

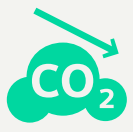
OPTIMIZING YOUR BUILDINGS AND INFRASTRUCTURE: HERE'S HOW TO CREATE A SOLID FOUNDATION FOR THE FUTURE

Productivity and sustainability in the food and beverage industry



New trends are transforming the world

Today's energy-intensive industries are facing tremendous challenges on the path to climate-neutral, economical, and high-quality production. What lies ahead for you?



Decarbonization

Decarbonization increases cost pressure resulting from rising energy and CO₂ prices and the simultaneous need to safeguard the power supply for production and buildings.



Decentralization

The pursuit of (partial) autonomy and the expansion of distributed energy creates a varied energy mix. This opens up new business opportunities!



Globalization

Our world is becoming more and more connected and the global interdependence of individuals, societies, companies, institutions, and nations is steadily increasing.



Digital transformation

Edge devices and machines generate a huge volume of data that has to be effectively used for gaining specific knowledge.

What are your goals for the future?



Achieve your energy and sustainability goals

Sustainability efforts improve your public image and increase your brand value, making them an important competitive advantage. Additionally, helping you to maintain compliance with governmental regulations.



Reduce operating costs and carbon emissions

Identify and exploit energy saving potential in order to reduce your energy consumption and climate-damaging carbon emissions.



Safeguard plant availability and your power supply

Ensure a stable, uninterrupted, high-quality power supply so that production and operation can avoid downtimes.



Make production flexible

Modular solutions and systems are easy to adapt to the individual and changing demands of production and new technologies. These solutions are easy to update and provide flexible set-ups.

Our answers

We help you to boost your sustainability and productivity so that you can optimize your buildings, production plants, auxiliary installations, and power demand. Supporting you in the production of high-quality, nutritious foods.



Digital production

- Complete integration of research and development (R&D) and production
- Management software for the rationalization and optimization of R&D-related processes
- Efficient integration and coordination of R&D and manufacturing data as well as processes
- Combination of previously separate workflows for simulations and tests
- Digital twin that permits smart functionalities and performance optimization after delivery
- Multidisciplinary design exploration, technical simulations and tests with intelligent reports and data analyses
- Prediction of actual product behavior throughout the entire lifecycle
- Integrated software solutions for consistent, end-to-end, comprehensive plant management



Reliable, intelligent power supply

- Reliable and consistently available power supply for your production plant and all your property
- Microgrids that control the balance and load management of generation and consumption
- Companies' expansion of local energy structures to become prosumers
- Smart management of generation, storage, and consumption on site
- Energy storage systems that make it possible to store excess energy, utilize machines more uniformly, and reduce peak loads
- Smart infrastructure, for example with intelligent control of power generation and consumption or the development of a local charging infrastructure for eMobility solutions
- Complete solutions for electromobility from the design and operation of the charging infrastructure to the electrification of your company fleet



Energy and plant efficiency

- Strategic consulting, planning, and maintenance of energy management systems
- Energy management for meeting statutory requirements and for reducing costs and taxes
- Smart buildings, which create environments that interact with their residents, learn from them, and ultimately adapt themselves to changing demands
- Building management system as an open, powerful, and modern platform that increases comfort, efficiency, capacity, and safety
- Genuine smart buildings that learn from past experience and real-time input and increase quality, comfort, efficiency, durability, and safety



Comfortable, secure buildings and plants

- Products, systems, and solutions for carefully coordinated safety systems
- Maximum protection of employees, production, visitors, and assets
- Maximum operating times with maximum energy efficiency and safety for data centers
- Smart processing of data from production and processes
- Integrated data center solutions, expertise and services for optimized sustainability, safety, fire protection, and reliable performance



User-oriented, efficient work environments

- Smart solutions for the fast and reliable reading and conveying of goods as well as unloading and conveying
- Comprehensive portfolio for fire protection, extinguishing systems, and climate control as well as recording in a certified monitoring system
- Extraction and interpretation of all relevant sorting and routing information for food and beverage products
- Complete, integrated solutions for laboratories and cleanrooms: room and building automation including safety, validation, and qualification for safe, comfortable, energy-efficient, and standards-compliant places for working and conducting research, and development.



Consulting, planning, and services

- "Defense in Depth" multilayer plant security concept according to IEC 62443 for plant security, network security, and system integrity
- Holistic approach for reducing your carbon footprint and emissions
- Smart, data-based maintenance of buildings and plants
- Connection of the real world to the digital world through IT/OT integration
- Implementation of the real-time recording and analysis of building data
- Smart financing that also allows more agility, increases capacity, and permits new business models
- Support for generating an optimal financing plan