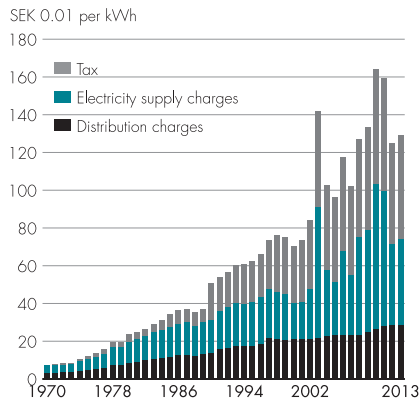


Breakdown of total electricity price for a single-family home with electrical heating and a variable rate contract, current prices, in january of each year



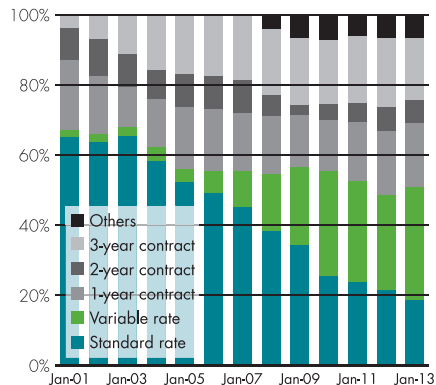
Sources: Swedish Energy Agency, Statistics Sweden



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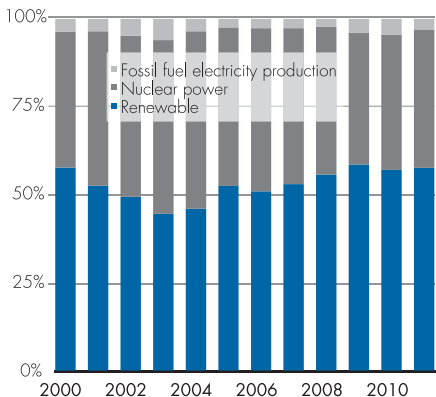
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Customer mobility, january 2001–2013



Source: Statistics Sweden

Electricity production in Sweden



Source: Swedenergy

Gross electricity usage. Source: IEA

Country	Electricity usage per capita, kWh		Total usage, TWh 2012
	2011	2012	
Iceland.....	51 200	52 100 ↗	17,2
Norway.....	25 100	25 800 ↗	129,8
Canada.....	17 100	17 400 ↗	582,3
Luxembourg.....	17 300	16 500 ↘	7,8
Finland.....	15 900	15 700 ↘	85,1
Sweden.....	14 700	14 900 ↗	142,4
USA.....	13 300	13 100 ↘	4 111,8
Australia.....	10 600	10 800 ↗	220,3
New Zealand.....	10 000	10 400 ↗	42,8
South Korea.....	10 100	10 300 ↗	505,7
Austria.....	8 500	9 000 ↗	73,5
Switzerland.....	8 200	8 700 ↗	65,5
Belgium.....	8 000	8 300 ↗	86,0
Japan.....	7 900	7 800 ↘	989,7
France.....	7 600	7 700 ↗	490,2
Germany.....	7 000	7 000	577,5
Netherlands.....	7 100	6 900 ↘	114,8
Ireland.....	6 000	6 500 ↗	26,7
Czech Republic.....	6 000	6 200 ↗	63,3
Denmark.....	6 200	6 100 ↘	34,3
Spain.....	5 700	6 000 ↗	277,4
UK.....	5 700	5 800 ↗	354,1
Italy.....	5 500	5 500	331,6
Greece.....	4 600	4 600	51,9
Poland.....	3 800	3 700 ↘	143,9
China*.....	2 700	2 700	3 684,5

* To the year 2009.

Total electricity usage for countries in the above table corresponds to 64.2 percent of the world total in 2009

Units of measurements

1 kilowatt (kW).....	= 1,000 watt (W)
1 megawatt (MW).....	= 1,000 kW
1 gigawatt (GW).....	= 1,000,000 kW
1 megawatt hour (MWh).....	= 1,000 kilowatt hours (kWh)
1 gigawatt hour (GWh).....	= 1,000,000 kWh
1 terawatt hour (TWh).....	= 1,000,000,000 kWh



QUICK FACTS ABOUT SWEDEN AND ENERGY

2013 edition



Sweden's surface according to Statistics Sweden		449,964 km ²
cultivated land and grassland.....	10%	
forests.....	50%	
mountains.....	25%	
lakes.....	10%	
cities.....	5%	
Maximum length.....	1,574 km	
Maximum width.....	499 km	

Population 31 Dec. 2012 according to Statistics Sweden		9,552,000
Per square km of land surface	21	
Gainfully employed population	4,635,000	

National income, SEK M, according to Statistics Sweden		2011	2012
Gross domestic product.....	3,499,914	3,555,339	
Gross investment.....	685,996	660,916	
Household consumption.....	1,672,886	1,718,898	
Public consumption.....	923,728	956,605	

Foreign trade, SEK M, according to Statistics Sweden		2011	2012
Export of goods and services.....	1,748,823	1,733,210	
Import of goods and services.....	1,531,519	1,514,290	

Energy usage by sector according to Statistics Sweden (TWh)				
	2010	2011	2012*	
Industrial	148	141	139	35%
Public transport	104	104	102	26%
Residential, service, etc.	162	146	151	39%
Total	414	391	392	100%

*Preliminary data from Swedenergy

Breakdown of electricity usage by sector (TWh) according to Statistics Sweden				
	2010	2011	2012*	
Industrial	53.4	53.9	52.5	37%
Service	36.6	35.5	34.6	24%
Residential	45.2	41.2	44.3	31%
Transmission losses	11.8	9.7	11.0	8%
Total	147.0	140.3	142.4	100%

*Preliminary data from Swedenergy

Electrical balance (net TWh)				
Sources: Statistics Sweden and Swedenergy				
	2010	2011	2012*	
Domestic production	144.9	147.5	162.0	100%
Renewable	82.7	85.0	96.9	57.6%
Hydropower	66.8	66.7	78.0	
Wind power	3.5	6.1	7.2	
Thermal power	12.4	12.2	11.7	8.3%
CHP, district heating	6.5	6.3	5.5	
CHP, industry	5.6	5.5	5.9	
Condensing power	0.3	0.4	0.3	
Nuclear power	55.6	58.0	61.4	39.3%
Other thermal power (fossil and other fuels)	6.6	4.5	3.7	3.1%
CHP, district heating	5.6	3.8	3.0	
CHP, industry	0.5	0.4	0.4	
Condensing power	0.5	0.3	0.3	
Gas turbine, diesel, etc.	0.03	0.01	0.01	
Domestic usage	147.0	140.3	142.4	
Transmission losses	10.7	9.7	11.0	
Electricity from neighbouring countries	17.6	14.8	13.1	
Electricity to neighbouring countries (-)	-15.6	-22.0	-32.7	
Net exchange with neighbouring countries **	2.1	-7.2	-19.6	

*Preliminary data from Swedenergy. ** Negative values represent exports.

Peak load 13 dec (16-17), MW		26 200
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Installed capacity at 31 Dec. 2012 (MW electricity)	
Hydropower.....	16,203
Wind power.....	3,745
Nuclear power.....	9,363
Solar power.....	24
Other thermal power.....	8,018
Total	37,353

Maximum transmission capacity of international connections (MW)	
from neighbouring countries.....	9,725
to neighbouring countries.....	9,685

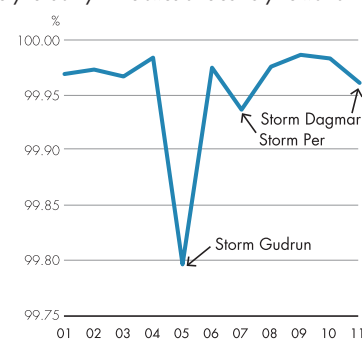
Ownership of electricity generation, share of installed capacity	
State (Vattenfall AB, Svenska Kraftnät).....	39%
Non-Swedish owners.....	39%
Municipalities.....	12%
Others.....	10%

Electricity networks in Sweden

The local networks are normally divided into low voltage (400/230V) and high voltage networks (typically 10–20 kV). The total line length of Sweden's low voltage networks is over 306,000 km, of which 70,000 km consist of overhead lines and 236,000 km of underground cable.

The local high voltage networks, also frequently referred to as medium voltage networks, are made up of 90,000 km of overhead lines and 103,000 km of underground cable. Some 5.3 million electricity users are connected to the low voltage networks and 6,500 to the high voltage networks. The regional grids are mainly owned by three DSOs and have a combined line length of around 30,000 km. The Swedish national grid is owned and operated by the public utility Svenska Kraftnät, and is made up primarily of 400 kV and 220 kV lines with a total length of around 15,000 km. In total, the Swedish electricity grid contains 543,000 km of power lines, including 339,000 km of underground cable. If the Swedish grid were stretched out in one long line, it would extend more than thirteen times around the earth. Delivery reliability in the Swedish electricity networks is on average 99.98 percent.

Delivery reliability in the Swedish electricity networks



Source: Swedenergy

Largest hydropower stations, net capacity (MW)	
Harsprånget (Lule älv).....	830
Stornorrfors (Ume älv).....	591
Messaure (Lule älv).....	452
Porjus (Lule älv).....	440
Letsi (Lule älv).....	440
Ligga (Lule älv).....	343
Vrietas (Lule älv).....	325
Ritsen (Lule älv).....	320
Trängslet (Dalälven).....	300
Parsi (Lule älv).....	275
Kilforsen (Ångermanälven).....	275

Nuclear power plants, net capacity (MW)	
Ringsås.....	3,702
Forsmark.....	3,150
Oskarshamn.....	2,511
Barsebäck.....	0

Largest other thermal power plants, net capacity (MW)	
Karlskrona (condensing, oil).....	990
Västerås (CHP, condensing, biomass/coal/oil).....	566
Öresundsverket (CHP, natural gas + gas turbine).....	566
Stenungsund (condensing, oil).....	500
Vårton, Stockholm (CHP, coal/oil incl. gas turbines).....	389
Ryaverket, Göteborg (CHP, natural gas).....	260
Halmstad (gas turbines).....	250
Lahall (gas turbines).....	240

Hydropower production			
River	Normal year GWh	Water flows* m ³ /s	Regulation level
Lule älv.....	13,800	505	67%
Skellefte älv.....	4,300	158	60%
Ume älv.....	7,500	440	26%
Ume älv, excl. Vindälven		237	48%
Gide älv.....	300	35	16%
Ångermanälven.....	11,400	490	39%
Indalsälven.....	9,600	444	39%
Ljungan.....	2,300	138	27%
Ljusnan.....	3,700	233	21%
Dalälven.....	4,300	342	23%
Lagan.....	500	70	20%
Klarälven.....	1,600	165	20%
Göta älv.....	1,500	536	35%

* Mean flow at mouth of river.

Largest storage reservoirs, capacity (million m ³)	
Vänern (Göta älv).....	9,400
Suorva (Lule älv).....	6,000
Tjaktjäure (Lule älv).....	1,675
Storsjön (Indalsälven).....	1,250
Satsjäure (Lule älv).....	1,240
Torrån (Indalsälven).....	1,180
Storuman (Ume älv).....	1,100
Trängslet (Dalälven).....	880
Gardiken (Ume älv).....	875
Storavan-Uddjaur (Skellefte älv).....	780
Hornavan (Skellefte älv).....	750
Rebnisjäure (Skellefte älv).....	740