



ENVIRONMENTAL **PRODUCT** DECLARATION



In accordance with ISO 14025:2006:

Primary Aluminium from Volta Aluminium Company Limited (VALCO)

Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of a single product from a manufacturer
EPD registration number:	EPD-IES-0016460:001
Version date:	2025-12-01
Validity date:	2030-11-30

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com

PROGRAM INFORMATION

PROGRAM OPERATOR



EPD Programme: The International EPD® System

Address: EPD International AB
Box 210 60
SE-100 31 Stockholm
Sweden

Website: www.environdec.com

E-mail: support@environdec.com

Product Category Rules (PCR):

Basic Aluminium Products and Special Alloys (PCR 2022:08, Version 1.0.1)
UN CPC - 4153

PCR review was conducted by:

The Technical Committee of the International EPD® System. A full list of members is available at www.environdec.com.

Review chair: Hüdai Kara.

The review panel may be contacted via the Secretariat: info@environdec.com

LCA accountability:

LCA and the EPD are prepared by Ecologic Consultancy team:

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Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:



EPD verification by individual verifier

Third-party verification:

Agnieszka Pikus
Greenwise



Approved by:

The International EPD® system

Procedure for follow-up of data during EPD validity involves a third-party verifier:



Yes



No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

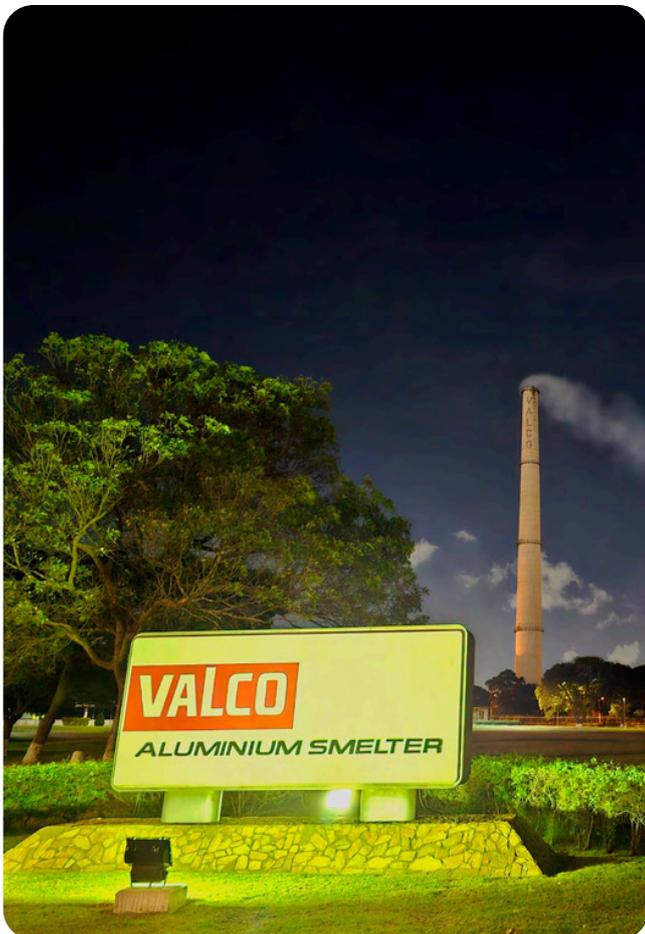
EPDs within the same product category but registered in different EPD programmes, or not compliant with ISO 14025, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see ISO 14025.

MANUFACTURER INFORMATION

EPD OWNER



Owner of the EPD:	Volta Aluminium Company Limited VALCO
Address:	Heavy Industrial Area Tema, Greater Accra Region, Ghana
Contact(s):	Robert Sambian, Robert.Sambian@Valcotema.com, Title: CEO of VALCO
Website:	www.valcotema.com



COMPANY OVERVIEW

Established in 1967, Volta Aluminium Company Limited (VALCO) has been a cornerstone of Ghana’s aluminium industry and a key driver in the nation’s industrialization efforts. Founded under the vision of Dr. Kwame Nkrumah, VALCO was built to anchor Ghana’s Integrated Aluminium Industry (IAI) initiative, utilizing energy from the Akosombo Hydro-electric Dam to produce primary aluminium.

VALCO began commercial operations with an annual capacity of 120,000 tonnes, later expanded to 200,000 tonnes following major upgrades in the 1970s. Initially operated under Kaiser Aluminum & Chemical Corporation, VALCO benefited from international investment and technical expertise that established it as a leader in Sub-Saharan Africa’s aluminium production.

In 2004, the Government of Ghana acquired full ownership of VALCO, reaffirming its strategic importance to national development. Despite operational challenges, VALCO resumed production in 2011 and currently produces approximately 40,000 tonnes of primary aluminium annually. The company continues to support Ghana’s vision of adding value to its bauxite resources and driving economic growth through job creation, industrial innovation, and sustainable development.

Today, VALCO remains an essential pillar of Ghana’s economy and a key participant in the global aluminium value chain, with ongoing modernization efforts aimed at enhancing efficiency, sustainability, and competitiveness in the international market.

MANUFACTURER INFORMATION

VALCO: Recognized Excellence & Our Values

VALCO's operations are guided by a set of core values that reflect its commitment to excellence and responsibility:



Our Vision

To be a world-class Aluminium Smelter, recognized as the cornerstone of Ghana's Integrated Aluminium Industry, driving economic growth.



Our Mission

We are committed to producing top-quality primary aluminium and value-added products for both local and global markets.

Management system-related certifications



Quality Policy

VALCO is **ISO 9001 certified**, with customer satisfaction as our top priority, ensuring that the needs and expectations of customers and other stakeholders are fully met through effective communication, engagement, and training.



Narcotics Control Commission

Registers VALCO under Section 34 of Ghana's Narcotics Control Commission Act 2020 (Act 1019) for regulated use and handling of controlled industrial chemicals at its Tema smelter site.



Environmental Protection Authority

Issued by Ghana's Environmental Protection Authority authorizing VALCO to operate a 200,000 t/year aluminium smelting facility in Tema.



Ghana National Fire Service

Certifies that VALCO's smelting facility meets all required fire safety and emergency preparedness standards. Includes inspection of exits, firefighting equipment, and on-site hydrant systems.

PRODUCT INFORMATION



PRODUCT NAME

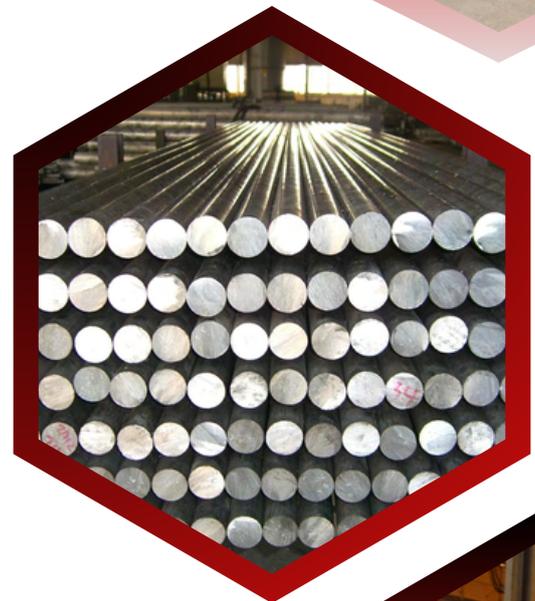
Primary Aluminium

PRODUCT IDENTIFICATION

The primary aluminium produced by VALCO is casted into ingots, slabs, sows, and rods. These products are manufactured in accordance with **ASTM B179** and other relevant international standards, ensuring consistent quality and compliance with industry specifications.

Grades of Sows produced by VALCO:

- ▶ P0406B-Sow
- ▶ P0506A-Sow
- ▶ P0610A-Sow
- ▶ P0610D-Sow
- ▶ P1020A-Sow
- ▶ P1020H-Sow
- ▶ P1535A-Sow
- ▶ P2055A-Sow
- ▶ P2070A-Sow
- ▶ 99.0% AL-Sow



CPC CODE

UN CPC 4153 - Semi-finished products of aluminium or aluminium alloys.

PRODUCT DESCRIPTION

VALCO's primary aluminium is a key intermediate material used in the production of a wide range of aluminium-based products. It is manufactured through the Hall-Héroult electrolytic reduction process, in which alumina (aluminium oxide) is dissolved in molten cryolite and reduced to molten aluminium metal within large electrolytic cells powered by electricity. The molten aluminium is periodically tapped and cast into ingots, ingots, sows, and rods, which are then supplied for further processing in downstream industries.

VALCO's integrated operations encompass raw material handling, anode production, reduction (smelting), casting, and utility systems, ensuring continuous, efficient, and high-quality primary aluminium production. The product is primarily intended for business-to-business (B2B) applications, serving as feedstock for remelting and fabrication processes that produce automotive components, building materials, electrical conductors, packaging products, and machinery parts.



PRODUCT INFORMATION

NAME AND LOCATION OF PRODUCTION SITE:

Heavy Industrial Area Tema, Greater Accra Region, Ghana



PRODUCT CHARACTERISTICS

The produced primary aluminium of VALCO is casted into ingots, sows, and rods. The products' grades and technical specifications that are associated with this study is clarified in the below table:

Property/ Parameter	Sows	Ingots	Rods
Appearance Properties			
Standards	Conformance to: - ASTM B179 - EN 576 - LME Delivery Standards		
Color	Metallic Silver/ Grey		
Surface Conditions	Smooth, clean, dross-free, free from cracks and oil		
Density	Approx. 2.70 g/cm ³		
Melting Point	~660°C		
Brinell Hardness	30 - 60 HB		
Dimensions and Specifications			
Shape	Trapezoidal/ Rectangular		Cylindrical or Round.
Weight per form	500 - 1000 kg (±3%)	20-25(±2)	2400
Length	800 - 1100 mm	740mm	-
Width	400 - 600 mm	180mm	915mm
Height	300 - 450 mm	100mm	-
Tolerance	±5%	±5	±150

Note: VALCO's primary aluminium is produced in several cast forms (ingots, sows, and rods). These forms are identical in chemical composition and physical characteristics; only the forming/casting shape differs. Therefore, they are collectively considered a **single product system** in this EPD.

CONTENT DECLARATION

The mass (weight) of one unit of a product, as purchased or per declared unit: 1 kg

Material	Type	Quantity %	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Aluminium	Primary/Pure	≥ 99.70%	0%	0%	0
Aluminium	Scrap	0%	0%	0%	0
Alloying Elements	Primary	0%	0%	0%	0
Others	Silicon (Si)	≤ 0.10%	0%	0%	0
	Iron (Fe)	≤ 0.20%	0%	0%	0
	Copper (Cu)	≤ 0.01%	0%	0%	0
	Zinc (Zn)	≤ 0.02%	0%	0%	0
	Titanium (Ti)	≤ 0.02%	0%	0%	0
	Others (Total)	≤ 0.10%	0%	0%	0
TOTAL		%100	0%	0%	0

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or declared unit
Wooden pallets	0.00377	0.38%	1.41E-04
TOTAL	0.00377	0.38%	1.41E-04

Note: 1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO₂.

Products do not contain any substances that can be included in “Candidate List of Substances of Very High Concern for Authorization” and raw materials used are not part of the EU REACH regulation.

PACKAGING

The packaging system for VALCO’s Primary Aluminium consists solely of wooden pallets (Product Packaging Lumber – Wood) used for supporting and securing aluminium ingots, billets, and sows during storage and transportation.

RECYCLED MATERIAL

The product and its packaging materials do not contain recycled content.

LCA INFORMATION

Declared Unit

1 kg of primary aluminium in solid form at the manufacturer gate (factory gate), excluding packaging.

Time Representativeness

January 2024 – December 2024

Geographical Scope

As the product is manufactured in Ghana, the geographical scope of the foreground data is Ghana, while the geographical scope of the background data is either Africa or global, depending on dataset relevance and availability.

SYSTEM BOUNDARIES

Primary Aluminium produced by VALCO is conducted using a cradle-to-gate system boundary in accordance with PCR 2022:08 for Basic Aluminium Products and Special Alloys. Although the adopted PCR defines the system boundary as cradle-to-gate, downstream processes are **excluded** from this study in accordance with Section 4.3 of the PCR, which specifies that basic aluminium is a semi-finished intermediate product whose use and end-of-life stages fall under the responsibility of downstream manufacturers of finished consumer products.

The life cycle stages included are:

- Upstream processes (cradle-to-gate);
- Core processes (gate-to-gate);
- Downstream processes (**Excluded**).

EPD TYPE



EPD of a single product from a manufacturer

SOFTWARE



openLCA version 2.5.0

DATABASE



Ecoinvent v3.10 + EN15804 add-on with method EF 3.1.

Module Life	Cycle Stage	Modules declared
Upstream Processes	Extraction and processing of raw materials (e.g. bauxite ore, caustic soda, lime, petroleum coke, pitch, aluminium fluoride, electrodes).	X
	Transport of scrap from supplier to the manufacturing site, where applicable. If scrap is internally pre-treated, this transport is included. When pre-treatment is carried out by third parties, an average transport distance (supplier to pre-treatment plant) is used, in accordance with PCR guidance.	X
	Recycling processes of secondary materials originating from other product life cycles.	X
	Production of alloying elements, chemicals, and auxiliary materials used in aluminium production.	X
	Manufacture of packaging materials (e.g. wooden pallets) used for product distribution.	X
	Generation of electricity, fuels, steam, and other energy carriers used in upstream processes, including upstream fuel burdens and power generation losses.	X
Core Processes	Transportation of raw materials and components to the VALCO aluminium production facility.	X
	Production processes for aluminium and aluminium alloy manufacturing, including alumina feeding, anode production, electrolysis, tapping, refining, and casting.	X
	Utility generation and use within the facility, including electricity, compressed air, steam, nitrogen, and cooling water.	X
	Utility generation on-site, including steam, compressed air, nitrogen, and cooling water	X
	End-of-life treatment of manufacturing wastes (e.g. slags, sludge, dust), even if managed by third parties, including transportation.	X
	Direct process emissions to air (e.g. CO ₂ , CO, NO _x , SO _x , HF, particulate matter, and other emissions from anode effects and electrolyte reactions).	X
Downstream Processes	On-site generation and consumption of energy carriers (electricity, fuels, and steam) within the core system.	X
	Handling and treatment of co-products and residues such as dross, skimming, aluminium granules, salts, and oxides, as well as recovery of waste heat or combustion fumes.	X
	All downstream processes are excluded.	ND

(X = declared module; Modules not declared = ND.)

LCA INFORMATION

EXCLUDED LIFE CYCLE STAGES

► Upstream Processes

- Maintenance of machineries and other operations made occasionally (i.e. > 3 years frequency) or in emergency situations.
- Packaging of raw materials used for the manufacturing of aluminium, as it is considered irrelevant.
- Infrastructure and capital goods.

► Core Processes

- Manufacturing of production equipment, buildings and other capital goods,
- Maintenance of machineries and other operations made occasionally (i.e. > 3 years frequency) or in emergency situations,
- Business travel of personnel,
- Travel to and from work by personnel, and
- Research and development activities, including the production and manufacture of laboratory equipment.

► Downstream Processes

- All downstream processes are excluded.

DESCRIPTION OF EXAMINED MODULES



Upstream processes

These cover the extraction and processing of raw materials required for aluminium production, including bauxite ore, petroleum coke, pitch, aluminium fluoride, caustic soda, and lime. Upstream activities also include the production of alloying elements, chemicals, and auxiliary materials used in the manufacturing process. The generation of electricity, fuels, steam, and other energy carriers used in upstream operations, as well as the transportation of all raw materials and utilities to the VALCO facility, are included. All associated emissions, resource use, and upstream waste treatment are accounted for within this stage.



Core processes

These comprise all on-site operations within the VALCO aluminium smelter complex, starting from raw material reception and extending through the entire electrolysis and casting sequence. Core processes include the production of anode blocks in the Green Anode Paste Plant, baking in the Anode Baking Plant, rodding in the Carbon Anode Rod Plant, electrolytic reduction of alumina in the Cell Lines to produce molten aluminium, and casting operations in the Casting House to produce aluminium ingots, billets, and sows. The generation and consumption of on-site utilities—such as electricity, compressed air, steam, nitrogen, and cooling water—are included, as well as process emissions, waste treatment, and recovery of co-products (e.g., dross, skimmings, and oxides).



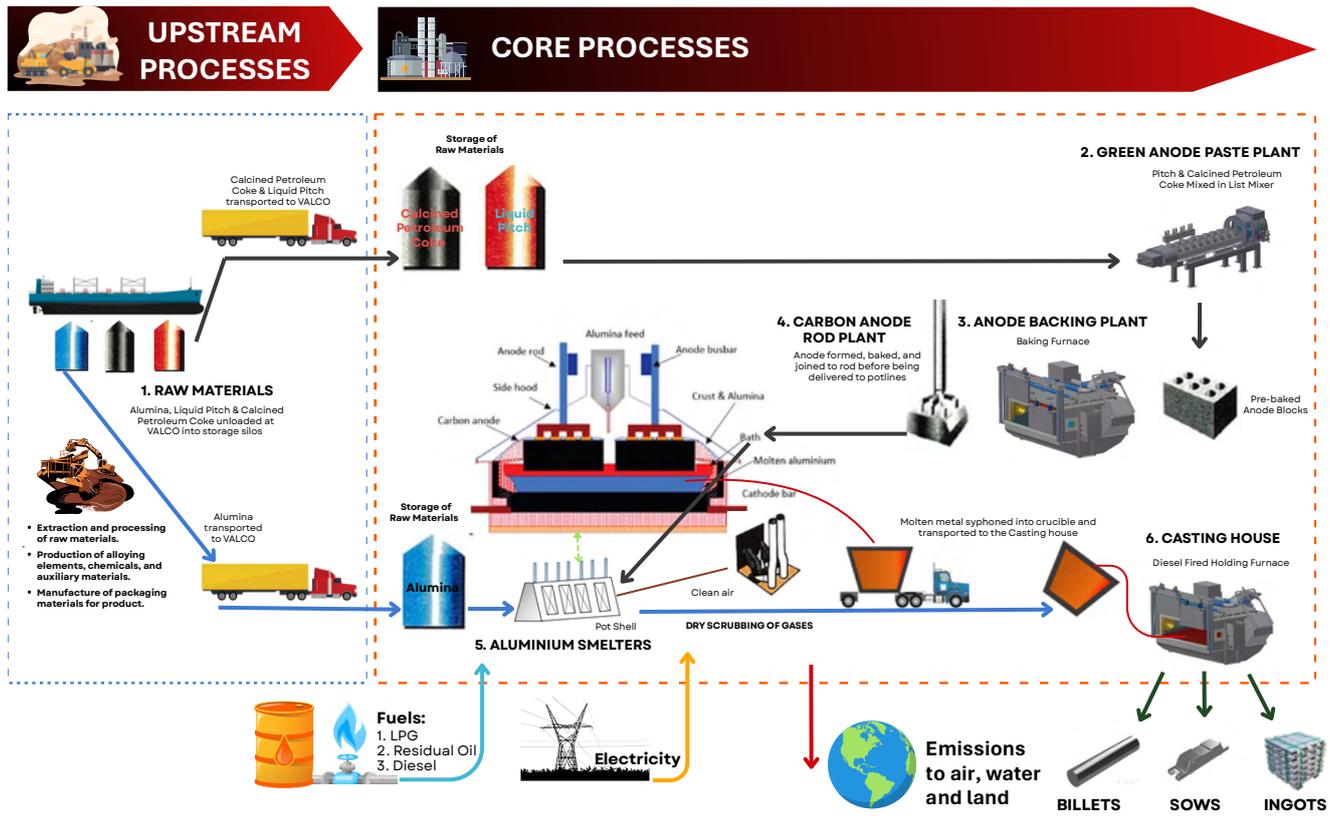
Downstream processes

Excluded, as basic aluminium is a semi-finished intermediate product that undergoes further transformation in subsequent manufacturing stages and is no longer identifiable in its final use.



LCA INFORMATION

SYSTEM DIAGRAM



LCA INFORMATION

CUT-OFF CRITERIA

In line with PCR requirements, all known inputs and outputs relevant to the production system have been included except the **ramming paste**, accounting only to **0.094%** of the total inputs. The LCA study does not exclude any modules or processes which are stated mandatory in the Standards and PCR. The study does not exclude any hazardous materials or substances.

The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes for which data is available are included in the calculation. There is no neglected unit process more than 1% of total mass and energy flows. The total excluded input and output flows do not exceed 5% of energy usage or mass. The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy, and water use related to company management and sales activities are excluded.

ALLOCATION

The LCA study follows the allocation rules outlined in Section 2.4 of the adopted Product Category Rules (PCR 2022:08, Version 1.0.1) for Basic Aluminum Products and Special Alloys. The PCR specifies a hierarchical approach to allocation, consistent with ISO 14044:

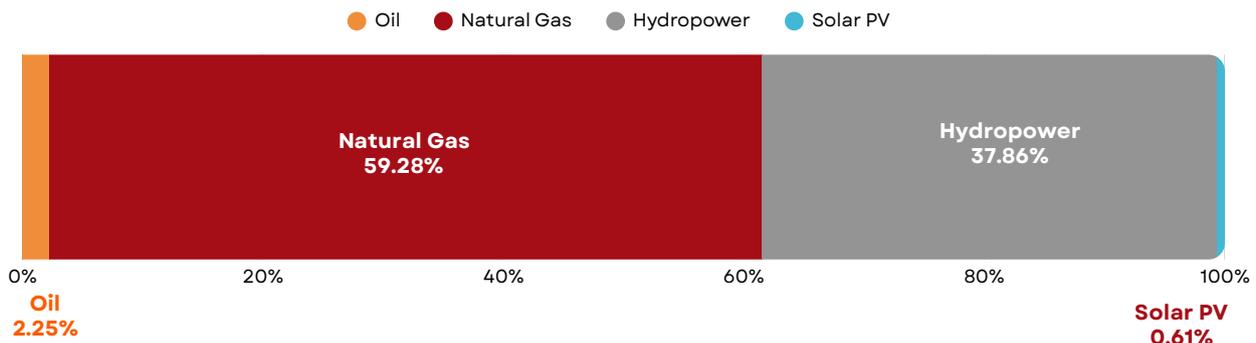
1. Allocation was avoided whenever possible, for instance by subdividing processes and collecting separate inventory data for each sub-process;
2. If allocation cannot be avoided, the inputs and outputs of the system shall be partitioned between its different products or functions in a way that reflects the underlying physical relationships between them; i.e. they should reflect the way in which the inputs and outputs are changed by quantitative changes in the products or functions delivered by the system.
3. If no physical relationship can be established, economic allocation may be used, supported by market data and accompanied by a sensitivity analysis.

In the case of the primary aluminium product system, physical allocation by mass was applied. This approach is consistent with the PCR and reflects the physical distribution of inputs and outputs across co-products in VALCO's integrated production system. The mass-based method was applied to both upstream and core process inventories, including raw material consumption, utility inputs, emissions, and waste generation.

ELECTRICITY BACKGROUND DATA

Electricity used in the production of primary aluminium was modeled using Ghana's national grid mix, based on 2023 data from the International Energy Agency (IEA). The electricity emission factor applied was **0.461 kg CO₂e/kWh**, using the Ecoinvent 3.10 dataset.

The chart below illustrates the energy sources that make up the national grid mix, which was used to model electricity-related emissions in VALCO's core processes in line with PCR and ISO 14044 requirements.



ENVIRONMENTAL PERFORMANCE INDICATORS

The environmental performance of the declared unit of **1 kg of VALCO's primary aluminium** reported below using the parameters and units specified in PCR 2022:08, Version 1.0.1. Additionally, the LCIA EF 3.1 reference package is used.

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. The scenarios included are currently in use and are representative of one of the most probable alternatives.

MANDATORY ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2

PARAMETER		UNIT	Upstream	Core	TOTAL
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	2.83E+00	1.19E+01	1.47E+01
	Biogenic	kg CO ₂ eq.	-6.17E-03	9.67E-04	-5.20E-03
	Land use and land transformation	kg CO ₂ eq.	2.35E-03	4.24E-04	2.78E-03
	TOTAL	kg CO ₂ eq.	2.83E+00	1.19E+01	1.47E+01
Global warming potential except emissions and uptake of biogenic carbon (GWP-GHG)		kg CO ₂ eq.	2.84E+00	1.19E+01	1.47E+01
Ozone layer depletion (ODP)		kg CFC 11 eq.	8.06E-08	1.90E-07	2.70E-07
Acidification potential (AP)		mol H ⁺ eq.	3.06E-02	1.29E+01	1.30E+01
Eutrophication potential (EP)	Aquatic freshwater	kg P eq.	1.10E-03	1.26E-04	1.23E-03
	Aquatic marine	kg N eq.	6.71E-03	4.54E+00	4.55E+00
	Aquatic terrestrial	mol N eq.	7.41E-02	4.98E+01	4.98E+01
Photochemical oxidant creation potential (POCP)		kg NMVOC eq.	2.48E-02	3.08E+02	3.08E+02
Abiotic depletion potential (ADP)*	Metals and minerals	kg Sb eq.	8.90E-06	5.07E-06	1.40E-05
	Fossil resources	MJ, net calorific value	6.03E+01	1.31E+02	1.91E+02
Water deprivation potential (WDP)*		m ³ world eq. deprived	5.73E-01	5.80E-01	1.15E+00

* Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

ENVIRONMENTAL PERFORMANCE INDICATORS

ENVIRONMENTAL IMPACTS (GWP-GHG), THE INTERNATIONAL EPD SYSTEM

PARAMETER	UNIT	Upstream	Core	TOTAL
Global warming potential except emissions and uptake of biogenic carbon (GWP-GHG)	kg CO ₂ eq.	2.84E+00	1.19E+01	1.47E+01

ENVIRONMENTAL IMPACTS, RESOURCE USE INDICATORS

PARAMETER	UNIT	Upstream	Core	TOTAL	
Primary energy resources – Renewable	Use as energy carrier	MJ, net calorific value	1.33E+00	2.61E+01	2.75E+01
	Used as raw materials	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00
	TOTAL	MJ, net calorific value	1.33E+00	2.61E+01	2.75E+01
Primary energy resources – Non-renewable	Use as energy carrier	MJ, net calorific value	5.55E+01	1.21E+02	1.77E+02
	Used as raw materials	MJ, net calorific value	4.87E+00	9.14E+00	1.40E+01
	TOTAL	MJ, net calorific value	6.03E+01	1.31E+02	1.91E+02
Secondary material (optional)	kg	0.00E+00	0.00E+00	0.00E+00	
Renewable secondary fuels (optional)	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	
Non-renewable secondary fuels (optional)	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	
Net use of fresh water (optional)	m ³	2.08E-02	1.38E-02	3.46E-02	

ENVIRONMENTAL IMPACTS, WASTE INDICATORS

PARAMETER	UNIT	Upstream	Core	TOTAL
Hazardous waste disposed	kg	4.36E-04	6.36E-04	1.07E-03
Non-hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00
Radioactive waste disposed	kg	3.98E-05	3.68E-06	4.34E-05

ENVIRONMENTAL PERFORMANCE INDICATORS

ENVIRONMENTAL IMPACTS, OUTPUT FLOW INDICATORS

PARAMETER	UNIT	Upstream	Core	TOTAL
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ per energy carrier	0.00E+00	0.00E+00	0.00E+00
Exported energy, thermal	MJ per energy carrier	0.00E+00	0.00E+00	0.00E+00



ABBREVIATIONS

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EF	Environmental Footprint
GPI	General Programme Instructions
PCR	Product Category Rule
ISO	International Organization for Standardization
CEN	European Committee for Standardization
CLC	Co-location centre
CPC	Central product classification
GHS	Globally harmonized system of classification and labelling of chemicals
GRI	Global Reporting Initiative
SVHC	Substances of Very High Concern
ND	Not Declared
VALCO	Volta Aluminium Company Limited

VERSION HISTORY

Original Version of the EPD, 2025-12-01



REFERENCES

01

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APPENDIX

ENVIRONMENTAL IMPACTS, CML INDICATORS/ ISO21930

PARAMETER	UNIT	Upstream	Core	TOTAL
Global warming (GWP100a)	kg CO ₂ eq	2.84E+00	1.17E+01	1.45E+01
Ozone layer depletion (ODP)	kg CFC-11 eq	6.86E-08	1.54E-07	2.23E-07
Acidification	kg SO ₂ eq	2.48E-02	9.77E+00	9.79E+00
Eutrophication	kg PO ₄ --- eq	8.11E-03	1.52E+00	1.53E+00
Photochemical oxidation	kg C ₂ H ₄ eq	9.47E-04	1.76E+02	1.76E+02
Abiotic depletion	kg Sb eq	3.99E-06	3.06E-06	7.05E-06
Abiotic depletion (fossil fuels)	MJ	5.67E+01	1.26E+02	1.82E+02
Fresh water aquatic ecotox.	kg 1,4-DB eq	1.30E+01	9.97E-01	1.40E+01
Human toxicity	kg 1,4-DB eq	1.17E+01	8.51E+01	9.68E+01
Terrestrial ecotoxicity	kg 1,4-DB eq	4.65E-02	4.72E-02	9.37E-02
Marine aquatic ecotoxicity	kg 1,4-DB eq	1.57E+04	2.99E+03	1.87E+04

APPENDIX

ISO CERTIFICATE

Certificate GH15/2045

The management system of

VOLTA ALUMINIUM COMPANY LTD.

SGS

Plot #20, Heavy Industrial Area, P.O. Box CO 825, Tema, Ghana

has been assessed and certified as meeting the requirements of
ISO 9001:2015

For the following activities

Production of high quality primary aluminium, and other value added products such as extrusion billet, rolling slabs and foundry ingots for the International and Ghanaian market

This certificate is valid from 26 August 2024 until 26 August 2027 and remains valid subject to satisfactory surveillance audits.

Issue 4. Certified since 26 August 2015

Jonathan H. Hall

Authorised by

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Global Head - Certification
Services

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APPENDIX

ENVIRONMENTAL COMPLIANCE CERTIFICATE



APPENDIX

FIRE CERTIFICATE

0029395  HIGH RISK

GHANA NATIONAL FIRE SERVICE

FIRE CERTIFICATE

This is to certify that

house number _____ of HEAVY IND. AREA, TEMA has been issued
with Fire Certificate for use as POW (SMELTER OPERATION) VOLTA ALUMINIUM COMPANY
LIMITED- VALCO

Having upon inspection satisfied the following requirement as Fire Safety:

Means of Escape		
Type	Number	Location
a) MAIN EXIT	A O D	A O D
b) GFN	4	
c) EDS	10	
d) EE/EL	2/10	

Fire Fighting Equipment		
Type	Number	Location
a) CO2 (5KG)	186	
b) DP (10KG)	122	
c)		
d)		

Fire Hydrant/Source of Water Supply

HYDRANT - WITHIN THE PREMISES
ALTERNATIVE SOURCE O WATER- WATER TANK (1,00OLTS)

Warning Device(s)		
Type	Number	Location
a) DS (E)	16	
b) CPT	10	
c) SDER	10	
d) CP	2	

TC16060A THIS CERTIFICATE IS VALID FOR TWELVE MONTHS

Dated this 30TH day of JUNE 20 25


DCFO LILY ASHONG ROBERTSON
for CHIEF FIRE OFFICER



