ORKUSTOFNUN
National Energy Authority

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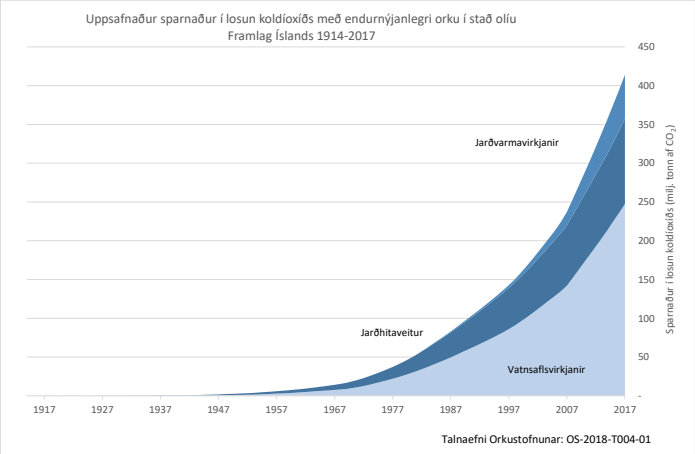
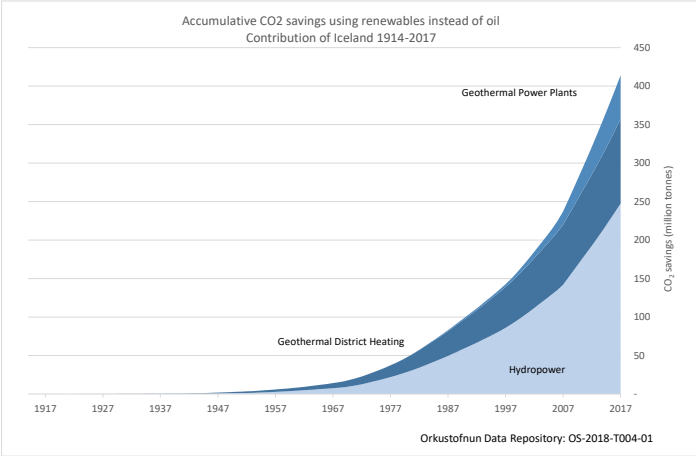
Tafla 1: Sparnaður í losun koldioxíðs með nýtingu endurnýjanlegra orkugjafa í stað olíu.
Table 1: CO_2 savings using renewable energy instead of oil.

Ár / Year	Orkunotkun / Energy Utilization			Árlegur CO_2 sparnaður / CO_2 yearly savings				Uppsafnaður CO_2 sparnaður / CO_2 accumulative savings			
	Varmi - jarðhiti/ Geothermal Heat	Raforka - jarðvarmi/ Electricity - Geothermal	Raforka - vatnsorka / Electricity - Hydro	Varmi - jarðhiti/ Geothermal Heat	Raforka - jarðvarmi/ Electricity - Geothermal	Raforka - vatnsorka / Electricity - Hydro	Samtals / Total	Varmi - jarðhiti/ Geothermal Heat	Raforka - jarðvarmi/ Electricity - Geothermal	Raforka - vatnsorka / Electricity - Hydro	Samtals / Total
	[MWh]			[tonnes]			[tonnes]	[tonnes]			[tonnes]
2017	9.527.849	5.169.598	14.058.722	3.896.890	4.223.562	11.485.976	19.606.428	109.742.083	56.979.934	247.505.320	414.227.337
2016	9.341.028	5.067.280	13.469.596	3.820.480	4.139.968	11.004.660	18.965.108	105.845.193	52.756.372	236.019.344	394.620.909
2015	7.689.528	5.003.003	13.780.770	3.145.017	4.087.453	11.258.889	18.491.359	102.024.713	48.616.404	225.014.684	375.655.801
2014	7.805.556	5.238.000	12.873.000	3.192.472	4.279.446	10.517.241	17.989.159	98.879.696	44.528.951	213.755.795	357.164.442
2013	7.500.000	5.245.000	12.863.000	3.067.500	4.285.165	10.509.071	17.861.736	95.687.223	40.249.505	203.238.554	339.175.282
2012	7.388.889	5.210.000	12.337.000	3.022.056	4.256.570	10.079.329	17.357.955	92.619.723	35.964.340	192.729.483	321.313.546
2011	7.138.889	4.701.000	12.507.000	2.919.806	3.840.717	10.218.219	16.978.742	89.597.668	31.707.770	182.650.154	303.955.592
2010	7.083.333	4.465.000	12.592.000	2.897.083	3.647.905	10.287.664	16.832.652	86.677.862	27.867.053	172.431.935	286.976.850
2009	7.083.333	4.553.000	12.279.000	2.897.083	3.719.801	10.031.943	16.648.827	83.780.779	24.219.148	162.144.271	270.144.198
2008	7.027.778	4.038.000	12.427.000	2.874.361	3.299.046	10.152.859	16.326.266	80.883.696	20.499.347	152.112.328	253.495.371
2007	6.958.333	3.579.000	8.394.000	2.845.958	2.924.043	6.857.898	12.627.899	78.009.335	17.200.301	141.959.469	237.169.105
2006	6.627.778	2.631.000	7.289.000	2.710.761	2.149.527	5.955.113	10.815.401	75.163.376	14.276.258	135.101.571	224.541.205
2005	6.377.778	1.658.000	7.015.000	2.608.511	1.354.586	5.731.255	9.694.352	72.452.615	12.126.731	129.146.458	213.725.804
2004	6.300.000	1.484.000	7.131.000	2.576.700	1.212.428	5.826.027	9.615.155	69.844.104	10.772.145	123.415.203	204.031.452
2003	6.155.556	1.406.000	7.082.000	2.517.622	1.148.702	5.785.994	9.452.318	67.267.404	9.559.717	117.589.176	194.416.297
2002	6.025.000	1.433.000	6.972.000	2.464.225	1.170.761	5.696.124	9.331.110	64.749.782	8.411.015	111.803.182	184.963.979
2001	5.908.333	1.451.000	6.574.000	2.416.508	1.185.467	5.370.958	8.972.933	62.285.557	7.240.254	106.107.058	175.632.869
2000	5.755.556	1.323.000	6.352.000	2.354.022	1.080.891	5.189.584	8.624.497	59.869.048	6.054.787	100.736.100	166.659.935
1999	5.438.889	1.138.000	6.043.000	2.224.506	929.746	4.937.131	8.091.383	57.515.026	4.973.896	95.546.516	158.035.438
1998	5.275.000	655.000	5.617.000	2.157.475	535.135	4.589.089	7.281.699	55.290.521	4.044.150	90.609.385	149.944.056
1997	5.258.333	375.000	5.203.000	2.150.658	306.375	4.250.851	6.707.884	53.133.046	3.509.015	86.020.296	142.662.357
1996	5.158.333	346.000	4.764.000	2.109.758	282.682	3.892.188	6.284.628	50.982.387	3.202.640	81.769.445	135.954.472
1995	5.341.667	290.000	4.678.000	2.184.742	236.930	3.821.926	6.243.598	48.872.629	2.919.958	77.877.257	129.669.844
1994	5.222.222	260.000	4.511.000	2.135.889	212.420	3.685.487	6.033.796	46.687.887	2.683.028	74.055.331	123.426.246
1993	5.141.667	254.000	4.462.000	2.102.942	207.518	3.645.454	5.955.914	44.551.998	2.470.608	70.369.844	117.392.450
1992	5.152.778	230.000	4.306.000	2.107.486	187.910	3.518.002	5.813.398	42.449.057	2.263.090	66.724.390	111.436.537
1991	4.933.333	267.000	4.154.000	2.017.733	218.139	3.393.818	5.629.690	40.341.571	2.075.180	63.206.388	105.623.139
1990	4.961.111	283.000	4.159.000	2.029.094	231.211	3.397.903	5.658.208	38.323.837	1.857.041	59.812.570	99.993.448
1989	5.032.769	258.000	4.213.000	2.058.403	210.786	3.442.021	5.711.210	36.294.743	1.625.830	56.414.667	94.335.240
1988	4.931.325	246.000	4.165.000	2.016.912	200.982	3.402.805	5.620.699	34.236.340	1.415.044	52.972.646	88.624.030
1987	4.568.379	234.000	3.914.000	1.868.467	191.178	3.197.738	5.257.383	32.219.428	1.214.062	49.569.841	83.003.331
1986	4.643.899	212.000	3.842.000	1.899.355	173.204	3.138.914	5.211.473	30.350.961	1.022.884	46.372.103	77.745.948
1985	4.595.431	171.000	3.663.000	1.879.531	139.707	2.992.671	5.011.909	28.451.606	849.680	43.233.189	72.534.475
1984	4.569.507	173.000	3.738.000	1.868.928	141.341	3.053.946	5.064.215	26.572.075	709.973	40.240.518	67.522.566
1983	4.590.923	172.000	3.588.000	1.877.687	140.524	2.931.396	4.949.607	24.703.147	568.632	37.186.572	62.458.351
1982	4.356.473	159.000	3.407.000	1.781.798	129.903	2.783.519	4.695.220	22.825.459	428.108	34.255.176	57.508.743
1981	4.125.406	123.000	3.085.000	1.687.291	100.491	2.520.445	4.308.227	21.043.662	298.205	31.471.657	52.813.524
1980	3.624.947	45.000	3.053.000	1.482.603	36.765	2.494.301	4.013.669	19.356.371	197.714	28.951.212	48.505.297
1979	3.542.664	46.000	2.819.000	1.448.950	37.582	2.303.123	3.789.655	17.873.768	160.949	26.456.911	44.491.628
1978	2.954.286	18.000	2.605.000	1.208.303	14.706	2.128.285	3.351.294	16.424.818	123.367	24.153.788	40.701.973
1977	2.850.588	16.000	2.520.000	1.165.890	13.072	2.058.840	3.237.802	15.216.515	108.661	22.025.503	37.350.679
1976	2.550.763	19.000	2.350.000	1.043.262	15.523	1.919.950	2.978.735	14.050.625	95.589	19.966.663	34.112.877
1975	2.533.856	18.000	2.206.000	1.036.347	14.706	1.802.302	2.853.355	13.007.363	80.066	18.046.713	31.134.142
1974	2.271.227	8.000	2.258.000	928.932	6.536	1.844.786	2.780.254	11.971.016	65.360	16.244.411	28.280.787
1973	2.190.072	24.000	2.181.000	895.739	19.608	1.781.877	2.697.224	11.042.084	58.824	14.399.625	25.500.533
1972	1.931.952	22.000	1.703.000	790.168	17.974	1.391.351	2.199.493	10.146.344	39.216	12.617.748	22.803.308
1971	1.825.999	12.000	1.540.000	746.834	9.804	1.258.180	2.014.818	9.356.176	21.242	11.226.397	20.603.815
1970	1.722.300	12.000	1.413.000	704.421	9.804	1.154.421	1.868.646	8.609.342	11.438	9.968.217	18.588.997
1969	1.538.221	2.000	860.000	629.132	1.634	702.620	1.333.386	7.904.921	1.634	8.813.796	16.720.351
1968	1.472.523	-	687.000	602.262	-	561.279	1.163.541	7.275.789	-	8.111.176	15.386.965
1967	1.396.632		665.000	571.222	-	543.305	1.114.527	6.673.527	-	7.549.897	14.223.424
1966	1.201.806		624.000	491.538	-	509.808	1.001.346	6.102.304	-	7.006.592	13.108.896
1965	1.026.236		641.000	419.730	-	523.697	943.427	5.610.766	-	6.496.784	12.107.550
1964	950.344		653.000	388.691	-	533.501	922.192	5.191.036	-	5.973.087	11.164.123
1963	848.400		629.000	346.996	-	513.893	860.889	4.802.345	-	5.439.586	10.241.931
1962	756.650		593.000	309.470	-	484.481	793.951	4.455.349	-	4.925.693	9.381.042
1961	676.228		576.000	276.577	-	470.592	747.169	4.145.879	-	4.441.212	8.587.091
1960	660.370		523.000	270.091	-	427.291	697.382	3.869.302	-	3.970.620	7.839.922
1959	636.583		470.000	260.363	-	383.990	644.353	3.599.211	-	3.543.329	7.142.540
1958	577.682		431.000	236.272	-	352.127	588.399	3.338.848	-	3.159.339	6.498.187
1957	562.957		415.000	230.249	-	339.055	569.304	3.102.576	-	2.807.212	5.909.788
1956	548.232		406.000	224.227	-	331.702	555.929	2.872.327	-	2.468.157	5.340.484
1955	548.232		379.000	224.227	-	309.643	533.870	2.648.100	-	2.136.455	4.784.555
1954	491.596		327.000	201.063	-	267.159	468.222	2.423.873	-	1.826.812	4.250.685
1953	472.340		198.000	193.187	-	161.766	354.953	2.222.810	-	1.559.653	3.782.463
1952	459.880		176.000	188.091	-	143.792	331.883	2.029.623	-	1.397.887	3.427.510
1951	459.880		170.000	188.091	-	138.890	326.981	1.841.532	-	1.254.095	3.095.627
1950	446.288		167.000	182.532	-	136.439	318.971	1.653.441	-	1.115.205	2.768.646
1949	402.112		160.000	164.464	-	130.720	295.184	1.470.909	-	978.766	2.449.675
1948	403.245		153.000	164.927	-	125.001	289.928	1.306.445	-	848.046	2.154.491
1947	411.174		136.000	168.170	-	111.112	279.282	1.141.518	-	723.045	1.864.563
1946	364.733		118.000	149.176	-	96.406	245.582	973.348	-	611.933	1.585.281
1945	344.344		99.000	140.837	-	80.883	221.720	824.172	-	515.527	1.339.699
1944	316.026		89.000	129.255	-	72.713	201.968	683.336	-	434.644	1.117.980
1943	124.598		86.000	50.961	-	70.262	121.223	554.081	-	361.931	916.012
1942	92.882		72.000	37.989	-	58.824	96.813	503.120	-	291.669	794.789
1941	77.024		57.000	31.503	-	46.569	78.072	465.132	-	232.845	697.977
1940	67.963		45.000	27.797	-	36.765	64.562	433.629	-	186.276	619.905
1939	65.697		30.000	26.870	-	24.510	51.380	405.832	-	149.511	555.343
1938	63.432		22.000	25.944	-	17.974	43.918	378.962	-	125.001	503.963
1937	61.166		14.000	25.017	-	11.438	36.455	353.018	-	107.027	460.045
1936	58.901		11.000	24.090	-	8.987	33.077	328.001	-	95.589	423.590
1935	56.636		11.000	23.164	-	8.987	32.151	303.911	-	86.602	390.513
1934	54.370		10.000	22.237	-	8.170	30.407	280.747	-	77.615	358.362
1933	52.105		9.000	21.311	-	7.353	28.664	258.509	-	69.445	327.954
1932	49.839		8.000	20.384	-	6.536	26.920	237.199	-	62.092	299.291
1931	47.574		7.000	19.458	-	5.719	25.177	216.814	-	55.556	272.370
1930	45.308		8.000	18.531	-	6.536	25.067	197.357	-	49.837	247.194
1929	43.043		6.000	17.605	-	4.902	22.507	178.826	-	43.301	222.127
1928	40.778		6.000	16.678	-	4.902	21.580	161.221	-	38.399	199.620
1927	38.512		6.000	15.751	-	4.902	20.653	144.543	-	33.497	178.040
1926	36.247		7.000	14.825	-	5.719	20.544	128.791	-	28.595	157.386
1925	33.981		8.000	13.898	-	6.536	20.434	113.967	-	22.876	136.843
1924	30.583		8.000	12.509	-	6.536	19.045	100.068	-	16.340	116.408
1923	28.318		6.000	11.582	-	4.902	16.484	87.560	-	9.804	97.364
1922	26.052		4.000	10.655	-	3.268	13.923	75.978	-	4.902	80.880
1921	24.920		1.000	10.192	-	817	11.009	65.322	-	1.634	66.956
1920	22.654		1.000	9.266	-	817	10.083	55.130	-	817	55.947
1919	21.521		-	8.802	-	-	8.802	45.865	-	-	45.865
1918	20.389		-	8.339	-	-	8.339	37.062	-	-	37.062
1917	19.256		-	7.876	-	-	7.876	28.723	-	-	28.723
1916	18.123		-	7.412	-	-	7.412	20.848	-	-	20.848
1915	16.991		-	6.949	-	-	6.949	13.435	-	-	13.435
1914	15.858			6.486	-	-	6.486	6.486	-	-	6.486


Uppsafnaður sparnaður í losun koldíoxíðs með endurnýjanlegri orku í stað olíu
Framlag Íslands 1914-2017
Jarðvarmavirkjanir
Jarðhitaveitur
Vatnsaflsvirkjanir
Sparnaður í losun koldíoxíðs (milj. tonn af CO_2)
450
400
350
300
250
200
150
100
50
-
1917
1927
1937
1947
1957
1967
1977
1987
1997
2007
2017
Talnaefni Orkustofnunar: OS-2018-T004-01


Accumulative CO2 savings using renewables instead of oil
Contribution of Iceland 1914-2017
Geothermal Power Plants
Geothermal District Heating
Hydropower
CO_2 savings (million tonnes)
450
400
350
300
250
200
150
100
50
-
1917
1927
1937
1947
1957
1967
1977
1987
1997
2007
2017
Orkustofnun Data Repository: OS-2018-T004-01