

Efni/Subject:	Talnaefni Orkustofnunar / Orkustofnun Data Repository
Titill/Title:	Uppsett rafafi og raforkuframleiðsla í virkjunum á Íslandi 2016 / Installed electrical capacity and electricity production in Icelandic power stations 2016
Lykilorð/Keyword:	Uppsett rafafi, jarðhiti, vindur, vatnsafi, eldsneyti, raforkuframleiðsla, upprunaþyrðing / Installed capacity, geothermal, wind, hydro, fuel, electricity production, guarantee of origin certificates
Auðkenni/Identifier:	OS-2017-T013-01
Útgáfudagur/Date:	20.7.2017
Síðast uppfært/Last edition:	
Höfundur/Creator:	Orkustofnun
Tímabil/Period:	01.01.2016-31.12.2016
Tilvísun:	Orkustofnun (2017). OS-2017-T013-01: Uppsett rafafi og raforkuframleiðsla í virkjunum á Íslandi 2016
Citation:	Orkustofnun (2017). OS-2017-T013-01: Installed capacity and electricity production in Icelandic power stations in 2016

Tafla 1 : Uppsett rafafi og raforkuframleiðsla á Íslandi árið 2016 skipt eftir uppruna

Table 1: Installed electrical capacity in power plants and electricity production in Iceland 2016 by energy source

Uppruni	Uppsett rafafi [kW]	Hlutfallsleg skipting	Raforkuframleiðsla [MWh]	Hlutfallsleg skipting
Source	Installed electrical capacity [kW]	Electricity production [MWh]	Electricity production [MWh]	Electricity production [MWh]
Vatnsafi / Hydro	1.987.239	72,93%	13.469.596	72,62%
Jarðhiti / Geothermal	662.600	24,32%	5.067.280	27,32%
Vindur / Wind	3.030	0,11%	9.210	0,05%
Eldsneyti / Fuel	71.871	2,64%	2.683	0,01%
Samtals / Total	2.724.740	100%	18.548.768	100%

Tafla 2: Uppruni raforku á Íslandi 2016 eftir viðskipti með upprunaþyrðing

Table 2: Source of electricity in Iceland 2016 after trade with certificates of origin

Uppruni	Hlutfall
Source	Percentage
Endurnýjanleg orka / Renewable	21%
Kjarnorka / Nuclear	20%
Eldsneyti / Fuel	59%
Samtals	100%

Tafla 3 : Uppsett rafafi og raforkuframleiðsla í vatnsafsvirkjunum árið 2016

Table 3: Installed capacity and electricity production in hydro power plants 2016

Framleiðandi	Heiti virkjunar	Gangsetning [Ár]	Uppsett rafafi [kW]	Raforkuframleiðsla [MWh]
Producer	Power Plant	Operational [Year]	Installed electrical capacity [kW]	Electricity production [MWh]
Fallorka	Djúpadalsvirkjun I/II	2004/2006	2.800	17.695
Landsvirkjun	Fljótdalsstöð	2007	690.000	5.046.841
Landsvirkjun	Búrfell	1969	270.000	2.334.560
Landsvirkjun	Hrauneyjafoss	1981	210.000	1.249.130
Landsvirkjun	Sultartangi	1999	120.000	1.015.680
Landsvirkjun	Sigalda	1977	150.000	894.578
Landsvirkjun	Blanda	1991	150.000	736.622
Landsvirkjun	Búðarháls	2013	95.000	617.527
Landsvirkjun	Vatnsfell	2001	90.000	372.458
Landsvirkjun	Írafoss	1953	47.800	276.592
Landsvirkjun	Steingrímsstöð	1959	26.400	149.783
Landsvirkjun	Ljósafoss	1937	14.600	113.514
Landsvirkjun	Laxá	1939	27.500	99.597
Norðurorka	Glerárvirkjun	2005	307	916
Orka Náttúrunnar	Andakill	1947	8.200	31.034
Orka Náttúrunnar	Elliðaár	1921	3.160	-
Orkusalan	Lagarfoss I/II	1975/2007	27.200	205.147
Orkusalan	Grimsa	1958	2.800	21.863
Orkusalan	Skeiðfoss	1945	4.800	18.868
Orkusalan	Rjúkandi	1954	1.680	13.434
Orkusalan	Smyrlabjargá	1969	1.000	9.470
Orkubú Vestfjarða	Mjólíká	1958	10.600	67.703
Orkubú Vestfjarða	Þverárvirkjun	1953	2.430	6.220
Orkubú Vestfjarða	Fossárvirkjun	2015	1.200	5.823
Orkubú Vestfjarða	Tungudalsvirkjun	2006	700	5.155
Orkubú Vestfjarða	Reiðhjallavirkjun	1958	514	1.871
Orkubú Vestfjarða	Blævardalsárvirkjun	1975	288	1.456
Orkubú Vestfjarða	Fossa- og Nónhornsvatn	1937	1.160	1.270
Orkubú Vestfjarða	Mýrarárvirkjun	1965	60	310
RARIK	Gönguskarðsá	2015	1.800	7.202
Rafveita Reyðarfjarðar	Búðará	1930	240	2.015
Smávirikjun / Small scale	Bjólfsvirkjun	2008	6.400	43.823
Smávirikjun / Small scale	Gúlsvirkjun	2009	3.400	19.737
Smávirikjun / Small scale	Köldukvislarvirkjun	2013	2.790	13.176
Smávirikjun / Small scale	Múlavirkjun	2005	3.100	12.861
Smávirikjun / Small scale	Hvestuvirkjun	2004	1.430	7.417
Smávirikjun / Small scale	Ljósá	2007	980	5.943
Smávirikjun / Small scale	Mosvallavirkjun	2016	890	5.285
Smávirikjun / Small scale	Árteigsvirkjun	2009	715	5.071
Smávirikjun / Small scale	Sandárvirkjun	2003	701	4.697
Smávirikjun / Small scale	Kiðárvirkjun I/II	2004	550	4.518
Smávirikjun / Small scale	Lindá	2007	638	4.136
Smávirikjun / Small scale	Árteigsvirkjun	2005	500	4.032
Smávirikjun / Small scale	Breiðadalsvirkjun	2012	456	4.008
Smávirikjun / Small scale	Botnsá	2001	480	3.866
Smávirikjun / Small scale	Kerahnjúkvirkjun	2004	370	2.533
Smávirikjun / Small scale	Sængurfossárvirkjun	1976	720	1.107
Smávirikjun / Small scale	Skógargerði	2012	145	1.104
Smávirikjun / Small scale	Tunguvirkjun	2001	144	704
Smávirikjun / Small scale	Selárvirkjun	2007	170	481
Smávirikjun / Small scale	Sleitustaðavirkjun	1986	218	465
Smávirikjun / Small scale	Systragilsvirkjun	2005	108	283
Smávirikjun / Small scale	Bugavirkjun	2014	40	11
Smávirikjun / Small scale	Rollulækjavirkjun	2001	55	6
Samtals / Total			1.987.239	13.469.596

Tafla 4: Uppsett rafafli og raforkuframleiðsla í jarðvarmavirkjunum árið 2016

Table 4: Installed electrical capacity and electricity production in geothermal power plants 2016

Framleiðandi Producer	Heiti virkjunar Power Plant	Gangsetning [Ár] Operational [Year]	Uppsett rafafli [kW] Installed electrical capacity [kW]	Raforkuframleiðsla [MWh] Electricity production [MWh]
HS Orka	Reykjanes I/II	2006	100.000	629.360
HS Orka	Svartsengi	1977	76.400	559.889
Landsvirkjun	Krafla	1978	60.000	490.951
Landsvirkjun	Þjarnafلاغ	1969	3.200	6.822
Orka Náttúrunnar	Hellisheiði	2006	303.000	2.366.828
Orka Náttúrunnar	Nesjavellir	1998	120.000	1.013.430
Samtals / Total			662.600	5.067.280

Tafla 5: Uppsett rafafli og raforkuframleiðsla í vindorkuverum árið 2016

Table 5: Installed electrical capacity and electricity production in wind turbines 2016

Framleiðandi Producer	Heiti virkjunar Power Plant	Gangsetning [Ár] Operational [Year]	Uppsett rafafli [kW] Installed electrical capacity [kW]	Raforkuframleiðsla [MWh] Electricity production [MWh]
Landsvirkjun	Hafið	2013	1.800	5.297
Smávirkjun / Small scale	Hábær (Þykkvibær)	2014	1.200	3.912
Smávirkjun / Small scale	Belgsholt	2011	30	1
Samtals / Total			3.030	9.210

Tafla 6: Uppsett rafafli og raforkuframleiðsla í eldsneytisorkuverum árið 2016

Table 6: Installed electrical capacity and electricity production in fossil fuel power plants 2016

Framleiðandi Producer	Heiti virkjunar Power Plant	Gangsetning [Ár] Operational [Year]	Uppsett rafafli [kW] Installed electrical capacity [kW]	Raforkuframleiðsla [MWh] Electricity production [MWh]
HS Veitur	Vestmannaeyjar	1973	5.070	127
HS Veitur	Hafnarfjörður	1999	1.100	-
HS Veitur	Selfoss		1.024	-
Landsnet	Bolungarvík	2014	10.800	757
Norðurorka	Laugaland	1993	1.200	-
Norðurorka	Akureyri, rafveita	1999	960	-
Norðurorka	Akureyri, Slippurinn	1999	600	-
Orkubú Vestfjarða	Flatey	2006	182	192
Orkubú Vestfjarða	Patreksfjörður	1964	4.300	177
Orkubú Vestfjarða	Súðavík	1986	1.400	78
Orkubú Vestfjarða	Bíldudalur	1973	1.200	73
Orkubú Vestfjarða	Þingeyri	1980	1.520	68
Orkubú Vestfjarða	Ísafjörður, Mjósund	1976	4.300	51
Orkubú Vestfjarða	Hólmavík	1990	1.400	20
Orkubú Vestfjarða	Reykjanes		666	16
Orkubú Vestfjarða	Reykholar		750	5
Orkubú Vestfjarða	Suðureyri	1975	720	2
Orkubú Vestfjarða	Flateyri	1975	420	1
Orkubú Vestfjarða	Drangnes	1975	470	0
RARIK	Grimsey		681	853
RARIK	Neskaupstaður		6.094	105
RARIK	Ólafsvík		4.178	88
RARIK	Vík í Mýrdal		1.281	18
RARIK	Siglufjörður		-	12
RARIK	Stykkishólmur		1.160	9
RARIK	Kirkjubæjarklaustur		729	9
RARIK	Þórshöfn		2.234	9
RARIK	Bakkafjörður		781	4
RARIK	Húsavík		640	3
RARIK	Seyðisfjörður		2.765	2
RARIK	Búðardalur		551	2
RARIK	Skagaströnd		1.629	1
RARIK	Stöðvarfjörður		551	0
RARIK	Fáskrúðsfjörður		2.599	0
RARIK	Hrísey		551	0
RARIK	Raufarhöfn		1.127	0
RARIK	Grenivík		-	-
RARIK	Mjólfjörður		238	-
RARIK	Vopnafjörður		6.000	-
Samtals / Total			71.871	2.683

Tafla 7: Uppsett rafafi eftir framleiðanda 2016
Table 7: Installed electrical capacity by producer 2016

Framleiðandi Producer	Uppsett rafafi - Vatnsafl [kW] Installed electrical capacity - Hydro [kW]	Uppsett rafafi - Jarðhiti [kW] Installed electrical capacity - Geothermal [kW]	Uppsett rafafi - Vindorka [kW] Installed electrical capacity - Wind [kW]	Uppsett rafafi - Eldsneyti [kW] Installed electrical capacity - Fuel [kW]	Samtals [kW] Total [kW]
Landsvirkjun	1.891.300	63.200	1.800	-	1.956.300
Orka Náttúrunnar	11.360	423.000	-	-	434.360
HS Orka	-	176.400	-	-	176.400
RARIK	1.800	-	-	33.789	39.380
Orkubú Vestfjarða	16.952	-	-	17.328	38.190
Orkusalan	37.480	-	-	-	37.480
Smávirkjanir / Small scale	25.000	-	1.230	-	25.418
Landsnet	-	-	-	10.800	10.800
HS Veitur	-	-	-	7.194	7.194
Norðurorka	307	-	-	2.760	3.067
Fallorka	2.800	-	-	-	2.800
Orkuveita Húsavíkur	-	-	-	-	2.000
Rafveita Reyðarfjarðar	240	-	-	-	240
Samtals / Total	1.987.239	662.600	3.030	71.871	2.724.740

Tafla 8: Raforkuframleiðsla eftir framleiðanda 2016
Table 8: Electricity production by producer 2016

Framleiðandi Producer	Raforkuframleiðsla - Vatnsafl [MWst] Electricity production - Hydro [MWh]	Raforkuframleiðsla - Jarðhiti [MWst] Electricity production - Geothermal [MWh]	Raforkuframleiðsla - Vindorka [MWst] Electricity production - Wind [MWh]	Raforkuframleiðsla - Eldsneyti [MWst] Electricity production - Fuel [MWh]	Samtals [MWst] Total [MWh]
Landsvirkjun	12.906.881	497.773	5.297	-	13.714.501
Orka Náttúrunnar	31.034	3.380.257	-	-	3.249.179
HS Orka	-	1.189.249	-	-	1.294.107
Orkusalan	268.782	-	-	-	268.938
Smávirkjanir / Small scale	145.264	-	3.913	-	154.249
Orkubú Vestfjarða	89.806	-	-	684	94.117
Fallorka	17.695	-	-	-	17.932
Rafveita Reyðarfjarðar	2.015	-	-	-	1.978
Landsnet	-	-	-	757	1.425
RARIK	7.202	-	-	1.114	1.181
Norðurorka	916	-	-	-	535
HS Veitur	-	-	-	127	422
Orkuveita Húsavíkur	-	-	-	-	-
Samtals / Total	13.469.596	5.067.280	9.210	2.683	18.548.768

Tafla 9: Raforkuframleiðsla úrið 2016 eftir landshlutum
Table 9: Electricity production by region 2016

Landshlutar Region	[kWh]	[MWst]	[GWst]	Hlutfall Percentage
Suðurland	10.424.087.352	10.424.087	10.424	56,2%
Austurland	5.350.592.445	5.350.592	5.351	28,8%
Reykjanes	1.189.249.160	1.189.249	1.189	6,4%
Norðurland vestra	763.170.060	763.170	763	4,1%
Norðurland eystra	641.940.444	641.940	642	3,5%
Vestfirðir	108.350.325	108.350	108	0,6%
Vesturland	71.378.678	71.379	71	0,4%
Höfuðborgarsvæðið	0	0	0	0,0%
Samtals / Total	18.548.768.464	18.548.768	18.549	100%





