Germany commercial microgrids

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Economic growth and growing populations are changing customers" demand for power. Governments and industry are moving towards renewable energy sources such as solar and wind power. At the same time, advancements in digitalization have already transformed many industries. Microgrids and hybrid systems meet the growing demand for more flexible, sustainable and cost-effective solutions.

Whether you are operating infrastructure services or public institutions, or running a commercial business, mtu microgrid solutions offers a wide variety of applications and service products, each individually designed to meet your specific needs.

Advancing Energy Sustainability and Operational Resilience Rolls-Royce and BasePower Ltd"s partnership at Symmetry Park Biggleswade showcases a pioneering achievement in microgrid technology. By integrating combined heat and power (CHP) plants, two battery storage containers, and advanced controls, this microgrid offers a reliable and cost-efficient power solution for industrial usage. Download the use case below to discover:

How to lower both energy costs and environmental impact Electricity makes up a significant share of a mine"s operating costs. Renewable energy solutions such as photovoltaics (PV) and an battery energy storage system (BESS) can lower energy costs by as much as 53% - along with the environmental footprint. How? The following use case of a mine in Australia offers two scenarios. Download the technical article below and discover how:

How to unlock cost efficiency and sustainabilityEnergy costs pose a significant operational challenge now. This case study delves into three scenarios for powering a logistics center: standard, cost-effective, and hybrid. With an optimally designed microgrid solution, these costs can be reduced by as much as 61%. Download the use case below and discover how:

Demand charge reduction Reduce your grid stability power demand by storing power and/or using gensets to lower demand charges which are typically based on the single highest grid stability power draw (in kW) per year.

EV charging integrationEnable business cases concerning electrification of the transportation sector by providing extra power during certain periods when charging of multiple vehicles exceeds the grid capacity. Match local renewable energy generation and car charging to provide true green charging.

Frequency regulation services Provide services to grid system operators - via utility companies or energy traders - such as frequency containment reserve, frequency restoration reserve, etc. to support grid frequency.

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Genset dispatch optimization Reduce your genset runtime and boost genset efficiency by providing spinning reserve from batteries and intelligent load sharing between gensets and batteries whenever gensets are in operation.

Genset flexibilization Enable your gensets to accept large load steps and bridge startup times by adding battery storage. In this way, a genset power plant can be upgraded for off-grid operation or backup power.

Grid limitation management Overcome consumer-side limitations on desired load increase (e.g. factory expansion) due to limited grid connection capacities. Batteries and/or gensets can cover your additional grid stability power loads.

Off-grid energy supply Provide electricity in areas where no grid is available, or reduce your fuel consumption (and hence electricity costs) for existing power plants in off-grid settings by adding renewable energy sources and storage.

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