

## CARBON FOOTPRINT QUANTIFICATION

In 2024 Assisi Recycling Maclodio Spa management, considering the importance given to the environmental sustainability, decided to quantify its own environmental impact, in relation to the "climate change" topic.

In this regard, the Company increased the **Organization Carbon Footprint** quantification, concerning the activities done during the year 2023, in accordance with the UNI EN ISO 14064:2019-1.

Thanks to this study, the Company has been able to quantify the GHG emissions related to the Upstream and Downstream activities of Assisi Recycling Maclodio Spa production process.

The final result of GHG emissions for Assisi Recycling Maclodio Spa stands as **52484,2 tCO<sub>2</sub>eq** which, compared to the 2023 Aluminium production, leads to an impact of **1,62 kg CO<sub>2</sub>/kg** on the produced Aluminium.

Basing on this analysis, in order to improve Assisi Recycling Maclodio Spa production process, the Company determined the data of the aluminium production process' impact with the **Gate-to-Gate approach** (calculation of emissions connected to the Core process intermediate phase, from the plant way in to the plant way out).

The outcome of this analysis results to be **0,342 kgCO<sub>2</sub>eq/kg** of the produced Aluminium.

To estimate this value, the Company had to consider the impacts of the emissions related to: raw material and alloying agents in-going transportation, power consumption and waste disposal. To obtain the required data, it was necessary to calculate the ratio between the total amount of the above-mentioned emissions and the total amount of the produced Aluminium.

The obtained value resulted to be fulfilling for the Company, due to the fact that the **European recycled Aluminium average is 0,5 kgCO<sub>2</sub>eq/kg**.

Despite the great achievement, Assisi Recycling Maclodio Spa management is focused on the further reduction of this data, primarily working on the activities with higher GHG emissions.

<sup>1</sup> Data source: EA Circular Aluminium Action Plan 2020