

Success Case Factsheet

Ebroacero S.A. steel industry

Key information

Several environmental actions and measurements undertaken by Ebroacero

CompanyS.A.

Founded: 1963

Located: Zaragoza, Spain

Products used in: cement plants, renewable energy plants, to siderurgical plants

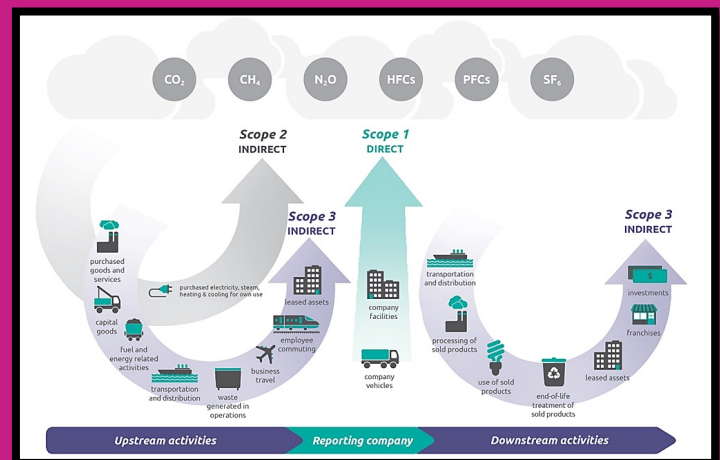
Target: Reduce CO₂ emissions. by 46,81 ton/year

Current emissions at Ebroacero: 936,18 tCO₂eq



Renewable technology implementation & The company's decarbonisation activities

- ❖ **Main action in 2021:** Agreement with **Solarfarm** for the installation of **PV solar cells**. **First project target:** establish 186,84Wp for renewable electricity self-consumption.
- ❖ **Power production:** ~207.254 kWh/year, 4-5% of overall power consumption
- ❖ **CO₂ emissions avoidance:** 46,81 ton CO₂eq
- ❖ **PV technology:** LONGi solar Hi-MO 5, featuring frontal power of 540W via two-fold glass cells
- ❖ **Project economics**
 - **Investment:** 150.000€
 - **Return of investment:** 6years
- ❖ **Challenges**
 - The factory's large age
 - Substitution of uralite walls is limiting a successful demo



Company's activity carbon footprint by ECODES

3 scopes (GHG emissions) were assessed :

- I. due to **Natural gas** and **other fossil fuels**;
- II. due to **Electricity use** of the different facilities;
- III. GHG emissions allocated under **water, paper consumptions, waste production, journeys, mobility and diets of staff.**

Scope	Ton CO ₂ -eq
I	1.434,50
II	936,18
III	209,51
Sum	2.580,19

Build a **solar farm** on a nearby available area located in the same industrial park, where Ebroacero facilities are located. The new solar farm might have a projected power of about 930 kWp generating up to 1,270,000 kWh/year for self-consumption **Additional installation of PV cells** on the available plant roof that might produce up to 890.53 kWp.

Electrical energy production: ~ 1,215 MWh.

Main challenge: The adaptation of the roofs prior to the installation of the plates would entail a high cost.



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Success cases can be found in the interactive mapping tool

