



Our vision is to become a leading supplier of energy efficient and circular solution for the production of fossil- and CO₂- free metals.

About GreenIron

GreenIron's higher purpose is to contribute to a significant reduction in carbon dioxide emissions from the production of iron, steel and non-ferrous metals. We want to create a completely fossil-free value chain – from the extraction of ore to the production of steel and various metals. We strongly believe that there is a great need for our pioneering and patented technology to enable the mining and metals industry is to reduce its climate footprint.

GreenIron is a recently formed Swedish company. The ownership group has broad industrial and international experience. Our patented, scalable cutting-edge technology is best summed up like this:

*An energy-efficient production process for the sustainable recycling of iron-based residues, waste and other metal oxides to produce pure metals and to be used in the production of steel. The technology also enables the processing of virgin raw materials such as iron ore and others.
The process is hydrogen-based and thus 100 percent carbon dioxide-free.*

We expect to be up and running by Q3 2023 with our full-scale production site in Sweden. The site will be the starting point for industrializing, commercializing and distributing our technology on a global market. Our mission is to create a better and more sustainable world for future generations.

Our Value Proposition:

Our cutting-edge technology is the optimal CO₂- and fossil-free solution to recapture valuable commodities from residues and waste from the mining, steel and manufacturing industry including incinerator waste.

- Low capital investment
- Fast payback time on investment
- Energy effective with low operational cost
- Energy and cost-efficient production of pellets to be used as input
- Low maintenance cost
- All hydrogen introduced to the process will be converted to H₂O (it is a stoichiometric process)
- No exposure or costs related to emission rights

MORE CIRCULARITY. LESS MINING

THE FOSSIL-FREE PROCESS - FROM ORE AND RESIDUALS TO METALS – INTO A CIRCULAR WORLD

Sustainability

- Zero emissions (CO₂ or other)
- Only water and reduced metal as output
- Enables efficient recycling of waste and residual products such as oxidized scale and grinding swarf
- Allows for sustainable production of iron as a substitute for scrap in steelmaking and pig iron for foundries
- Support a drastic reduction of waste in landfills while recapturing valuable commodities
- The small-scale solution allows for locally placed furnaces, thus reducing the need for transportation

Flexibility

- Small scale
- Modular and infinitely scalable and fast to market
- GreenIron's solution can be tailor-made on site - eliminate unnecessary transport
- Can produce unique metal compositions in variable amounts with ease