



USMC Expeditionary Energy Concepts to Combat



***14 October 2011
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Unclassified



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)



Zero Base
(300 Watts Continuous Power)

To Reduce
Fuel &
Battery
Re-Supply



LED Lights



Solar Shade
(100 Watts Continuous Power)



Solar Light Poles

Unclassified







Acceleration of ExFOB Gear to OEF Programs of Record



Cost & Savings:

- Cost \$25M
 - 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

