



# New energy microgrid benefits

What are the benefits of microgrids?

A microgrid can lower energy costs for consumers and businesses. Microgrids can both reduce costs and provide a revenue stream for their customers. They reduce costs through the efficient management of energy supply. They supply revenue by selling energy and services back to the grid. This gives consumers a new kind of control in energy markets.

Are microgrids a good investment?

Microgrids that incorporate renewable energy resources can have environmental benefits in terms of reduced greenhouse gas emissions and air pollutants. In some cases, microgrids can sell power back to the grid during normal operations. Depending on the complexity, microgrids can have high upfront capital costs.

What is a microgrid & how does it work?

When power outages happen, this energy management system allows for fast reconfiguration of distributed renewable energy resources to turn power back on faster than before. Microgrids are localized electric grids that can disconnect from the main grid to operate autonomously, even when the larger grid is down.

Are microgrids the future of power?

Many experts are turning to microgrids -- small-scale, self-sustaining power networks unburdened by ties to a centralized power plant-- as key agents of this transformation. Microgrids provide everything from greater reliability and resilience to cleaner power and economic development.

Can microgrids support resilient energy systems?

Now, thanks to a research project with Siemens Corporation, new technologies enable microgrids to work together, further increasing their potential to support resilient energy systems.

Can microgrids bring electricity to all?

Most generate their own power using renewable energy like wind and solar. In power outages when the main electricity grid fails, microgrids can keep going. They can also be used to provide power in remote areas. A town in the Democratic Republic of Congo is showing the world how microgrids can bring electricity to all.

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**Microgrid Components.** Like a traditional grid, energy generation is the heart of a microgrid system. This can range from diesel generators and batteries, the most common sources at the moment, to power generated by renewable resources ...

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