



Foreign Microgrid Military Project Examples

Can a microgrid be installed in the DoD?

Currently, for installation-scale microgrids in DoD, most projects include medium or low levels of renewable energy. Several projects with high levels of renewable energy have been developed and successfully executed at DoD installations, but these are typically at smaller scales.

Are DoD installations pursuing microgrids to meet energy resiliency goals?

Department of Defense Instruction 4170.111 requires installations to be more energy resilient, and as a result, many installations are pursuing microgrids to meet their energy resiliency goals and requirements. This report provides a resource for stakeholders involved in analyzing and developing microgrid projects at DoD installations.

What is a Pacific Missile Range facility microgrid?

Pacific Missile Range Facility Microgrid (Funded by ESTCP): This project will connect two feeders of the distribution system: one has a diesel generating plant with critical loads, and the other has administrative buildings with rooftop solar PV and battery energy storage systems. This microgrid is considered a full feeder microgrid.

What are the different types of microgrid projects?

Microgrid projects in the DoD typically follow one of three general project implementation pathways. These include appropriations-funded projects, privately financed or funded projects, and demonstration projects.

What are examples of microgrid testing?

Examples of Microgrid Testing The ESTCP microgrid demonstration project at the Navy's Pacific Missile Range Facility aimed to integrate an existing diesel generation plant, existing rooftop solar PV arrays, and battery energy storage systems into an economic and cyber-secure microgrid.

What are some lessons from DoD microgrid projects related to O&M?

Some lessons from DoD microgrid projects related to O&M include. Government O&M personnel are generally not experienced with microgrid O&M. Thus, either training or contractor support is required for successful O&M. Operation and maintenance for a microgrid involves many different disciplines, including facilities, electrical, and mechanical.

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