Microgrid Modeling Defense Questions

The outcome of the analysis was a list of M& S projects that will enable the US Army and Department of Defense (DOD) to align their M& S focus, develop a balanced microgrid M& S portfolio, and prioritize ...

To answer these research questions, we propose a comprehensive threat modeling methodology that adapts and extends STRIDE for CPSs and demonstrates the results of its ...

To overcome this problem, the paper presents a learning generative network model, based on the generative adversarial network (GAN) paradigm, to recognize the change in probability ...

It builds on experience and lessons from the U.S. Department of Energy"s (DOE) National Renewable Energy Laboratory (NREL) in supporting numerous DoD projects, including the ...

Such DERs are typically power electronic based, making the full system complex to study. A detailed mathematical model of microgrids is important for stability analysis, optimization, simulation studies ...

This report provides (1) an overview of the microgrid planning, assessment, and design process for DoD installations and (2) is a resource for energy managers, policymakers, contractors, and other ...

This article defines the concept of a Defense Energy Architecture that may guide the construction of microgrid systems to ...

For bases with existing microgrids, study to determine if new construction requires a new microgrid or if it can be integrated to an existing microgrid as an expansion.

This article develops a method to model, analyze, and design military microgrids with the objective to improve their resilience in the face of disconnections from the larger electrical grid.