

THE POWER IS
IN YOUR HANDS



ENERGY + BASING

THE WARFIGHTER ADVANTAGE

POWERING THE TOTAL ARMY

You have carried enough batteries, lugged enough fuel cans, and protected enough fuel convoys to know the Army uses a lot of energy. It is physically challenging; it places Soldiers at increased risk when guarding or transporting fuel; and it costs billions of dollars that could be used for combat and other missions.

We must learn to use energy to its maximum effect. Energy is a combat multiplier. The power is in your hands to make our Army more effective on the battlefield.



LET'S SOLVE THIS

Operational Energy has started the process by making battery loads lighter, fielding more efficient technologies, and increasing energy awareness. Across the Army, we are training the force on the new technologies, so all Soldiers have confidence that the technologies will perform as intended and increase operational effectiveness.

Now it is your turn. Soldiers must understand how energy optimizes capabilities. Just like ammunition, energy is an operational enabler that must be used effectively. You need to match technologies to requirements, and hone your skills to get the most out of energy resources, whether you're on a dismounted patrol, driving, flying, or on a base.



85% REDUCED SOLAR LOAD FROM SOLAR SHADING. 21% LESS FUEL USED BY NEW GENERATORS. 14 POUNDS OF BATTERIES IS WHAT SOLDIERS USED TO CARRY ON THEIR THREE-DAY MISSIONS. NOW THEY CARRY 9.8 POUNDS.

- 7> Use backup batteries to power critical systems to increase reliability, especially at night.
- 8> Reduce computer, radio, and light use when fuel supply is low, and bad weather or enemy threatens resupply potential.



8 POWER TIPS

You can help create an energy-informed culture where everyone integrates energy awareness into decisions, processes, and behaviors.

- 1> Set your tactical radio power level just high enough to reach others in your network to reduce signature and extend battery life.
- 2> Share high-energy consuming devices among the squad to make room for other important equipment and ammunition.

- 3> Carry solar chargers to provide alternative charging capabilities. Experiment before-hand to determine how long batteries take to charge. Take weather reports into account when deciding how many batteries to carry.
- 4> Turn off electronic devices to maximize power available for increased radio, computer, and display use.
- 5> Use camouflaged solar shade over tents to improve comfort and reduce visual signature.
- 6> Connect multiple generators to maximize reliability and reduce fuel consumption. Monitor generator loads and run only what you need.

OE POWER POINTS

- Saves Lives
- Reduces Threat Exposure
- Reduces The Number of Convoys
- Increases Mobility
- Improves Power Reliability
- Lightens Soldier Load
- Enhances Quality of Life
- Saves Money



OPERATIONAL ENERGY

OPERATIONAL ENERGY

CONTINGENCY BASING

BUILDING A BETTER BASE CAMP

In the last decade, with two demanding wars, the Army built more than 1,000 base camps. Most started as makeshift efforts, and some grew into 10,000-person, energy-intensive operations before they were shut down. You have cranked up enough noisy generators, carried enough fuel, and lost enough sleep to know there has to be a better way. This is especially important for tomorrow's globally responsive and regionally engaged Army that must deploy on short notice anywhere, anytime, in any environment, and succeed.

Contingency Basing is the Army's effort to improve how we plan, design, construct, operate, manage, and transition base camps. The goal is to build a new generation of camps that use less energy and manpower to operate, freeing up Soldiers for other operations. It is another way of turning energy into an advantage, making you more effective on the battlefield.

4 KEYS TO SUCCESSFUL BASE CAMPS ► SCALABILITY | SUSTAINABILITY | STANDARDIZATION | SURVIVABILITY

THE LIFE CYCLE OF A BASE CAMP



DID YOU KNOW?

The Army has camps in Asia, Africa, North and South America, and other locations around the world.

You are likely to be stationed at a base camp at least once during your military service.

INNOVATION @ WORK

The Army runs labs to test base camp technologies and determine if they can work in an operational environment.

FORT DEVENS, MASSACHUSETTS

The Base Camp Integration Laboratory (BCIL) focuses on expeditionary equipment, operational energy, and resource efficient technologies for bases supporting 50 to 2,000 Soldiers.

FORT LEONARD WOOD, MISSOURI

The Contingency Basing Integration Technology and Evaluation Center focuses on prime power, protection, construction, environmental protection capability requirements, and Soldier training for bases supporting 2,000-plus Soldiers.

More efficient base camps result in fewer trucks on the road. This reduces force protection, gives commanders greater flexibility, and provides Soldiers an improved quality of life.



CONTINGENCY BASING

NEXT-GENERATION BASE CAMPS

Several emerging technologies will improve efficiency and reliability at base camps, turning energy into an advantage.

- Micro-Grid Power Distribution
- Energy-Efficient Lighting Systems
- Renewable Energy
- Solar Shading
- Energy-Efficient Shelters
- Black and Grey Water Treatment and Reuse



U.S. ARMY OPERATIONAL ENERGY



ARMY STRONG.

TEAM OF TEAMS

TOTAL ARMY FORCE | JOINT PARTNERS | COMMERCIAL INDUSTRY

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GET CONNECTED

ENABLING PREVENT, SHAPE, WIN.