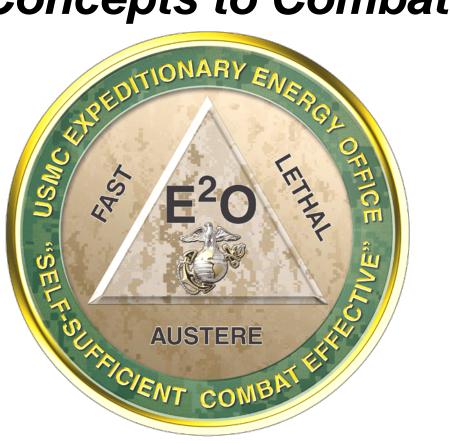


# USMC Expeditionary Energy Concepts to Combat



14 October 2011 Maj Sean Sadlier Logistics Analyst, Expeditionary Energy Office (E<sup>2</sup>O)



# Experimental Forward Operating Base (ExFOB)

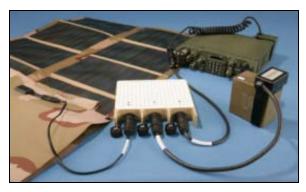






## First ExFOB India Company 3/5 Battlefield Evaluation Helmand Province AFG Early 2010





SPACES (Battery Charger)



GREENS (300 Watts Continuous Power)

To Reduce Fuel & Battery Re-Supply



Solar Shade (100 Watts Continuous Power)





Zero Base (300 Watts Continuous Power)



**Solar Light Poles** 



LED Lights







# Acceleration of ExFOB Gear to OEF Programs of Record





## Cost & Savings:

- <u>Cost \$25M</u>
  - Below Initial Estimate of \$39M
- Projected Savings
  - Est. \$40.9M / Year
  - Est. 9M lbs / Year
  - 450 MV-22 Sorties
  - 180 Fuel Trucks

#### **Operational Impact:**

- Fielding Complete by Feb 12
  - Before Dec 12 Initial Estimates
- Reduced fuel and battery requirements, reduced load
- Improved quality of life with efficient shelters
- Quiet, easy to maintain systems

## Leveraging Learning and Leadership of India Co. 3/5



## Acceleration Gear First Site Installed PB Boldak, June 2011





Training and confidence in equipment are key to realizing savings.



## **Evaluating Next Round of ExFOB Gear**





Hybrid Systems & DC Air Conditioners—Systems Approach

