

## Environmental data – Reykjavik Energy (OR) 2015-2021

The following table provides an overview of greenhouse gas emissions (GHG), Scope 1, 2 and 3, of Reykjavik Energy (OR) in 2015 to 2021, and other information like energy utilization, waste and other KPIs. The year 2015 is the benchmark year for OR's climate goals, please see dashed lines around that column 2015 in the table below to draw attention to it.

KEY PERFORMANCE INDICATOR	UNIT	2015	2018	2019	2020	2021
<b>Greenhouse gas emissions</b>						
Scope 1 <sup>1</sup>	tCO <sub>2</sub> eq	49,900	45,950	49,950	52,850	47,500
Scope 2 (market-based) <sup>2</sup>	-	18,800	0	0	0	0
Scope 3 <sup>3</sup>	-	1,500	2,000	1,300	1,300	1,100
<b>CARBON FOOTPRINT</b>	<b>tCO<sub>2</sub>eq</b>	<b>70,200</b>	<b>47,950</b>	<b>51,250</b>	<b>54,150</b>	<b>48,600</b>
Mitigation and Offsetting	tCO <sub>2</sub> eq	-6,500	-7,000	-7,750	-7,800	-8,150
Captured and mineralized CO <sub>2</sub> from power plants	tCO <sub>2</sub> eq	5,200	12,000	10,500	11,700	13,300
<b>Net emissions</b>	<b>tCO<sub>2</sub>eq</b>	<b>63,700</b>	<b>40,950</b>	<b>43,500</b>	<b>46,350</b>	<b>40,450</b>
<b>Carbon intensity</b>						
Carbon intensity per unit of revenue	tCO <sub>2</sub> eq/ISK bn	1,742	1,036	1,100	1,114	936
Carbon intensity per unit of premises	tCO <sub>2</sub> eq/thous.m <sup>3</sup>	90	61	66	69	62
Carbon intensity per employee	gCO <sub>2</sub> e/employee	143	82	80	85	85
Carbon intensity per unit of produced electricity	gCO <sub>2</sub> eq/kWh	9.0	7.8	8.7	8.3	7.4
Carbon intensity per unit of distributed electricity	gCO <sub>2</sub> eq/kWh	0.1	0.1	0.1	0.1	0.1
<b>Total carbon intensity per unit of produced electricity and distributed electricity</b>	<b>gCO<sub>2</sub>eq/kWh</b>	<b>9.1</b>	<b>7.9</b>	<b>8.8</b>	<b>8.4</b>	<b>7.4</b>
Weighted average of carbon intensity for hot water (Veitur Utilities)	gCO <sub>2</sub> eq/kWh	4.0	3.3	3.6	3.9	3.8
Resulting pollutants of the electricity system (Indexes from Orkustofnun) <sup>4,5</sup>	gCO <sub>2</sub> eq/kWh	157.7	443.1	376.4	376.4	377.9
<b>Energy use</b>						
Total energy consumption	kWh	355,719,140	370,275,440	369,808,810	387,756,920	367,788,855
There of fossil fuel	kWh	2,594,940	2,442,440	2,574,810	2,605,920	2,166,720
Vehicle fleet	liters	212,700	200,200	211,050	213,600	177,600
There of electricity	kWh	310,743,000	327,684,000	329,822,000	352,491,000	335,310,501
There of hot water	-	42,381,200	40,149,000	37,412,000	32,660,000	30,311,634
Percentage of renewable energy	%	99.3%	99.3%	99.3%	99.3%	99.4%
Electricity usage without Guaranties of origin (GoOs)	MWh	119,153	0	0	0	0
There of ON Power (cancelled GoOs)	-	0	0	0	0	0
There of Reykjavik Energy 's waterworks and wastewater	-	18,598	0	0	0	0
There of Veitur Utilities	-	56,928	0	0	0	0
There of Reykjavik Fibre Networks	-	835	0	0	0	0
There of losses in distribution system (DSOs)	-	42,792	0	0	0	0
<b>Hot and cold water</b>						
Total hot and cold-water consumption	m <sup>3</sup>	79,702,845	84,644,357	72,342,581	83,721,610	77,070,592
There of cold water	-	78,965,795	83,952,107	71,696,431	83,157,610	76,547,092
There of hot water	-	737,050	692,250	646,150	564,000	523,500
<b>Waste</b>						
Total waste generated annually	kg	1,025,550	1,660,550	1,585,000	2,029,030	1,259,445
Worksite waste	-	939,900	1,584,250	1,487,100	1,965,360	1,176,060
Office waste	-	50,450	42,900	50,000	24,700	22,330
Organic waste	-	26,100	27,000	37,700	23,700	25,840
Hazardous waste	-	9,100	6,400	10,200	15,270	35,215
Categorized waste	kg	951,150	1,515,600	1,450,800	1,915,080	1,145,495
Uncategorized waste	-	74,400	145,000	134,200	113,950	113,950
Ratio of categorized waste	%	93%	90%	91%	94%	90%
There of waste for landfill diversion	kg	812,400	1,320,000	1,340,900	1,749,932	851,595
There of recycled waste	-	204,050	334,200	244,100	279,098	407,850
Ratio of recycled waste	%	19.9%	20.1%	15.4%	13.8%	32.4%

KEY PERFORMANCE INDICATOR	UNIT	2015	2018	2019	2020	2021
Ratio of hazardous waste	-	0.9%	0.4%	0.6%	0.8%	2.8%
Ratio of waste for landfill diversion	-	79.2%	79.5%	84.6%	86.2%	67.6%
<b>Office paper consumption</b>						
Total paper consumption	#sheets	588,200	425,650	365,050	161,500	188,170
There of colour printing	-	-	270,700	245,150	100,400	82,926
There of black/white printing	-	-	154,950	119,900	61,100	105,244
Total paper consumption (bills) <sup>6</sup>	#sheets	998,250	564,900	512,950	426,100	457,937
Envelopes (bills) <sup>6</sup>	#envelopes	512,450	270,950	252,100	345,200	383,718
<b>More information from operations</b>						
Fuel carbon tax paid annually	ISK	1,170,179	1,711,733	1,832,870	2,001,565	1,696,250
Financing of green projects	ISK bn	-	-	13	25	13
Revenue	ISK bn	40.3	46.3	46.6	48.6	51.9
Full-time employee	#	490	586	639	639	569
Premises	thousand m <sup>3</sup>	780	780	780	780	790
Total production of water	m <sup>3</sup>	113,913,000	120,548,000	121,266,000	127,467,000	121,858,000
There of cold water	-	26,914,000	28,348,000	29,313,000	26,389,000	26,205,000
There of hot water from geoth, power plants	-	38,042,000	39,269,000	39,100,000	47,452,000	49,060,000
There of hot water from low temp. fields	-	48,957,000	52,931,000	52,853,000	53,626,000	46,593,000
Total production of energy	TWh	8.3	8.9	8.8	9.4	9.1
There of electricity production	-	3.3	3.5	3.5	3.6	3.5
There of hot water from geoth, power plants	-	2.2	2.3	2.2	2.7	2.8
There of hot water from low temp. fields	-	2.8	3.1	3.1	3.1	2.7
Electrical guarantees of origin (GoOs) <sup>7</sup>	MWh	3,004,820	3,202,411	3,276,960	3,312,447	3,283,723
Own cars and rented vehicles	#cars	169	191	218	217	194
There of electricity	-	12	29	40	45	42
There of plug-in hybrid	-	2	6	9	9	10
There of hybrid	-	19	9	9	8	1
There of methane	-	17	25	28	25	20
There of hydrogen	-	0	5	6	5	6
<b>BREAKDOWN OF DATA</b>						
<b>Scope 1</b>						
Scope 1, total direct emissions <sup>1</sup>	tCO <sub>2</sub> eq	49,900	45,950	49,950	52,850	47,500
There of CO <sub>2</sub>	-	-	-	-	-	44,050
There of CH <sub>4</sub>	-	-	-	-	-	3,400
There of N <sub>2</sub> O	-	-	-	-	-	0
There of HCF-134a	-	-	-	-	-	0
There of SF <sub>6</sub>	-	-	-	-	-	50
Emissions from production	-	49,400	45,500	49,500	52,400	47,100
Emissions from fuel consumption	-	500	450	450	450	400
Fuel consumption of automobiles	liters	212,700	200,200	211,050	213,600	177,600
There of methane	m <sup>3</sup>	8,950	17,350	33,500	38,050	32,600
There of petrol	liters	26,650	13,500	10,500	5,850	5,000
There of diesel	-	177,100	169,350	167,050	169,700	140,000
<b>Scope 2</b>						
Scope 2, indirect emissions (marked-based) <sup>2</sup>	tCO <sub>2</sub> eq	18.794	0	0	0	0
<b>Scope 3</b>						
<b>Scope 3, total emissions<sup>3</sup></b>	tCO <sub>2</sub> eq	1,065	1,540	1,485	1,210	1,122
There of emissions from waste	-	285	350	325	400	250
There of emissions due to employee's air travel	-	70	70	100	20	5
There of emissions due to commuting <sup>8</sup>	-	110	120	110	40	67
There of constructions and maintenance	-	600	1,000	950	750	800
<b>Mitigation projects<sup>9</sup></b>						
CO <sub>2</sub> sequestration by land restoration	tCO <sub>2</sub> eq	-6,350	-7,000	-7,750	-7,800	-8,150
There of land reclamation	-	-1,200	-1,300	-1,300	-1,300	-1,300
There of forestry	-	-5,200	-5,200	-5,200	-5,250	-5,300
There of reclamation of wetlands	-	50	0	0	0	0
There of offsetting by wetland Votlendissjóður Fund and UN Cancelling CERs	-	0	-500	-1,250	-1,250	-1,550

KEY PERFORMANCE INDICATOR	UNIT	2015	2018	2019	2020	2021
<sup>1</sup> Scope 1 or direct emissions from Reykjavik Energy (OR) operations is from the production of electricity and hot water at ON Power's geothermal power plants, emissions for Veitur Utilities' and from the car fleet of the OR. In 2020, emissions from geothermal power plants increased due to increased energy production at the Hellisheidi power plant and the high concentration of carbon dioxide in a powerful borehole. in Hverahlíð which was connected to the power plant						
<sup>2</sup> Scope 2, indirect emissions from purchased electricity and heating for own use, Scope 2 are zero. The reason is that OR is producing electricity for the national grid and emission due to electrical productions are already counted for in Scope 1, To prevent double counting, no emissions are counted in Scope 2, GoOs were annulled for OR in 2016 - 2020 but not for Veitur Utilities, the mother company and Reykjavik Fibre Networks in 2015.						
<sup>3</sup> Scope 3, indirect emissions from waste as well as emission from employees commuting and their air travel.						
<sup>4</sup> Electrical Guaranties of origin (GoOs) in Iceland on Orkustofnun's web, <a href="https://orkustofnun.is/yfirflokkur/raforkunotandinn/uppruni-raforku/aforku">https://orkustofnun.is/yfirflokkur/raforkunotandinn/uppruni-raforku/aforku</a> .						
<sup>5</sup> GoOs for 2020 will be published in the first half of 2021 and the same number is therefore used in 2020 and 2019.						
<sup>6</sup> ON Power and Veitur Utilities are no longer on a joint claim, therefore there is an increase in postal items and envelopes between the years 2019 and 2020.						
<sup>7</sup> GoOs are issued for net production of the ON Power's plants, ie, quantities produced less own use, GoOs are then used to confirm the origin of electricity consumption by customers on the general market. If interested, heavy industry in Iceland is offered GoOs, as well as other interested parties.						
<sup>8</sup> Based on 223 working days per year, and that employee's passenger cars emit on average 127 g CO <sub>2</sub> /km (129 gr CO <sub>2</sub> /km 2019),						
<sup>9</sup> Landreclamation: Sequestration of 2,75tCO <sub>2</sub> e per ha/yr, Forestry: 6,3t CO <sub>2</sub> eq per ha/yr and 2,000 trees/yr. As a result of reclaiming, wetlands emissions is reduced by 20 tCO <sub>2</sub> eq/ha/yr						