



Brief information on sustainability

With this brief information, TRIMET Aluminium SE would like to give you an overview on the topics sustainability, CO₂ emissions and scrap quotas at the Essen location. A responsible approach to protecting our environment and its raw material and energy resources is a basic principle behind all our company's activities. Our actions are based on the Corporate Policy, which can be viewed at the following address: <https://bit.ly/2JPyMcY>

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:
IATF 16949:2016 | DIN EN ISO 50001:2011 | DIN EN ISO 14001:2015

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/2XhqqTp>



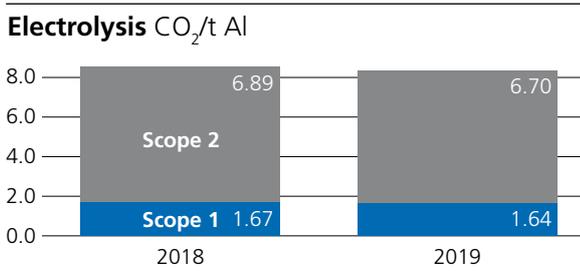
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TRIMET is committed to human rights and has laid down these principles in its Code of Human Rights. This includes principles for employees, local residents of production sites and suppliers. Further information is available at <https://bit.ly/3e1ch2B>

TRIMET is also a member of the universally recognized compliance initiative of the Association for Supply Chain Management, Procurement and Logistics (BME). We participate in an annual self-declaration procedure. Further information is available at the following address: <https://bit.ly/2yEuUZH>

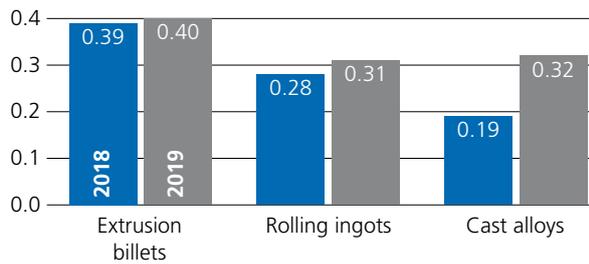
In the field of primary aluminium production, TRIMET is conducting research on the “virtual battery” to ensure a more flexible production process. Through targeted demand side management, it makes a significant contribution to securing the energy supply and thus implementing the energy system transformation. This project has received several awards, including official inclusion in Klima-Expo.NRW’s “1,000 Steps into the Future”. Within the framework of a research cooperation, TRIMET supports research efforts on the use of inert anodes in primary aluminium production to avoid direct process emissions and is also planning concrete projects to extract CO₂-free waste heat from its processes.

The specific CO₂ emissions from electrolysis consisting of Scope 1 and 2 total approximately 8.0 t CO₂/t Al. The CO₂ factor from the German electricity mix of 0.474 t CO₂/MWh for 2018 and 0.465 t CO₂/MWh* for 2019 was employed. The specific CO₂ emissions per ton of solid metal in the foundry are shown in Figure 2.



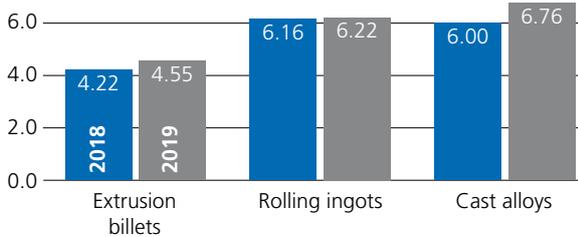
* The figure 0.465 t CO₂/MWh for 2019 is a provisional assumption, as the Federal Environment Agency will not announce official figures until 2020

Foundry CO₂/t solid metal



Taking the specific CO₂ emissions from electrolysis into account, the specific CO₂ emissions in the product groups, including the use of electrolysis metal, are shown in figure 3. The increase results from a lower foundry production with constant use of electrolysis metal.

CO₂ emissions (Scope 1+2) per product group incl. electrolysis metal in CO₂/t Al



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. Figure 4 shows the average scrap rates in the various product groups for 2018 and 2019. In addition to process-related scrap from the foundry, this primarily includes recycled scrap from customers.

Scrap quotas per product group in percent

