

### Siemens and Boson Energy enter agreement to accelerate the green energy transition through waste-to-hydrogen (to-X) technology

- **Companies sign Memorandum of Understanding to drive green energy transition through conversion of non-recyclable waste into clean energy for various applications**
- **Siemens to provide consultancy and technology, including applications from its Siemens Xcelerator portfolio, spanning automation, digitalization, electrification, and instrumentation**
- **Boson Energy aims to establish over 300 plants, producing 1 million tons of hydrogen by 2030**

Boson Energy and Siemens AG have signed a Memorandum of Understanding (MoU) to facilitate collaboration on technology that converts non-recyclable waste into clean energy. The collaboration aims to advance sustainable, local energy security, enabling hydrogen-powered electric vehicle charging infrastructure without compromising grid stability or impacting consumer prices.

“We are excited to join forces with Siemens in our ambition to make a difference in society and support global decarbonization with our Waste-to-X solution,” said Jan Grimbrandt, CEO of Boson Energy. “Siemens, with its unique capabilities of people and technology, gives Boson Energy ‘unlimited’ capacity to scale and reach markets from Berlin to Delhi and beyond – from day one.”

Siemens offers technology for every step of sector coupling, from initial chemical processes to the final charging stations. Its portfolio covers all required products, solutions, and services in automation, electrification, and instrumentation. As a technology partner, Siemens will

assist Boson Energy in building a blueprint to create a scalable and repeatable solution, by applying the latest technology within digital services and software for optimization, standardization, and simulation during both the manufacturing and operational phases.

"We look forward to supporting Boson Energy with our portfolio to contribute to a more sustainable circular economy," said Axel Lorenz, CEO of Process Automation at Siemens Digital Industries. "Digitalization and automation are crucial for building and scaling production capacities - even more so for complex processes such as thermochemical recycling."

Combating climate change is one of the biggest challenges of our time. Addressing the challenge, Boson Energy contributes toward decarbonization with its distributed production of local energy and chemicals – turning non-recyclable waste into a sustainable hydrogen that is cost-competitive to fossil fuels at point of use. It does this by integrating its Hydrogen by Plasma Assisted Gasification (HPAG) technology into an 'energy hub' solution that realizes the important circular hydrogen potential of waste in a uniquely sustainable way. The hydrogen produced can support off-grid applications such as fast charging and facilitates more reliable grid operations.

"The collaboration with Boson Energy represents a significant step forward in our commitment to advancing technologies toward CO2 reduction," said Stephan May, CEO of Electrification and Automation at Siemens Smart Infrastructure. "By leveraging the breadth of our comprehensive portfolio, we aim to create a scalable and efficient model for converting waste into clean hydrogen. This collaboration not only addresses the urgent need for local energy security but also contributes to reducing the global carbon footprint, paving the way for a more sustainable future."

Boson Energy is targeting more than 300 plants in order to produce 1 million tons of circular hydrogen from waste by 2030 – avoiding up to 30 million tons of CO2 emissions per year. Starting in Sweden, Poland, and Germany, then continuing throughout Europe, Boson Energy is aiming for a global presence.

The Memorandum of Understanding was signed during theACHEMA Fair in Frankfurt by Axel Lorenz, CEO for Process Automation, and in advance by Stephan May, CEO for Electrification and Automation at Siemens.

This press release, as well as a press picture, is available at: <https://sie.ag/37PsHH>

For more information on Siemens, please see: [www.siemens.com](http://www.siemens.com)

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**Siemens Digital Industries (DI)** is an innovation leader in automation and digitalization. Closely collaborating with partners and customers, DI drives the digital transformation in the process and discrete industries. With its Digital Enterprise portfolio, DI provides companies of all sizes with an end-to-end set of products, solutions and services to integrate and digitalize the entire value chain. Optimized for the specific needs of each industry, DI's unique portfolio supports customers to achieve greater productivity and flexibility. DI is constantly adding innovations to its portfolio to integrate cutting-edge future technologies. Siemens Digital Industries has its global headquarters in Nuremberg, Germany, and has around 72,000 employees internationally.

**Siemens AG** (Berlin and Munich) is a leading technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare.

In fiscal 2023, which ended on September 30, 2023, the Siemens Group generated revenue of €77.8 billion and net income of €8.5 billion. As of September 30, 2023, the company employed around 320,000 people worldwide. Further information is available on the Internet at [www.siemens.com](http://www.siemens.com).