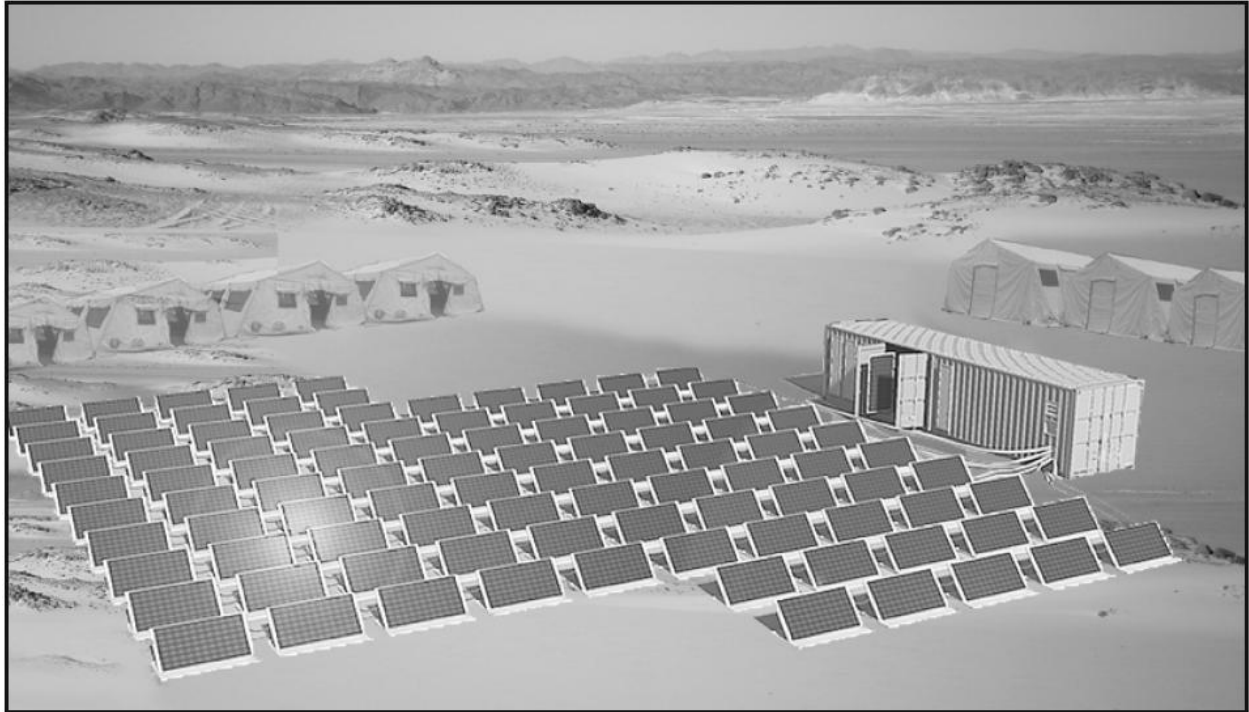




SUN ELECTRONICS Mobile Renewable Energy Unit

Introducing the Mobile Renewable Energy Unit (MREU) from Sun Electronics. The MREU is portable and designed to integrate into existing utility grids in permanent military base environments or with Forwarding Operating Base "Micro Grid" environments during deployment to active military theaters.

The core differentiating factor to the MREU is the low maintenance 90%+ efficient Lithium Phosphate "Never Die®" battery storage with proprietary energy management technology that optimizes every kilowatt-hour produced by the system.

The MREU seamlessly integrates with its standard 30kWp of photovoltaic solar panels that can be deployed by just two people in a matter of hours using FSE's proprietary "Smart Solar Array Setup System©" (SSASS) technology. As a backup to the MREU's renewable energy generators the system includes a 35kW diesel generator that is designed to run at 100% optimum efficiency to decrease the "Fully Burdened Cost of Fuel" that is so critical in deployed environments.

Tested at US military facilities the MREU is a proven deployable energy production, storage, and distribution system for extreme environments.

Unique locking system

Easy to deploy adjustable solar panels

GENERATOR MODULE

Standby power rating 63 kVA-35 kW @ 60 Hz

Fuel capacity 110 gallons

Diesel consumption 2.2 gallons per hour

High efficiency EPA compliant low emission generator

PHOTOVOLTAIC (PV) MODULES Solar generating capacity 30 kWp STC DC**

100 panels @ 300wp each

SSASS rapid panel wiring system

BATTERY MODULE

Lithium "Never-Die®" technology

100 kWh. storage capacity

Max discharge rate 36 kW

Max charge rate 35 kW 3 phase power

* Litium batteries are FAA approved for air transport

SYSTEM FEATURES

Customized high cube ISO container Smart Solar Array Set-Up System© (SSASS) LED interior lighting

Theft-resistant docking and tow system

Interior armor plating optional System footprint ~60' x ~70'