

## Small grid, major impact: Siemens Campus Microgrid

- **The Siemens Campus Microgrid guarantees optimal energy and heating consumption management**
- **Integration of electromobility and photovoltaic systems into the existing grid without additional grid expansion**

The Siemens Campus Microgrid is an intelligent system for the optimization of the electricity and heating demand on the company's premises in the Viennese district of Floridsdorf. It consists of photovoltaic power generation, e-charging infrastructure, battery storage and the microgrid controller. Next to a safe and reliable provision of electrical energy, it simultaneously reduces the CO<sub>2</sub> footprint and electricity peaks.

The project executed in combination with the infrastructure of an existing industrial enterprise is a game-changer. The showcase demonstrates the behavior and the benefits of microgrids using Microgrid Control – a SICAM application under real-time operating conditions. Thanks to encompassing data collection and analysis, it allows for research on the solutions of the future. Furthermore, the Siemens building management system Desigo has also been integrated, making it possible to adjust the amount of heating provided to the main building in the event of electricity peaks, and thus optimizing the volume of power drawn for the campus. Around 100 tons of CO<sub>2</sub> per year can be saved by the integrated photovoltaic systems, which span a total area of 1,600 m<sup>2</sup>. Furthermore, the Siemens showcase highlights how intelligent load management components can contribute to the integration of electric mobility and photovoltaic power generation, without the need for further grid expansion.

A battery storage solution is used in combination with the microgrid controller to manage electricity peaks. This enables the realization of future-oriented solutions for e-car parks and electric vehicle charging management on the basis of existing consumption behavior.

**Siemens Campus Microgrid Key Figures:**

- Photovoltaic systems: Total area of currently 1,600 m<sup>2</sup> and peak performance of 312 kWp
- Battery storage: Capacity 500 kWh, output: 500 kW
- Fire protection for battery storage: Extinguishing system Sinorix
- Charging stations for electric vehicles
- Desigo building management system
- Microgrid Control – a SICAM application running on a SICAM A8000 platform

More information: <https://sie.ag/3ryu2OA>

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