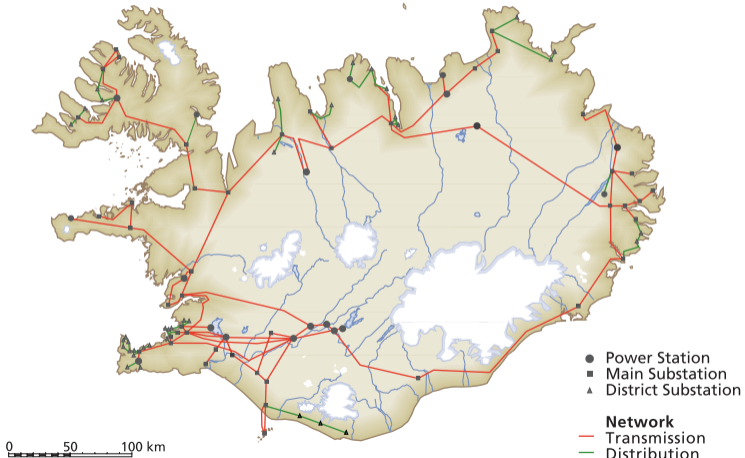




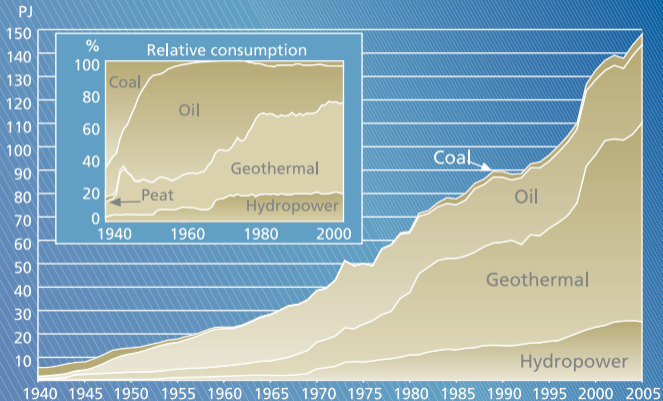
ENERGY STATISTICS IN ICELAND

2006

Electricity network



Primary energy consumption in Iceland 1940–2005



Generation of electricity in Iceland 2005 and 2004

Total installed capacity of power plants

	2005		2004	
	MW	(%) of total	MW	(%) of total
Hydropower	1.160	77,0	1.155	78,5
Geothermal	232	15,4	202	13,7
Fuel	115	7,6	115	7,8
Total	1.507	100	1.473	100

Electricity generation

	2005		2004	
	GWh	(%) of total	GWh	(%) of total
Hydropower	7,015	80.8	7,131	82,7
Geothermal	1,658	19.1	1,483	17,2
Fuel	8	0.1	5	0,1
Total	8,681	100	8,619	100

There will be a substantial increase in electricity production in the next few years:

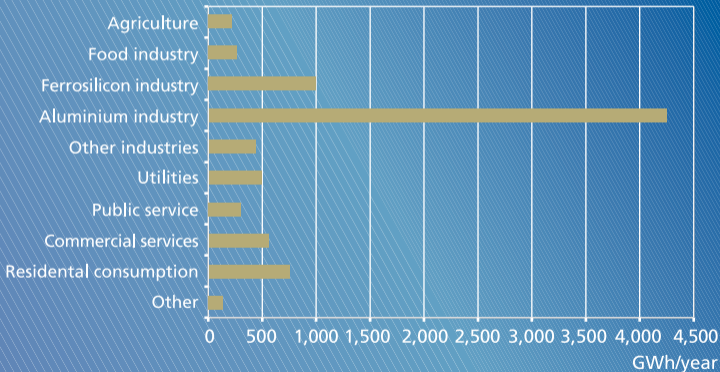
Geothermal:

Reykjanes 100 MW (800 GWh), mid year 2006
Hellisheidi 90 MW (720 GWh), fall 2006
Hellisheidi II 33 MW (264 GWh), fall 2007
Hellisheidi III 90 MW (720 GWh), in 2008

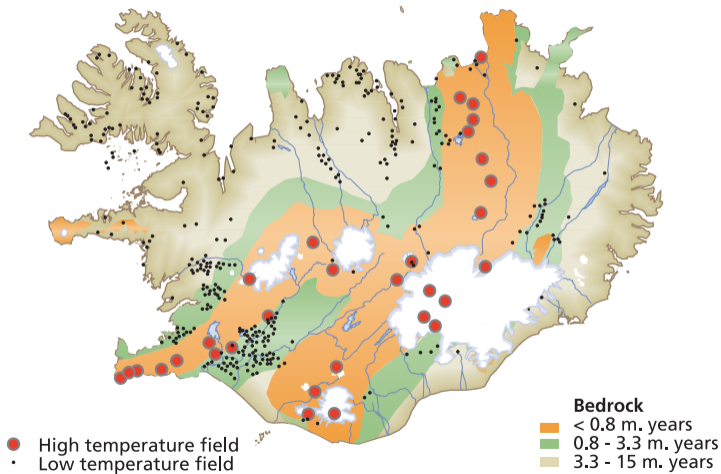
Hydropower:

Karahnjukar 6x115 = 690 MW
(4,600 GWh), spring 2007
Lagarfoss II 20 MW (130 GWh),
spring 2007

Electricity consumption 2005



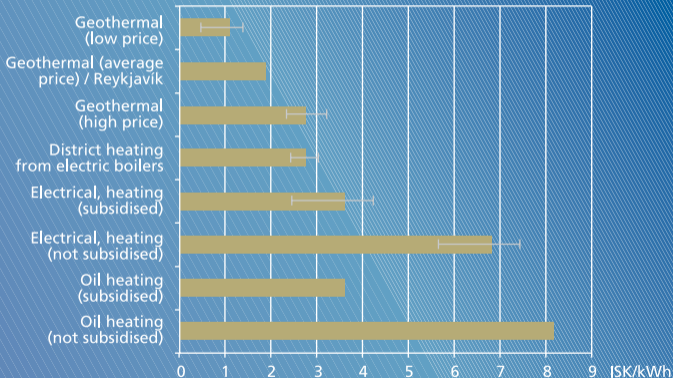
Geothermal fields



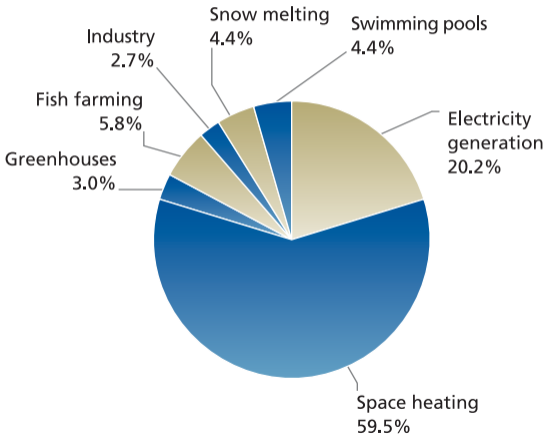
The main district heating companies in Iceland

	Number of wells 2005	Population 2005	Distribution 1000 m ³ 2005
Orkuveita Reykjavíkur <i>geothermal</i>	92	190,103 190,103	69,874 69,874
Hitaveita Sudurnesja hf. <i>geothermal</i> <i>electricity / oil</i>	10	21,499 17,899 3,600	11,387 9,975 1,412
Nordurorka hf. <i>geothermal</i>	16	19,074 19,074	5,755 5,755
Orkubu Vestfjarda hf. <i>geothermal</i> <i>electricity / oil</i>	5	4,702 433 4,269	2,368 422 1,946
Rafmagnsveitur ríkisins <i>geothermal</i> <i>electricity / oil</i>	5	5,029 2,628 2,401	1,881 1,075 806
All heating services	320	272,465	111,319

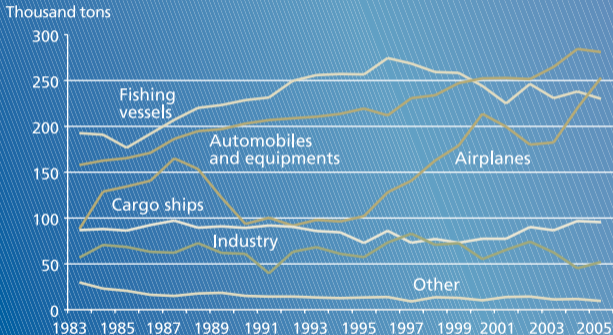
Comparison of energy prices for residential heating August 2006



Utilization of geothermal energy 2005



Consumption of petroleum products in Iceland 1983–2005



Units of Power and Energy

The International System of Units (SI) is the mandatory system of measurement in Iceland. The basic and customary units for power and energy are:

	Energy	Power
Basic unit	Joule (J)	Watt (W)
Customary unit	Watt hour (Wh)	-

The prefixes for multiples of units in the SI system

Prefix	Abbreviations	Multiple of base unit
Exa	E	10^{18}
Peta	P	10^{15}
Tera	T	10^{12}
Giga	G	10^9
Mega	M	10^6
Kilo	k	10^3

Sometimes other units which are not part of the SI system are used, e.g. horsepower, hp or ton of oil equivalent toe. The same prefixes are used, e.g. ktoe and Gtoe.

$$1 \text{ hp} = 746 \text{ W}$$

$$1 \text{ toe} = 41.9 \text{ GJ}$$

$$1 \text{ Wh} = 3.6 \text{ kJ}$$



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National Energy Authority

Energy Statistics in Iceland

Published in September 2006

Compiled by: Olafur Palsson and Thorgils Jonasson

Editor: Lara K. Sturludóttir

Photo: Oddur Sigurdsson

Design and Layout: Vilborg Anna Bjornsdottir

Printing: Prentmet

Orkustofnun
Orkugardur
Grensasvegur 9
108 Reykjavik
www.os.is