

Siemens selected for multi-phase decarbonization program at HEINEKEN production sites

- **Decarbonization program targets significant energy savings and 50 percent CO₂ reduction at over 15 HEINEKEN breweries and malt houses worldwide by 2025**
- **Supports HEINEKEN's global Net Zero Production roadmap, which aims to reach net zero in Scope 1 and 2 by 2030 and net zero across the full value chain by 2040**
- **Five-year performance and monitoring service contract from Siemens to ensure ongoing project optimization**
- **Scalable solution designed using an energy digital twin will optimize heating and cooling requirements in production and packaging processes**

HEINEKEN, the world's most international brewer, has selected Siemens as a partner for its global Net Zero Production roadmap, as part of HEINEKEN's ambitions to reach net zero in Scopes 1 and 2 across all production sites by 2030.*

Siemens and HEINEKEN will work together on a long-term decarbonization program which will see Siemens implementing solutions and services from its Siemens Xcelerator portfolio, to reduce energy usage at more than 15 HEINEKEN beer and malt production sites, spanning facilities across Asia-Pacific, the Americas and Europe. Additional sites will be added in a second phase.

SIEMENS



HEINEKEN

Siemens AG
Werner-von-Siemens-Straße 1
80333 Munich
Germany

HEINEKEN N.V.
P.O. Box 28 1000 AA
Amsterdam
The Netherlands

Joint Press Release

By Siemens and HEINEKEN

HEINEKEN and Siemens collaborated on an initial project of consulting, auditing, and advisory services, using an energy digital twin to simulate and analyze a typical HEINEKEN brewery in the virtual world, identifying where significant energy savings could be made. The simulation showed approximately 70 percent of energy use was linked to the generation of heating and cooling necessary for the brewing process. By optimizing and monitoring these cooling and heating systems through an end-to-end program, Siemens estimates energy savings of between 15-20 percent at each site, and an average CO₂ reduction of 50 percent at each site.

Dolf van den Brink, HEINEKEN CEO and Chairman of the Executive Board, said: “As we continue to focus on the delivery of our journey to reach net zero in Scope 1 and 2, we know that we must make many bold and ambitious moves to decarbonize our global operations. Undertaking these challenges with partners like Siemens allows us to bring in technical expertise and industry knowledge to innovate quickly and at scale. We are excited to continue on this journey with partners who are committed to pioneer and localize next-generation solutions, to help us reach our net zero goals.”

To achieve targeted reductions in energy usage and CO₂, Siemens will deploy an end-to-end program of solutions and services which are scalable and replicable across HEINEKEN’s global production sites. Using operational data in combination with the energy digital twin at each site, Siemens will design, engineer and implement a system to electrify the production of heat and cooling using heat pumps powered by renewable energy, reducing reliance on steam generated by fossil fuels. The system will be monitored, controlled and optimized using Siemens Cooling Plant Optimization algorithms, which uses built-in analytics to analyze data from the plant to reduce energy costs and ensure operational efficiency.

“We’re proud to be a partner to HEINEKEN’s Net Zero roadmap; an ambitious journey to reach net zero by 2040,” said Matthias Rebellius, Managing Board Member of

SIEMENS

**HEINEKEN**

Siemens AG
Germany

HEINEKEN

Joint Press Release

By Siemens and HEINEKEN

Siemens AG and CEO of Smart Infrastructure. “Working with HEINEKEN as a partner in this way demonstrates a thoroughly modern approach to data-driven decarbonization. By collaborating on an end-to-end program, we’re able to combine hardware, software and analytics to predict and deliver the long-term results which are now crucial to every industry.”

As part of the long-term partnership agreement, Siemens will also deliver a five-year performance and monitoring contract, connecting the breweries to Siemens systems which use data services to remotely monitor the production sites, ensuring the best solution is operated at all times.

From barley to bar, HEINEKEN continues to focus on concrete actions to reduce its carbon emissions, working closely with customers, consumers, and suppliers. At the end of 2022, HEINEKEN had already reduced total carbon emissions on Scopes 1 and 2 by 18 percent since 2018. To achieve this, in 2022 it increased its renewable electricity consumption to 58 percent and is currently investing in renewable heat solutions for its breweries.

In 2023 HEINEKEN's net zero and FLAG (Forest, Land and Agriculture)* targets were approved by the Science Based Targets initiative (SBTi), becoming the first global brewer to pass this sustainability milestone. For complete details on HEINEKEN's science-based targets, [see SBTi's website](#).

This press release as well as a press picture are available at <https://sie.ag/SSsav>

Follow us on X at www.twitter.com/siemens_press



Siemens AG
Germany

HEINEKEN

Joint Press Release
By Siemens and HEINEKEN

Contact for journalists:

Siemens AG

Eva-Maria Baumann

Tel.: +49 174 2358 997; E-Mail: eva-maria.baumann@siemens.com

Heineken N.V.

Joris Evers / Michael Fuchs

E-mail : pressoffice@heineken.com Tel : +31-20-5239-355

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.

Siemens Smart Infrastructure (SI) is shaping the market for intelligent, adaptive infrastructure for today and the future. It addresses the pressing challenges of urbanization and climate change by connecting energy systems, buildings, and industries. SI provides customers with a comprehensive end-to-end portfolio from a single source – with products, systems, solutions, and services from the point of power generation all the way to consumption. With an increasingly digitalized ecosystem, it helps customers thrive and communities progress while contributing toward protecting the planet. Siemens Smart Infrastructure has its global headquarters in Zug, Switzerland. As of September 30, 2023, the business had around 75,000 employees worldwide.

HEINEKEN is the world's most international brewer. It is the leading developer and marketer of premium and non-alcoholic beer and cider brands. Led by the Heineken® brand, the Group has a portfolio of more than 300 international, regional, local and specialty beers and ciders. With HEINEKEN's over 90,000 employees, we brew the joy of true togetherness to inspire a better world. Our dream is to shape the future of beer and beyond to win the hearts of consumers. We are committed to innovation, long-term brand investment, disciplined sales execution and focused cost management. Through "Brew a Better World", sustainability is embedded in the business. HEINEKEN has a well-balanced geographic footprint with leadership positions in both developed and developing markets. We



Siemens AG
Germany

HEINEKEN

Joint Press Release

By Siemens and HEINEKEN

operate breweries, malteries, cider plants and other production facilities in more than 70 countries. Most recent information is available on our [Company's website](#) and follow us on [LinkedIn](#), [Twitter](#) and [Instagram](#)

*Defined by the Science Based Targets initiative (SBTi) as a minimum of 90% emissions reductions. The 10% residual emissions that cannot be eliminated otherwise must be covered with permanent carbon removal and storage solutions.

SIEMENS

**HEINEKEN**

Siemens AG
Germany

HEINEKEN