

EXECUTIVE SUMMARY

Energy Transition

2025

DE NORA: three divisions, one soul.

100 Years of Electrochemistry, to provide Sustainable Techno.



Electrode technologies

Anodes, Cathodes, Catalytic Coatings Gas Diffusion Electrodes, Cell Manufacturing

Markets & Leadership



Chlor-alkali, Electronics, Nickel & Cobalt Electrowinning
> 50% market share



Energy transition

Electrodes for Alkaline Water Electrolysis (AWE), Electrolysis Cells, and Electrodes for Fuel Cells, Small Scale Electrolyzers

Markets & Leadership



Green Hydrogen Production
AWE Technology



Water technologies

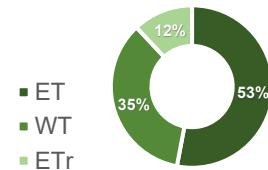
Electrochlorination, Disinfection and Filtration Technologies, Water Treatment Technologies, Electrodes for Pools

Markets & Leadership

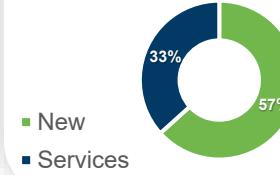


Pools (> 80% Mkt share) & Industrial Electrochlorination; Within the top 5 in municipal disinfection & filtration

FY 2024 Revenues By Business Units



FY 2024 Revenues
New Installations vs Services



Leading the mid-long-term Growth of Green Hydrogen.

Market Evolution

- Mid-term Growth opportunities, Green H₂ will play a Key role in Global Decarbonization
- AWE preferred large-scale projects, 50% share in 2030
- Growth Drivers:
 - Regulation simplification and certainty
 - Low energy costs
 - Infrastructure development

Competitive Scenario

AWE

- Limited suppliers of AWE electrodes
- Chinese and Western competitors offer lower-value solutions
- tk nucera is continuing to be the market leader



Strategic Guidance

- Technology: focus on performance, costs, and sustainability
- Grow in partnerships with leading industry players
- Develop aftermarket for main contract (NEOM)
- Develop our small-scale electrolyzer (Dragonfly®)

De Nora's Strengths

- Cutting-edge proprietary technology
- Operational Excellence (legacy in CA)
- Distinctive global manufacturing capacity (3 GW)
- Best in-class R&D activities
- Profitable from the beginning
- Developing strategic partnerships (tk nucera, Asahi Kasei)

OUR SDGs COMMITMENT



Technological Leader in the Green Hydrogen Industry & Circularity.

Application Decarbonization and Circular Economy

Green Hydrogen Production



Hard-to-Abate



Circular Economy: Lithium Refining and Extraction



Portfolio



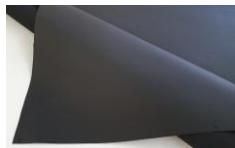
Electrodes for Alkaline Water Electrolysis (AWE)



Electrolysis Cells



Stack for AWE



Gas Diffusion Electrodes for fuel cells



Small Scale Electrolyzer DRAGONFLY®

Flagship ongoing projects.



World's largest green H₂ plant
➤ 600 tons H₂ /Day
➤ 5m tons/Y CO₂ avoided



Project Size: 2.2 GW
H₂ to green ammonia
Delivered 2025
• De Nora progress: **completed**
• Total n E-Chem cells: **~33,000 (110 electrolyzers)**



Lithium from used batteries recovery
Delivery 2026

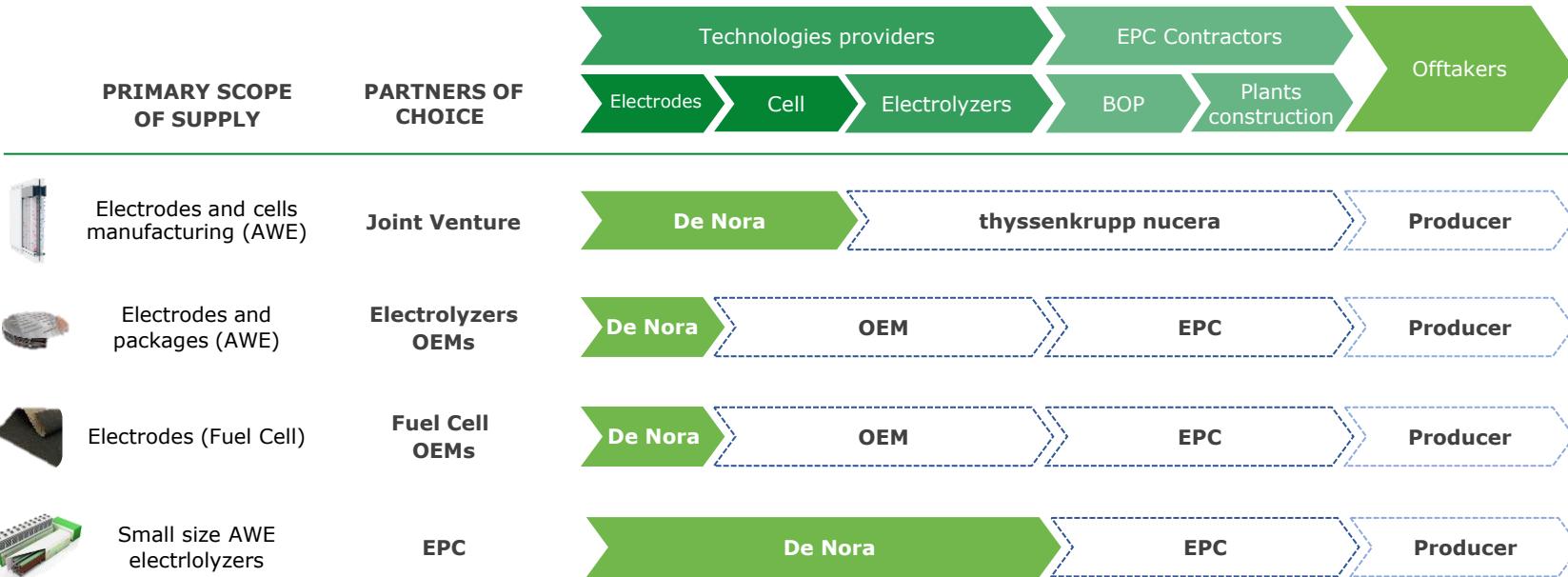
**NEOM,
SAUDI ARABIA**
Largest **Worldwide** H₂ Project

**STEGRA,
SWEDEN**
First large-scale **green steel** EU

Hong Kong
Circular Economy Project

Multiple Routes-to-market.

Distinctive position in the value chain and strategic partnerships with major market leaders in the hydrogen space.



Electrodes for AWE.

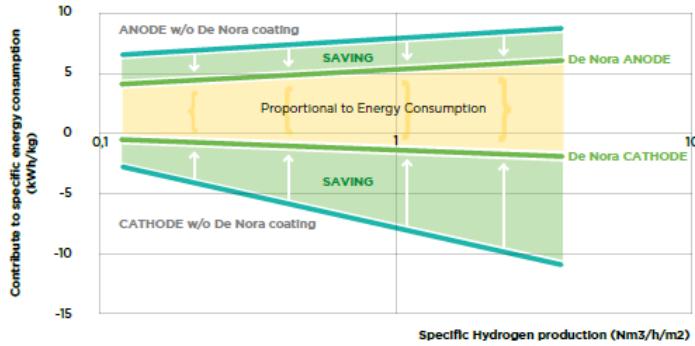
Commercial Solutions.

De Nora's Electrodes: diversified offer **addressing all AWE technologies** needs

- **Pressurized Awe Electrolyzers**
- **Atmospheric Awe Electrolyzers**
- **Renewable Sources Operation**
- **Continuous Operation**



De Nora's Electrodes: **premium performance to deliver lower Levelized Cost of Hydrogen**



- De Nora's electrodes allow a reduced specific energy consumption (kWh/kg) at any current density.
- De Nora high performing electrodes can be operated at higher current densities than competitive technologies, resulting in a higher H₂ production rate.



Electrodes & Cells for AWE.

De Nora is thyssenkrupp nucera's partner, coating supplier and cell manufacturer.



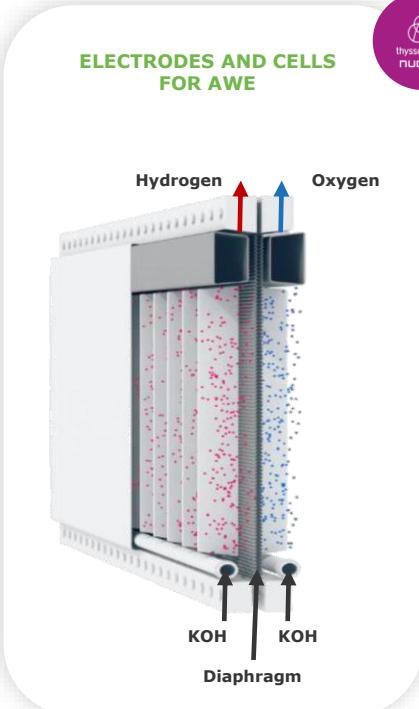
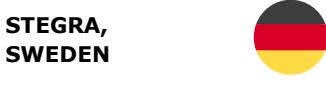
ANODE AND CATHODE COATINGS

- **Proprietary coatings** solutions, ensuring best-in-class technical performance.
- **Dedicated development** with thyssenkrupp nucera



AWE CELL MANUFACTURING

STEGRA,
SWEDEN



Dragonfly® small-scale Green H2 Solution.

Our innovative H2 generation system

- Designed to minimize Total Cost of Ownership (TOC) and Levelized cost of green H₂
- Plug-n-play system
- Reduced Footprint

Sizes: 1MW – 7.5MW



A versatile solution for decentralized applications:

- Heavy transport and Mobility (train/buses, tracks)
- Light industries' needs
- Ideal for small local uses and Hydrogen Valleys

Strategic Partnership
AsahiKASEI

BACKLOG - SMALL SIZE PROJECTS



HyTecHeat - Snam/Tenova
1MW H₂ to steel



CRAVE H₂ Crete
4 MW - Hydrogen Valley



Maffei Sarda Silicati – Sassari (ITA)
1 MW – Hard to Abate



Duferco – Sicily
1 MW H₂ to fuel



Confidential Customer – EU
1 MW - Mobility



Confidential Customer – ITA
~1 MW - Biogas (stack-only)

R&d initiatives.

Solutions under development.

Strategic ongoing projects:

Continuous improvement of DSA® Electrodes performances

- Current density increase
- Operating temperature increase
- Noble Metals usage optimization
- Sustainable solutions exploitation

Development of cutting-edge technologies in a rapidly evolving environment



E-chem As A Circular Economy Enabler.

Launching into Sustainable Lithium Refining.

An alternative and circular technology for LITHIUM Refining

- We are developing a **E-Chem** technology to produce Lithium from all feedstock: Rocks, Brine, Clay and **Battery Scrap**
- E-Chem vs traditional chemical process provides **lower costs** while **improving ESG** performance - e.g. reduced CO2 emissions and water consumption

CONTRACTS / PARTNERSHIPS

H1 -2025 first **Contract** to supply a plant to recover lithium from used batteries, Japanese Customer



2024 Partnership with Mangrove Lithium to produce Lithium both from mining and used batteries



Green Hydrogen Market Perspective.

Uncertain short-term scenario but promising mid-long-term outlook.

MARKET OUTLOOK

CAGR₂₄₋₃₀ +57%

30 GW installed
by 2030

END MARKET

- Short-term scenario is uncertain, driven by regulation and electricity costs.
- **Mid Term outlook is positive, 30GW** expected to be installed globally by 2030, in a conservative scenario
- **Small size market** will develop **in EU** - Italy at about 0.4GW by 2030
- Hard to Abate (steel, refining, chemicals, and heavy transport).
- Ammonia as a carrier

GROWTH DRIVERS

.. allowing growth to take shape

- **Regulation simplification and certainty**
- **Low energy costs**
- Push on **clean tech** and **infrastructure**
- Climate change mitigation



KEY GEOGRAPHIES

TECHNOLOGIES

- **Alkaline Water Electrolysis (AWE)** is projected to capture approximately **50%** of the market share by 2030



AWE Electrodes



2.4GW

~50% Global
market share

Realised
2022-2024

Small-Scale Systems



Launched In 2024



De Nora Assets To Lead In Green H₂.



Unmatched Technological Expertise

From catalyst to complete system
Leveraging on 100 yrs+ chlor-alkali plant expertise and leadership



Ongoing development of successful R&D projects



Guaranteed Performance & Cost Control

High current density → 3x to 5x more efficient and cost-effective electrolyser
Guaranteed durability & aftermarket → optimized CAPEX/OPEX ratio over time



Global Presence & Scalability

Global manufacturing facilities, with maintenance close to plants
Flexible Production footprint shared with the other Bus



Strong & Reliable Partnerships with key players



AsahiKASEI



memberships

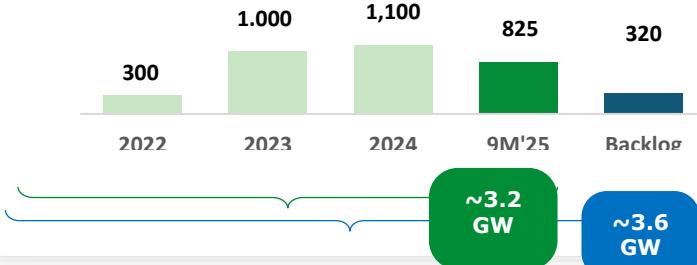


Backlog & Pipeline.

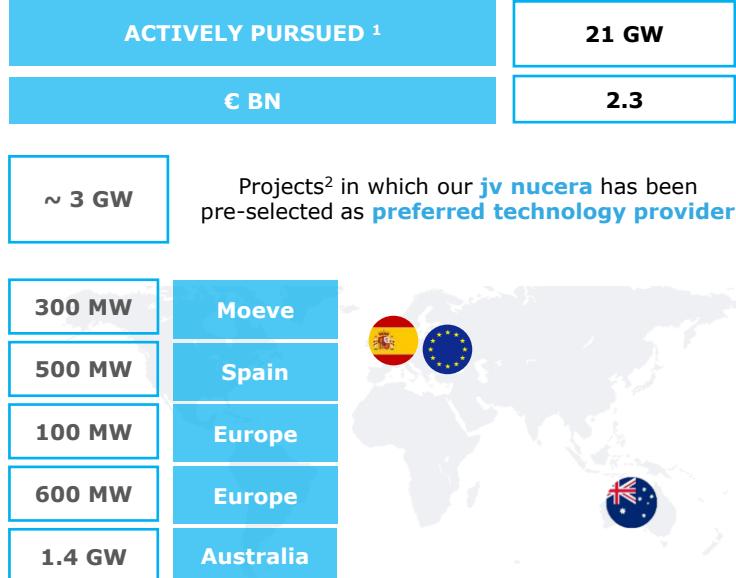
Well-positioned in a promising yet evolving market.



TRACK RECORD: ~ 3.2 GW Green H₂ delivered so far



HYDROGEN COMMERCIAL PIPELINE



Market Analysis Q3 2025.

Incentives and regulations supporting the green hydrogen market.



CANADA

\$400 m Canadian-German bilateral CfD auction to produce gH2 and its derivatives

CfD for **\$3 bn** auction to procure gH2 and its derivatives

GERMANY



€1.2bn awarded in state aid to support 9 gH2 projects

POLAND

\$320 m awarded to support four gH2 project



MOROCCO/ EGYPT

Low cost of RES leading to low **LCOH**
Potential external investors (PIF and EU players) in GW scale



CHILE

\$2.8 bn tax credit to drive gH2 investment and industrialization by 2030

CfD for **\$3 bn** auction to procure gH2 and its derivatives

AUSTRIA

\$320 m awarded to support four gH2 project

GLADT program to support gH2 development (including production, storage and transportation, end-use (refining, power generation, long-term energy storage))



CHINA



SAUDI ARABIA

Governmental support to unlock further 4.4 GW of capacity by 2030



INDIA

Green ammonia auction run by state entity **SECI** awarded 724000 tpa to 13 developers
Unlocking **1GW** of capacity



AUSTRALIA

\$1.3 bn Hydrogen Headstart program to support development of green hydrogen (ammonia, steel, heavy mobility)



Distinctive Production Footprint.

Capacity in Place first wave of expansion completed, ongoing Gigafactory Project.

AMS

PRODUCTION FACILITIES for Electrodes, Water Technologies and Energy Transition

New Energy Innovation Center inaugurated in 2025

EMEIA

PRODUCTION FACILITIES for Electrodes, Water Technologies and Energy Transition

Enhanced Germany facility in 2024

Ongoing Gigafactory (ITA) up 2GW

ASIA

PRODUCTION FACILITIES for Electrodes, Water Technologies and Energy Transition

Suzhou's expansion 2023: 3x coating line

Okayama expansion 2024



Italian Gigafactory

Smart and Sustainable Factory

Italian **Production Hub** for all the BUs

IPCEI Funds (€63m allocated), economic and financial flows, under review in light of evolving H₂ mkt conditions. Interactions with local authorities started.

Set to **start in 2026** with an initial 0.5 GW capacity

2024



2.5 GW eq.¹
Energy Transition

2026

3.0 GW eq.¹
Energy Transition

1. Elements Equivalents



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Dare. Develop. Deliver.