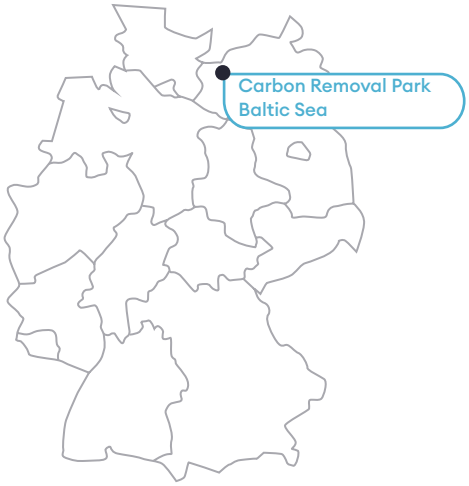
Novocarbo

Fact Sheet 2025

Our production site:



Key facts

Commissioning: Q3 '23

Location:
Grevesmühlen, Germany

Technology: 2x PYREG PX1,500

Runtime:
7,500 hours p.a.

Biomass:
6,500-7,500 tons p.a.

CDR method:
Biochar Carbon Removal (BCR)

CEO
Dr. Karl Kolmsee

"With our Carbon Removal Parks, we are building a new kind of energy infrastructure – one that removes CO_2 while delivering renewable heat to communities and industries."

Carbon Removal Park Baltic Sea

Novocarbo drives decarbonization and the expansion of renewable energies

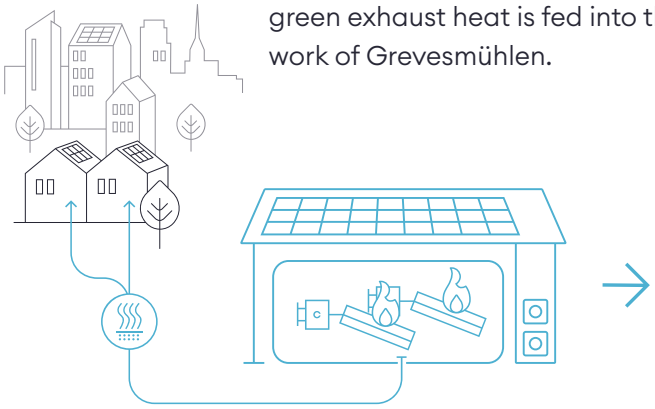
We build and operate carbon removal parks worldwide, pursuing the goal of removing 1 gigaton of CO_2 from the atmosphere by 2050.

The Carbon Removal Park Baltic Sea in the green industrial area north-west in Grevesmühlen (Mecklenburg-Vorpommern, Germany) is our largest site to date and a unique example in Germany of a holistic approach to CO_2 removal and green 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 renewable surplus energy, which we offer to local companies or municipal utilities in the form of "energy-as-a-service" partnerships.



At the Carbon Removal Park Baltic Sea, the generated green exhaust heat is fed into the district heating network of Grevesmühlen.

Renewable heat, increasing the share of renewable energies at Stadtwerke Grevesmühlen from 60 % to 75 %.

Products

~ 1,700 t of high-quality biochar

for gardening & landscaping, agriculture, or construction industry.

~ 6,600 MWh green heat and ~ 1,200 MWh green electricity

are produced in the pyrolysis process and by the PV system.

~ 3,200 t of captured CO2

sold as carbon removal credits.