



**OUR PURPOSE.
YOUR MISSION.**

**Expeditionary Lighting
Challenges for the Military**

Patrick Shipp
Energy Category Manager



ADS: You Have Problems, We Have Solutions

Distributor of COTS and MCOTS items to the Federal government

- *Who's the is guy at the podium, and what does he know about anything?*
- Patrick Shipp, Energy Category Manager
 - ADS, Inc
 - Manages a portfolio of power generation, storage, and distribution products; aimed at increasing customer energy efficiency and resiliency
 - US Department of Energy, Office of Renewable Energy and Energy Efficiency
 - Program Analyst
 - Federal Energy Management Program



Expeditionary Operations

Setting up Operations Where There is No Existing Infrastructure



OUR PURPOSE. YOUR MISSION. | [ADSINC.COM](https://adsinc.com)



LSA, FOB, COP

All have different lighting requirements:

- Size of the area to be lit
- Number of personnel
- Restrictions on lighting/light discipline
- Fuel availability
- Hours of use



Lighting for Security and Safety

Takes on many forms:

- Wide area lighting
- Tents
 - Billeting
 - Command and Control
 - MWR
 - Dining
- Security Lighting
 - Entry Control Points
 - Vehicle Inspection Areas
 - Perimeter Lighting
- Airfield Operations
 - Runways
 - Helipads



Requires Logistical Support

It has to get there somehow, somehow:

- Delivery of the lights
- Placement
- Fuel
- Maintenance



Logistical Support is a Challenge

Not as easy as a trip to the hardware store:

- Replacement parts
- POL for maintenance and operations
- Maintenance and refueling personnel



Industry Innovations

Commercial solutions transferred to the military:

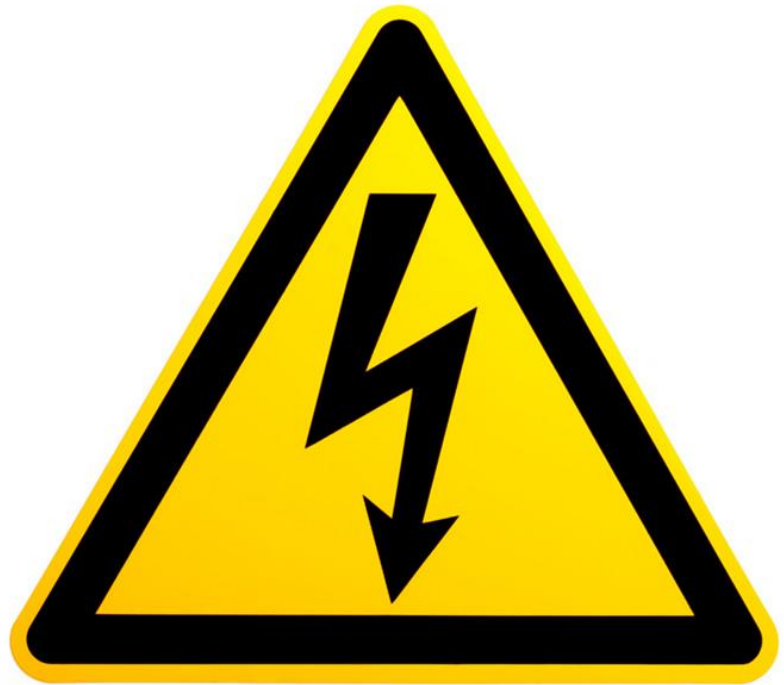
- LEDs
- Hybrid lighting systems
- Solar options
- Battery storage



Drawbacks

Cracking a few eggs to make the perfect omelet:

- Cost
- Electronics, not lights
- Fuel consumption still an issue



Questions...

