

Microgrid applications vienna

The Siemens Campus Microgrid is an intelligent system for the optimization of ...

Located in Vienna's Floridsdorf district, the Siemens Campus Microgrid is an intelli- ...

Flashback to 2010: A corporate headquarters opens in the northern part of Vienna that sets new standards in energy efficiency and sustainability. Geothermal energy is also used to heat the building, and the building complex contains a heating and cooling storage system. The heat exchangers in the building services unit enable up to 75 percent of the heat to be recovered from the energy in exhaust air - and those are just some of the innovative features. The efforts by the owner, Siemens Real Estate (SRE), to ensure that the construction process and the building itself were as environmentally friendly as possible were recognized by the award of the gold LEED certificate, in addition to the EU Green Building Certificate.

Nine years later, a project is being initiated at the Siemens City site, once again with SRE as the innovative developer, and again with a number of unique selling points. "Just as the new main building on the corporate campus represented the future of sustainability and energy efficiency for non-residential buildings at the time, this new project points the way to the future of smart energy management solutions," states Franz Mundigler, head of Central and Eastern Europe (CEE) for SRE.

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Nokia, A1 provide private wireless connectivity for Siemens renewable energy microgrid

Espoo, Finland - Nokia and A1 have joined forces to provide a private wireless network for Siemens' microgrid, which is deployed at its Austrian headquarters in Vienna. The A1 campus solution demonstrates the advantages of using a private wireless solution to operate critical applications such as enterprise or utility microgrids, and how they can be efficiently implemented with secure, reliable and fast connectivity.

Renewable energy sources, storage and microgrids are being adopted by industries worldwide to help enterprises minimize their environmental footprint and reach their sustainability objectives. Smartly managed renewables within a microgrid are making an impact on many industrial applications by offering energy cost savings and supplying security to industrial campuses.



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Nokia is providing the industrial-grade private wireless network, while A1 is providing spectrum along with hosting and management of the newly deployed campus network. The private wireless network is connecting the microgrid assets on the Siemens campus, enabling secure communication between the microgrid controllers and the metering or charging points at guaranteed data rates and with low latency.

The Siemens Vienna campus microgrid project includes solar generation, electric vehicle (EV) charging, building management and battery storage. Initially, Siemens has implemented 320kW of solar generation and 500kWh battery storage, all to support around 50 EV charging stations.

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