

Invitation: Opening of the direct reduction plant for "green iron" in Lingen, August 11, 2023 at 11 a.m. Project "GEiSt: Green iron for the steel industry".

Dear Ladies and Gentleman,

decarbonizing the steel industry is one of the biggest challenges in the fight against climate change. At the same time, the iron and steel industry is challenged to develop climate-friendly technologies in order to remain internationally competitive in the face of rising energy and CO2 prices.

With the support of the state of **Lower Saxony** via the **NBank**, **CO2GRAB** / **Hylron** has now succeeded in taking a giant step towards meeting precisely this challenge. With the commissioning of the world's largest direct reduction plant for green iron in a rotary kiln, iron ore is reduced solely with the help of hydrogen, and thus completely climate-neutral.

This innovative process is made possible by the in-house development of a gas-tight rotary kiln. Here, hydrogen reacts completely with the oxygen in the iron ore and converts it into elemental iron ("Direct reduced iron" (DRI)). Instead of carbon dioxide, this technology produces only water vapor, which can be used again for hydrogen production. This water cycle represents a further decisive advantage on the way to sustainable iron production.

The pilot production in Lingen is an important milestone for CO2GRAB / Hylron in bringing the "green iron" product to market maturity and establishing the German technology worldwide. The first Industrial-scale production is currently being set up in Namibia with the support of the German Federal Ministry of Economics and Climate Protection (BMWK). In the long term, up to 2 million tons of iron are to be produced here for the German steel industry. At the Lingen site, iron ore from Namibia is already being used to optimize the process and the "green iron" product.

Within the framework of climate protection agreements, we see the possibility of implementing this technology on a large industrial scale soon, especially at important network hubs such as Lingen.

We would like to invite you to the opening ceremony of the pilot plant in Lingen (Schüttorfer Str. 100, 49808 Lingen) on August 11 at 11 am. You will find the program of the event attached to this invitation. We kindly ask for a short confirmation of your participation to contact@hyiron.com by 01.08.2023.

We look forward to welcoming you in Lingen!

Yours sincerely,

Your team of CO2GRAB / Hylron





Program:

11.00 a.m.: Registration at the gate

11.45 a.m.: Opening and welcome by Christian Meyer, Lower Saxony's Minister of the Environment

12.00 - 14.00: Refreshments, opportunity for a guided tour of the plant



