



Press Kit

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Facts & Figures

About thyssenkrupp nucera AG & Co. KGaA, Dortmund (Germany)

- thyssenkrupp nucera offers world-leading technologies for highly efficient electrolysis plants. The company has extensive expertise in the planning, procurement and construction of electrochemical plants.
- Its track record includes more than 600 successfully installed projects with a total capacity of more than 10 gigawatts.
- The company currently has two technologies at its disposal: alkaline water electrolysis and chlor-alkali electrolysis.
- With its water electrolysis technology for the production of green hydrogen, thyssenkrupp nucera is creating innovative solutions on an industrial scale for green value chains and a decarbonized industry - a major step towards climate neutrality.
- Customers include companies with projects such as NEOM in Saudi Arabia, Stegra (formerly H2 Green Steel) in Sweden, Shell in the Netherlands, Moeve (formerly Cepsa) in Spain, and several more.
- thyssenkrupp nucera successfully completed an IPO in July 2023 and its shares are traded on the Frankfurt Stock Exchange.



- The electrolysis specialist generated sales of EUR 862 million in the past financial year 2023/2024 (corresponding prior-year period: EUR 661 million). The number of employees rose to 1,012 (previous year: 675) by the end of the financial year (September 30, 2024).
- www.thyssenkrupp-nucera.com
- Social Media: LinkedIn [thyssenkrupp nucera](#) | LinkedIn

The Management of thyssenkrupp nucera

Dr. Werner Ponikwar

CEO thyssenkrupp nucera AG & Co. KGaA (as Executive Board member of the General Partner thyssenkrupp Management AG)

Professional background:

Holding a Ph.D. in Chemistry from the LMU Munich, Dr. Werner Ponikwar has gained 20+ years of experience in the chemical industry. He held leading positions including business development, corporate strategy and management at German stock-listed companies such as Evonik Degussa and Linde.



He served as CEO of Linde Hydrogen FuelTech, a global technology provider of hydrogen refuelling stations, focused on the full product life cycle, incl. the development, manufacturing, sales, erection and service. Since 2022 he is CEO of thyssenkrupp Nucera. IN this function he drives the development of the business to a standalone company to become a global hydrogen technology champion. As the CEO of thyssenkrupp nucera, Dr. Werner Ponikwar is responsible for sizing the business in all regions with a clear vision and growth strategy.



Dr. Arno Pfannschmidt

CFO thyssenkrupp nucera AG & Co. KGaA (as Executive Board member of the General Partner thyssenkrupp Management AG)
Born 1961, degree (Dipl.-Volksw.) in economics and a doctorate (Dr. rer. pol.) in transaction cost economics from the University of Bonn.

Professional background:

Arno Pfannschmidt has more than 25 years' professional experience in accounting, taxes, controlling, finance and M&A at thyssenkrupp. For over 20 of these years, he has been in CFO functions at subsidiaries within various Business Areas, such as Stainless Steel, Elevator and Marine Systems, including assignments to Italy, South Korea and Sweden.

On September 1, 2014, Arno Pfannschmidt was appointed CFO of thyssenkrupp Electrolysis GmbH, and continued in this function after the Closing of the Joint Venture with De Nora. He manages the Group's CFO functions.



Fulvio Federico

CTO thyssenkrupp nucera AG & Co. KGaA (as Executive Board member of the General Partner thyssenkrupp Management AG)
Born in Milano in 1966, studied Chemical Engineering at Politecnico di Milano

Professional background:

Fulvio Federico has 30 years' professional experience in design, development and manufacturing of cells and processes for the electrochemical industry. In 1993 he joined De Nora for the research and development of electrolyzers for conventional chlor-alkali as well as for new processes, especially those using oxygen depolarized cathodes.

He lead projects in new technology developments for De Nora and, since 2001, for Uhdenora and partners, from basic concept until industrialization (e.g. the HCl-ODC electrolysis, NaCl-ODC, zero-gap retrofit, new chlor-alkali BM Gen. v6, etc.). In April 2015 he joined thyssenkrupp nucera (former: thyssenkrupp Uhde Chlorine Engineers) as Head of Global Technology, coordinating the R&D activities. On 1 October 2017 Fulvio Federico was appointed CTO.





Electrolysis technologies at a glance

- **Alkaline water electrolysis (AWE)** is a process for producing hydrogen from water using electricity. If electricity from renewable energy sources is used, it is green hydrogen.
- **Chlor-alkali electrolysis** is a process for producing the important basic chemicals chlorine, hydrogen and caustic soda from sodium chloride and water.
- **PEM electrolysis** (Proton Exchange Membrane) is a water electrolysis process. In contrast to alkaline electrolysis, it is carried out in an acidic medium.
- In high-temperature solid oxide electrolysis (**SOEC**), a fuel cell converts water vapor into hydrogen and oxygen in reverse mode at very high temperatures.
- **AEM electrolysis** (anion exchange membrane electrolysis) is a combination of the PEM (proton exchange membrane) and AEL (alkaline electrolysis) electrolysis processes.
- For further information see [Glossar - thyssenkrupp nucera \(thyssenkrupp-nucera.com\)](#) and [Electrolysis – Fraunhofer IKTS](#)

Important Links (Photos & Videos)

- **Press release:** [Press releases - thyssenkrupp nucera \(thyssenkrupp-nucera.com\)](#)
- **Photos & Videos** (products, management, HQ): [Publications & Media - thyssenkrupp nucera \(thyssenkrupp-nucera.com\)](#)
- **Blog:** [new era insights - thyssenkrupp nucera \(new-era-insights.com\)](#)
- **Brochures**
[Rethinking existing infrastructures | Startseite - thyssenkrupp nucera \(thyssenkrupp-nucera.com\)](#)
[Infographic: Value chain for green hydrogen](#)
- **Website:** [Rethinking existing infrastructures | Home - thyssenkrupp nucera \(thyssenkrupp-nucera.com\)](#)
- **Glossary:** [Glossary - thyssenkrupp nucera \(thyssenkrupp-nucera.com\)](#)



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