GREEN ACCOUNTING

2025

Table of contents

Employees, raw materials and resource consumtion

Quantity	2022	2023	2024	2025	Unit
Employees	631	606	675	705	♂/♀
Electricity	4,566,844	4,622,751	4,575,045	3,935,025	MWh
Oil	387,619	373,898	331,552	288,213	Litres
Gas	22	21	26	29	Tonnes
Fresh water	163,733	158,937	171,117	179,505	m^3
Sea water	7,884,000	7,884,000	7,884,000	7,884,000	m^3
Total raw materials used	2.38	2.38	2.36	2.38	t/t Al
Imported raw material	2.38	2.38	2.36	2.38	t/t Al
Hazardous substances (solid)	592,526	600,816	593,469	505,187	Tonnes
Hazardous substances (liquid)	417,715	407,506	362,856	316,299	Litres
Misc, packaging	< 400	< 400	< 400	< 400	Tonnes

Emissions and waste management

Quantity	2022	2023	2024	2025	Unit
Atmospheric emissions					
Fluoride (gaseous and particles)	0.40	0.35	0.32	0.34	kg/t Al
Sulphur dioxide SO_2	11.69	9.76	10.24	9.76	kg/t Al
Dust	0.71	0.75	0.74	0.65	kg/t Al
Carbon Dioxide CO_2	1.55	1.54	1.50	1.46	t/t Al
Fluorocarbons. PFC CO_2 equivalents	0.13	0.12	0.08	0.15	t CO_2 eq. /t Al
Polyaromatic hydrocarbons PAH_{16}	0.000079	0.000072	0.000078	0.000078	kg/t Al
Release into surface water/groundwater/sea					
Sludge	0.05	0.09	0.06	0.04	kg/t Al
Oil/fat in cooling agents from casthouse and rectifiers	< 0.5	< 0.5	< 0.5	< 0.5	ppm
Release into municipal sewage system					
From septic tanks	0.05	0.09	0.06	0.04	kg/t Al
Waste disposal					
Compactable waste	0.45	0.42	0.50	0.55	kg/t Al
Seashore repository	28	29	30	34	kg/t Al
Recyclable waste					
Anode waste and coal dust	114	113	115	126	kg/t Al
Aluminum slag	8.5	8.4	10.7	16.7	kg/t Al
Wood	0.9	0.9	1.1	1.4	kg/t Al
Scrap metal	2.1	1.9	2.0	2.4	kg/t Al
Cardboard	0.12	0.09	0.13	0.17	kg/t Al
Plastic	0.05	0.08	0.06	0.10	kg/t Al
Hazardous waste for disposal					
Total waste	0.03	0.03	0.01	0.04	kg/t Al

Waste

Quantity	2022	2023	2024	2025	Unit
Material from the sewer					
Sludge	14,9	29,4	19,0	11,4	Tonnes
Other waste (from septic tanks)	3,2	2,5	-	6,1	Tonnes
From sandtraps	9	9	-	-	Tonnes
Recyclable waste					
Anode butts	33,429	33,759	34,028	31,539	Tonnes
Carbon dust	1,409	1,455	1,478	1,320	Tonnes
Aluminum dross	2,982	3,917	2,338	1,254	Tonnes
Busbars	2,603	2,617	3,303	4,341	Tonnes
Anode stub metal	1,341	1,560	1,723	1,523	Tonnes
Scrap iron	-	-	-	-	Tonnes
Timber	640	585	612	628	Tonnes
Cardboard	273	276	328	359	Tonnes
Plastic	36	29	40	45	Tonnes
Waste oil	14	24	17	27	Tonnes
Rubber tires	7	20	6	1	Tonnes
Batteries and electronics	9.4	12	5	7	Tonnes
Textile	5.7	4.6	6.7	7.8	Tonnes
Light bulbs	1.9	1.4	3.4	2.0	Tonnes
Oil contaminated waste	0.26	0.26	0.19	0.18	Tonnes
Hazardous waste	9	19	13	15	
Electronics – hazardous waste					Tonnes
Hazardous waste	-	0,2	-	-	Tonnes
Paint	7	9	1	9	Tonnes
Substances in flood pits	0.8	1.1	0,6	0.5	
Spent potlining					Tonnes
Carbon from rodding shop	5,793	6,571	7,446	6,755	Tonnes
Carbon from pot rooms	1,221	1,046	1,032	1,142	Tonnes
Dust from sweeper	1,110	1,065	604	579	Tonnes
Residual refractory material	274	311	273	279	Tonnes
Earth materials	51	145	114	133	Tonnes
Dross sand	1,796	3,377	1,294	2,176	Tonnes
Solid waste					
Waste for compacting	138	130	154	144	Tonnes
Organic waste	13	17	17	14	Tonnes

Emissions to air

Quantity	2022	2023	2024	2025	Unit
Substances					
CO_2	474,498	478,319	463,385	381,068	Tonnes
CF_4/C_2F_6	38,753	37,463	25,753	38,831	t CO_2 eq.
SO_2	3,580	3,028	3,161	2,539	Tonnes
Polyaromatic hydrocarbons	24.2	22.4	24.1	20.3	Kg
Total fluoride	122	109	98	88	Tonnes
Dust (PM10)	216	234	228	169	Tonnes

Use of hazardous chemicals (Xn, T, Tx, C, Xi, E, Fx, F, O, N)

Quantity	2022	2023	2024	2025	Unit
DAG 2671 (O, T, N)	20,027	22,730	20,426	19,545	Litres
DAG 554/20 (C, N, Xn)	97	107	91	99	Litres
Plicast strong mix	535	567	678	599	Tonnes
Ramming paste (T)	1,417	1,410	1,459	1,281	Tonnes
Flange paste (T)	22	21	26	29	Tonnes
Propane (Fx, F, E)	387,619	373,898	331,552	288,213	Tonnes
Diesel oil (Xn, O)	10,069	10,878	10,878	8,541	Litres
Hydraulic oil	297	231	227	319	Litres
Sodium hydroxide (Xi)	4,306	4,648	4,369	3,341	Tonnes
Aluminum fluoride (Xn)	585,833	593,809	586,595	499,498	Tonnes
Aluminum oxide (Xn)	10	10	13	8	Tonnes
Ferromanganese (Xn)	9	12	11	13	Tonnes
Ferrophosphorus (Xn)	15	13	9	12	Tonnes

Production and raw material consumption

Quantity	2022	2023	2024	2025	Unit
Aluminum production					
Primary aluminum production	306,267	310,421	308,355	260,158	Tonnes
Aluminum oxide	585,833	593,809	586,595	499,498	Tonnes
Aluminum fluoride	4,306	4,648	4,369	3,341	Tonnes
Prebaked anodes (net consumption)	131,222	133,646	128,610	107,239	Tonnes
Propane	22	21	26	29	Tonnes
Diesel oil	387,619	373,898	331,552	288,213	Litres
Sodium hydroxide	297	231	227	319	Tonnes
Flange paste	1,417	1,410	1,459	1,281	Tonnes
Cast iron	581	704	750	529	Tonnes
Anode rods	509	501	434	545	Tonnes
Electricity	4,566,844	4,622,751	4,575,045	3,935,025	MWh
Industrial water	98,240	95,362	102,670	107,703	m^3
Drinking water	65,493	63,575	68,447	71,802	m^3
Sea water	7,884,000	7,884,000	7,884,000	7,884,000	m^3
Silicon	4656	4111	3762	6577	Tonnes
Magnesium	176	167	263	588	Tonnes
Titanium	73	66	58	87	Tonnes
Strontium	21	17	15	29	Tonnes
Hydraulic oil	10,069	10,878	10,878	8,541	Litres
Oil for cooling	1,709	1,850	1,343	1,735	Litres
Oil removing chemicals	1,800	1,895	1,670	1,805	Litres
Bakskautsteinar	3084	-	-	3,814	Pcs.
Lubricating oil	5,899	3,765	2,956	1,144	Litres
Ferrosilicon	17	22	21	17	Tonnes
Ferromanganese	10	10	13	8	Tonnes
Ferrophosphorus	9	12	11	13	Tonnes
Carbon	48	60	60	55	Tonnes
Steel pellets	34	37	33	49	Tonnes
Wood sticks	12,250	17,650	15,700	17,550	Pcs.
Batteries	58	62	70	43	Pcs.

Statements

Auditor's Statement

Independent verification

I have reviewed the information presented in Norðurál's environmental accounting for the year 2025. The environmental accounting has been examined to assess whether it contains the information required under Icelandic Regulation No. 990/2008 on environmental information and whether the quantitative data disclosed is consistent with the company's financial records and its monitoring of key environmental performance indicators. Based on this review, it is my opinion that the environmental accounting complies with the requirements of Icelandic Regulation No. 990/2008 and provides a clear and reliable representation of the operations environmental impact in 2025.

Respectfully, on behalf of Verkís hf.

HERA HARÐARDÓTTIR

Hera Harðardóttir, B.Sc. environmental science

Board's Statement

All information in the company's green accounting for the year 2024 is provided according to the best knowledge. Emission control equipment is of best available technology and is efficiently maintained. The findings of internal measurements are used for making improvements aiming to minimize environmental impact.

Proper handling of the environment is a cornerstone in the company's responsible operation and a constant monitoring of environmental factors aims to ensure that the set goals are achieved. The company's environmental activities were generally successful during the year, with active monitoring carried out in accordance with the monitoring schedule and the requirements of the license.

Gunnar Guðlaugsson
Managing Director

Sigrún Helgadóttir
Plant Manager

Norðurál keeps green accounting in accordance with regulation no. 990/2008 and delivers its audited green accounts to the Environment Agency of Iceland before May 1 every year. Emissions accounting is kept in accordance with regulation no. 990/2008. Norðurál's operations fall under company category 2.01 - Aluminum production according to regulation no. 851/2002 on green accounting. Norðurál operates under a license from The Environment Agency of Iceland. The current operating license was issued in 2015 and is valid until December 16, 2031.

Please send any questions and comments to umhverfi@nordural.is and we shall reply to the best of our ability.

NORÐURÁL

UMHVERFISVERÐLAUN ATVINNULÍFSINS 2022

Jafnlaunaúttekt PwC 2020