

## Q&A Simon Kroop

**What is the potential for coke carbon replacement by hydrogen in the carbon steel manufacturing process? In stainless steel? In percentage terms?**

- With hydrogen and the direct reduction route, approx. 95% of today's emissions during the primary steelmaking process can be avoided.

**How have the replacement percentages of CO2 to green H2 evolved in this project?**

- At nominal production rates the High-Temperature Electrolyser of the GrInHy2.0 project will replace 50% of today's hydrogen demand produced from natural gas.

**How would you reach 95% CO2 reduction?**

- We will reach the 95% CO2 reduction by a stepwise transformation of today' carbon-based blast furnace route to a hydrogen-based direct reduction route.

**Do you feel pressure from the automotive sector to reduce your emission on your steel products and are they willing to pay a premium price for low carbon steel?**

- The automotive industry is showing growing interest in the upstream chains of their input materials such as steel. For example, Daimler wants to deliver its vehicles to customers CO2-neutral by 2039, taking upstream supply chains into account. Unfortunately, the growing interest is not yet reflected in the willingness to pay higher prices.

