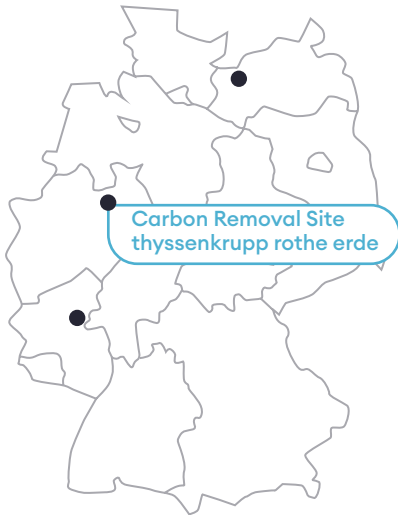


## Fact Sheet 2023

### Our production sites:



### Key facts

**Commissioning:** 11/22

**Location:**

Lippstadt, Germany

**Technology:** 1x PYREG PX1,500

**Runtime:**

7,500 hours p.a.

**Biomass:**

3,000 - 3,500 tons p.a.

**CDR method:**

Biochar Carbon Removal (BCR)



CEO

Caspar von Ziegner

"Our innovative Carbon Removal Parks combine circular economy with green heat production and can be deployed decentrally in almost any location worldwide."

## Carbon Removal Site thyssenkrupp rothe erde

### Novocarbo drives decarbonization of hard-to-abate industries

We build and operate carbon removal parks worldwide, pursuing the goal of removing 1 million tons of CO<sub>2</sub> from the atmosphere by 2030.

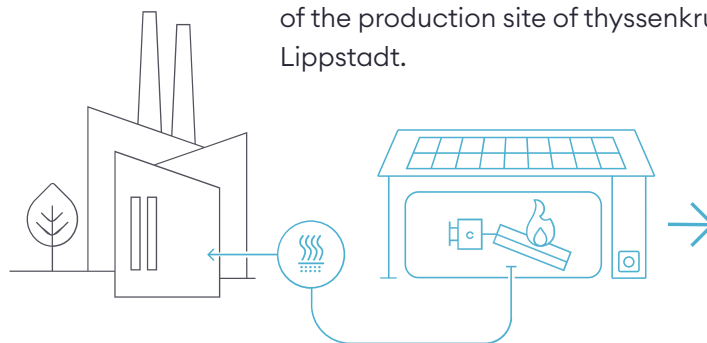
The Carbon Removal Site thyssenkrupp rothe erde in Lippstadt is a unique example of how pyrolysis technology and biochar production can help industrial companies switch from fossil fuels to climate-neutral heat generation.

### Technology

We use state-of-the-art pyrolysis technology to process plant residues into biochar. In the process, the carbon contained in the biomass is captured and permanently stored in the biochar. This technological solution is called Biochar Carbon Removal (BCR).

The pyrolysis process also produces regenerative, climate-neutral surplus energy, which we offer to local companies or municipal utilities in the form of "heat-as-a-service" partnerships.

At this Carbon Removal Site, the generated green exhaust heat is used as hot water for the heating circuit of the production site of thyssenkrupp rothe erde in Lippstadt.



**CO<sub>2</sub>-neutral heat covers 40 % of the heat demand at the site of thyssenkrupp rothe erde in Lippstadt.**

### Products



**~ 850 t of high-quality biochar**

for gardening & landscaping, agriculture, construction or textile industry.



**~ 4,500 MWh of climate-neutral heat**

are produced in the pyrolysis process.



**~ 1,600 t of captured CO<sub>2</sub>**

sold as carbon removal credits.