

## Microgrid operation austria

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Decentralizing the energy system also makes the electricity network more and more flexible. Managing and marketing the flexibility created by smart optimization solutions will become more and more appealing to both the industrial sector and campuses and larger commercial enterprises. The opportunity to reduce power surges and adapt power requirements to costs on the spot market and make flexibility available on the balancing energy market will be a driver of this development in the future.

As electromobility becomes more established, these options will be more attractive to industrial companies with staff parking lots, parking structures, park-and-ride facilities, or perhaps to shopping malls and large residential complexes. Using an electricity storage system in conjunction with a microgrid controller to manage peak loads will make it possible to develop future-oriented solutions for managing parking lots and charging electric vehicles while factoring in consumption patterns.

The charging infrastructure built from Siemens products includes a demonstration of smart charging for electric vehicles: The vehicle's charging capacity can be influenced during the charging process, and in conjunction with the microgrid controller, it can be accessed to optimize peak loads for the entire grid. The electromobility charging infrastructure also features a modular busbar solution (TOB-Charge) for use in garages. The charging infrastructure can therefore grow organically as electromobility advances.

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