Capgemini

Siemens Corporate IT strengthens its *frontrunner position* in sustainability

Siemens Corporate IT IoT and Platform Services collaborates with Capgemini to drive sustainability and innovation in data center operations, focusing on CO2 emission tracking, energy efficiency, and ensuring compliance with regulations.

In a world increasingly focused on sustainability and environmental responsibility, companies across all industries are under growing pressure to minimize their carbon footprint and maximize operational efficiency. Siemens, a leading global provider of technology and infrastructure solutions, recognizes the need to reduce CO2 emissions in its IT data centers, hyperscalers and third party services as part of its overall commitment to sustainability.

As a pioneer in technology and engineering, Siemens recognizes the importance of proactive measures to reduce environmental impact and ensure regulatory compliance. Therefore, the company's IT infrastructure and portfolio service unit made the strategic decision to launch a project to reduce CO2 emissions in its IT data centers while improving operational efficiency.

The consequences of inaction were obvious: without proactive measures to reduce CO2 emissions, Siemens risked falling behind its competitors in the sustainability race and facing potential regulatory penalties. Siemens recognized these risks and decided to lead by example instead of waiting for external pressure on the company.

When choosing a partner for this ambitious project, Siemens opted for a company with a proven track record in sustainability consulting and technological innovation. Capgemini, known for its expertise in both areas, proved to be the ideal match and enabled a partnership based on a shared vision of sustainability, innovation, and a commitment to delivering tangible results.

Client: Siemens Corporate IT

Industry: Manufacturing

Region: Germany

Client Challenge: Siemens wants to achieve a net-zero carbon footprint by 2030 and strengthen its market leading position in Environmental, Social, Corporate Governance (ESG). Regulatory demands at national and European level require increasing transparency and energy efficiency compliance in data centers.

Solution: The solution streamlined CO2 data collection, enabling informed decisions. It empowered the client to reduce emissions and enhance sustainability, aligning with global standards for impactful environmental stewardship.

Benefits:

- Identification of energy and CO2 optimization measures in data centers

- Improved data visibility for more informed decision-making

- Ongoing improvements in sustainability practices with reduced manual workload

- Strengthened compliance with emerging regulations

Proactive collaboration drives sustainability

By leveraging Capgemini's consulting and digitalization expertise and its own deep domain knowledge, Siemens Corporate IT developed a comprehensive plan to guide its inhouse data center sustainability efforts. The challenge for Siemens was to gain transparency on and reduce CO_2 emissions in their inhouse data centers while maximizing efficiency and ensuring regulatory compliance. Siemens also aimed to automate sustainability data management to reduce manual workload.

To meet this challenge, Siemens Corporate IT and Capgemini developed a detailed and scalable data collection framework for its inhouse data centers, hyperscalers, and third-party providers. The partners worked together closely to pilot this framework, creating transparency into CO_2 emissions and energy efficiency. Through data analysis of the resulting baseline and stakeholder interviews, potential optimization measures were identified, including a methodology for standardizing energy and CO_2 data, and supporting a balanced IT hardware procurement process for the inhouse data centers.

The collaboration between Siemens and Capgemini serves as an innovation hub, promoting best practices and continuous improvement. The piloted approach to sustainability in data center operations sets a benchmark for the industry, demonstrating how proactive collaboration can drive significant and lasting change.

A strong foundation for the future

With the developed solution, Siemens Corporate IT has set a remarkable foundation for its inhouse data center sustainability efforts. The company now operates with improved visibility into CO_2 emissions and energy efficiency, enabling decision-making for optimized operations and ensuring regulatory compliance. Meanwhile, the automation of sustainability data management has been targeted with a tooling evaluation to significantly reduce the manual workload, allowing employees to focus on more strategic tasks.

Siemens benefits from the increased operational transparency and strategy to leverage cost savings, which is the result of streamlined processes and optimized resource utilization. In addition, the reduced carbon footprint is in line with the company's climate goals and strengthens its reputation as a sustainability pioneer in the manufacturing and IT industries. The collaboration between Siemens and Capgemini has not only fostered innovation and best practices but also laid a strong foundation for future aspirations.

Looking to the future, Siemens is ready to continue its sustainability journey by building on the success of this project. The company is well equipped to take the next steps to further reduce its environmental impact and drive continuous improvement. To do so, Siemens and Capgemini will continue to drive continuous innovation and create even greater value. The future holds exciting prospects for Siemens as the company continues to lead the way in sustainable data center operations.
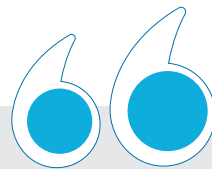
"The sustainability expertise and commitment of Capgemini are remarkable. With excellent results we create added value for all stakeholders and can meet regulatory requirements. With this project, we supported Siemens Corporate IT in consolidating its role as a frontrunner in data center sustainability."

Matthias Reinecke
Project Manager Sustainable Data Centers
Siemens IoT and Platform Services

About Capgemini

Capgemini is a global business and technology transformation partner, helping organizations to accelerate their dual transition to a digital and sustainable world, while creating tangible impact for enterprises and society. It is a responsible and diverse group of 340,000 team members in more than 50 countries. With its strong over 55-year heritage, Capgemini is trusted by its clients to unlock the value of technology to address the entire breadth of their business needs. It delivers end-to-end services and solutions leveraging strengths from strategy and design to engineering, all fueled by its market leading capabilities in AI, cloud and data, combined with its deep industry expertise and partner ecosystem. The Group reported 2023 global revenues of €22.5 billion.

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