



Brief information | Climate action

With this brief information, TRIMET Aluminium SE would like to give you an overview on the topics of sustainability and CO₂ emissions at the Essen location. TRIMET is committed to social and environmental responsibility. The company plays its part in creating an economy that is fit for the future. Production processes and corporate operations pursue **the principle of sustainability** as defined by the United Nations in its 17 Sustainable Development Goals.

In order to fulfill the Corporate Policy and the objectives derived from it, TRIMET is certified according to the following standards at the Essen location:

DIN EN ISO 50001:2018 | DIN EN ISO 14001:2015 | IATF 16949:2016

TRIMET is a member of the Aluminium Stewardship Initiative (ASI). As an independent family business with a long-term focus, it actively contributes to the future development of ASI standards. <https://bit.ly/3IU0AyW>

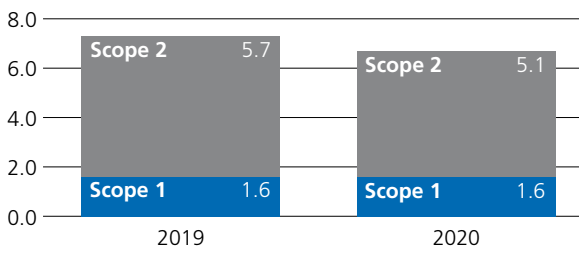


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In this way, we are already supplying our customers with aluminum products with a low CO₂ footprint. The emissions of CO₂ equivalents from our four aluminum smelters are on average at 5,7 metric tons per ton of aluminum*. This includes direct emissions from production (Scope 1) and indirect emissions from power generation (Scope 2). TRIMET is among the third of aluminum smelters worldwide with the lowest CO₂ footprint. Our sites are already meeting the CO₂ requirements of the Aluminum Stewardship Initiative (ASI) for the year 2030 today.

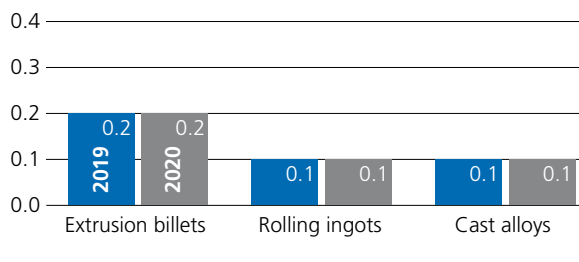
The specific CO₂ emissions of the electrolysis process at the Essen site consisting of Scope 1 + 2 are in total in 2019 at 7,3 and in 2020 at 6,7 t CO₂/t Al*. A CO₂ factor of the German electricity mix of 0,408 for 2019 and 0,366 t CO₂/MWh for 2020 was used**.

Electrolysis CO₂e emissions | t CO₂e/t Al



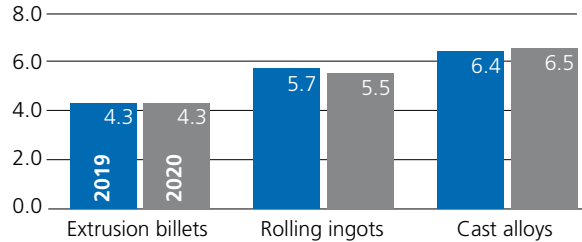
The specific CO₂ emissions of the casthouse at the Essen site – based on the finished product – are as follows.

Foundry CO₂ emissions | t CO₂/t Al per product group



Even during the coronavirus crisis, our focus remains on giving our customers supply security by continuing production. The specific CO₂ emissions in the product groups, taking into account the use of electrolysis metal, are shown in the following diagram.

CO₂e emissions (Scope 1 and 2) | t CO₂e/t Al per product group, incl. electrolysis metal



Using scrap in our alloys is an important component in supporting the circular economy. For example, the proportion of scrap used in our extrusion billets totals over 90 percent at its peak. In addition to process-related scrap from the foundry, this primarily includes recycled scrap from customers.

In the area of primary aluminium production, TRIMET is conducting research into the “virtual battery” to make the production process more flexible and also make a significant contribution to securing the energy supply and bringing about the energy transition. This project has been awarded a prize by the KlimaExpo.NRW initiative, among others. As part of a cooperation partnership, TRIMET is supporting research work on the use of inert anodes with the aim of preventing direct process emissions. There are also projects focusing on how to extract CO₂-free waste heat from its processes.

* The basis for calculating Scope 2 emissions is the smelter process electricity (DC).

** The values of 0,408 for 2019 and 0,366 t CO₂/MWh for 2020 are preliminary values from the German Federal Environment Agency (UBA)