

# Al\ow

# ALLOW, low-carbon aluminium Journey towards net zero

Russo-Italian Aluminium Forum 24 June 2021





# RUSAL is the largest producer of low-carbon aluminium in the world



### 74% of global primary alumunium is produced with non-renewable energy Alu industry contributes to over 1% of the world GHG emissions



# The new reality: businesses accelerate their carbon emissions reduction, from producers to consumers

New regulations are coming. Consumers take serious commitments to reduce their supply-chain emissions



#### **Paris Climate Agreement – implementation**

Latest UNFCCC scientific report createda new sense of URGENCY



**EU Green Deal** 

- EU emissions trading system (ETS)
- EU border carbon adjustment scheme (CBTA)
  - End of Life Recycling directives
    - New Green deal



### China committed to greener industry

• China to move 2 million tons of production to hydro-based regions (Sichuan, Yunnan). Potential to produce 8 millions tons of alu of LCA

# Smelters using hydro power, generate 7 times less emissions than coal based smelters



Carbon footprint t  $CO_2$  eq./ t al (smelter, Scope 1 & 2)\*

### World primary aluminium production in MT split by energy source\*\* (65 MT in 2020 – projected +40% by 2050)



\* Scope 1 : emissions related to the smelter processes Scope 2: emissions related to the energy supply. \*\*IAI data 2016-2018

# En+ Group/RUSAL is the largest producer of low-carbon aluminium, committed to carbon neutrality by 2050

### Alow Low-carbon Aluminium

ALLOW delivers independently verified carbon footprint statements, traceability to individual smelter of origin, societal benefits for more sustainable future, available worldwide

2030 2050 **ALLOW CARBON** INDUSTRY FOOTPRINT AVERAGE t CO<sub>2e</sub>/t Al, at-CARBON 12.5 -35% 2.4 smelter neutrAl Scope 1&2 IAI Level 1 greenhouse gas emissions reduction for EN+ Group  $t CO_{2e}/t Al,$ full-scope Scope 1, 2, 3 6.4 16.8 ALLEVEL 3 Allow

Group/RUSAL

Science Based target

commit

decarbonisation pathway in line with the

to

а

En+

### RUSAL is committed to transparency and traceability of CO<sub>2</sub> emissions and provides statements of carbon footprint and energy source



Low-carbon aluminium



Smelter emissionsCradle to gateScope 1&2 (level 1 IAI)(level3 IAI)<4</th><8</th>

2.4 0.4

Carbon footprint, T of  $CO_2 eq/T$  of Al

- Supplied by RUSAL, the world's largest low carbon aluminium producer
- RUSAL produces 25% of the world hydro powered aluminium
- RUSAL aims to produce all of its aluminium with 95% carbon free energy by 2025
- ALLOW by RUSAL is available worldwide

#### **Carbon footprint**



- Verification of carbon footprint by the 3rd party
- Guaranteed CO2 footprint and secured by contract
- Traceable to a single smelter
- RUSAL promotes CO2 transparency across the value chain

### RUSAL is committed to the Aluminium Stewardship Initiative

ASI is the only recognized sustainability standard of the aluminium industry covering the full spectrum of environmental, social, and governance aspects.

#### Audit scope of supply chain activities:



Nine RUSAL facilities have been certified to the ASI Performance Standard and Chain-of-Custody Standard: IrKAZ, BoAZ, BrAZ, KrAZ, KUBAL, SAZ, Boksit Timana (bauxite mining), UAZ (alumina refining). Work to certify further facilities continues.

> Certificates can be downloaded from: <u>https://aluminium-stewardship.org/about-asi/asi-members/uc-rusal</u> or <u>https://rusal.ru/en/clients/product-quality/</u>



### Allow

# Alow

# aluminium crafted by hydro power



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