



SAGE



SMART AND GREEN ENERGY FOR BASE CAMPS

Demonstrate and validate a smart micro-grid and other innovative technology solutions in order to reduce fuel demand at base camps.



Energy Efficient Shelters



Photovoltaic Array



Battery Storage



Future positioning of SAGE technologies at the PM FSS Fort Devens Systems Integration Lab (SIL): (1) A photovoltaic array; (2) energy efficient structures; (3) smart power generation and storage; and (4) solar hot water system

Demonstration Objectives

- Test and evaluate a smart micro-grid prototype to achieve a ~30% - 60% reduction in JP-8 consumption
- Employ intelligent and automated control technologies
- Develop a “build to” design package that enables construction by military engineers
- Deliver contract language to PM LOGCAP

Benefits

- Provides holistic solution for energy generation, storage and management
- Enables Camp Mayor to better control and manage base camp power operations
- Captures “unused” energy for later use to include a “silent camp” capability at night
- Employs common international electrical standards
- Improves Soldier Quality of Life

Technologies Demonstrated:

- Smart Generators
- Energy Storage Capability
- Solar Hot Water System
- Integrated Renewable Energy
- Energy Efficient Structures

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