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Contract Holder Strategic Alliance Partner with MIL-COMM Group International (MCGI)

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Agenda

- **Expeditionary Energy Demands**
- **Energy Security**
- **Solutions**











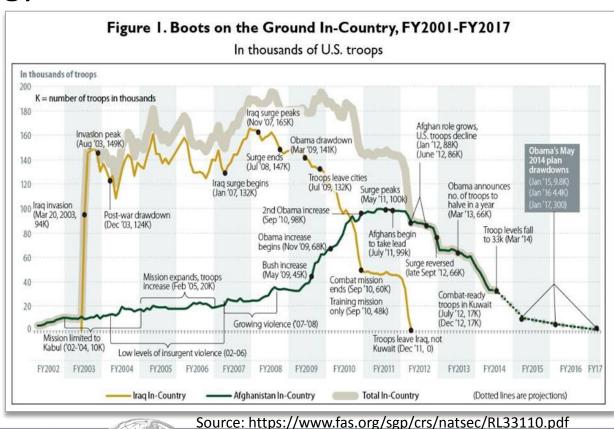






Expeditionary Energy Demands

- More Equipment
 - C4ISR
 - Basing/Billeting
 - **Vehicles**
- More Locations
 - Global War on Terror
 - **Pacific Pivot**
 - **Africa**
 - Europe/Asia













Energy Security

- Expeditionary demands met by oil
 - Financial resources
 - Ample market supply
 - Getting fuel to the end user















Energy Security: Getting fuel to the end user

- Fuel Convoys Concerns
 - Easy Target
 - IED's, ambush attacks
 - Direct and immediate danger
 - Easily Disrupted
 - Hostile environments
 - Environmental issues
 - Vehicle service/failures
 - Danger to those dependent upon fuel for communication, medical, ISR





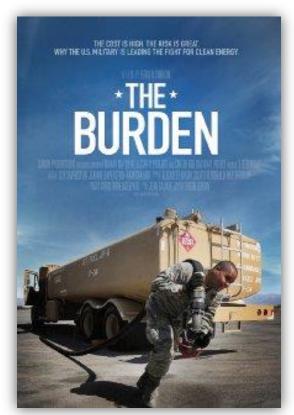








- Energy Security: Getting fuel to the end user
 - Opportunity Cost
 - Escort required to protect convoy
 - Takes warfighters away from primary mission
 - Less safe for everyone
 - Logistics
 - Supply chain required to get fuel
 - Ports, countries, modes of transport
 - Base movement, battlespace dynamics
 - Politics
 - Cost
 - Fully burdened cost increases exponentially deeper onto the battlefield
 - Air transport and other expensive delivery options



The Burden Film, Roger Sorkin











Energy Security Solutions

- Reduce Demand
 - **LED Lighting**
 - Energy efficient facilities
- **Increase Supply**
 - More fuel
 - More convoys
 - Local grid
 - Unreliable
 - Easily disrupted
 - Renewables
 - Localized generation
 - Can be made reliable
 - Very difficult to disrupt













- Renewable Energy Solution to Meet Expeditionary
 - Warfighter Needs
 - Power & Energy Profile
 - **Load Characteristics**
 - Rugged
 - Reliable
 - Simple
 - Mobile





US Military Academy, Camp Buckner, West Point, NY **Cadet Summer Training**













- Renewable Energy Solution to Meet Expeditionary Warfighter Needs
 - Scorpion Energy Hunter™ Renewable Energy System
 - Turnkey, deployable system
 - Saving lives
 - Reduce fuel consumption in off-grid applications











Operational Ease





Past Performance

USMC Expeditionary Forward Operating Base (ExFOB) & Corrosion Prevention, Control and Repair Services (CPAC)

(29 Palms, CA)

Marine Corps Air Station (MCAS) Corrosion Prevention, Control and Repair Services (CPAC)

(Miramar, CA)

Marine Forces Reserve (MARFORRES)

Exercise Javelin Thrust

(Hawthorne, NV and Yuma, AZ)

Marine Forces Reserve (MARFORRES)

Exercise African Lion (Africa)

Base Camp Integration Laboratory (BCIL) (Ft. Devens, MA)

US Army Rapid Equipping Forces (REF) Army Test and **Evaluation Command (ATEC)** (Aberdeen Proving Ground, MD)

US Military Academy Cadet Summer Training Camp Buckner (West Point, NY)

STAR TIDES

(Ft. McNair, Washington, DC)

US Army Rapid Equipping Forces (REF) (Ft. Belvoir, VA)

United States Marine Corps (USMC) Corrosion Prevention, Control and Repair Services (CPAC) (Quantico, VA)

Combined Arms Support Command (CASCOM) (Ft. Eustis, VA)

US Army Expeditionary Warrior Experiment (AEWE) Spiral 1 (Ft. Benning, GA)

US Army Network Integration Army Network (NIE)

US Army Air Traffic Navigation, Integration and Coordination Systems (ATNAVICS)

(US Army Redstone Arsenal, Huntsville, AL)

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(Ft. Bliss, TX)

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- Renewable Energy Solution to Meet Expeditionary
 - Warfighter Needs
 - Scorpion Energy Hunter™
 - Rugged Design Features
 - Containerized Packaging
 - Shock/Vibration Isolation
 - PV Module Racking
 - Battery Chemistry

















Renewable Energy Solution to Meet Expeditionary

Warfighter Needs

- Scorpion Energy Hunter™
 - Reliable Design Features
 - Testing/Validation
 - Thermal
 - Renewable Input
 - Load Characteristics
 - 。 EMI
 - Shock/Vibration









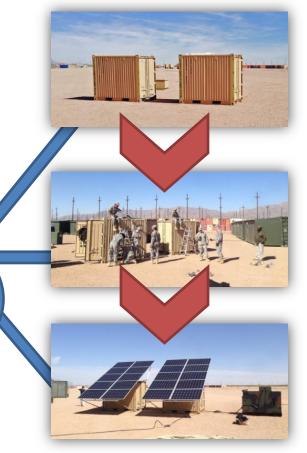




- Renewable Energy Solution to Meet Expeditionary Warfighter Needs
 - Scorpion Energy Hunter™
 - Simple Set-up
 - Color-coded electrical connectors
 - Pinned mechanical connections
 - Simple hand tools



Sets up in 90 minutes















 Renewable Energy Solution to Meet Expeditionary Warfighter Needs

- Scorpion Energy Hunter™
 - Mobile Design Features
 - Intermodal container







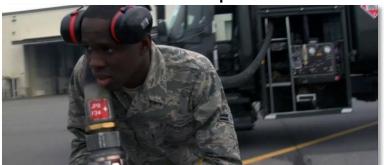








- Scorpion Energy Hunter™: Saving Lives
 - Additional Benefits
 - Generator efficiency
 - Generator service/maintenance
 - Silent Operation
 - Not easily disrupted
 - Low maintenance
 - Green power
 - Fuel-less operation



















THANK YOU.





Scorpion Energy Hunter™ ~ US Patent 8,539,724















Military Technologies



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