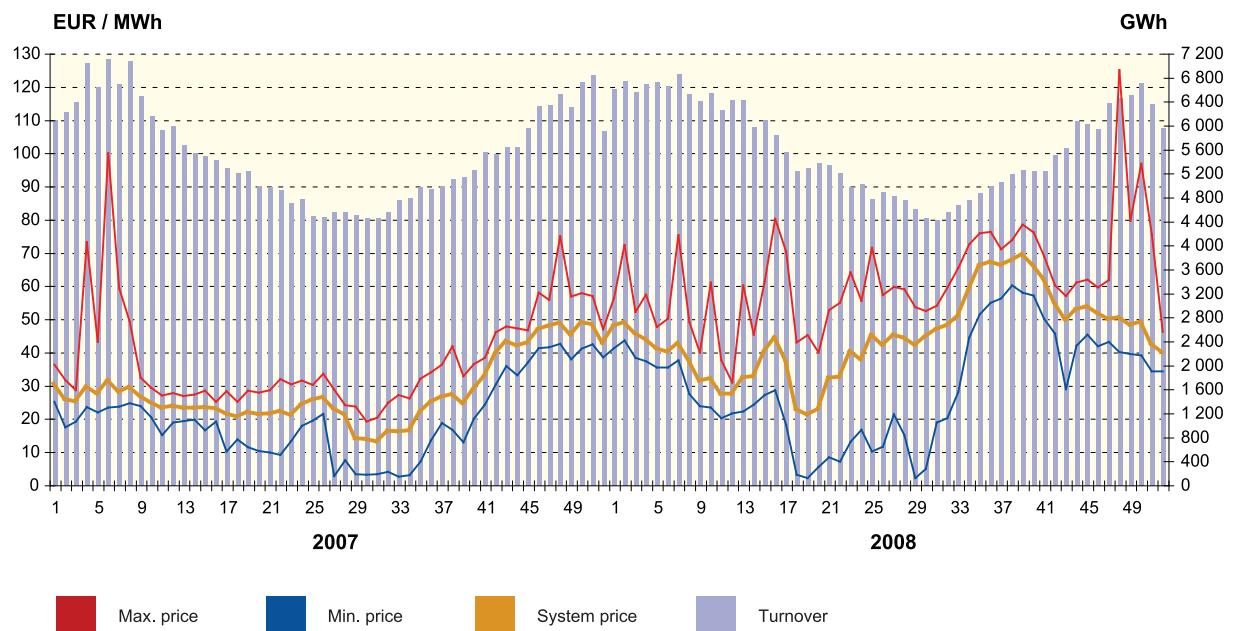
Reservoir capacity

33 758 GWh

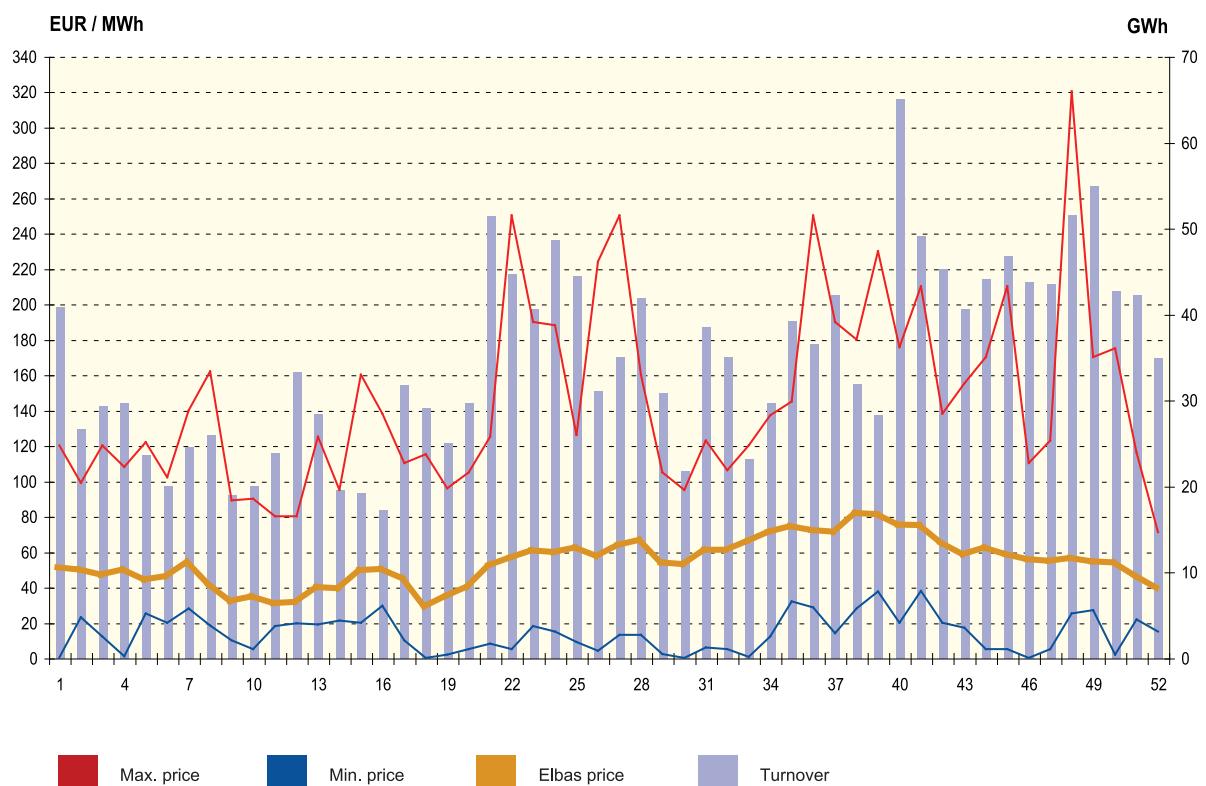
Minimum and maximum
limits are based on values
for the years 1950–2006.

S23 Prices and turnover on the Nordic power and carbon markets 2007 - 2008

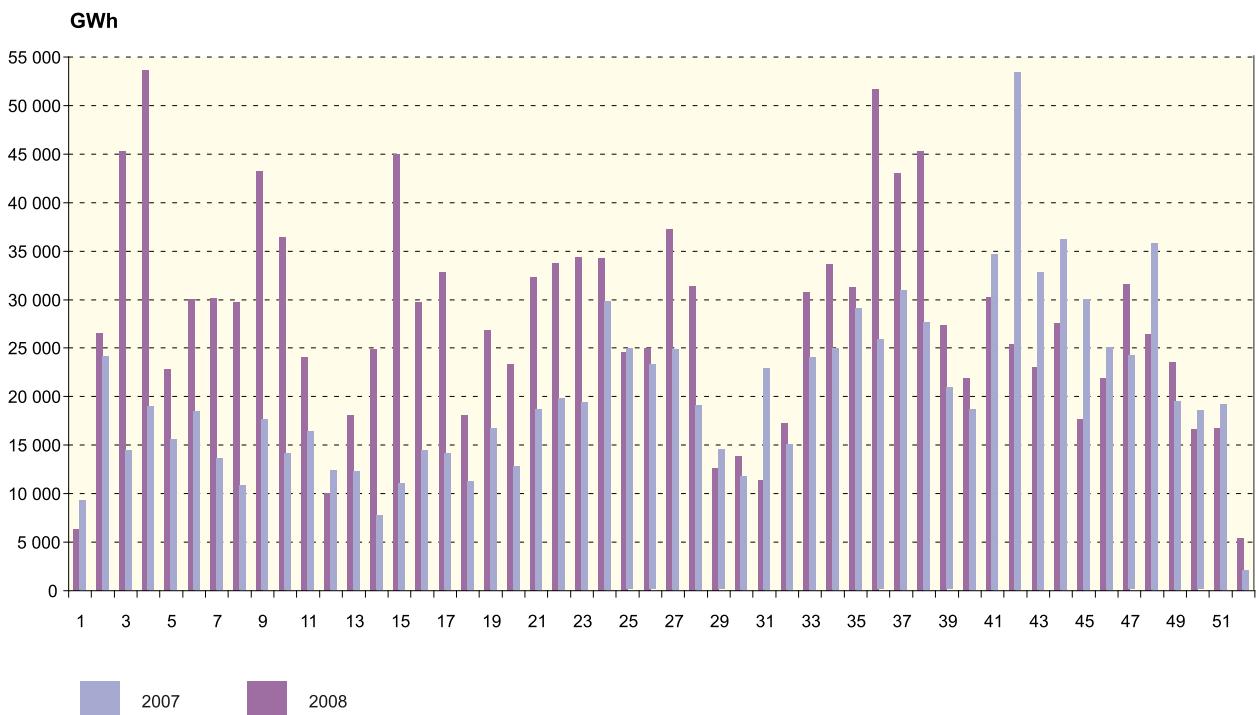
Nord Pool Spot's Elspot market - turnover and weekly system prices 2007 and 2008



Nord Pool Spot's Elbas market - turnover and weekly prices 2008



Nord Pool ASA's Financial market - turnover 2007 and 2008



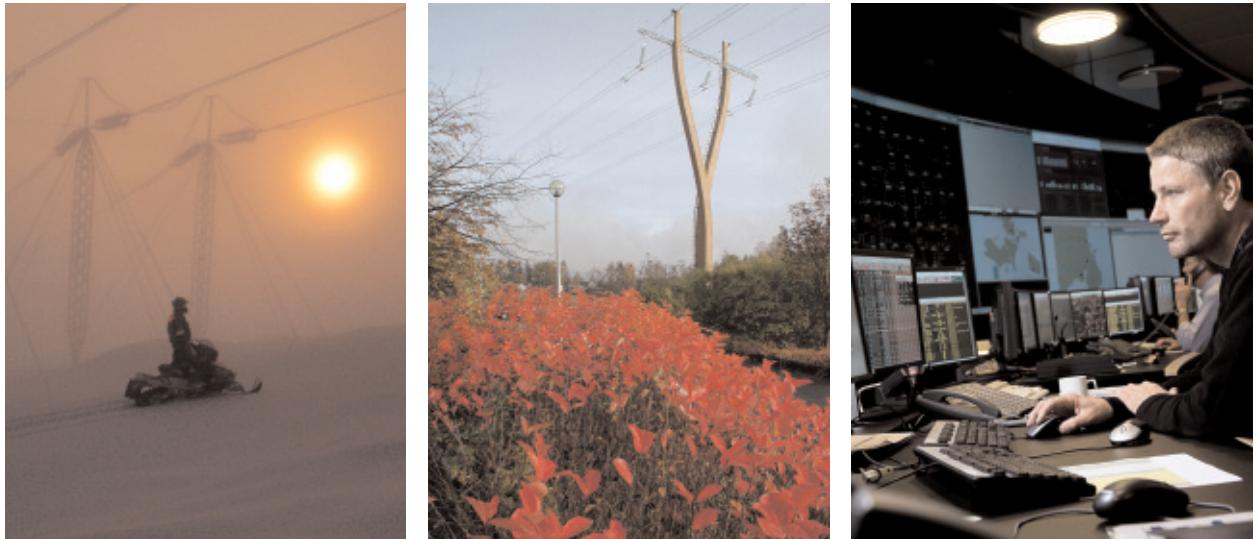


Photo: Landsnet, Risto Jutila, Palle Peter Skov

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