

## New Pfizer plant in Germany is 40% more energy efficient with Siemens technology and services

- **Pfizer's new high containment production plant is one of the world's most modern and sustainable; uses 40% less energy for environmental control than traditional facilities**
- **Special containment concept, monitored and controlled by Building Services from the Siemens Xcelerator portfolio, boosts safety for employees handling high-potency ingredients**
- **Siemens technology integrates building and production data via Desigo CC**

Pharmaceutical company Pfizer has opened a new high-containment manufacturing facility in Freiburg, Germany, using technology and services from Siemens to make it one of the most modern and sustainable of its kind. Potentially producing up to seven billion tablets a year for more than 180 countries, the plant uses an innovative containment concept - monitored and controlled by Building Services from Siemens Xcelerator portfolio - which ensures employee safety and results in a 40 percent reduction in energy use in its environmental control system, compared to a traditional facility.

Building management platform Desigo CC is the technology backbone of the facility's smart building infrastructure, acting as a central control center to integrate multiple systems and devices, and automate processes. This enables systems to communicate and collaborate with each other, collecting and visualizing data from both the production process and the building in one place.

"All machines and processes are intelligently networked using information and communication technologies, which enables the Pfizer plant in Freiburg to produce more flexibly, faster and with less resource consumption," said Gunther Bechmann,

Senior Manager Operations Manufacturing, Pfizer Freiburg. "The constructive

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cooperation on this project has once again confirmed and expanded the existing partnership that the Pfizer plant has maintained with Siemens for years.”

High containment plants are designed to safely manufacture medications with highly active ingredients, which require handling with the greatest of care. At the Pfizer plant, Building Services from Siemens monitor and control a special containment concept, bringing together multiple disciplines including power distribution, ventilation, air conditioning and heating. As a result of this concept and its technology, Pfizer can manufacture medications with category Occupational Exposure Bands Four (OEB4), with employees only requiring protective clothing to OEB3 level. This creates optimum production conditions, while ensuring maximum safety for employees and increasing efficiency.

“Our work with Pfizer on the new Freiburg plant is an excellent demonstration of how applying an intelligent mix of technology and services can produce exactly the right outcomes, even in a challenging industry like pharmaceuticals, where speed, consistent quality and safety are all non-negotiable,” said Dave Hopping, CEO, Solutions and Services, Siemens Smart Infrastructure. “The result is a faster, more flexible and competitive facility, and a benchmark in ultra-modern, sustainable pharmaceutical production.”

Combining Desigo CC with SIMATIC WinCC - a scalable process visualization system - enables production-related data to be exchanged between the production systems and the visualization system. Data relevant to production from the building management platform is transferred to the supervisory control and data acquisition (SCADA) system, while information from other production systems can be fed into Desigo CC and used for predictive control functions in the building automation systems.

This connection allows building management data to be used in the central management system, and can be accessed at any time from individual production areas. Networking and visualizing data in this way enables the production facility to consume around 40 percent less energy than traditional plants in its environmental control, by intelligently controlling the air flow and temperature requirements in individual zones.

Forming part of Siemens Xcelerator, Building Services is a portfolio of onsite and remote services which improve the operation and maintenance of buildings, through data-driven, outcome-based service programs. Siemens Xcelerator is an open digital business platform to accelerate digital transformation, comprising a curated portfolio, a partner ecosystem and a marketplace to speed up value creation across industry, buildings, grids and mobility.

This press release as well as press pictures / further material are available at <https://sie.ag/3MSTIFi>

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In fiscal 2022, which ended on September 30, 2022, the Siemens Group generated revenue of €72.0 billion and net income of €4.4 billion. As of September 30, 2022, the company had around 311,000 employees worldwide. Further information is available on the Internet at [www.siemens.com](http://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, 2022, the business had around 72,700 employees worldwide.