

A glass sphere floats on a body of water, reflecting the surrounding landscape of hills and a town. The scene is captured in a cool, blue-toned light, likely at dusk or dawn. The water's surface is rippled, and the reflection of the sphere and the landscape is clearly visible below the waterline.

GREEN HYDROGEN & P2X SOLUTIONS

NOVEMBER 2024

WORLD MARKET LEADER WITHIN OUR FOUR STRONG BUSINESS AREAS



ANDRITZ GROUP 2023

Order intake **8,552 MEUR**

Backlog **9,873 MEUR**

Revenue **8,660 MEUR**

EBITA **742 MEUR**

PULP & PAPER



46%*

Revenue 3,987 MEUR



Pulp: **#1**
Paper: **#3**

METALS



21%

Revenue 1,840 MEUR



Forming: **#1**
Processing: **#1-2**

HYDROPOWER



18%

Revenue 1,522 MEUR



#1-2

ENVIRONMENT & ENERGY



15%

Revenue 1,311 MEUR



#1-3

A close-up, high-angle shot of water splashing, creating numerous clear, glistening bubbles of various sizes against a deep blue background. The lighting is bright, highlighting the texture and movement of the water.

GREEN HYDROGEN

ANDRITZ P2X SOLUTIONS

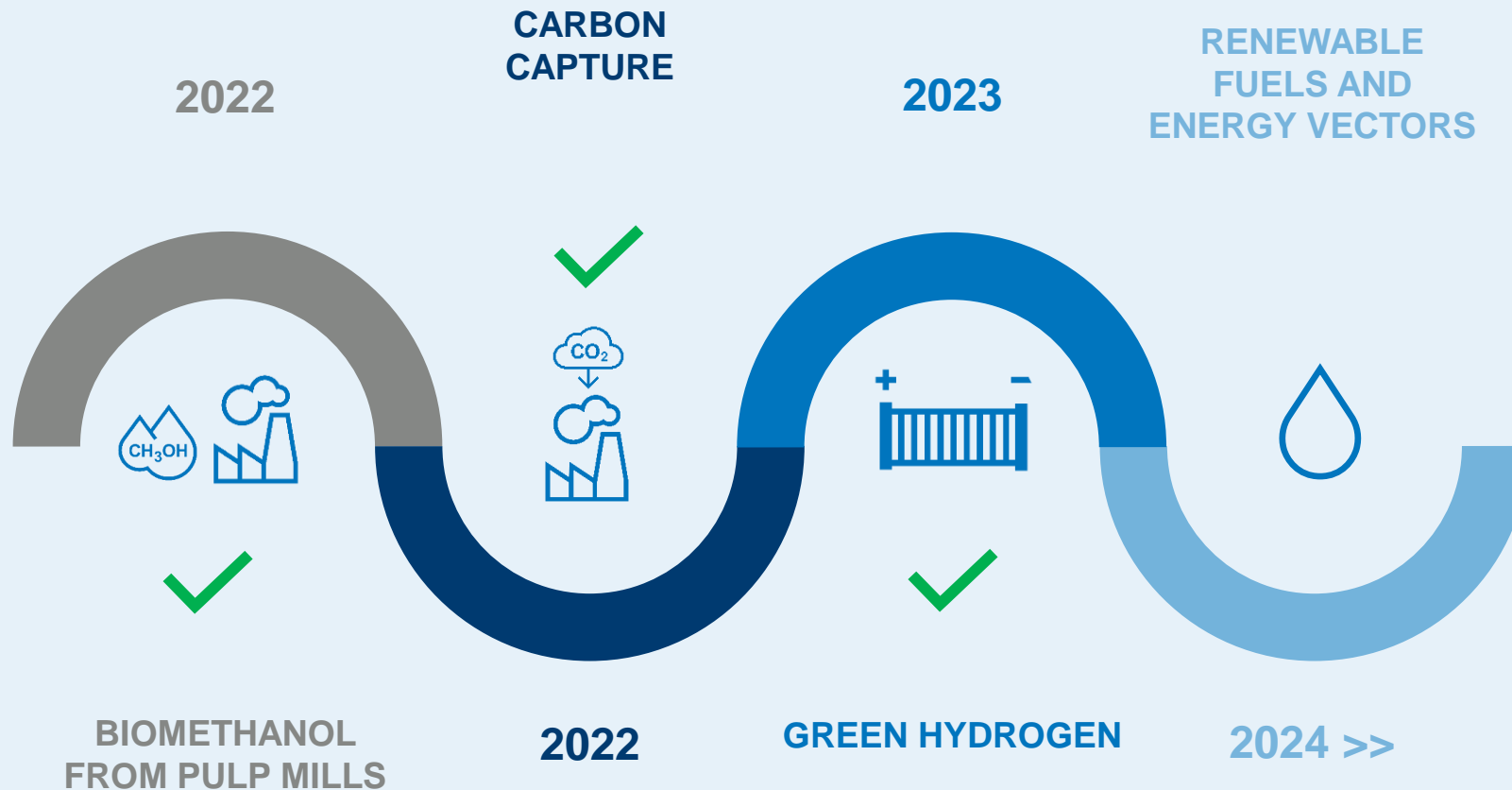
A clear, bright blue sky filled with soft, white cumulus clouds. The perspective is from a low angle, looking up towards the horizon.

CARBON CAPTURE

A composite image showing a white commercial airplane with a yellow tail flying over a body of water. In the foreground, a large cargo ship is visible, its deck stacked with colorful shipping containers. The scene is set against a clear blue sky.

RENEWABLE FUELS

OUR VISION IS TO BECOME A LEADING GLOBAL P2X SOLUTION PROVIDER



OUR P2X OFFERING IS RANGING FROM CONSULTING SERVICES, EPC DELIVERY TO LIFE CYCLE SERVICES



We provide **GreenH2 and Renewable Fuel** plants based on

- Andritz proprietary **CO2 Capture Technology**
- **Alkaline water electrolysis (AEL)** in a partnership with HydrogenPro
- **PEM electrolysis** in a partnership with BOSCH
- **Methanol and ammonia** syntheses in partnerships with established licensors

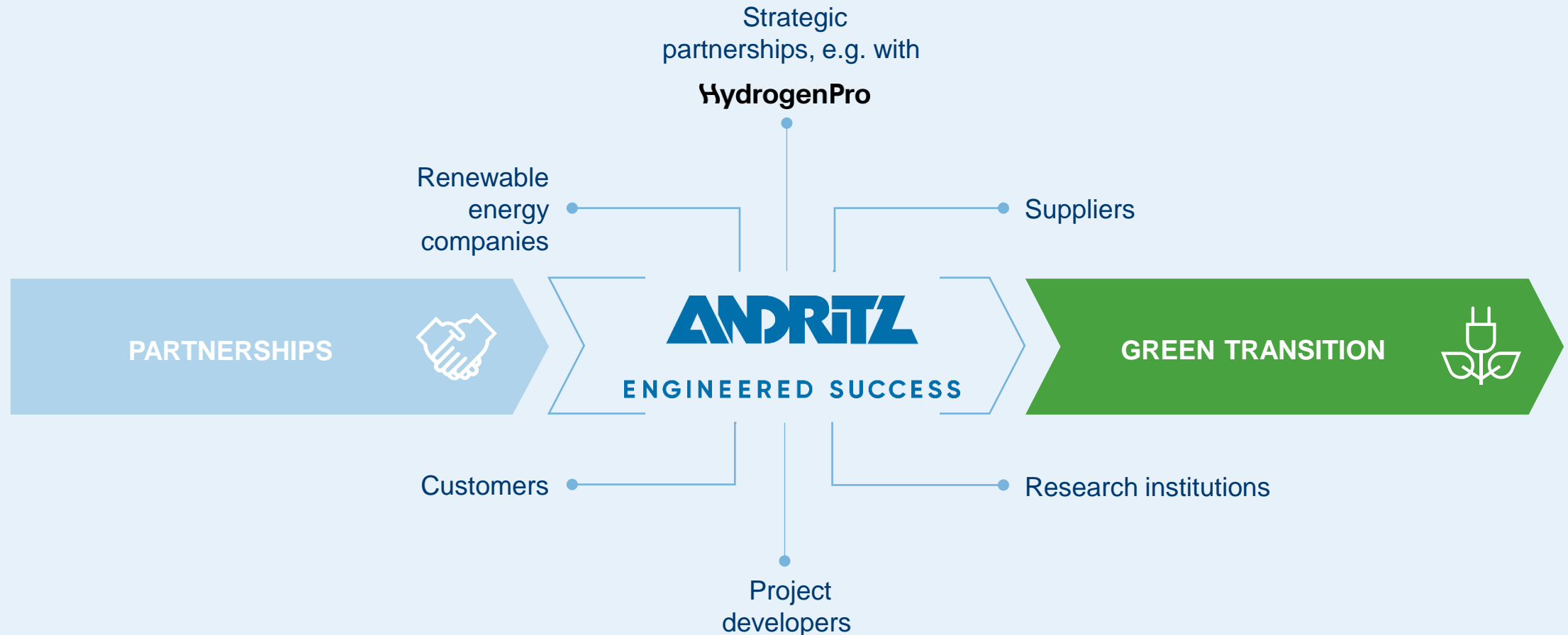
Our offering includes:

- **Integration engineering** along P2X value chains
- **Complete plants** based on Engineering, Procurement and Construction
- **Digital life cycle services:**
 - Autonomous plant
 - Performance management
 - Predictive maintenance
 - Operational services

NOBODY CAN DO THIS ALONE



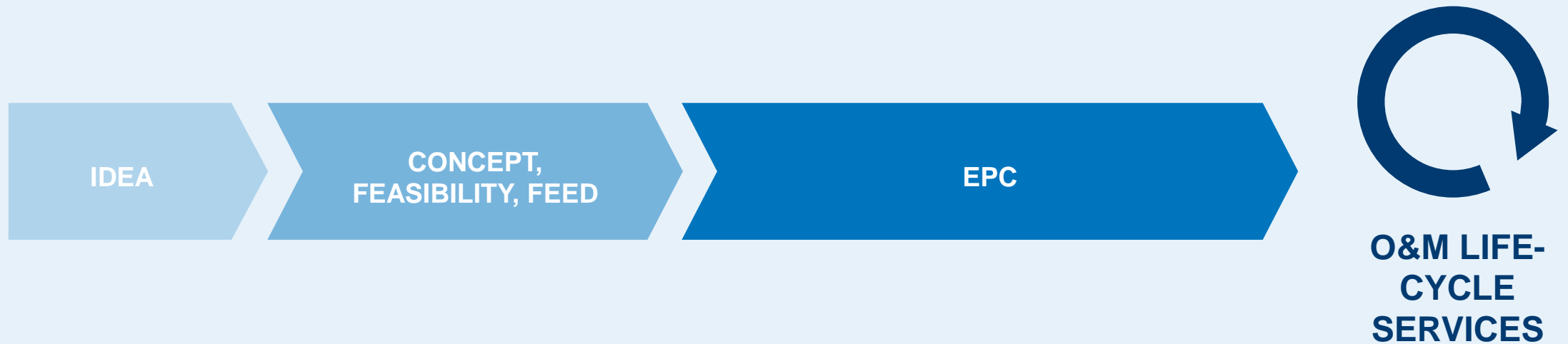
Partnerships are required to reach best levelized cost of product



FROM AN IDEA TO AN OPERATING PLANT



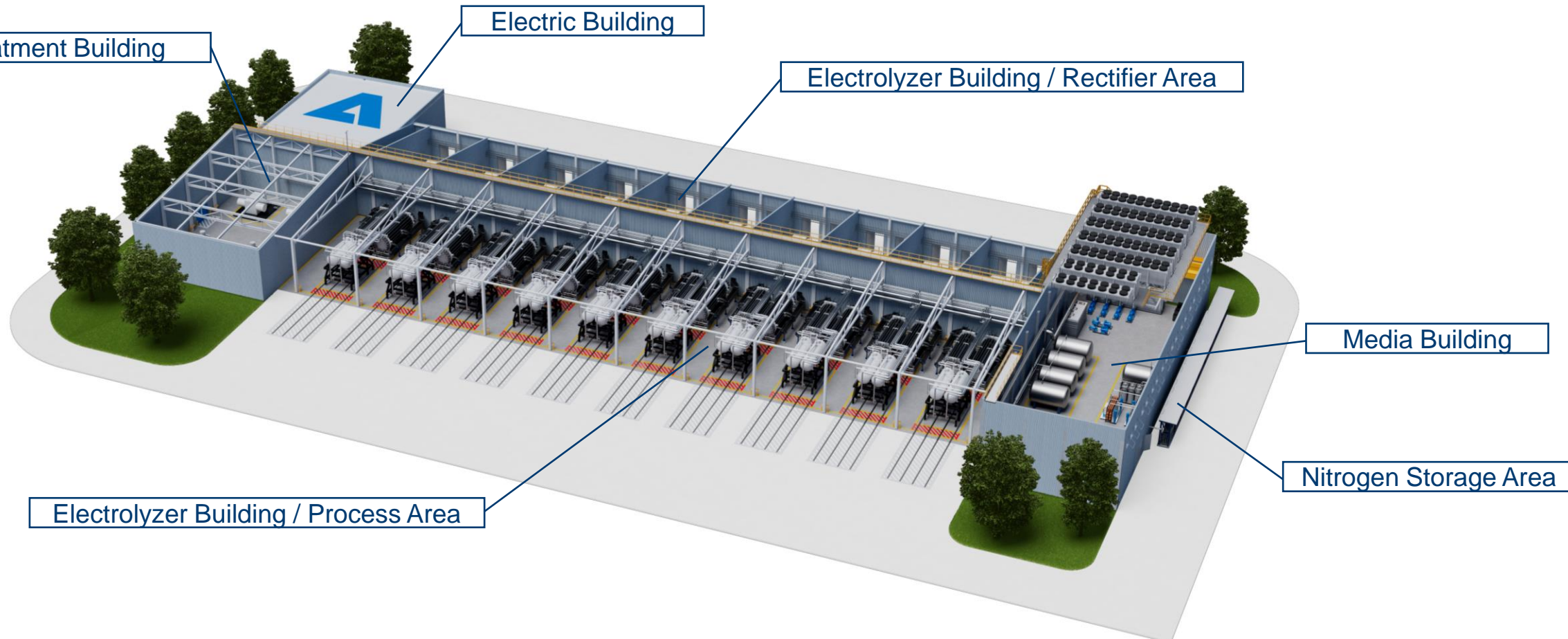
ANDRITZ serves customers from early engineering as a consultancy and EPC solutions, to a fully operating plant with O&M life-cycle services.



STANDARDIZED AND MODULARIZED 100 MW BUILDING BLOCK IS THE BASIS OF OUR OFFERING



Alkaline electrolysis system to produce 20 000 Nm³/h, 1 800 kg/h H₂ (footprint 140m x 60m), modular scalable



A LARGE GREEN HYDROGEN PLANT FOR SALZGITTER



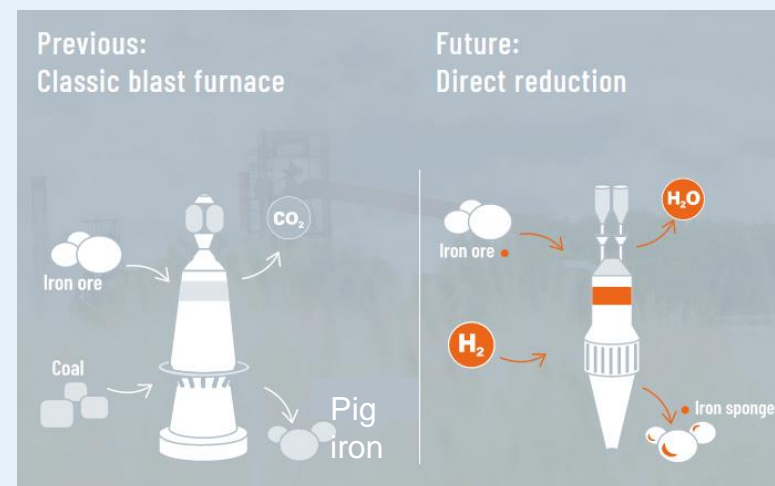
One of Europe's largest green hydrogen plants

SALZGITTER FLACHSTAHL GMBH SITE, GERMANY

The plant will produce around 9,000 tons of green hydrogen per year, which will be used to produce 120,000 tpa green steel reducing the CO₂ emission by more than 200,000 tpa. This is part of the first stage of Salzgitter's SALCOS® sustainable transformation program.



	Capacity	100 MW
	Scope	EPC
	Start-up	2026



Source: <https://salcos.salzgitter-ag.com/en/salcos.html>



KEY TAKE-AWAYS – WHY ANDRITZ

1 Holistic

For best levelized cost of product, P2X value chain integration into customized complete solutions is mandatory.

2 Collaborative

Nobody can do it alone, **collaboration** is essential to tackle today's challenges from renewable power to renewable fuels.

3 Trustworthy

The capability to deliver upon the promises on basis of EPC excellence and proven O&M services - even in remote locations.



A

Green
hydrogen

FOR THE CHANGE

WE ENABLE THE
GREEN TRANSITION

ANDRITZ

ENGINEERED SUCCESS