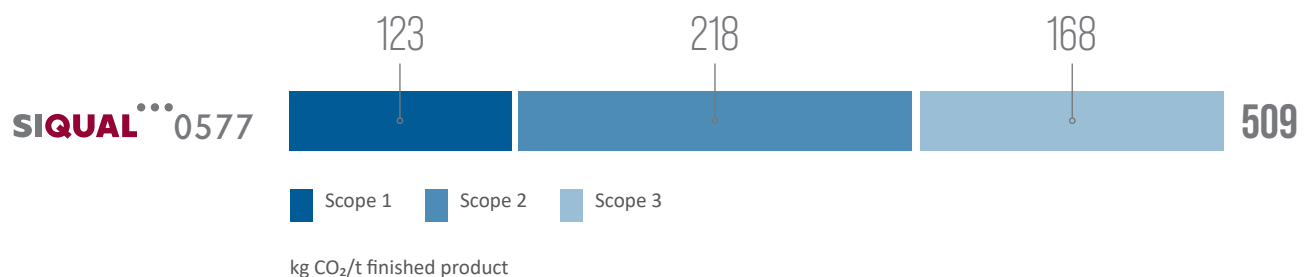


SIQUAL 0577: Life Cycle Assessment

The LCA analysis was conducted in accordance with ISO 14040 and ISO 14044, using a 'cradle-to-gate' approach, based on data collected for the reference year 2023, with 1000 kg of product as the functional unit.

Emissions Full scope 1 - 3

Thanks to using recycled input material, our Scope 1 has always been among the lowest worldwide. Now, our efforts are focused on lowering our Scopes 2 and 3. We are proud to say that we can offer a sustainable line of SIQUAL 0577 structural steel produced with purely renewable energy sources.



Scrap ratio

While we never use iron ore or pig iron, we do have to add some pure alloying elements to our steel products to guarantee the required chemical composition. We minimise this amount of raw materials by carefully sorting and selecting our steel scrap to come as close as possible to the desired chemical composition with recycled material. See how much scrap was used on average in our SIQUAL 0577 structural steel products in 2023.

Recycled steel scrap

95-97

percent

Other materials

3-5

percent

Iron ore

0

percent

More than 35 years of sustainable steel production

Back in 1987, SIJ Acroni shut down the last blast furnaces and shifted to solely using an electric arc furnace. For almost four decades, we have been recycling steel scrap into high-quality steel products. With the dedication to quality and sustainability, we gathered extensive experience which guarantee top quality of even the most demanding steel products.

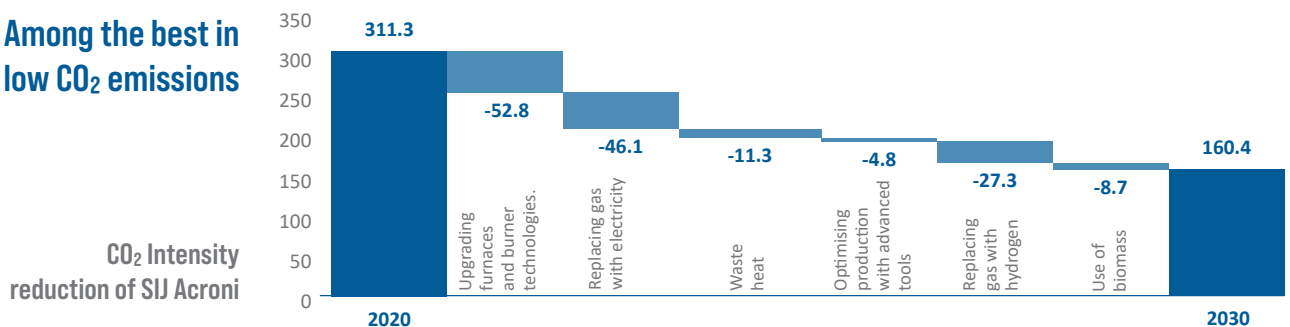
Proud recipient of the ResponsibleSteel certification

Our efforts have been recognised. As part of SIJ Group, we have received ResponsibleSteel certification and placed Slovenia on the global map of sustainable steel production. This achievement underscores our unwavering dedication to environmental stewardship, community engagement, and the well-being of our workforce. Among the few steel groups worldwide to attain this certification, we stand as pioneers in forging a greener, more responsible future for the industry. Less than 7 % of world steel is produced by ResponsibleSteel certified steel plants.

Among the best in low CO₂ emissions

With specific emissions of 267 kg CO₂/t crude steel (Scope 1) and a total of 1279 kg CO₂/t crude steel (Scopes 1+2+3) in 2023, SIJ Acroni ranks among the world's most efficient steel producers on CO₂ emissions intensity according to World Steel Association.

Among the best in low CO₂ emissions



OUR GOAL IS TO ACHIEVE NET ZERO EMISSIONS BY 2050

100 % of our steel is made from recycled steel scrap in an electric arc furnace. We use magnetic separation to purify and increase the quality of scrap. This helps us reduce our environmental impact and increase the quality of the final product.

98 % of waste generated during our production process is **recycled or otherwise reused**.

100 % of our steel can be **endlessly recycled**.

The data provided in this document is the result of internal life cycle analysis (LCA) conducted in alignment with the principles and framework outlined in ISO 14040 and ISO 14044 standards. Please note that the findings have not yet undergone independent third-party verification.