

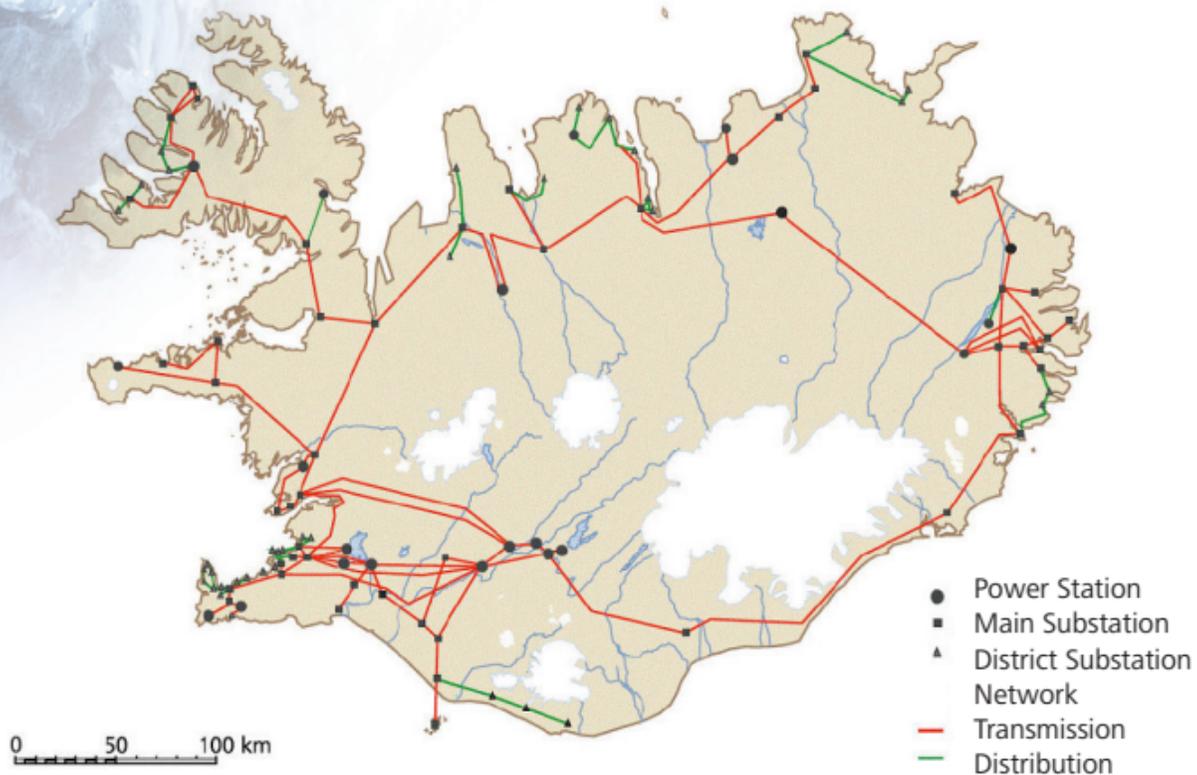


ENERGY STATISTICS IN  
ICELAND **2015**

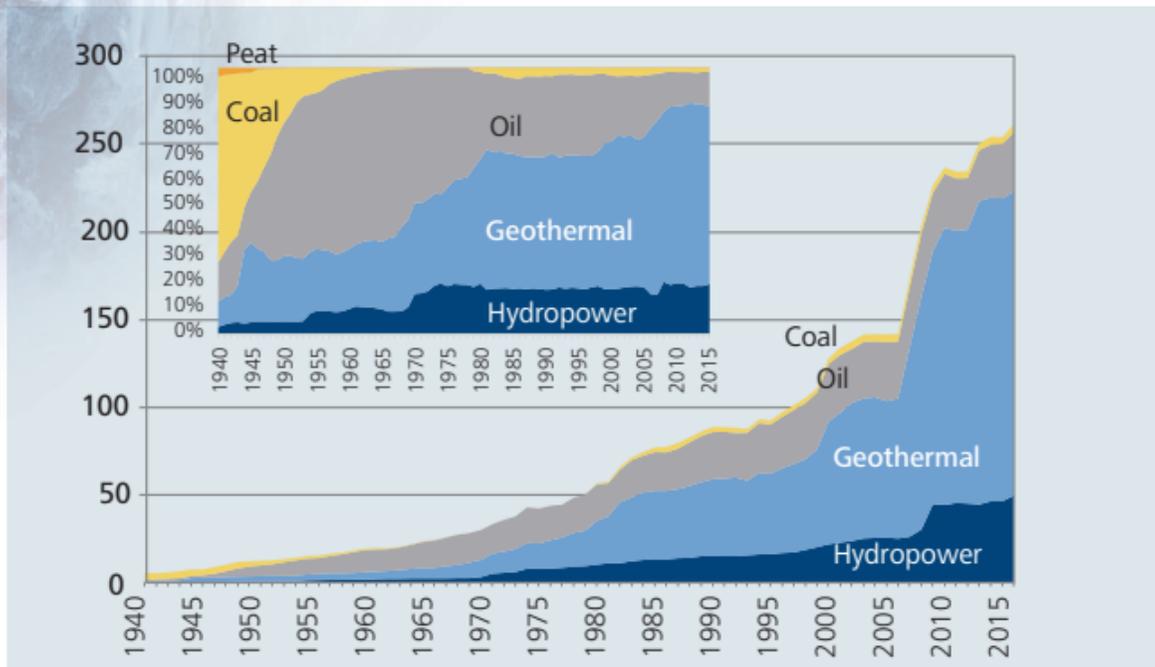


ORKUSTOFNUN

# Electricity network



## Primary energy use in Iceland 1940–2015



Source: Orkustofnun Data Repository OS-2016-T002-01

# Generation of electricity in Iceland 2015 og 2014

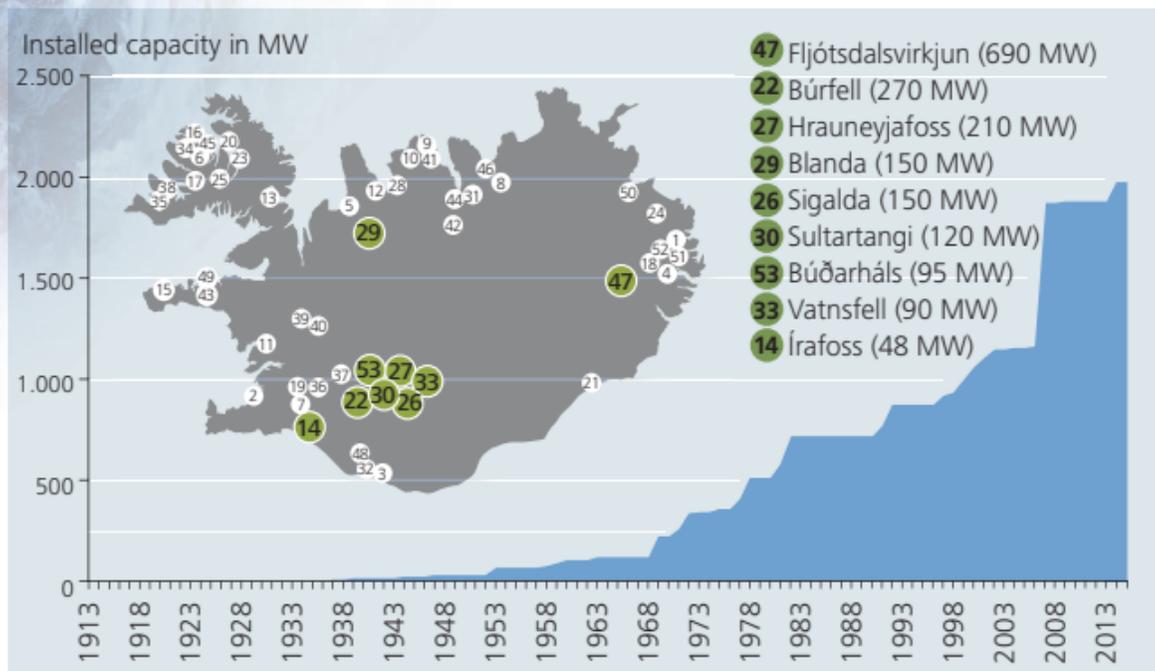
## Installed capacity in power plants

	2015		2014	
	MW	%	MW	%
Hydro	1.986	71,7	1.986	72,0
Geothermal	665	24,0	665	24,1
Fuel	117	4,2	106	3,8
Wind	3	0,1	3	0,1
<b>Total</b>	<b>2.771</b>	<b>100</b>	<b>2.760</b>	<b>100</b>

## Electricity production

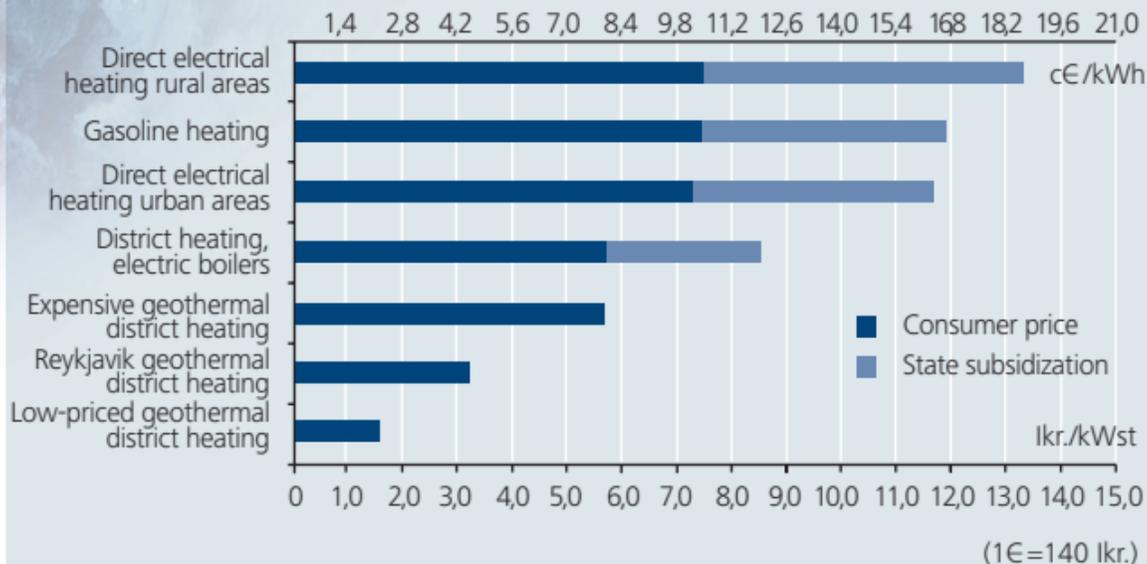
	2015		2014	
	GWh	%	GWh	%
Hydro	13.780	73,3	12.873	71,0
Geothermal	5.003	26,6	5.239	28,9
Fuel	4	0,0	2	0,0
Wind	11	0,1	8	0,0
<b>Total</b>	<b>18.798</b>	<b>100</b>	<b>18.122</b>	<b>100</b>

# Installed capacity in hydro power plants 1913–2015

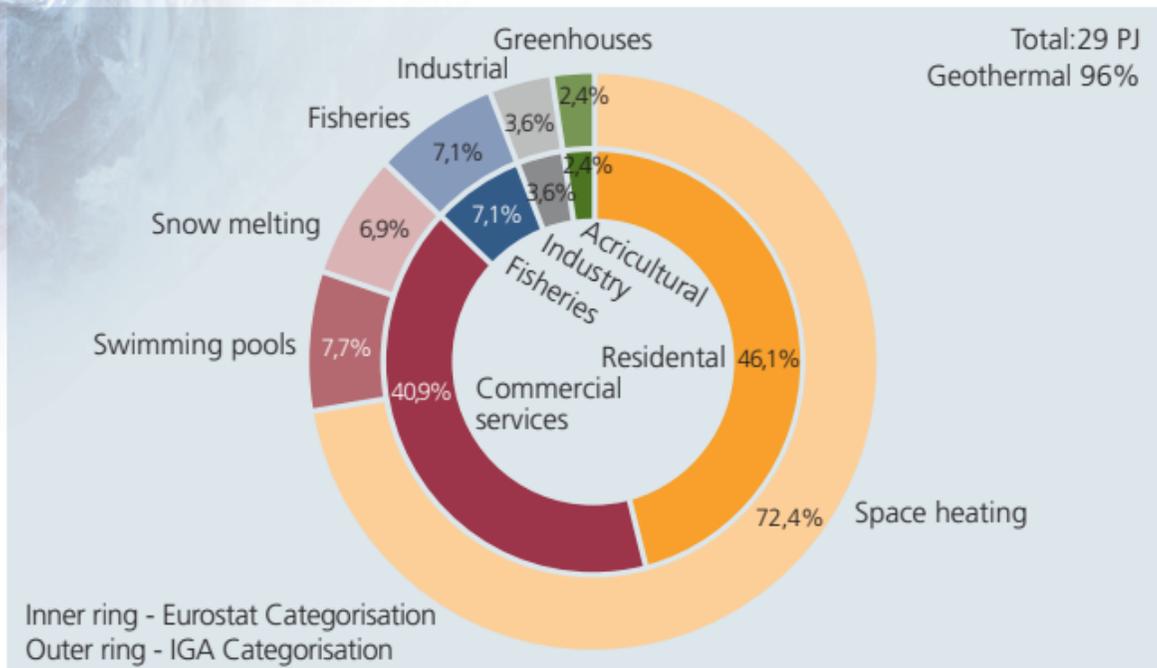


The numbered dots in the picture show the main hydro power plants in Iceland.  
The largest are specified (green dots).

## Comparison of energy prices for residential heating mid year 2015

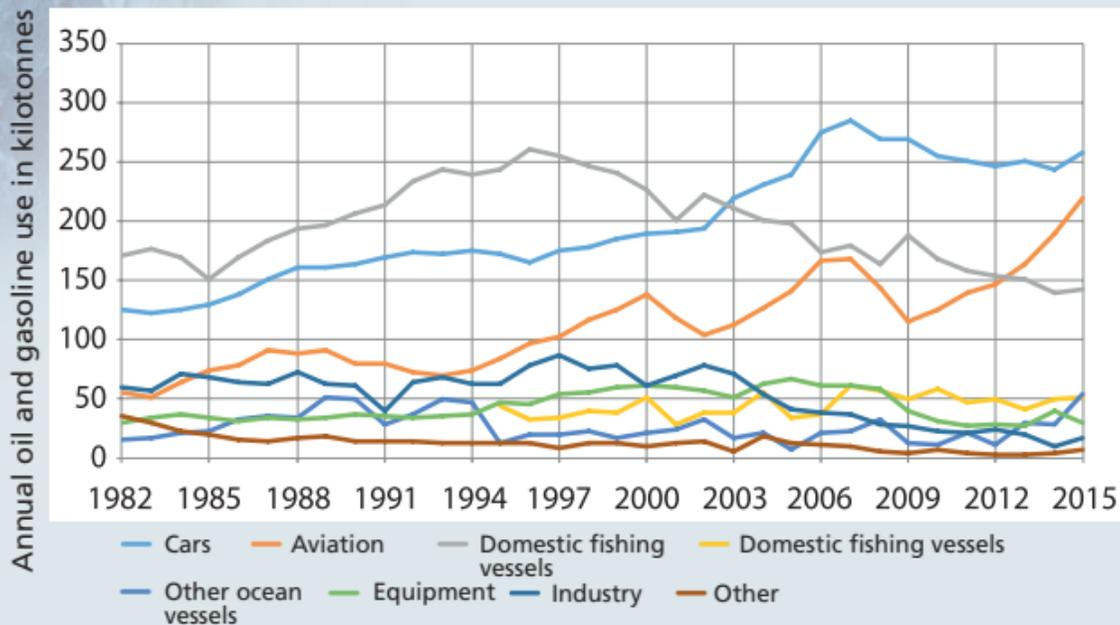


# Final heat use 2015



Source: Orkustofnun Data Repository OS-2016-T004-01

## Oil consumption in Iceland 1982–2015



## Units of power and energy

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

Basic unit	Joule(J)	Watt(W)
Customary unit	Watt hour(MWh)	-

W: kennt við Skotann James Watt (1736-1819)

J: kennt við Englendinginn Janes Prescott Joule (1818-1889)

The prefixes for multiples of units in the SI system are:

Exa	E	$10^{18}$
Peta	P	$10^{15}$
Tera	T	$10^{12}$
Gíga	G	$10^9$
Mega	M	$10^6$
Kíló	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.

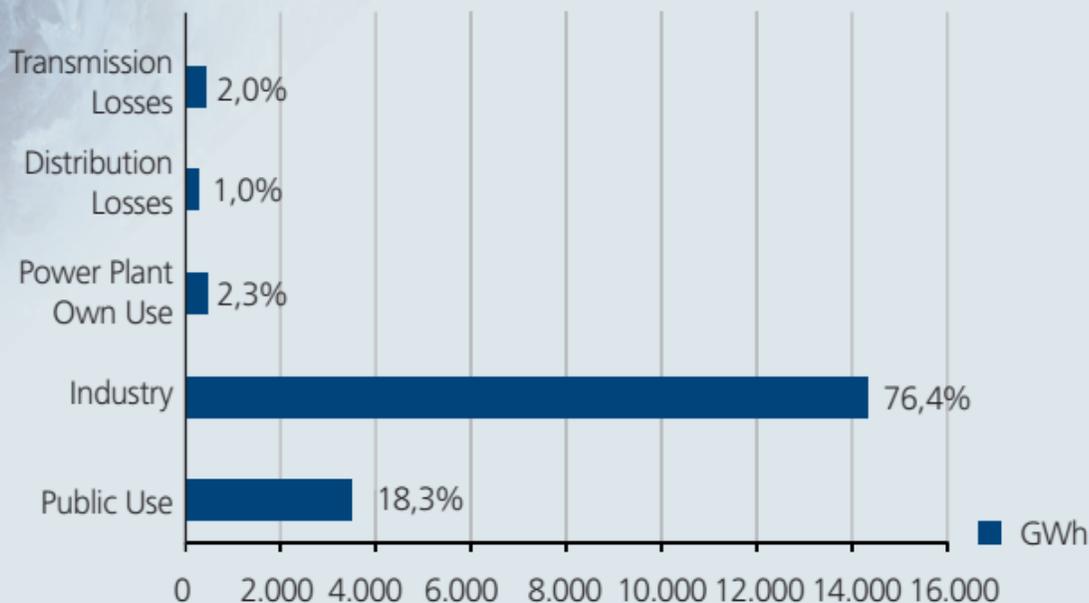
1 hestafli = 0,75 kW

1 tói = 41,9 GJ

1 Wh = 3,6 kJ

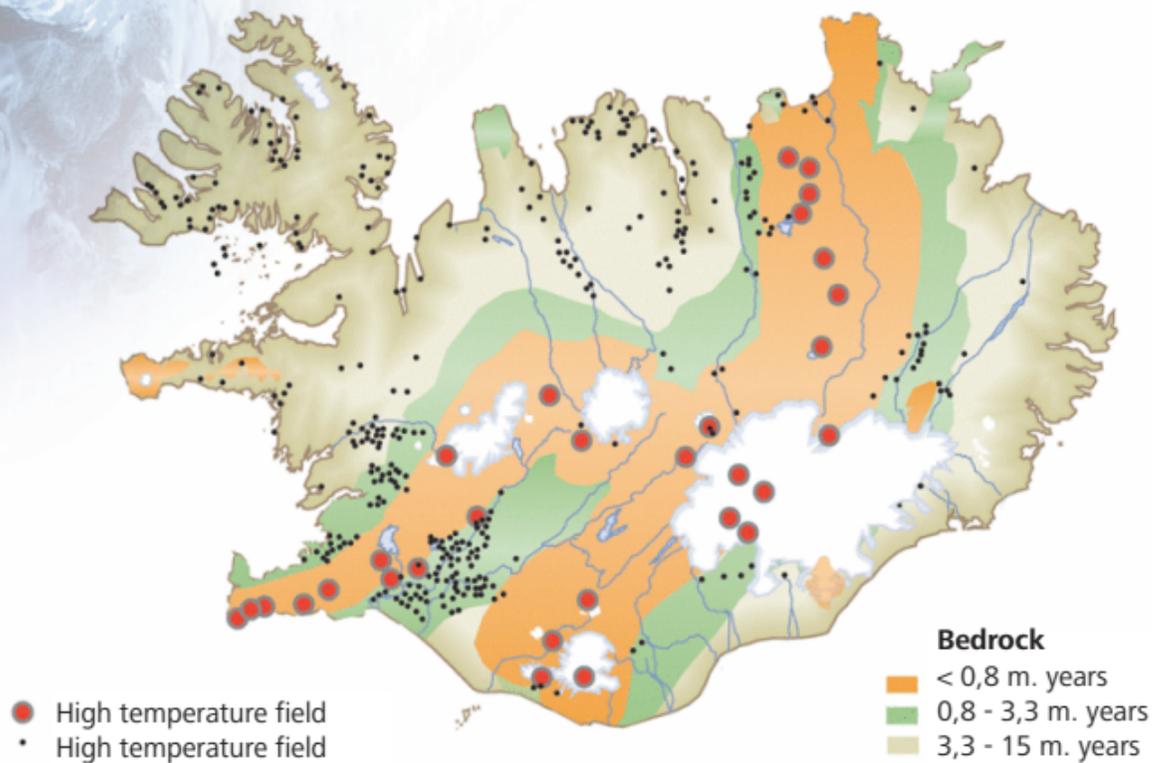
1PJ = 0,278 TWh

## Electricity consumption 2015

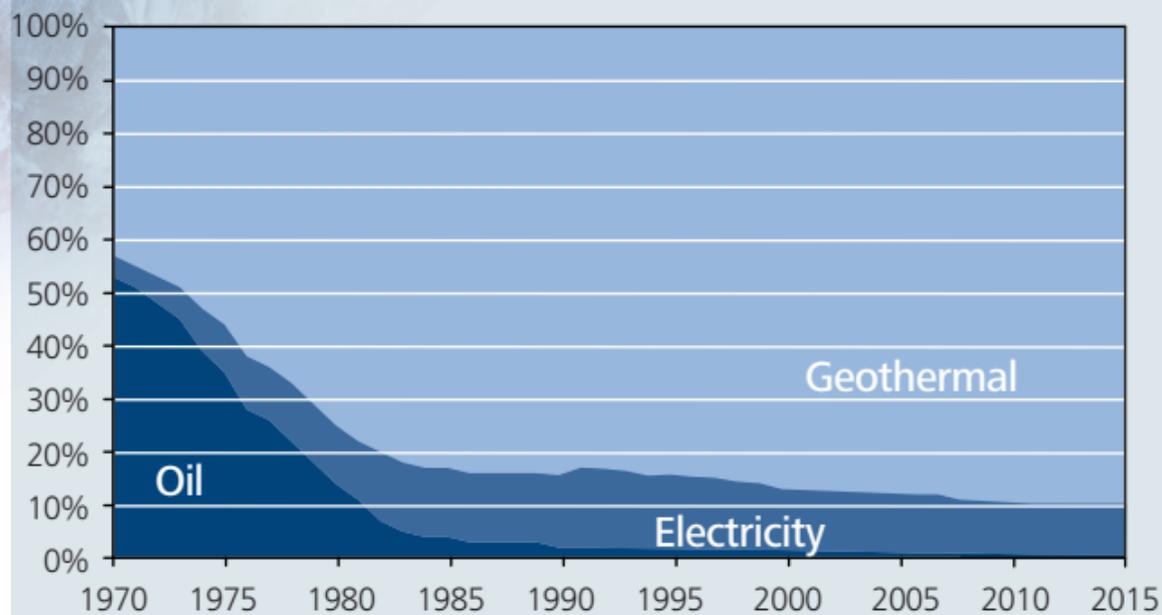


Source: Orkustofnun

## Geothermal fields

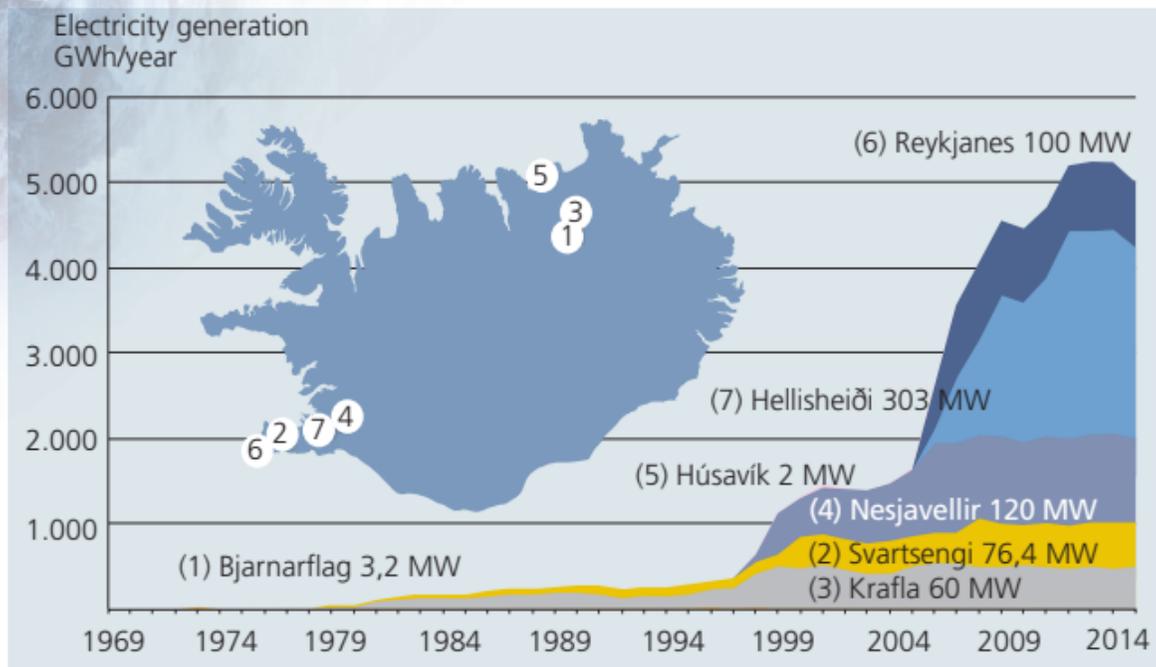


## Space heating 1970–2015



Source: Orkustofnun

# Generation of electricity – geothermal energy 1969–2015



Source: Orkustofnun Data Repository OS-2016-T003-01



# ORKUSTOFNUN

## **Energy Statistics in Iceland 2015**

Published in April 2016

**Compiled by:** Agústa Loftsdóttir,  
Benedikt Guðmundsson, Jónas Kettilsson,  
Linda Georgsdóttir, Rán Jónsdóttir,  
Sigurður Elias Hjaltason, María Guðmundsdóttir,  
Jón Ásgeir Haukdal og Jón Ragnar Guðmundsson

Talnaefni Orkustofnunar er aðgengilegt á heimasíðunni  
og gegnir.is - <http://www.os.is/orkustofnun/gagnasofn/talnaefni/>

**Editing:** Baldur Pétursson

**Design and layout:** Skaparinn Auglýsingastofa

**Printing:** Litróf

## **Orkustofnun**

Orkugarður

Grensasvegur 9

108 Reykjavík

[www.os.is](http://www.os.is)