

Decarbonization Roadmap

Scopes 1+2



Planned CO₂ reduction **2021**

2030

Circular & Biogenic Materials

The use of substitute materials in our Electric Arc Furnaces as a replacement for fossil carbon

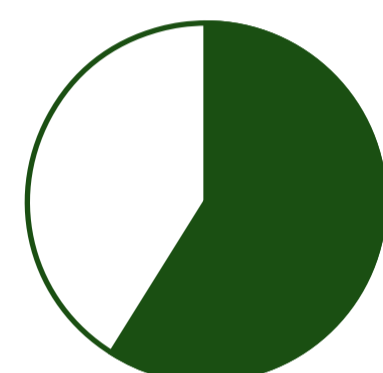


Carbon substitution 2025

Pilot trials with secondary alternatives.

Low-Carbon Electrical Energy

Purchasing electrical energy from renewable or low-carbon sources over fossil sources



Renewable energy consortium 2024 – 2030

An initiative with about 20 other partners to build, operate and utilize renewable electrical energy (PV/Wind) in Germany.

Renewable gases

Switching from natural gas to hydrogen or biomethan



Hydreams 2023 – 2028

Multi-year EU research project that investigates hydrogen-oxycombustion and its impact on steel and equipment.

Electrification

Switching installations and vehicles from fossil fuels to electrical energy



Hybrid rolling mill furnace Ugine 2025 – 2029

Switching the first zones of the existing furnace from natural gas to electrical energy.

Electric forge furnace Sorel 2025

Switching a natural gas-fired forge furnace to electrical energy.

Electric heat treatment furnace Hagen 2026

Replacement of a natural gas-fired heat treatment furnace with an electric one.

Efficiency

Increasing our efficiency through digital transformation, improvement programs and investments



Rolling mill furnace Emmenbrücke 2021

Replacement of the walking beam furnace with state-of-the-art furnace and induction heating.

MES Ugine 2021 – 2030

Modernization of the manufacturing execution system.

Forge press Sorel 2024

Replacement of the forge press with state-of-the-art equipment.

Scope 1 Scope 2 Scopes 1+2

Lighthouse projects (excerpt)

