

Annual statistics 2007



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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 2007

		Nordel	Denmark	Finland	Iceland	Norway	Sweden
Population	mill.	25.0	5.5	5.3	0.3	4.7	9.2
Total consumption	TWh	412.6	36.4	90.4	12.0	127.4	146.4
Maximum load ¹⁾	GW	61.1	6.1	12.5	1.3	18.6	22.7
Electricity generation	TWh	409.2	37.0	77.8	12.0	137.4	145.1
Breakdown of electricity generation:							
Hydropower	%	55	0	18	70	98	45
Nuclear power	%	21	-	29	-	-	44
Other thermal power	%	21	81	53	0	1	10
Wind power	%	3	19	0	-	1	1
Geothermal power	%	-	-	-	30	-	-

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



Mountains near the popular tourist place Landmannalaugar in Southern Iceland.

Photo: Emil Thor



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 2007, MW

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Installed capacity total¹⁾	13 032	16 900	2 363	30 313	34 068	96 676
Nuclear power	-	2 651	-	-	9 074	11 725
Other thermal power	9 899	11 137	120	890	8 005	30 051
- Condensing power	928 ²⁾	2 988	-		2 298	6 214
- CHP, district heating	7 754	4 051	-	142	2 883	14 830
- CHP, industry	477	3 293	-	49	1 224	5 043
- Gas turbines etc.	741	805	120	699	1 600	3 965
Hydro power	9	3 031	1758	29 043	16 209	50 050
Wind power	3 124	81	-	380	780	4 365
Geothermal power	-	-	485	-	-	485
Mothballed³⁾	0	0	0	0	510	510

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 2007, MW

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Installed capacity, total¹⁾	13 032	16 900	2 363	30 313	34 068	96 676
Nuclear power	-	2 651	-	-	9 074	11 725
Fossil fuels²⁾	9 264 ⁵⁾	8 417	120	699	5 119	23 619
Renewable power	3 768	5 832	2 243	29 614	19 875	61 332
- Hydro power	9	3 031	1 758	29 043	16 209	50 050
- Bio fuel	302	2 552	-	104	2 644	5 602
- Waste	333	168	-	87 ⁴⁾	242	830
- Wind power	3 124	81	-	380	780	4 365
- Geothermal power	-	-	485	-	-	485
Mothballed³⁾	0	0	0	0	510	510

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.

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 2007, GWh

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Average-year generation 2007	-	13 120	8 394	121 761	65 000	208 275
Average-year generation 2006	-	13 120	7 289	120 229	65 000	205 638
Change	-	0	1 105	1 532	0	2 637
Reference period	-	1961-90	1950-00	1970-99	1950-00	



S3 Comparison of capacity and maximum system load in 2007, MW

	Denmark	Finland	Iceland	Norway	Sweden
Installed capacity¹⁾	13 032	16 900	2 363	30 313	34 068
Available production capacity²⁾	7 430	13 220	2 363	24 480	28 730
Maximum system load³⁾	6 408	13 763	1 928	21 589	24 300

¹⁾ Installed capacity pr. 31.12.07. 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 2007/2008 at www.nordel.org.

³⁾ Maximum system load for each country in winter 2007/2008, MWh/h.

S4 Changes in installed capacity in 2007

Power category	Type of fuel	Commissioned MW	Decommissioned MW
Denmark			
Condensing power	Coal		
	Oil		
CHP district heating	Oil	16	
	Natural gas	19	8
	Biofuel	2	1
	Waste		
	Other	77	14
CHP Industry	Oil	5	
	Natural gas		7
	Biofuel	13	0
	Waste		
	LPG		
Wind power		3	13
Finland			
Hydro power		40	
CHP, industry		43	
CHP, district heating			46
Wind power		24	
Peak gas turbines		77	
Iceland			
Geothermal power		63	
Hydro power		596	
Norway			
Hydro power		54	38
Wind power		47	
Gas turbine		635	
Sweden			
Hydro power		43	14
CHP district heating		18	2
	Biofuel		82
	Natural gas		5
	Oil		
CHP Industry	Waste	60	65
Gasturbine	Biofuel		13
Nuclear power	Oil	114	5
Wind power		200	
Total		2 148	312



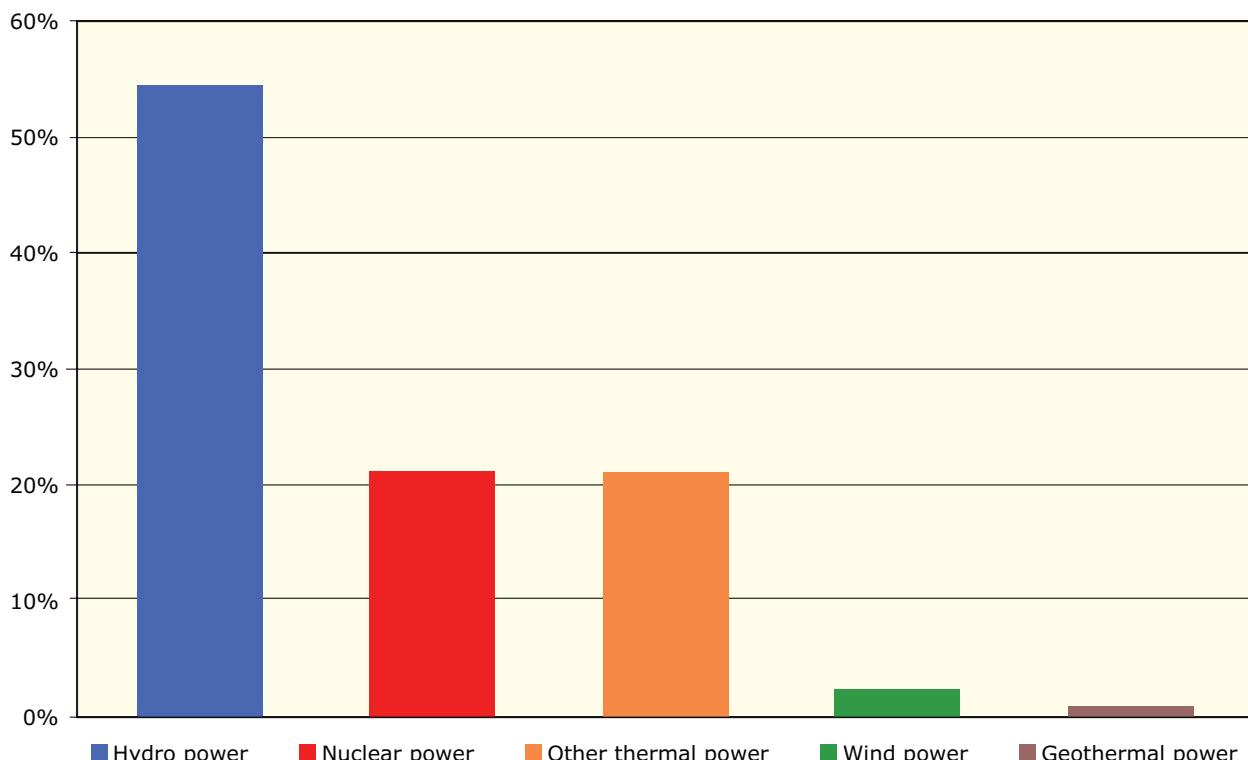
S5 Electricity generation 2007, GWh

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Total generation	37 025	77 769	11 976	137 387 ²⁾	145 087	409 244
Nuclear power	-	22 496	-	-	64 278	86 774
Other thermal power	29 824	41 111	3	1 443	13 849	86 230
- Condensing power	14 001	14 507	-	0	606	29 114
- CHP, district heating	13 752 ¹⁾	14 489	-	120	7 135	35 496
- CHP, industry	2 011	12 107	-	593	6 082	20 793
- Gas turbines, etc.	60	8	3	730	26	827
Hydro power	30	13 971	8 394	135 043	65 529	222 967
Wind power	7 171	191	-	901	1 431	9 694
Geothermal power	-	-	3 579	-	-	3 579
Total generation 2006	43 328	78 590	9 925	121 715 ²⁾	140 314	393 872
Change compared to 2006	-14.5 %	-1.0 %	20.7 %	12.9 %	3.4 %	3.9 %

¹⁾ Includes condensing power generation.

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

Electricity generation 2007, GWh (share of total)



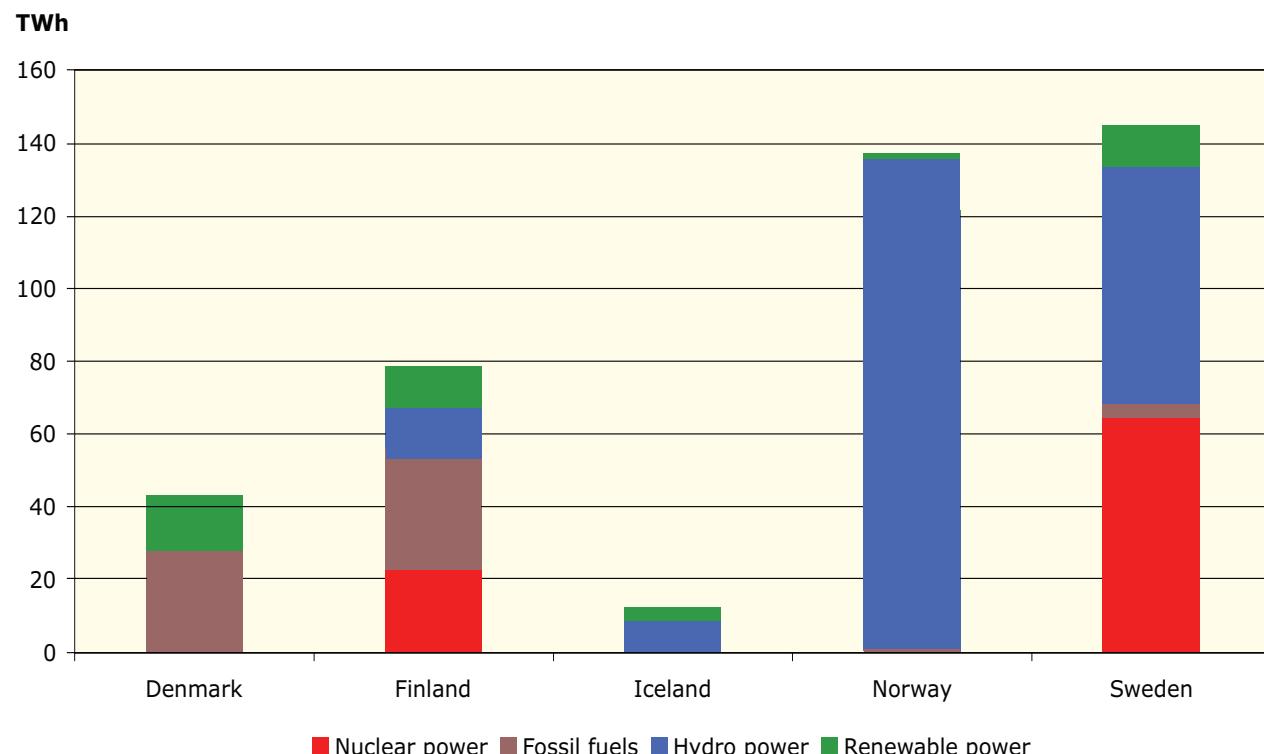
S6 Total electricity generation by energy source and net exchange of electricity 2006 and 2007, TWh

	Denmark		Finland		Iceland		Norway		Sweden		Nordel	
	2007	2006	2007	2006	2007	2006	2007	2006	2007	2006	2007	2006
Total generation³⁾	37.2	43.2	77.8	78.6	12.0	9.9	137.4	121.7	145.1	140.3	409.5	393.7
Total thermal power	27.7	34.6	53.1	55.9	0.0	0.0	0.7	0.4	68.2	68.8	149.7	159.7
- Nuclear power	-	-	22.5	22.0	-	-	-	-	64.3	65.0	86.8	87.0
- Other thermal power ¹⁾	27.7	34.6	30.6	33.9	0.0	0.0	0.7	0.4	3.9	3.8	62.9	72.7
- Coal	20.3	25.8	13.4	16.1	-	-	-	-	0.9	1.0	34.6	42.9
- Oil	0.3	0.1	0.3	1.8	-	-	-	-	0.8	1.2	1.5	3.1
- Peat	0.0	0.0	6.6	6.2	-	-	-	-	0.1	0.1	6.7	6.3
- Natural gas	6.8	8.5	10.3	9.8	-	-	0.7	0.4	1.2	0.9	19.0	19.6
- Others ²⁾	0.3	0.2	-	-	-	-	-	-	0.9	0.6	1.2	0.8
Total renewable power	9.6	8.6	24.7	22.7	12.0	9.9	136.7	121.3	76.9	71.5	259.8	234.0
- Hydro power	0.0	0.0	14.0	11.3	8.4	7.3	135.0	119.9	65.5	61.2	222.9	199.7
- Other renewable power	9.5	8.6	10.7	11.4	3.6	2.6	1.7	1.4	11.4	10.3	36.9	34.3
- Wind power	7.2	6.1	0.2	0.2	-	-	0.9	0.7	1.4	1.0	9.7	8.0
- Biofuel	0.3	0.8	9.8	10.1	-	-	0.0	0.4	8.7	8.2	18.8	19.5
- Waste	1.6	1.7	0.6	1.1	-	-	0.8	0.3	1.3	1.1	4.4	4.2
- Geothermal power	-	-	-	-	3.6	2.6	-	-	0.0	0.0	3.6	2.6
Net imports	-1.0	-6.9	12.7	11.5	-	-	-10.0	0.9	1.3	6.1	3.0	11.5

¹⁾ Fossil fuels.

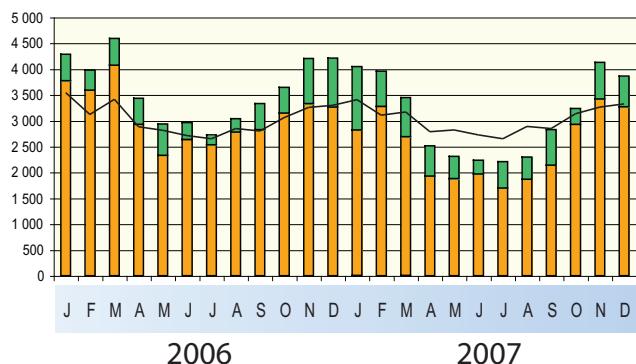
²⁾ DK West includes refinery gas.

³⁾ In Norway: Gross electricity production.

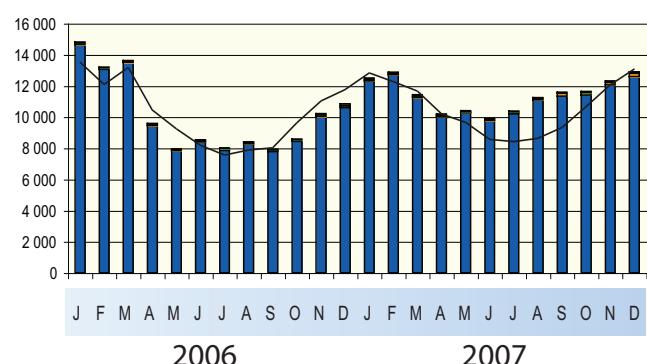


S7 Monthly generation and total consumption of electricity 2006-2007, GWh

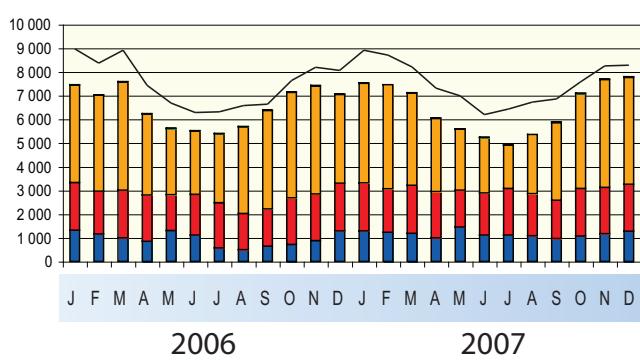
Denmark



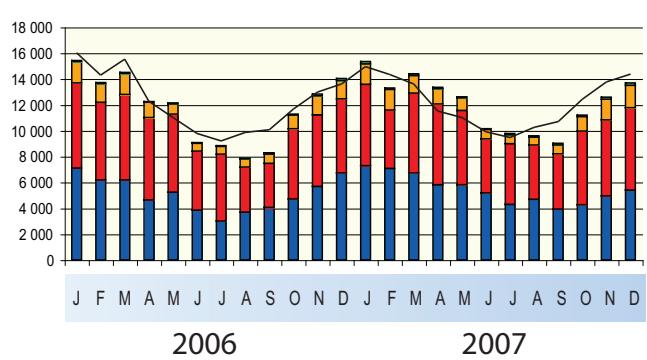
Norway



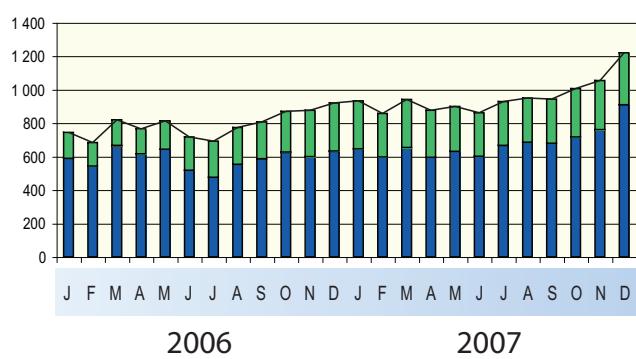
Finland



Sweden



Iceland



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



S8 Total electricity supply 2007, GWh

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Generation 2007	37 025	77 769	11 976	137 387	145 087	409 244
Net imports 2007	-950	12 686	-	-10 035	1 315	3 016
Total supply 2007	36 075	89 991	11 976	127 352	146 402	411 796
Generation 2006	43 328	78 590	9 925	121 715	140 314	393 872
Net imports 2006	-6 936	11 521	-	857	6 052	11 494
Total supply 2006	36 392	84 511	8 680	122 572	147 332	399 487

Electricity consumption

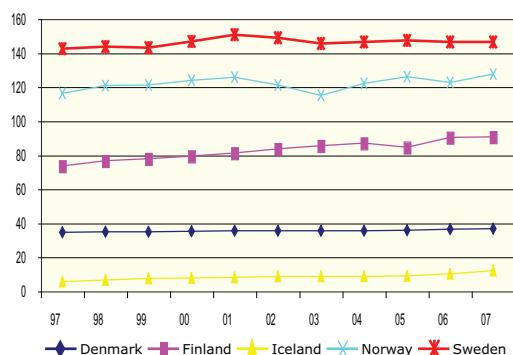
S9 Electricity consumption 2007, GWh

	Denmark	Finland	Iceland	Norway	Sweden	Nordel
Total consumption	36 446	90 434	11 976	127 352	146 402	412 610
Occasional power to electric boilers	-	0	177	4 311	1 892	6 380
Gross consumption	36 446	90 434	11 799	123 041	144 510	406 230
Temperature corrected gross consumption	36 703	91 553	11 645	126 242	147 062	413 205
Grid losses	2 244	3 343	817	10 727	10 989	28 120
Pumped storage power	0	-	0	1 596	34	1 630
Net consumption¹⁾	34 202	87 091	10 982	110 718	133 487	376 480
- housing	9 778	21 150	941	37 425	39 400	108 694
- industry (incl. energy sector)	9 933	47 586	8 591	46 725	59 800	172 635
- trade and services (incl. transport)	11 015	17 181	965	24 913	28 100	82 174
- other (incl. agriculture)	3 476	1 174	485	1 655	6 187	12 977
Total consumption 2006	36 392	90 111	9 925	122 572	146 366	405 366
Change compared to 2006	0.1 %	0.4 %	20.7 %	3.9 %	0.0 %	1.8 %
Population²⁾ (million)	5.5	5.3	0.3	4.7	9.2	25.0
Gross consumption per capita, kWh	6 657	17 063	37 696	26 151	15 737	16 265

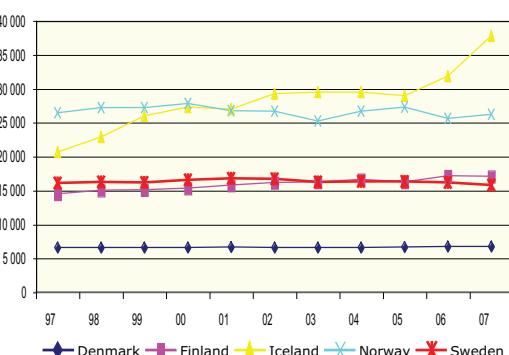
¹⁾ Estimated net consumption.

²⁾ At the end of the year.

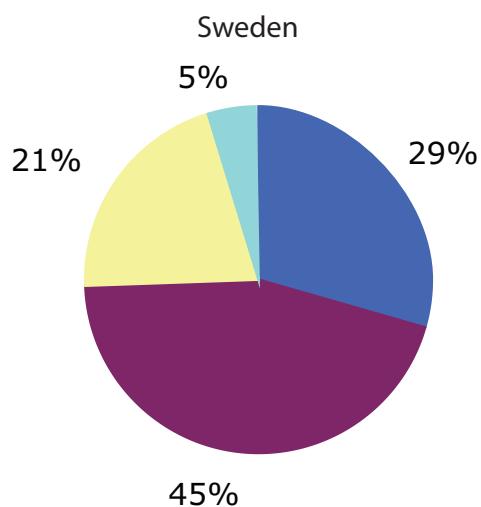
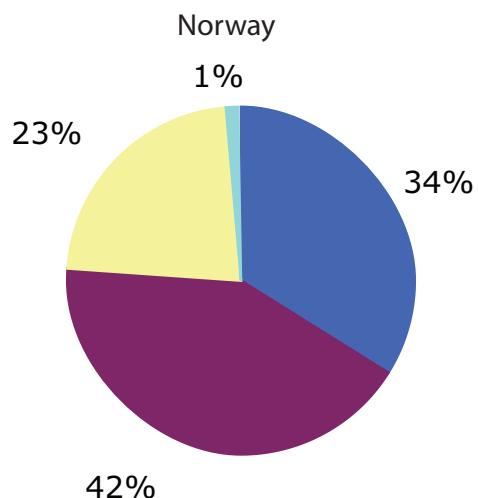
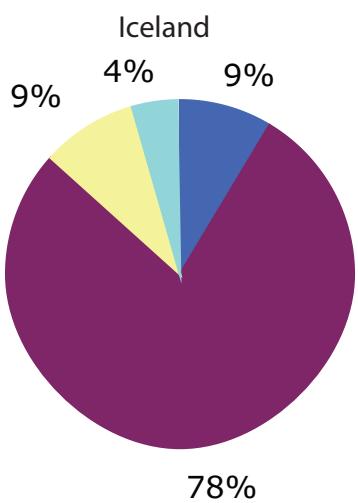
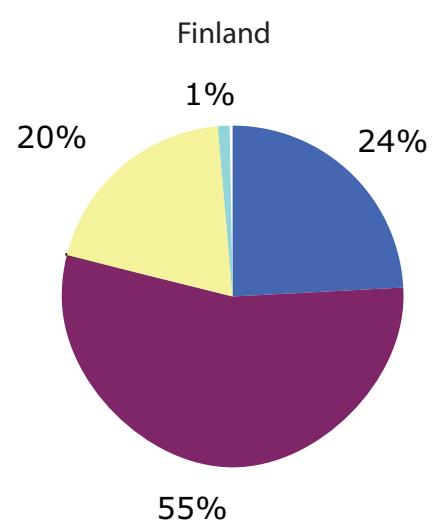
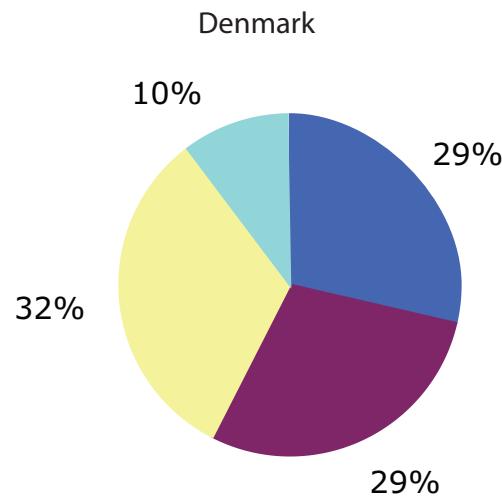
S10 Total electricity consumption 1997-2007, TWh



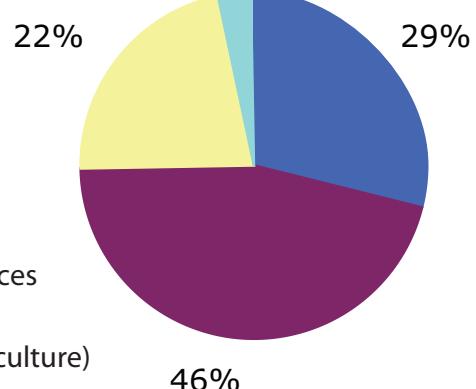
S11 Electricity gross consumption per capita 1997-2007, kWh



S12 Net consumption of electricity 2007, by consumer category



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



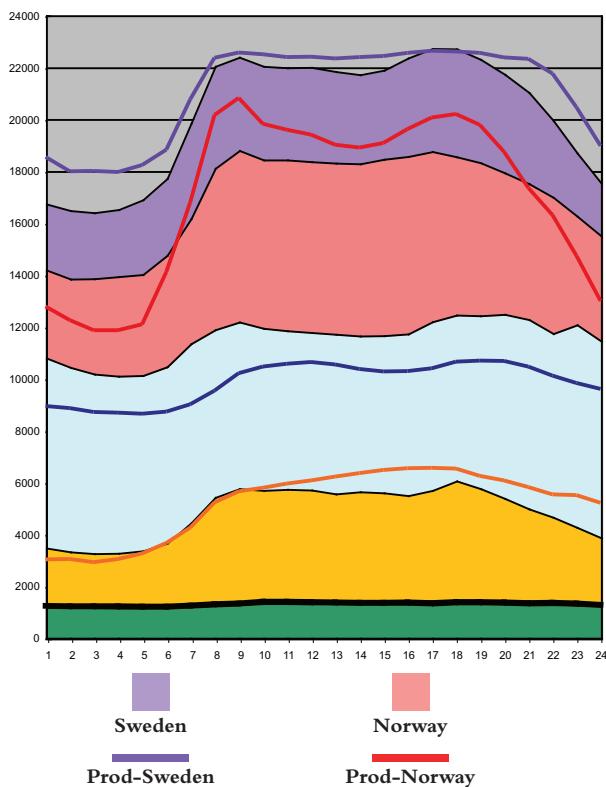
S13 Maximum system load in 2007

Simultaneous maximum ¹⁾ 21 February 18:00-19:00 (CET)		Maximum system load in each country	
	MWh/h	MWh/h	Date/time (local time)
Denmark	6 050	6 372	24 Jan 18:00-19:00
Finland	14 250	14 914	08 Feb 07:00-08:00
Iceland	N.A.	1 711	10 Dec 18:00-19:00
Norway	21 450	21 588	14 Dec 08:00-09:00
Sweden	26 200	26 200	21 Feb 18:00-19:00
Nordel	67 950		

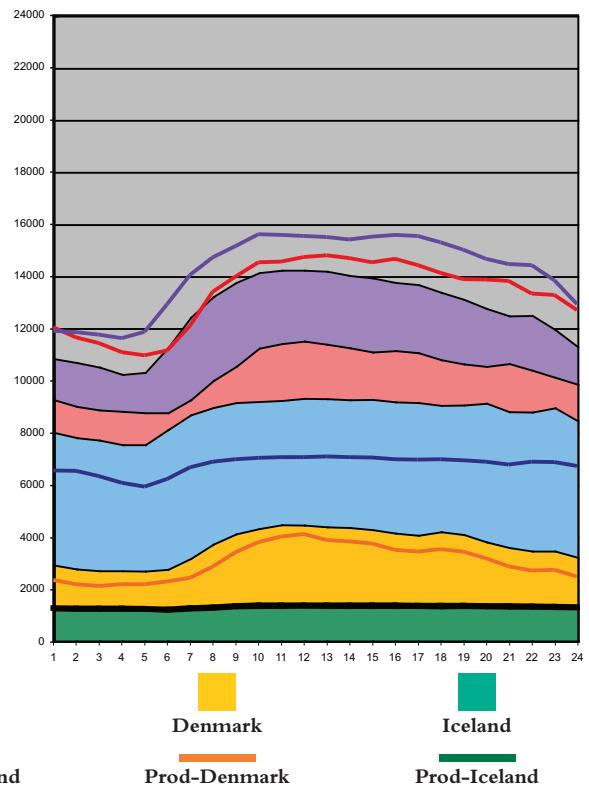
¹⁾ In the interconnected Nordic power system.

System load 3rd Wednesday in January and in July 2007

Average 24-hour consumption and production
3rd Wednesday in January (2007-01-17) MWh/h



Average 24-hour consumption and production
3rd Wednesday in July (2007-07-18) MWh/h



Maximum system load 3rd Wednesday in January and in July 2007

3rd Wednesday in Jan 2007 17:00 - 18:00 - MWh/h		3rd Wednesday in July 2007 12:00 - 13:00 - MWh/h	
Denmark	6 065	4 378	
Finland	12 455	9 301	
Iceland	1 324	1 288	
Norway	18 558	11 391	
Sweden	22 730	14 197	
Nordel	61 133	40 554	

All hours are local time.



Transmission grid

S14 Existing interconnections between the Nordel countries 2007

Countries/Stations	Rated voltage kV	Transmission capacity as per design rules ¹⁾		Total length of line km	Of which cable km
		MW	MW		
Denmark - Norway		From Denmark		To Denmark	
Tjele - Kristiansand	250/350=		1 000	1 000	240/pole 127/pole
Denmark - Sweden		From Sweden		To Sweden	
Teglstrupgård - Mörarp 1 and 2	132~	[	1 350	] 1 750	23 70 91
Gørlosegård - Söderåsen	400~				10 8 8
Hovegård - Söderåsen	400~				
Hasle (Bornholm) - Borby	60~		60	60	48
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~	[	1 600 ²⁾] 1 200 ²⁾	93 230 134
Petäjäkoski - Letsi	400~				- -
Keminmaa - Svarbyn	400~				-
Raumo - Forsmark	400=		550	550	233 200
Tingsbacka (Åland) - Senneby	110~		80	80	81 60
Norway - Sweden		From Sweden		To Sweden	
Sildvik - Tornemånn	132~	[	1 000 ⁴⁾] 1 300 ^{3,4)}	39 58 117
Ofoten - Ritsem	400~				- -
Røssåga - Ajaure	220~				-
Nea - Järpströmmen	275~				100
Linnvassselv, transformator	220/66~		50	50	- -
Lutufallet - Höjes	132~		40	20	18
Eidskog - Charlottenberg	132~		100	100	13
Hasle - Borgvik	400~	[	2 200 ⁴⁾] 2 150 ^{4,5)}	106
Halden - Skogssäter	400~				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 2007

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	-
Sweden - Germany		From Nordel	To Nordel		
Västra Kärstorp - 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 limitation 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 MW	Total length of line km	Of which cable km	Expected commissioning year	Status
Norway - Netherlands	NorNed (Feda - Eemshaven)	450 HVDC	700	580	580	2007	Decided and under construction
Finland - Sweden	Fenno-Skan 2 (Rauma - Finnböle)	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	130		Decision to be made in 2008



S17a Transmission lines owned by TSO in service on 31 December 2007

	400 kV, AC and DC km	220-300 kV, AC and DC km	110, 132, 150 kV km	
Denmark¹⁾	1 400	500	4 100	
Finland	4 037	2 330	7 513	
Iceland	328 ¹⁾	523	1 265	
Norway	2 431	4 512	2 080	
Sweden	10 760	4 370		

¹⁾ At present in service with 220 kV.

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

S17b Transmission lines owned by TSO in service during 2000-2007

	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	6 140	13 877	1 900	8 961	15 130
2005	6 000	13 815	1 917	8 961	15 130
2006	6 000	13 801	1 917	9 048	15 130
2007	6 000	13 880	2 116	9 023	15 130

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

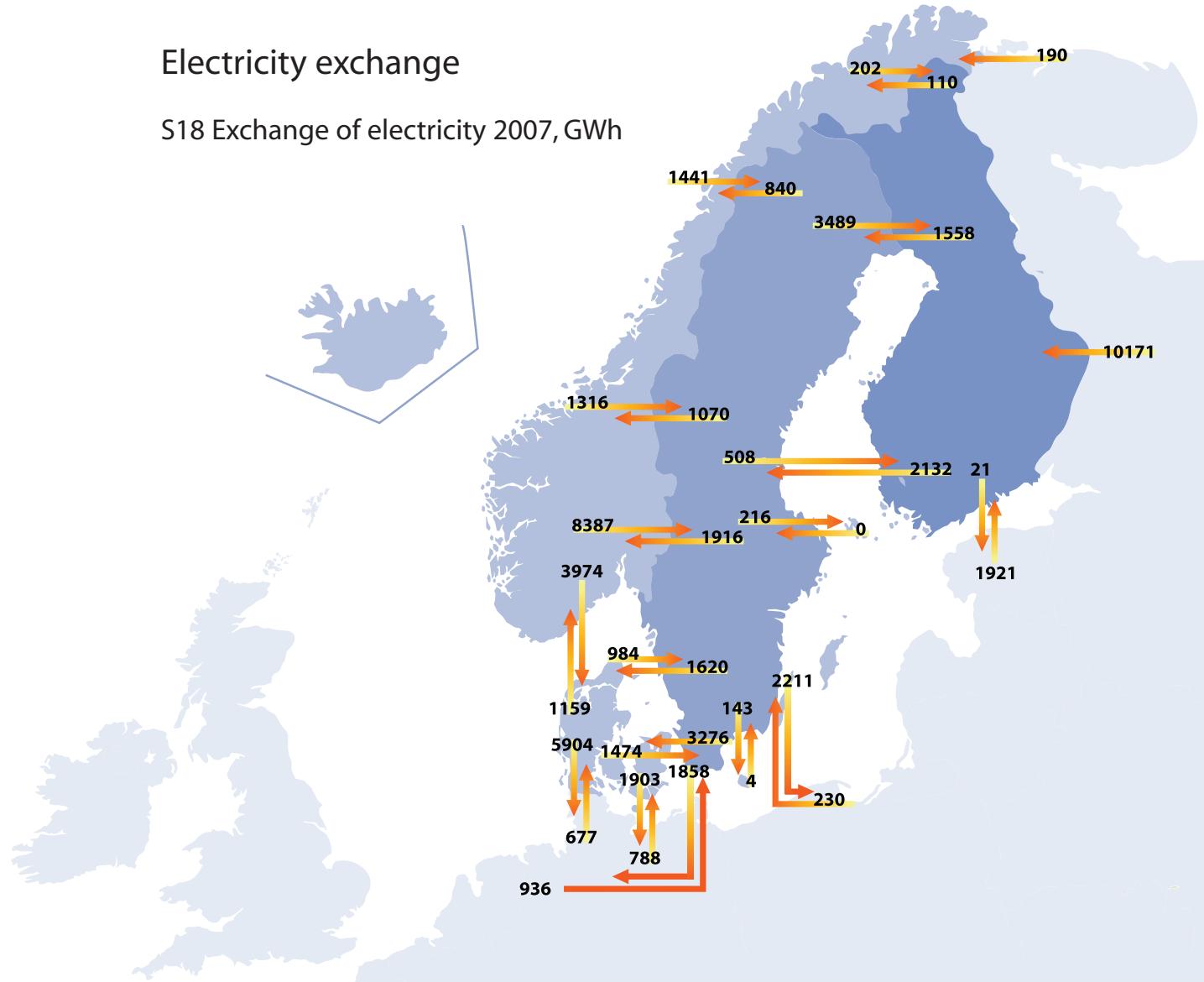


A special-design transmission line "Pirkkapylväs", located in Lempäälä in Southern Finland, was provided with a lighting system in November 2007.
Photo: Juhani Eskelinen



Electricity exchange

S18 Exchange of electricity 2007, GWh

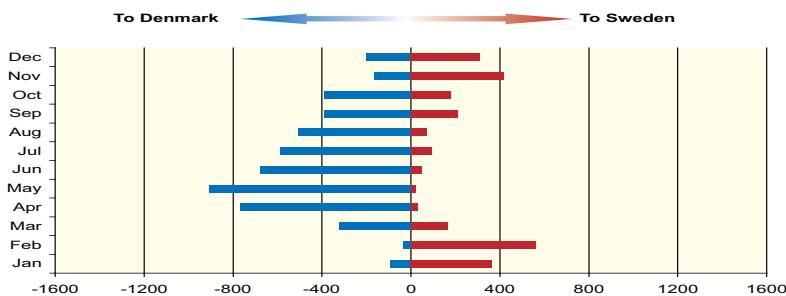
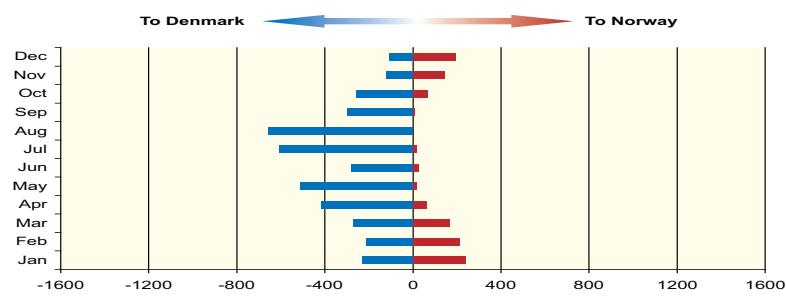
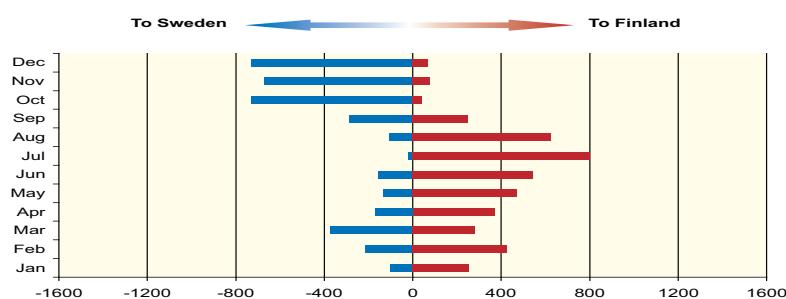
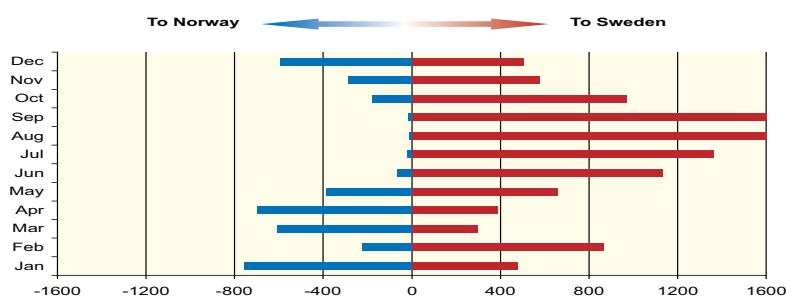
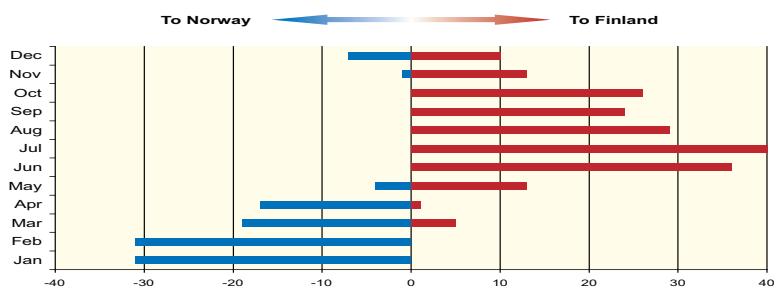


S19 Exchange of electricity 2007, GWh

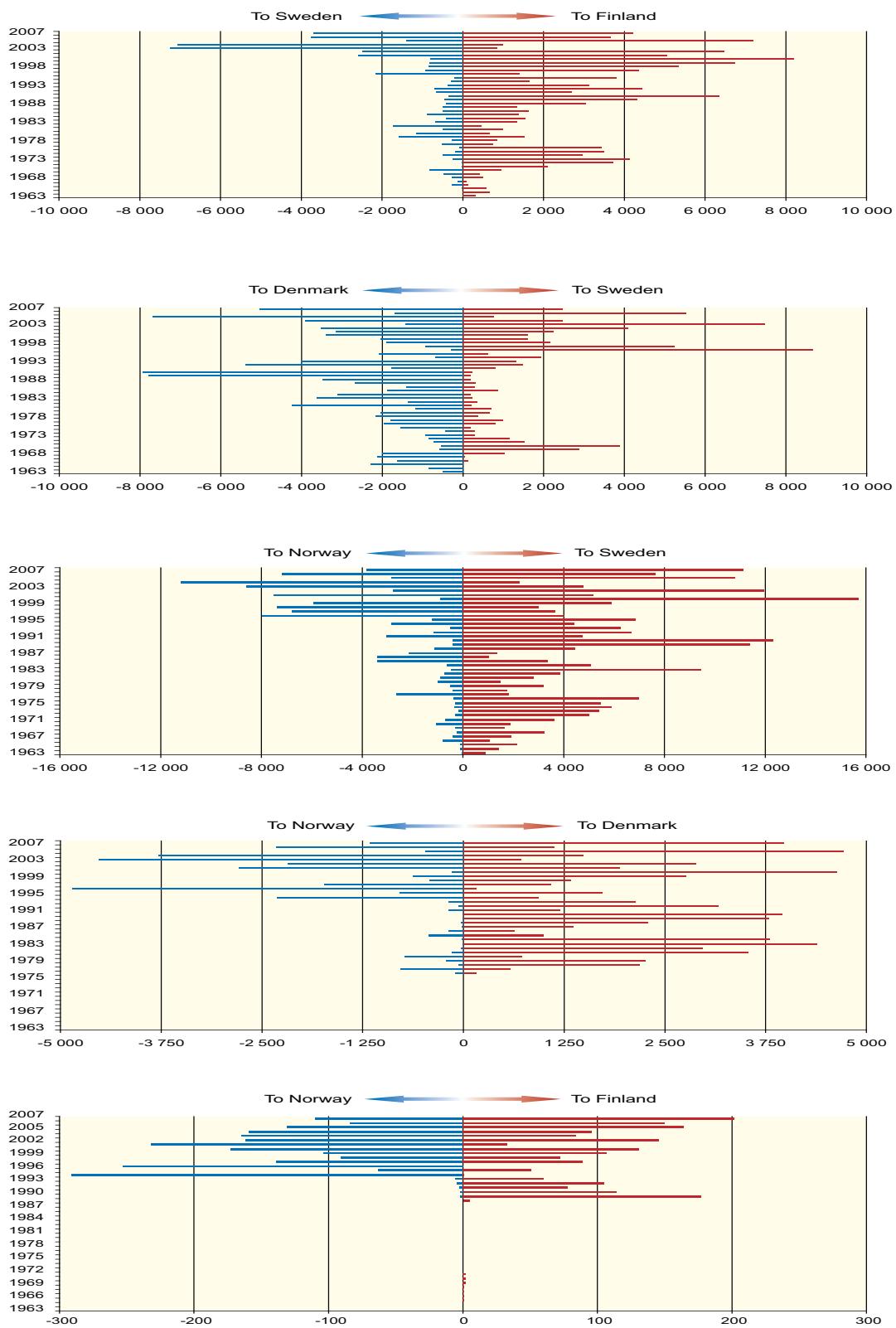
From:	To:	Denmark	Finland	Norway	Sweden	Other countries ¹⁾	Σ From
Denmark	-	-	-	1 159	2 462	7 807	11 428
Finland	-	-	-	110	3 690	21	3 821
Norway	3 974	202	-	-	11 144	-	15 320
Sweden	5 039	4 213	3 826	-	-	4 069	17 147
Other countries¹⁾	1 465	12 092	190	1 166	-	-	14 913
Σ To	10 478	16 507	5 285	18 462	11 897	62 629	
						Nordel	
Total to	10 478	16 507	5 285	18 462	50 732		
Total from	11 428	3 821	15 320	17 147	47 716		
Net imports	-950	12 686	-10 035	1 315	3 016		
Net imports/total consumption	-2.6 %	14.0 %	-7.9 %	0.9 %	0.7 %		

¹⁾ Russia, Estonia, Germany, Poland.

S20 Monthly exchange of electricity between the Nordel countries 2007, GWh



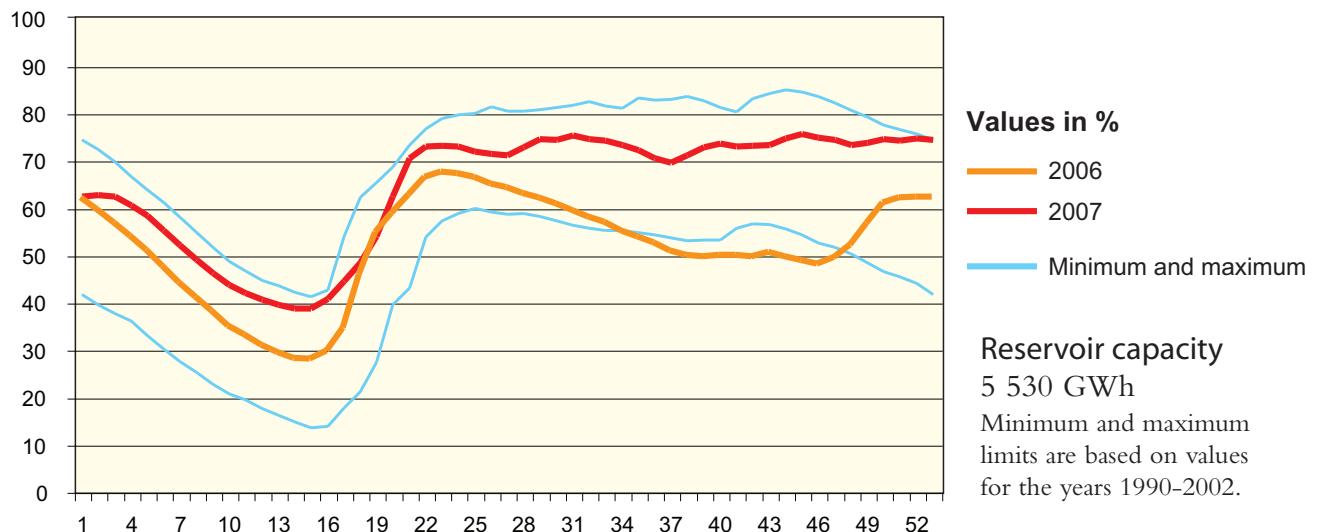
S21 Exchange of electricity between the Nordel countries 1963 - 2007, GWh



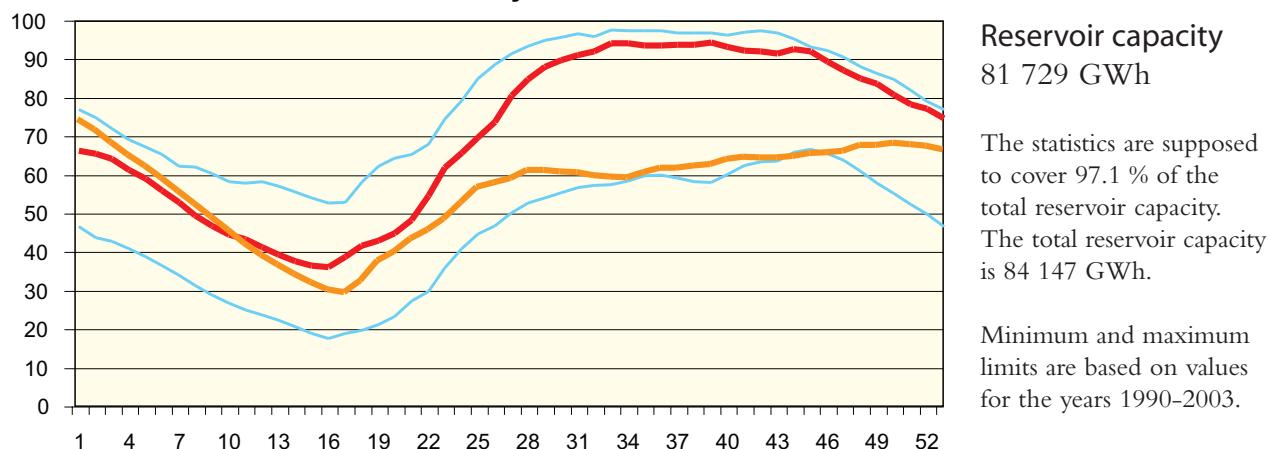
Other market information

S22 Water reservoirs 2007

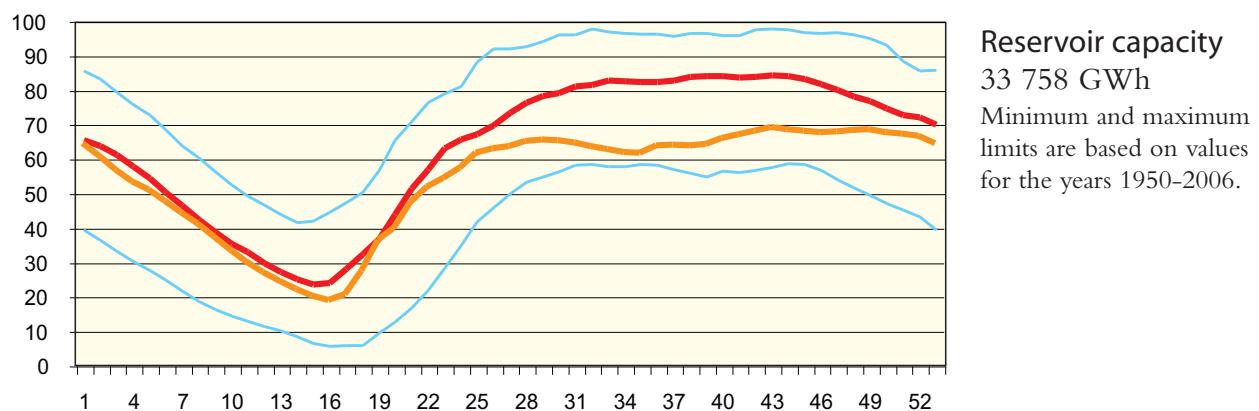
Finland



Norway

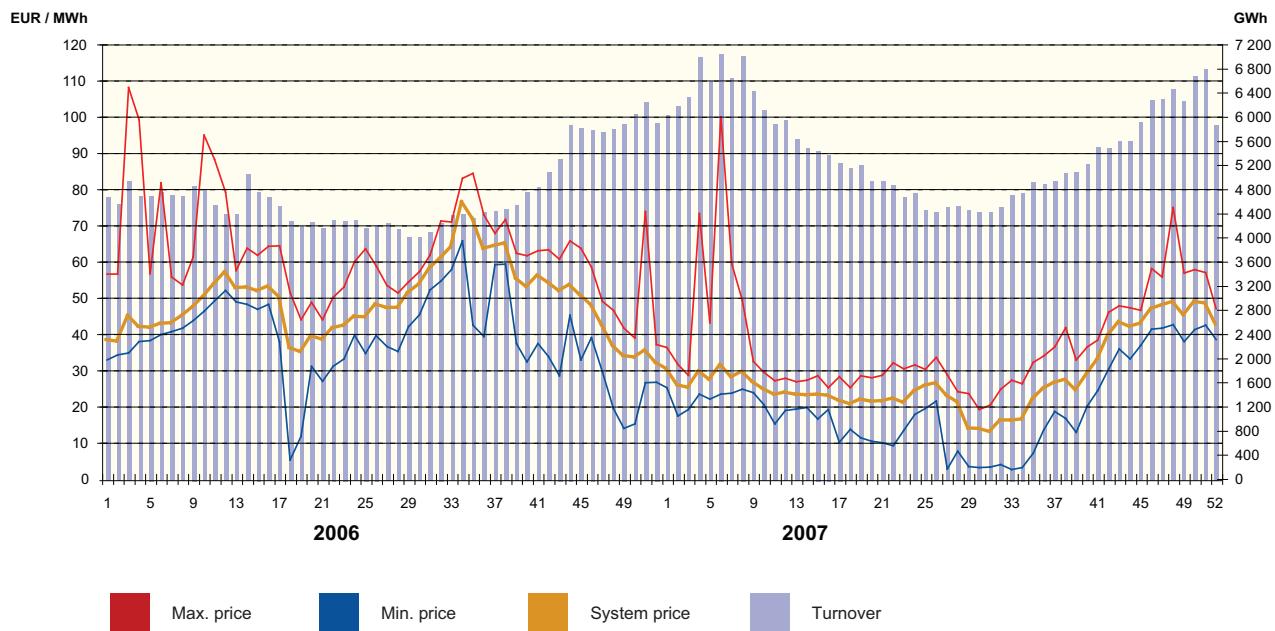


Sweden

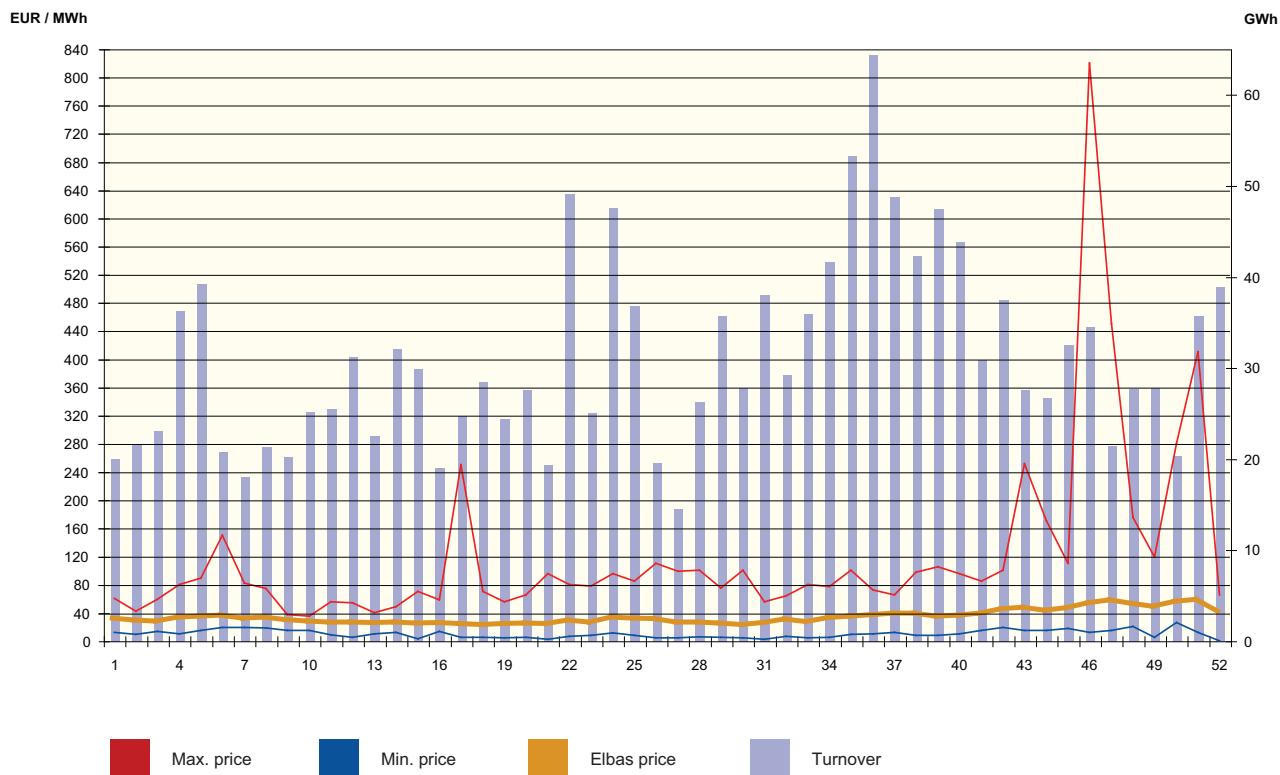


S23 Prices and turnover on the Nordic power and carbon markets 2006 - 2007

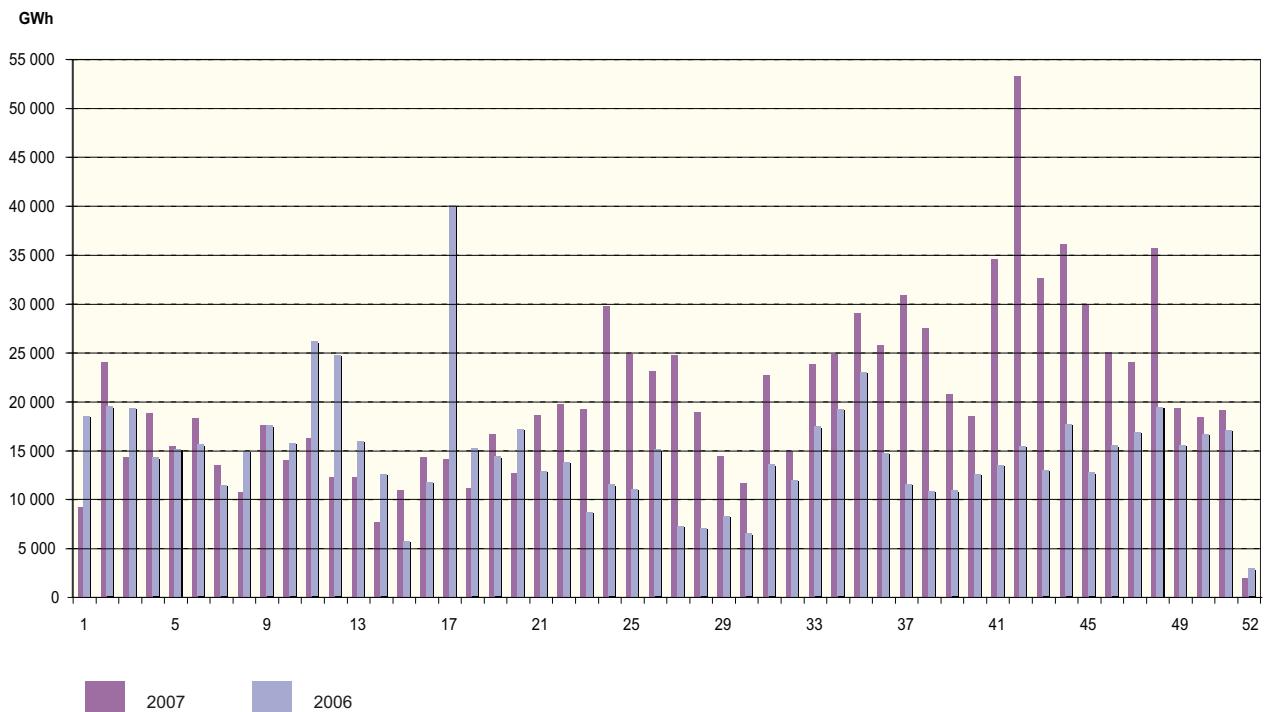
Nord Pool Spot's Elspot market - turnover and weekly system prices 2006 and 2007



Nord Pool Spot's Elbas market - turnover and weekly prices 2007



Nord Pool ASA's Financial market - turnover 2006 and 2007



Nord Pool ASA's Carbon market - volume and weekly average prices 2007

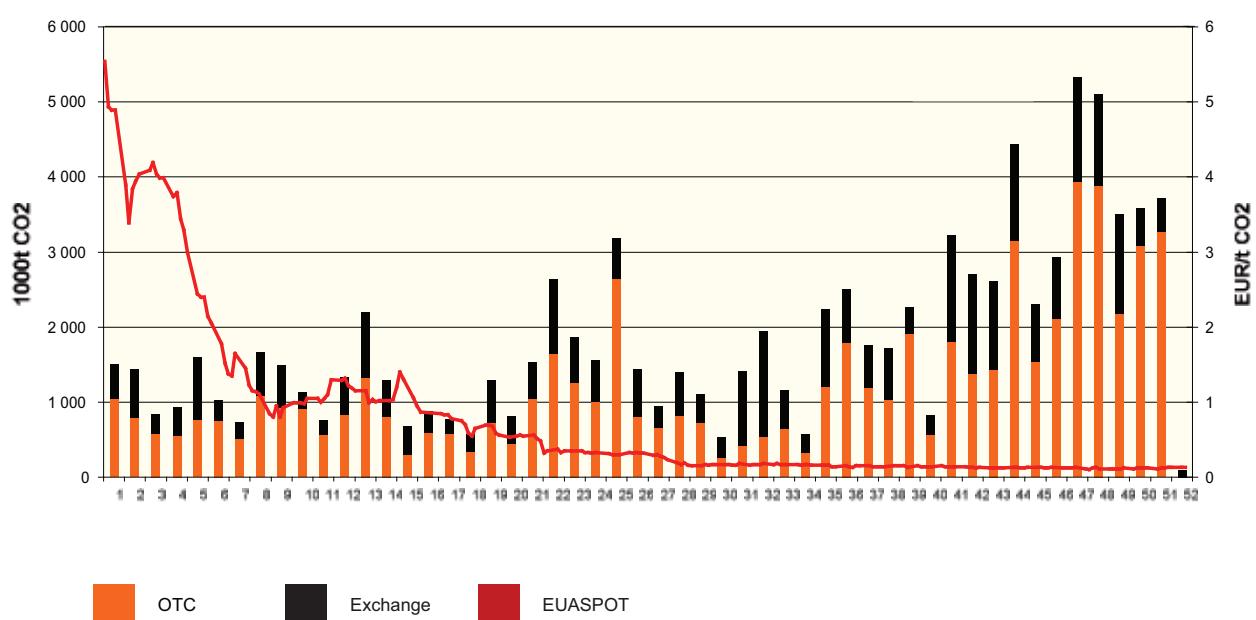




Photo: Emil Thor, Trond Isaksen, Erik Thallaug

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