



Two-minute animation explaining microgrids

What are microgrids & how do they work?

Microgrids are local power grids that can be operated independently of the main - and generally much bigger - electricity grid in an area. Microgrids can be used to power a single building, like a hospital or police station, or a collection of buildings, like an industrial park, university campus, military base or neighbourhood.

What is a remote microgrid?

A remote microgrid is a small-scale power system that can operate autonomously or in parallel with a main power grid. These systems can be customized to accommodate clean energy storage systems, such as solar panels. Off-grid microgrids can work autonomously on 'island mode', while a grid connected to a power grid can bolster what's known as 'grid resilience'. Another huge advantage to local power production is the optimization of heat energy.

How do microgrids manage energy?

Energy Management: Microgrids need a system to manage the flow of energy, ensuring that energy is being used efficiently and effectively. This includes monitoring and controlling the mix of energy sources, as well as balancing the energy supply and demand.

What is the difference between a grid and a microgrid?

A grid is a large network of electrical power lines and generators that supplies power to homes and businesses, while a microgrid is a small, localized network of electrical power lines and generators that supplies power to a specific area, such as a single building or a group of buildings.

Could a microgrid be a smart utility grid?

The U.S. Department of Energy is pursuing a strategy to create a smart utility grid, an automated, cleaner, and less-centralized means for distributed energy resources across the nation. A microgrid fits into this overall strategy in several key ways.

How does a microgrid EMS work?

Then, it controls loads behind-the-meter (such as HVAC, lighting, and refrigeration) to ensure that energy demand is always in balance with supply. In summary, the EMS constantly monitors and adjusts energy demand, ensuring that energy is efficiently used and distributed throughout the microgrid.

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