

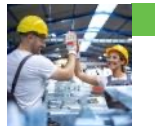


Electrochemistry, Water, Energy:
our future for a cleaner world



€856.4m

2023 Revenues



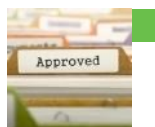
24

Operating companies



+100

Years of Innovation



281

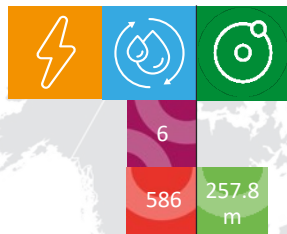
Patent families



2010

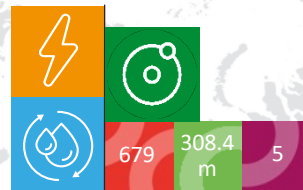
People

AMS



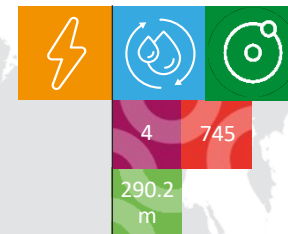
30%

EMEIA



36%

APAC



34%



Revenues



Electrode Technology



Energy Transition



Water Technology



Factories



People

WHO WE ARE

Global Leader in Electrode Technologies and Water Treatment Solutions



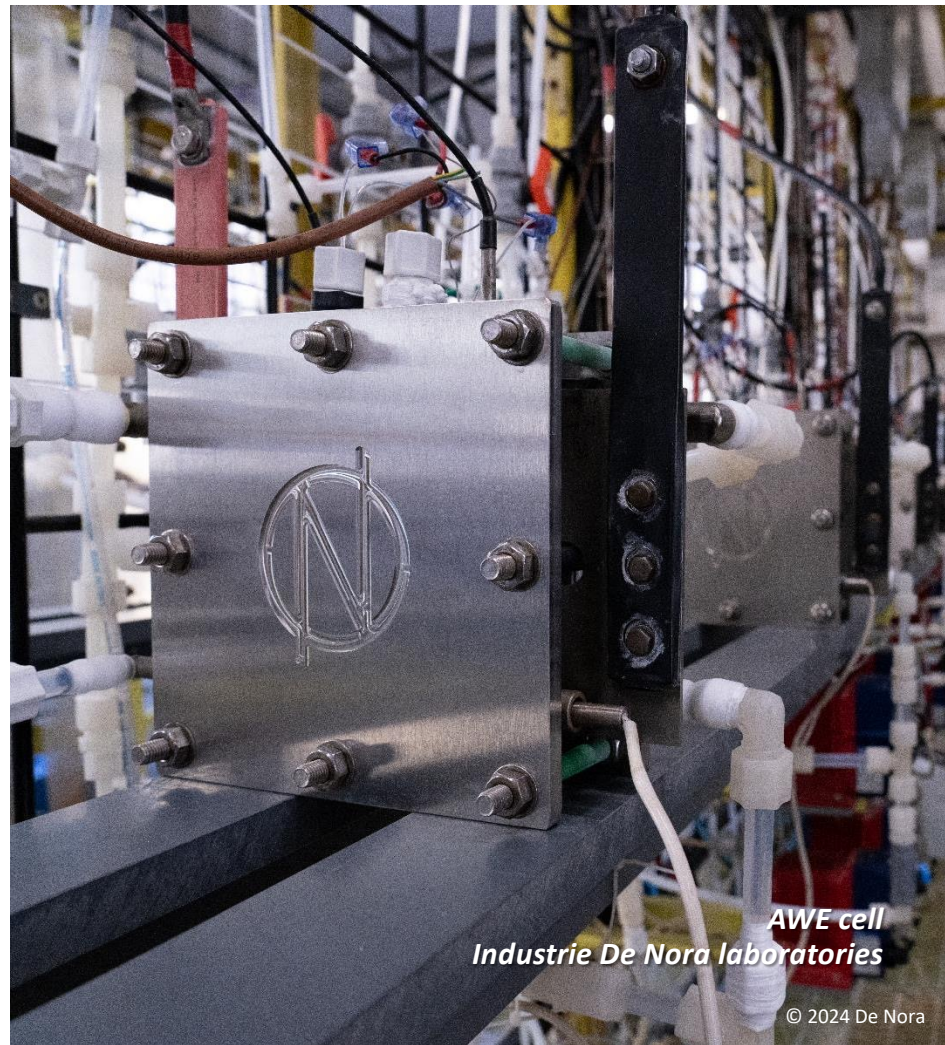
The world's largest supplier of high-performing coatings and **electrodes** for industrial applications



Leader in emerging sustainable technologies and with a key role in **Green Hydrogen** market



Recognized provider of disinfection and filtration solutions for **water** and **wastewater treatment**



*AWE cell
Industrie De Nora laboratories*



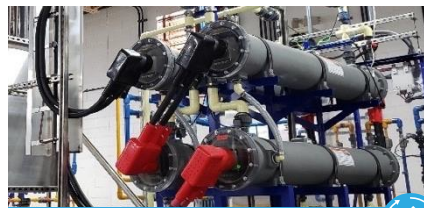
ELECTRODE TECHNOLOGIES

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



ENERGY TRANSITION

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



WATER TECHNOLOGIES

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

MARKETS & LEADERSHIP



Chlor-alkali,
Electronics,
Nickel & Cobalt
Electrowinning

> 50% market share

MARKETS & LEADERSHIP



Green Hydrogen Production
AWE Technology

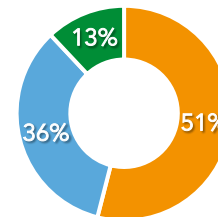
MARKETS & LEADERSHIP



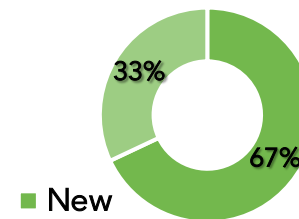
Pools (> 80% Mkt share) &
Industrial Electrochlorination;

Within **the top 5** in municipal
disinfection & filtration

H1 2024 Revenues By Business Units



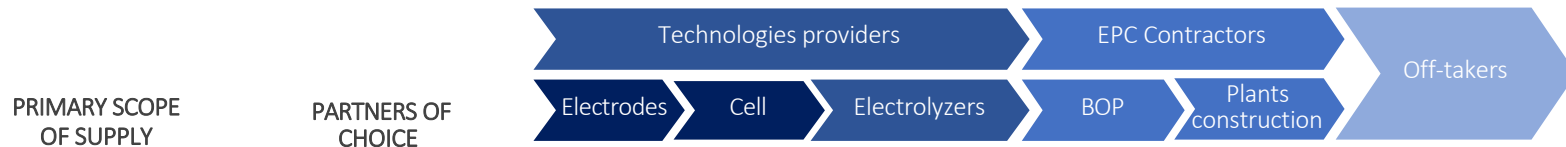
H1 2024 Revenues New Installations Vs Services



OUR POSITION AT THE CORE OF THE GREEN H₂ VALUE CHAIN

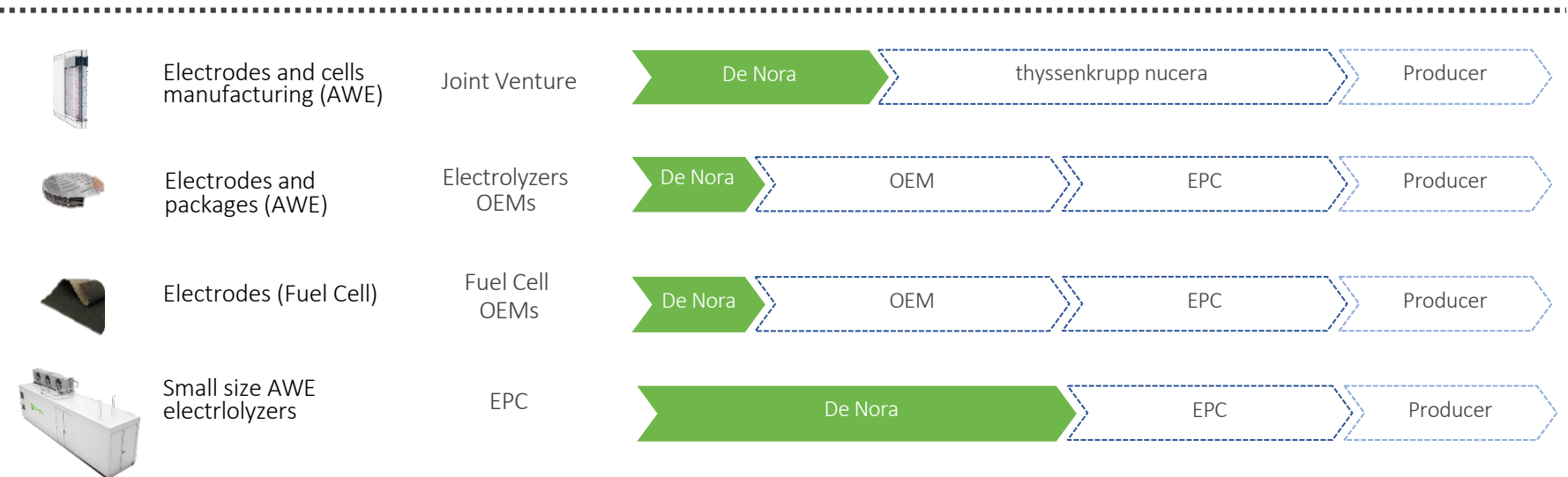


Distinctive position in the value chain and strategic partnerships with major market leaders in the hydrogen space



PRIMARY SCOPE OF SUPPLY

PARTNERS OF CHOICE



Green Hydrogen technologies already produced

- **1 GW** in 2023
- **588 MW** in H1 2024
- **1.6 GW** in backlog

The product

**An innovative H₂ generation system
by De Nora based on
De Nora Advanced AWE technology**



Reduced Stack dimension



New cooling system through special design bipolar plates



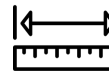
High capacity

High current density, reduced footprint



High-efficiency electrodes

State-of-the-art power consumption



Reduced footprint

MW/m²



Minimized construction costs



Optimized transportation costs

Use of standard size containers



Minimized installation costs

Plug and play – all utilities on board



Customizable Offer

Utilities on board

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



Key Milestone June 2024*

LOI with Duferco Energy Company to jointly develop Green Hydrogen Projects across Europe



HyTecHeat - Snam e Tenova
1MW low carbon H₂ for steel production
Funded by EU “ Horizon Europe”



CRAVE H₂ - Crete Hydrogen Valley (Crete)
4 MW - 500 tons/y of Green H₂
co-funded by the EU Commission



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Dragonfly® system global footprint

Currently following business development activities also **outside Italy and Europe**, in other key markets (e.g., Japan, Brazil)



Who we are • Technologies • Governance • Investor Relations • Sustainability

PRODUCTS APPLICATIONS MARKETS & INDUSTRIES BRANDS SERVICES

• CORPORATE

De Nora signs an agreement with Asahi Kasei to develop and commercialize electrolyzers and containerized systems for small-scale green hydrogen production



Main Projects in Backlog

NEOM, Saudi Arabia,
Largest Green H₂ Project Globally
part of > 2 GW tot project
H₂ to Green Ammonia



Green Steel project, Sweden
the first large-scale green steel plant in EU
700+ MW
H₂ to Steel – Hard to abate industry



Some Projects in our Pipeline

27% of our Pipeline's Hot Deals

«Next Company» (*Capacity Reservation, jv nucera*)
High multi-hundred MW Green H₂
project in North America



ABEL 260 MW AWE (*jv nucera Preferred Supplier*)
Project for maritime Industry in Australia
H₂ to methanol



NESTE 120 MW AWE
at Neste's Refinery in Finland
H₂ to Refinery Processes



CEPSA 300 MW AWE (*Basic Eng. and package design, jv nucera*)
Andalusian Green H₂ Valley, Spain
Basic Engineering & Design



AMS



- Automation and technology upgrades.
- New Energy Innovation Center



- ~US\$50m Grant by DOE¹ for manufacturing expansion (green H₂) pre-selection

EMEIA



- Strengthened manufacturing set-up in **Germany** (Energy Transition)



- Greenfield Gigafactory** (Italy)- Groundbreaking celebrated in Jun'24

ASIA



- Synergic plan of expansion for **China & Japan**.



- Suzhou's** expansion phase completed in '23



- Okayama** expansion completed in March 2024

Italian Gigafactory's Groundbreaking

June 2024

- Greenfield project
- 2GW Green H₂ Technologies Capacity (Dragonfly® System)
- Smart and Sustainable Factory
- Start of Operations in 2025
- Eligible for **€63 m IPCEI** funds. Already **approved €32m** by **Ita. Gov**



2023

2026E



Brownfield



Greenfield

2.5 GW eq. elements

4.5 GW eq. elements



DE NORA

discover more