

Siemens Campus Erlangen: Model of efficiency and sustainability

The groundbreaking ceremony for Siemens Campus Erlangen marks the start of construction of one of the company's most innovative, efficient and sustainable locations worldwide. The first module, on which work is now beginning, will demonstrate Siemens' capabilities in the future-oriented fields of energy distribution and digitalization and help it achieve its goal of CO₂ neutrality by 2030. The levers extend from digital building design and efficient energy supply via a separate cogeneration unit to the use of smart building technology.

All the new buildings at Siemens Campus Erlangen are being planned and constructed in accordance with the Building Information Modeling (BIM) method – the first time the method has been implemented at an entire Siemens location anywhere in the world. This innovative process enables buildings to be planned right from the start using virtual 3D models that take all key data into account. This approach makes it possible, for instance, to identify and avoid collisions between pipes and cable routes during the planning phase rather than afterwards on the construction site. After completion, the BIM supplies all the data needed to manage buildings more efficiently.

To provide the location with a particularly sustainable energy supply, Siemens has joined forces with Erlangen's municipal utility to develop a decentralized energy system that utilizes a separate cogeneration unit to provide district heating and cooling. Combined in a single concept, this system will make it possible to avoid the expensive development or expansion of the energy infrastructure to meet the needs of the new urban district. As a result, all consumers can be supplied with energy in an environmentally friendly and cost-effective way.

The new structures will also use innovative Siemens building technology. As at the company's new Munich headquarters, which were opened last summer, they will implement a large number of solutions from Siemens' environmental and sustainability portfolio. Consistently integrated, state-of-the-art digital technology – such as smart building applications and an intelligent smart-grid-based network connection – will increase the sustainability of the campus's buildings and of the entire location.

Electric mobility is an integral component of the campus concept. The extension of the local public transportation system to include a suburban train stop on the location's west side and a connection to the planned city and a regional rail link on its east side will provide commuters with environmentally friendly access to the campus. Charging stations for e-cars and e-bikes distributed across the campus and in the multi-story car parks will also make private transportation more environmentally friendly, while a digital traffic management system will optimize traffic control on the location.

Digital solutions from Siemens will make Siemens Campus Erlangen not only a flagship for energy efficiency and sustainability, but also the first Siemens location in the world to achieve CO₂ neutrality.

More information about Siemens Campus Erlangen is available at

www.siemens.com/siemens-campus-erlangen

www.siemens.com/press/siemens-campus

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