



RENEWABLES EVERYWHERE

CO₂ Free Energy: The Evolution of Green Hydrogen

AIST European Steel Forum 2021, Virtual Conference, 27/10/2021

Hergen Thore Wolf – Head of Product Management

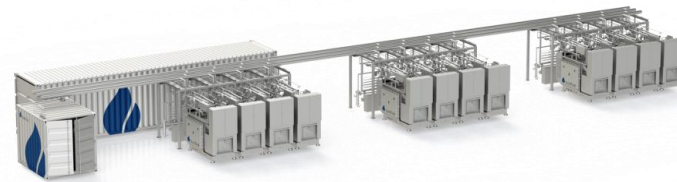
EXECUTIVE SUMMARY

Sunfire is a leading industrial electrolysis company

Solutions & Markets



Alkaline Electrolyzer



Solid Oxide (SOEC) Electrolyzers



Steel



Refineries



Utilities

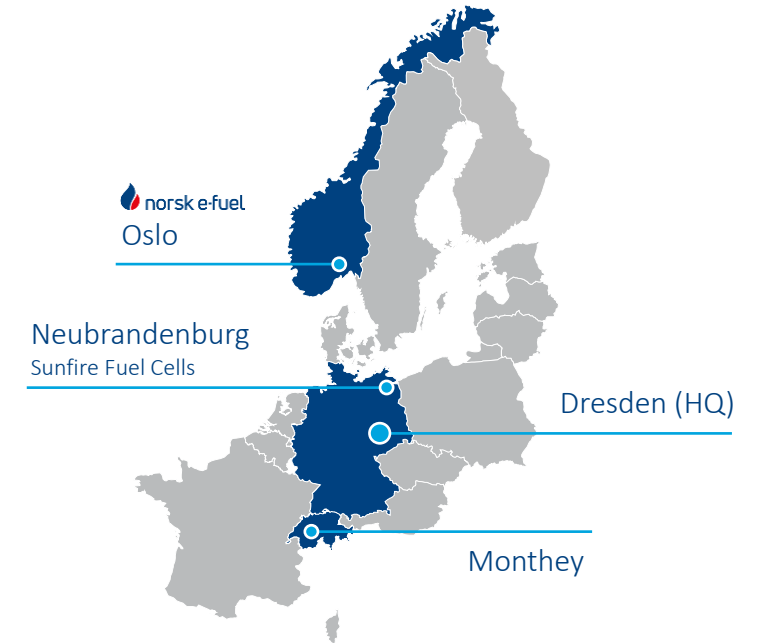


Chemicals



Mobility

Company Sites



> 70
Electrolysis
projects¹⁾

> 250 MW
Installed
capacity¹⁾

100 MW
Largest electrolyzer
installation

> 500 MW/year
Production capacity
as of 2023

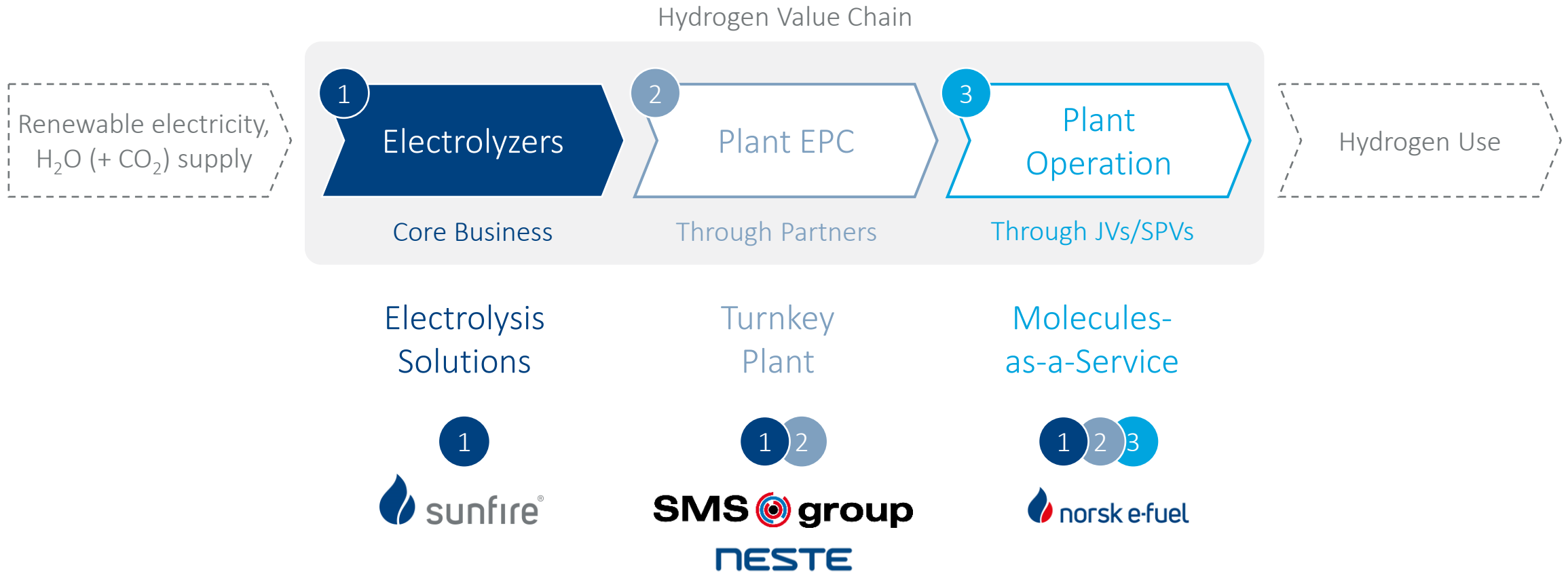
> 270
Talented
employees

> EUR 200 m
Private and public
funding

1) Including projects from predecessor alkaline company "IHT SA" prior to the acquisition by Sunfire

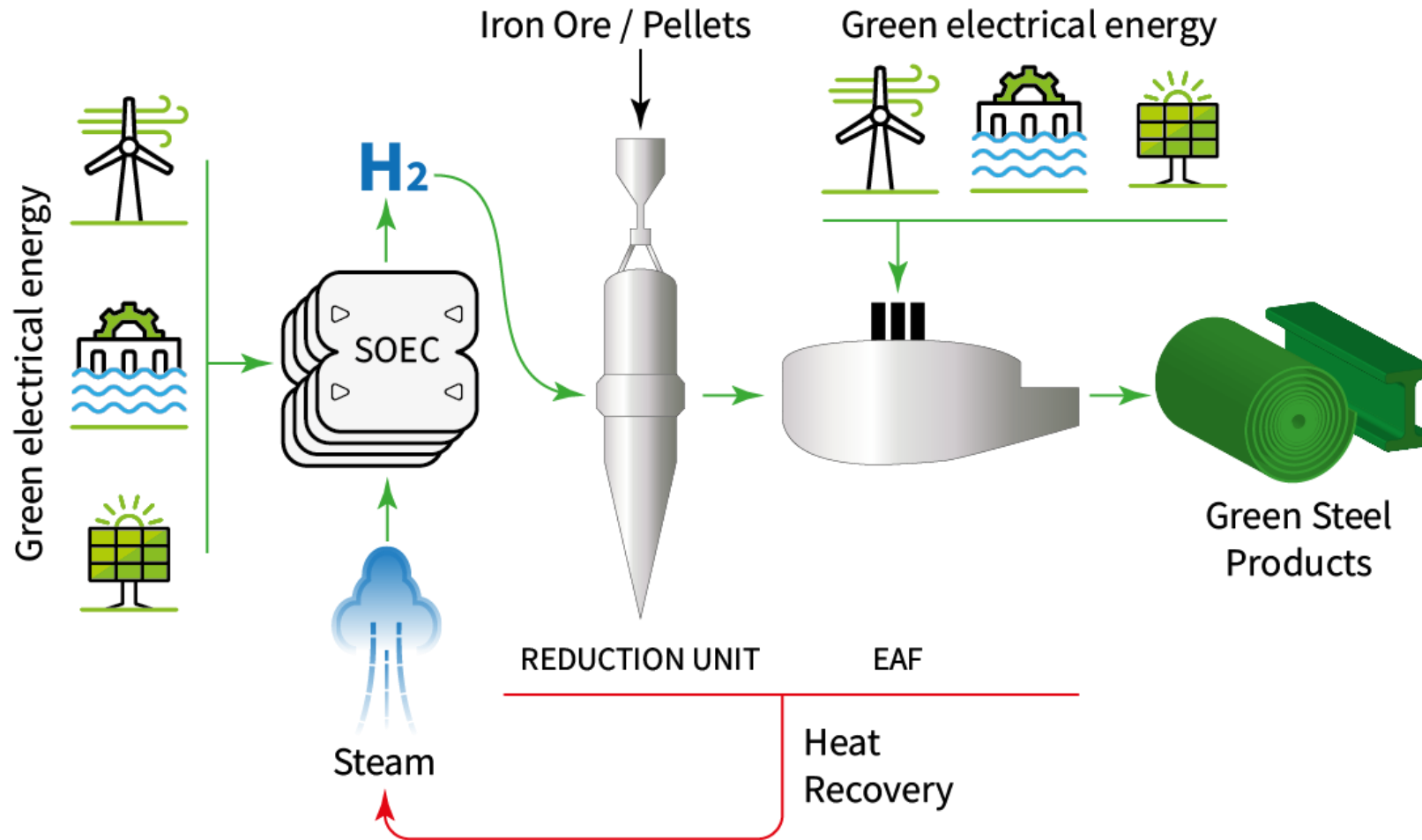
BUSINESS MODEL

From electrolysis equipment to renewable molecules



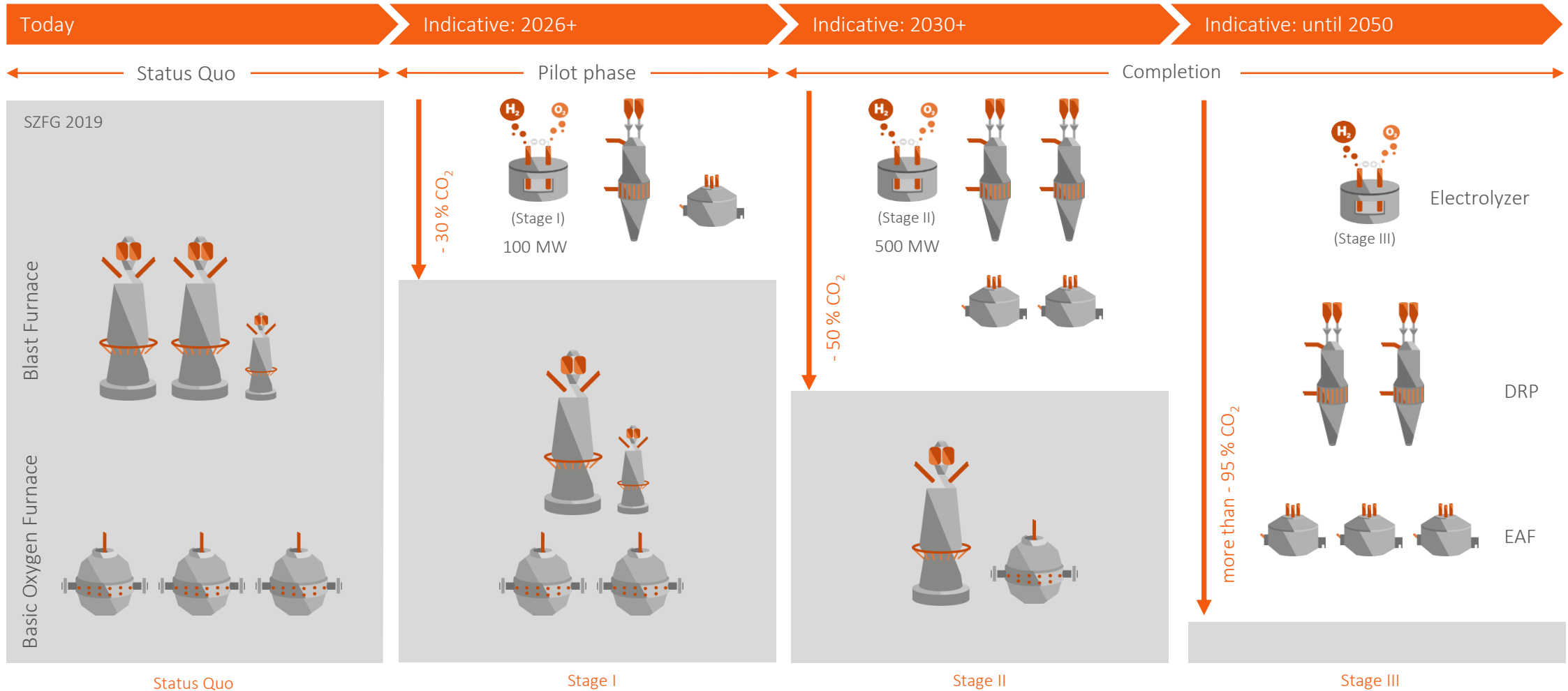
STRATEGIC PARTNERSHIP

Sunfire and SMS Group joined forces in 2019 to jointly build green steel plants



GREEN STEEL

Transformation of integrated steelmaking in several stages



Source: Salzgitter AG

EAF: Electric arc furnace; DRP: Direct Reduction Plant

GRINHY 2.0 PROJECT

Largest demonstration of SOEC electrolyzer in steelworks worldwide



1 MW
HyLink SOEC



Steel
Application



2020
Commissioned

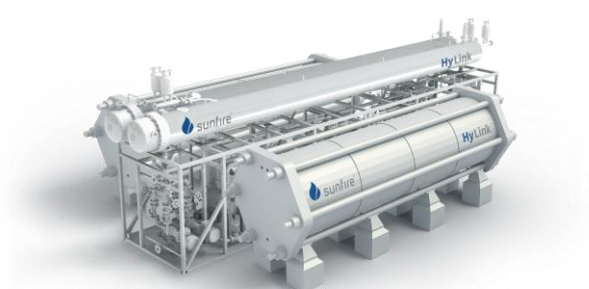
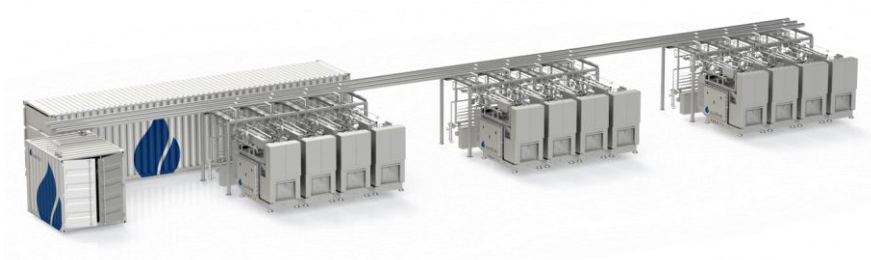
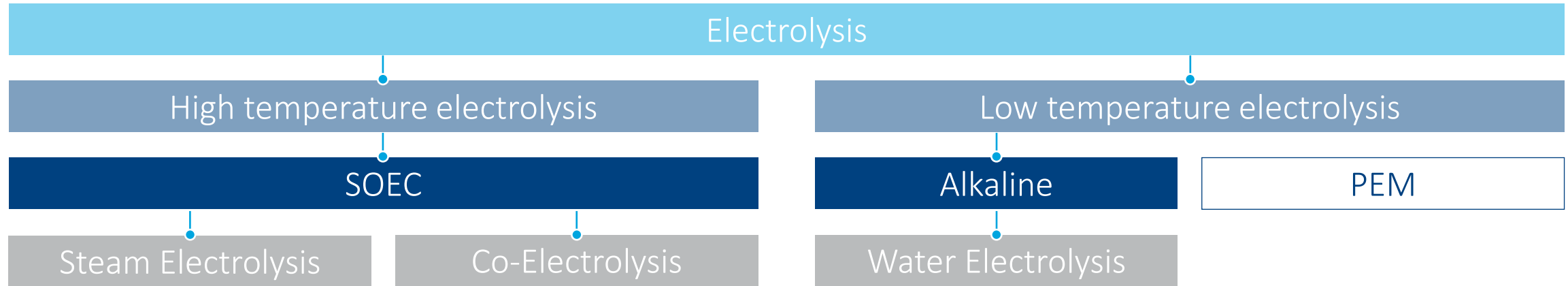


Showcasing renewable hydrogen production via SOEC's steam electrolysis at megawatt-scale, utilizing waste heat from the iron-and-steel works of Salzgitter Flachstahl GmbH.

Note: This project has received funding from the Fuel Cells and Hydrogen 2 Joint Undertaking (JU) under grant agreement No 826350. The JU receives support from the European Union's Horizon 2020 research and innovation programme and Germany, Luxembourg, Italy, France.

PRODUCT PORTFOLIO

Sunfire's electrolyzer portfolio covers SOEC and Alkaline technology



 Sunfire-HyLink SOEC

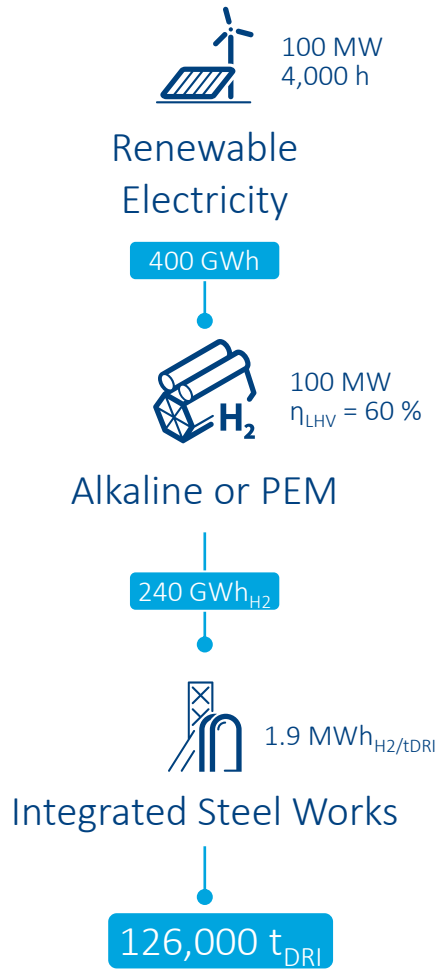
 Sunfire-SynLink SOEC

 Sunfire-HyLink Alkaline

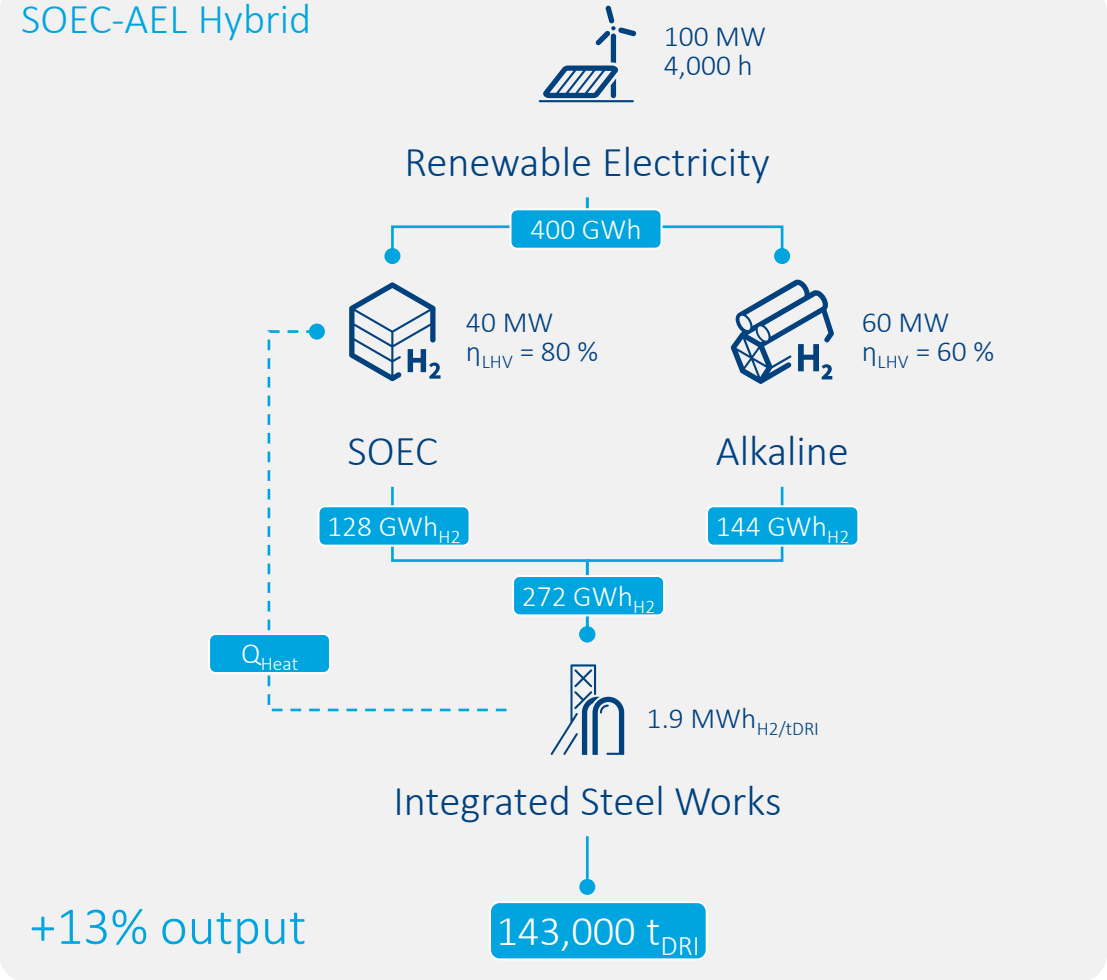
HYBRID ELECTROLYSIS

Substantial efficiency advantage yields 13% more output with same electricity input

Conventional Electrolysis



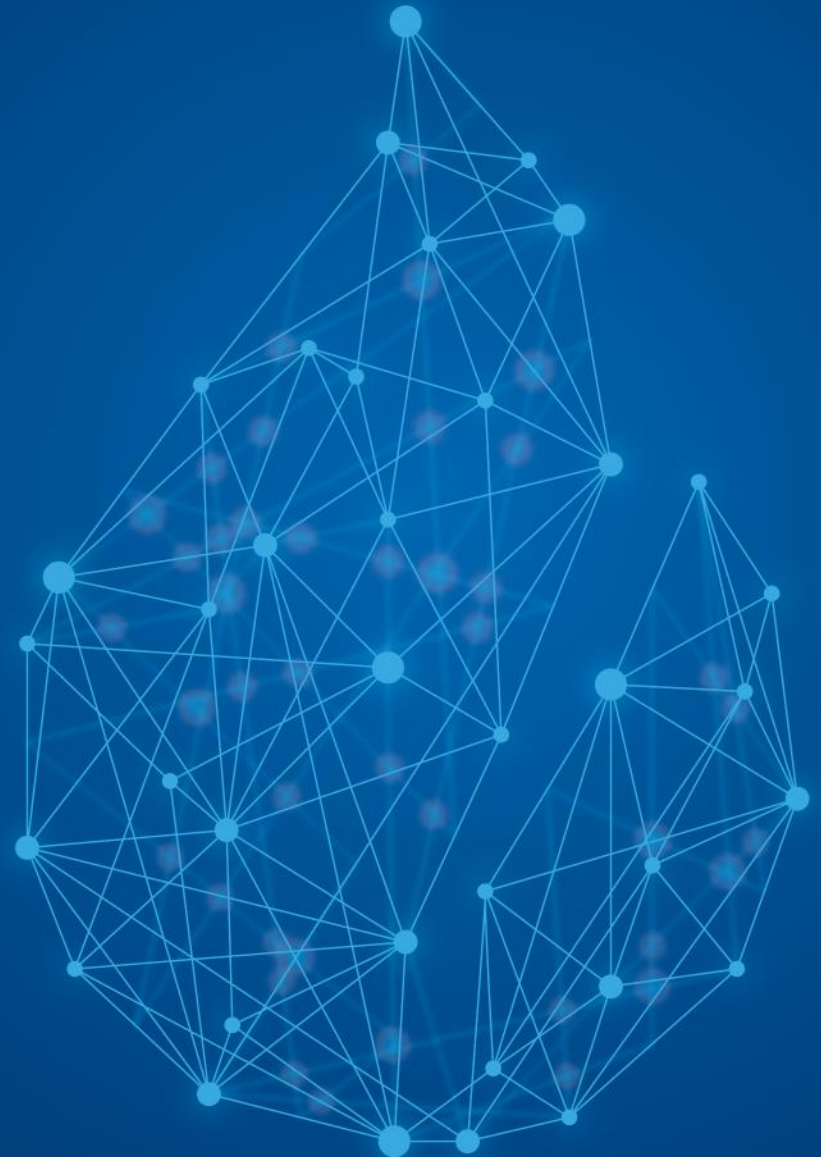
SOEC-AEL Hybrid



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SERIES D ROUND

In October 2021, Sunfire raised EUR 109 million (USD 125 million)



Management (left to right): Stephan Garabet, Bernhard Zwinz, Nils Aldag & Christian von Olshausen

INDUSTRIALIZATION

We increase manufacturing capacity to 500 MW/year by 2023



Sunfire's industrial production facility for alkaline electrolyzers in Germany

500 MW/year

production capacity operational by 2023

Industrial manufacturing

with lean, fully automated processes

Further scaling step to 1 GW/year

already in preparation

Made in Germany

High-quality manufacturing in Germany

Note: The final investment decision should be made upon completion of site selection and is subject to obtaining the necessary financing, including those requested within the IPCEI framework