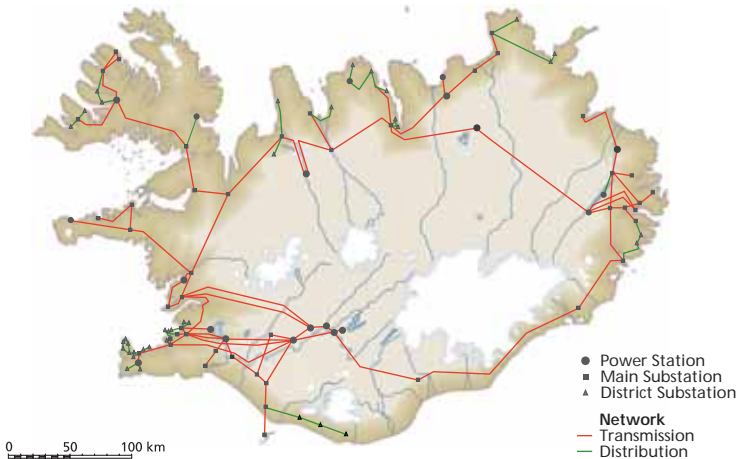


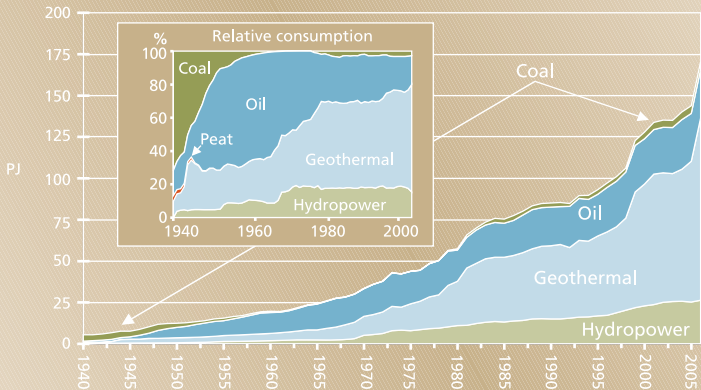
ENERGY STATISTICS IN ICELAND

2007

Electricity network



Primary energy consumption in Iceland 1940–2006



Generation of electricity in Iceland 2006 and 2005

Total installed capacity of power plants

	2006		2005	
	MW	(%) of total	MW	(%) of total
Hydropower	1,162	68.5	1,159	77.0
Geothermal	422	24.9	232	15.4
Fuel	113	6.6	115	7.6
Total	1,697	100	1,506	100

Electricity generation

	2006		2005	
	GWh	(%) of total	GWh	(%) of total
Hydropower	7,289	73.4	7,014	80.8
Geothermal	2,631	26.5	1,658	19.1
Fuel	5	0.1	8	0.1
Total	9,925	100	8,680	100

In the next few years, there will be an increase in electricity production:

Geothermal:

Hellisheidi II 34 MW (264 GWh), fall 2007

Hellisheidi III 90 MW (720 GWh), 2008

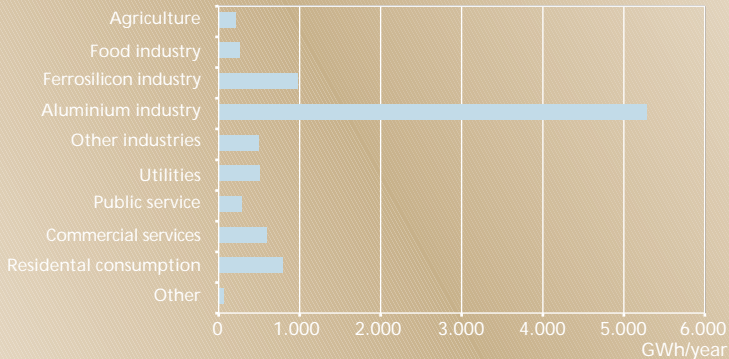
Hydropower:

Kárahnjúkar 6x115 = 690 MW

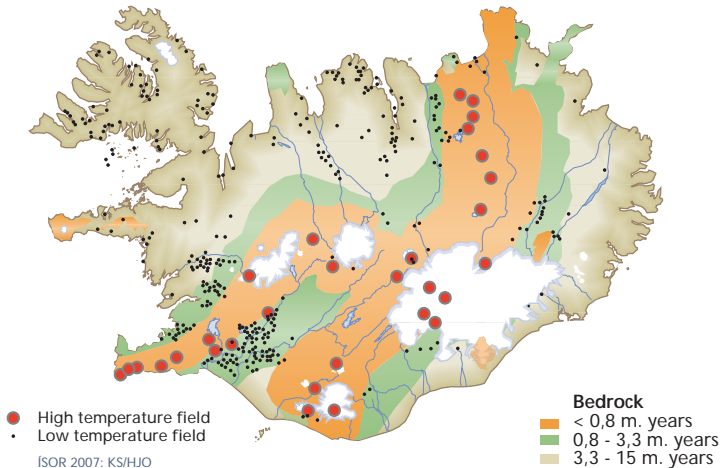
(4.600 GWh), fall 2007

Lagarfoss II 19 MW (130 GWh), spring 2007

Electricity consumption 2006



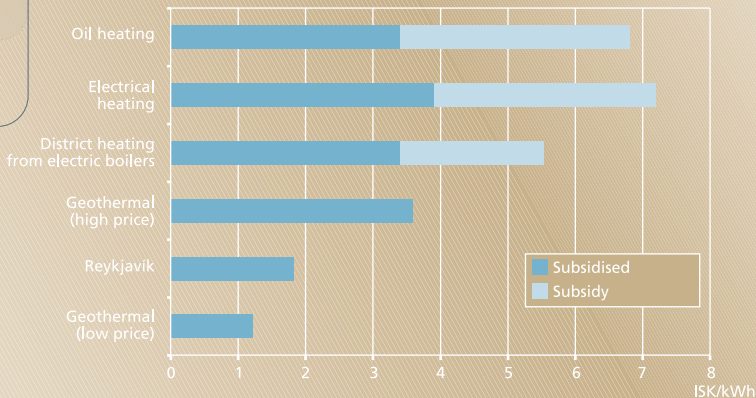
Geothermal fields



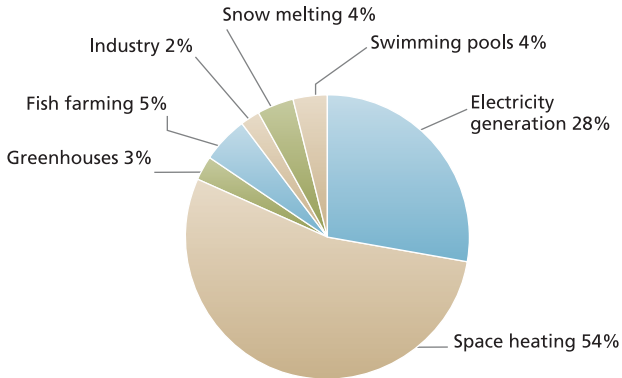
The main district heating companies in Iceland

	Number of wells 2006	Population 2006	Distribution 1000 m ³ 2006
Orkuveita Reykjavíkur <i>geothermal</i>	92	193,813 193,813	79,582 79,582
Hitaveita Sudurnesja hf. <i>geothermal</i> <i>electricity / oil</i>	12	21,687 18,116 3,571	13,984 12,830 1,153
Nordurorka hf. <i>geothermal</i>	17	18,885	7,439
Skagafjardarveitur <i>geothermal</i>	10	3,305	5,257
Selfossveitur <i>geothermal</i>	7	7,186	3,566
All heating services	325	278,149	132,121

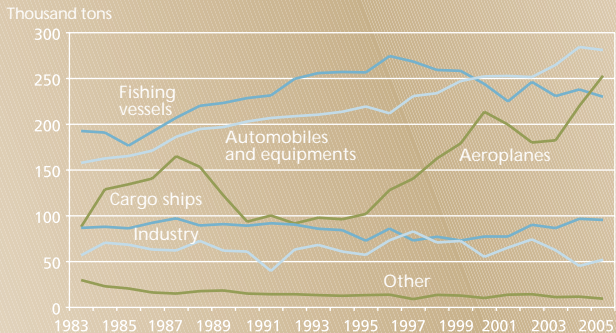
Comparison of energy prices for residential heating mid year 2007



Utilisation of geothermal energy 2006



Oil consumption 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 hp = 746 W

1 toe = 41.9 GJ

1 Wh = 3.6 kJ



ORKUSTOFNUN

National Energy Authority

Energy Statistics in Iceland:

Published in September 2007

Compiled by: Haukur Eggertsson,
Ívar Thorsteinsson and Thorgils Jónasson

Editor: Lára K. Sturludóttir

Photo: Oddur Sigurdsson

Design and layout: Vilborg Anna Björnsdóttir

Printing: Íslandsprent

Orkustofnun
Orkugardur
Grensásvegur 9
108 Reykjavík
Iceland
www.os.is