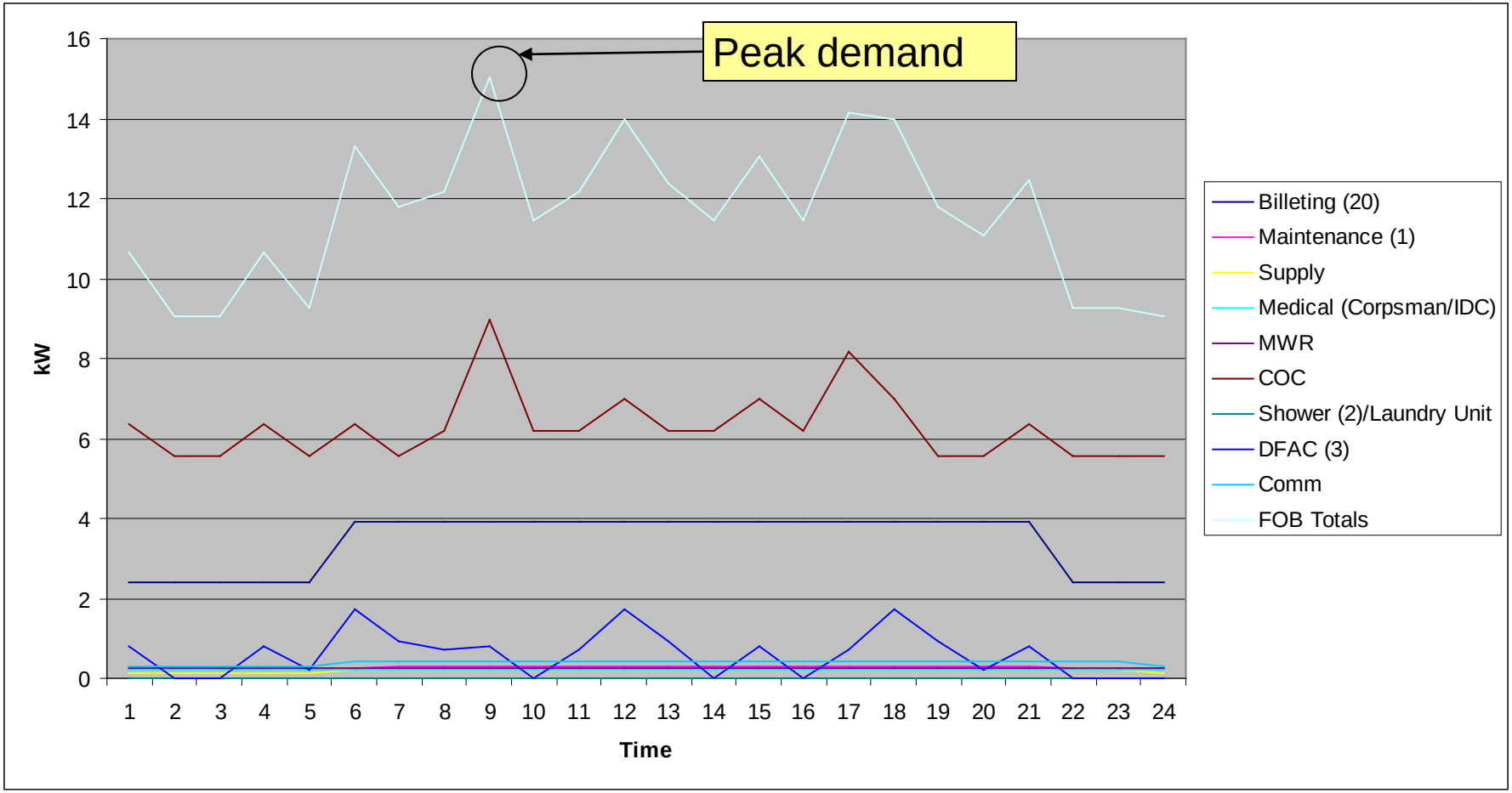
Advanced Planning Briefing to Industry
30 April 2012

Mr Dave Karcher
Director, Energy Systems, SIAT

Increasing Energy Performance

- Focus on our Expeditionary Environment
- Baseline/Energy Audit our current and future gear: generators, vehicles and electronics etc…
- Gather our formal “Requirements”
- Determine the Return on Investment (ROI).



Example: FoB based Rifle Company Energy Demand (OEF)

Total kW-hrs/day: 278 Peak: 15 kW-hrs for 1 hr Avg: 12 kW-hrs

Increasing Energy Performance

- Determine and balance the investment between improving current systems (reduce demand) and new production approaches (increase supply)
- Implement in the POM and Execute!
- A measure of success is “Getting (logistics) Trucks off the Road” as well as saving resources

Areas of Interest

- Increased Energy Performance in:
  - Vehicles, non COTS (tactical) electronics, shelters, energy storage (batteries), lighting, small generators (less then 5kw), heating and cooling systems.
- Measure & monitor energy consumption in our systems and at our FOBS.
- Tactical Renewable energy systems
- Water purification and filtration
- Low interest this year:
  - Medium generators (5-100kw), bio or alternative fuels, M&S tools

How do we measure Energy ROI?

- Engineering perspective: What does the data say?
  - Measurable and repeatable reduction in energy demand/afloat & ashore power consumption
    - Fully Burdened Cost of Energy(FBCE)
- Operational Perspective: How does this improve our capability?
  - Increase our MAGTF range/endurance. Reduce our logistical tail or level of effort. Reduce our cube and/or weight, both ashore and afloat
- Initial and Life Cycle Costs

ALIGNMENT WITH LIGHTENING THE MAGTF

Questions?

Maj Jesse Hardin/Steve Barton
SIAT Energy IPT
jesse.hardin@usmc.mil
(703) 432-3854
steve.a.barton@usmc.mil
(850) 624-8346 (BB)

Rapid Innovation Fund (RIF)

Validation and transition of technologies developed by small businesses which:

- Enhance and accelerate delivery of military capability
- Reduce the cost of weapons systems either fielded or under development
- Improve the quality of life for service personnel

Preference for proposals which meet urgent operational or national security needs

Seeking capabilities which:

- Can be completed within two years and fielded within three years
- Require less than $3M over two years
- Have solid program office support

FY12 BAA to be issued in early July 2012 on FEDBIZOPS (https://www.fbo.gov)

Engage with SIAT/Program Offices NOW if you have a proposal idea!