



Total power generation of US military microgrids

Do military electric power supply need a microgrid?

Military electric power supply, both strategic and tactical, must adapt to this reality and plan for increased future use of microgrids within a generation in the name of mission assurance.

Why is the army developing a microgrid?

To help accomplish this, the Army is pursuing the development of microgrids across its installations. Microgrids are local electrical systems with the controls to manage multiple generation sources and loads. They can provide power and operate independently from the grid during times of emergency response.

What is a tactical microgrid?

The tactical microgrid is a warfighter-operated and maintained power system consisting of a mobile, flexible group of interconnected power generation sources, distribution, energy storage and load devices that act as a single, controllable system to provide electricity on the battlefield.

Can microgrids improve energy resilience?

Since microgrids are not the only way to enhance energy resilience, communities may want to consider alternate resilience investment options, including hardening existing transmission and distribution systems, weatherizing power generation sources, and building additional distribution systems to provide energy supply redundancy.

Can a dc microgrid reduce energy consumption?

The portion of energy used for climate control is orders of magnitude smaller than the portion of energy required by DEWs and ECVs, both of which operate on DC power. Native generation, distribution, and consumption in DC could reduce fuel consumption by as much as 5 percent. The concept of a DC microgrid is preliminary and requires further study.

Why does DoD need a microgrid system?

DOD needs to advance microgrid systems for several reasons. First, DOD has energy assurance and resilience needs that significantly exceed most civilian requirements, and it therefore requires a separate system for energy production and storage.

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