

VERIFICATION STATEMENT

2021 July 09
to UC RUSAL
1 Vasilisy Kozhinoy str. Moscow 121096 Russian Federation

TÜV AUSTRIA
CERT GMBH

Register Number:
Vienna / FN 288474 b

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Statement of carbon footprint of aluminium produced by RUSAL

Carbon footprint assessment – level 1*
at KrAZ (OJSC “RUSAL Krasnoyarsk” Reduction area 1-3 (Potrooms 1-23, 26),
40, Pogranichnikov st., Krasnoyarsk, Russian Federation)

An assessment of carbon footprint of aluminium produced in the above mentioned plant has been conducted using the following standards and guidelines:
ISO 14067:2018 (GHG- Carbon footprint of products – requirements and guidelines for quantification and communication),
the «Aluminium Carbon Footprint Technical Support Document», V1.0-Feb 2018, prepared by the International Aluminium Institute

The assessment has resulted in the carbon footprint, level 1, of:

2,3 ton CO₂ eq/ton Al

We hereby confirm that TÜV Austria has verified the assessment of the carbon footprint as of 09/07/2021. It is valid until 31st December 2022.

**The level 1 includes emissions from aluminium electrolysis, aluminium ingot casting, anode/paste production as well as electricity generation and heat production associated with these processes. For more information about the methodology see the [IAI guidelines](#).*

The GWP was calculated according to IPCC 100-year baseline 2007 version in coherence with other national level carbon calculations. Specific GHGs emissions related to biogenic, land use change, and aircraft are equal to zero.

Dmitry I. Yartsev, Dipl. Eng.
Regional Director, CIS

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Statement of carbon footprint of aluminium produced by RUSAL

Carbon footprint assessment – level 3*
at KrAZ (OJSC “RUSAL Krasnoyarsk” Reduction area 1-3 (Potrooms 1-23, 26),
40, Pogranichnikov st., Krasnoyarsk, Russian Federation)

An assessment of carbon footprint of aluminium produced in the above mentioned plant has been conducted using the following standards and guidelines:
ISO 14067:2018 (GHG- Carbon footprint of products – requirements and guidelines for quantification and communication),
the «Aluminium Carbon Footprint Technical Support Document», V1.0-Feb 2018, prepared by the International Aluminium Institute

The assessment has resulted in the carbon footprint, level 3, of:

12,6 ton CO₂ eq/ton Al

We hereby confirm that TÜV Austria has verified the assessment of the carbon footprint as of 09/07/2021. It is valid until 31st December 2021.

**The level 3 is a complete cradle to gate carbon footprint of aluminium ingot, which includes all GHG emissions from bauxite mining, alumina production, carbon anode production, aluminium electrolysis and ingot casting processes, raw material transport, electricity & heat generation, aluminium dross processing, as well as ancillary materials and fuels required for primary aluminium production. For more information about the methodology see the [IAI guidelines](#).*

The GWP was calculated according to IPCC 100-year baseline 2007 version in coherence with other national level carbon calculations. Specific GHGs emissions related to biogenic, land use change, and aircraft are equal to zero.

Dmitry I. Yartsev, Dipl. Eng.
Regional Director, CIS

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Statement of origin of the electricity

Energy Management Assessment of KrAZ (OJSC "RUSAL Krasnoyarsk" Reduction area 1-3 (Potrooms 1-23, 26), 40, Pogranichnikov st., Krasnoyarsk, Russian Federation)

We hereby confirm that an assessment of the Scope 2 GHG emissions of the above mentioned plant against the GHG Protocol Scope 2 Guidance (an amendment to the GHG Protocol Corporate Standard) has been conducted.

The assessment has resulted in a report containing fact-based evidence of energy used for the scope of primary aluminium production, and it supports that the smelter's energy use is:

98,6% of hydro energy
1,4% of thermal energy



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