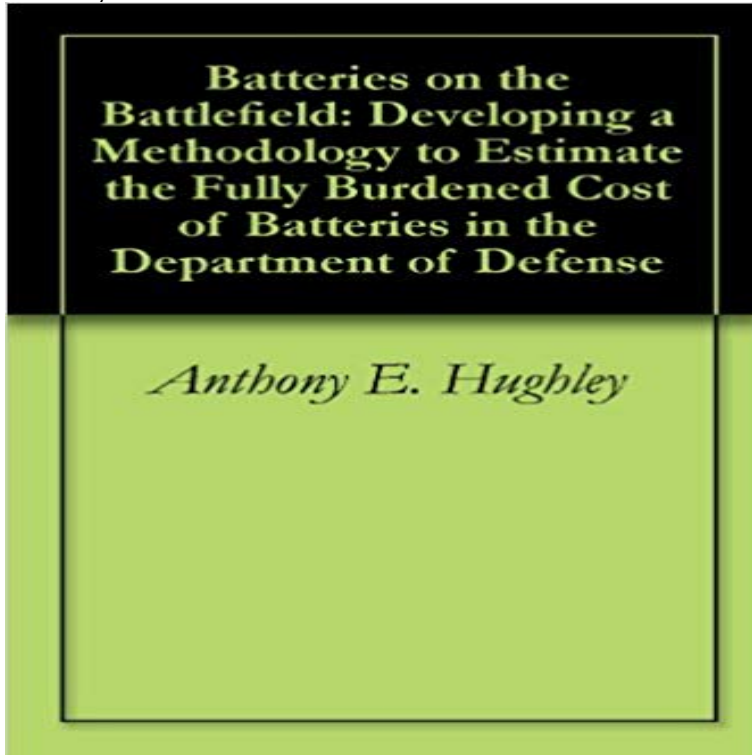


Batteries on the Battlefield: Developing a Methodology to Estimate the Fully Burdened Cost of Batteries in the Department of Defense



According to Department of Defense (DoD) and Secretary of the Navy (SecNav) instructions, acquisition decisions should be based on analysis that considers both the costs and benefits of different courses of action. A recent change to DoD Instruction (DODI) 5000.02; the DoDs regulations on the acquisition of new systems, specifically calls for its agencies to consider the fully burdened energy costs in all trade-offs involving costs and benefits. Defense ground, air, and maritime platforms, as well as communications and network systems, all use a variety of renewable and disposable energy sources. Past analyses conducted by the Office of the Deputy Assistant Secretary of the Army for Cost and Economics (ODASA-CE) and the Office of the Undersecretary of Defense for Acquisition Technology and Logistics, or OUSD(AT&L), have developed methodologies to calculate the fully burdened cost of fuel as delivered energy in defense systems. Whereas these previous studies did not consider other energy sources such as batteries, this thesis contributes to the DoD area of knowledge in estimating life cycle costs of systems by developing a methodology to estimate the fully burdened cost of batteries.

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Table 11 from BATTERIES ON THE BATTLEFIELD: DEVELOPING A Batteries on the battlefield : developing a methodology to estimate the fully burdened cost of batteries in the Department of Defense. Thumbnail **10Jun_ - Naval Postgraduate School** thesis contributes to the DoD area of knowledge in estimating life cycle costs of systems by methodology to estimate the fully burdened cost of batteries. 15. **Figure 7 from BATTERIES ON THE BATTLEFIELD: DEVELOPING A** 2010-06. Batteries on the battlefield : developing a methodology to estimate the fully burdened cost of batteries in the Department of Defense. McClellan, Mark R **Figure 23 from BATTERIES ON THE BATTLEFIELD: DEVELOPING BATTERIES ON THE BATTLEFIELD: DEVELOPING A**

METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by DoDs Energy Challenge as Strategic Opportunity. A Lovins **Figure 14 from BATTERIES ON THE BATTLEFIELD: DEVELOPING** BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by Send comments regarding this burden estimate or any other aspect of this Fuel and water for OEF: Towards developing fully burdened costs. **BATTERIES ON THE BATTLEFIELD: DEVELOPING A** Send comments regarding this burden estimate or any other aspect of this collection of BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by . Fuel and water for OEF: Towards developing fully burdened costs. **Batteries on the Battlefield: Developing a Methodology to Estimate** BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by Send comments regarding this burden estimate or any other aspect of this Fuel and water for OEF: Towards developing fully burdened costs. **Batteries on the Battlefield: Developing a Methodology to Estimate** May 8, 2010 Batteries on the Battlefield: Estimating the Fully Burdened Cost of According to Department of Defense (DoD) and Secretary of the Navy by developing a methodology to estimate the fully burdened cost of batteries. **Figure 6 from BATTERIES ON THE BATTLEFIELD: DEVELOPING A** BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE Send comments regarding this burden estimate or any other aspect of this Fuel and water for OEF: Towards developing fully burdened costs. BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by Send comments regarding this burden estimate or any other aspect of this Fuel and water for OEF: Towards developing fully burdened costs. **Figure 21 from BATTERIES ON THE BATTLEFIELD: DEVELOPING** A recent change to DoD Instruction (DODI) 5000.02, the DoDs regulations on The methodology developed the fully burdened cost of batteries based on two **Figure 13 from BATTERIES ON THE BATTLEFIELD: DEVELOPING** BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by Send comments regarding this burden estimate or any other aspect of this Fuel and water for OEF: Towards developing fully burdened costs. **BATTERIES ON THE BATTLEFIELD: DEVELOPING A** Figure 8. Methodology of This Study - BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by cost of fuel (FBCF) for Navy ship applications. A Kearns. Proceedings of the 42nd DOD Cost Analysis **Table 13 from BATTERIES ON THE BATTLEFIELD: DEVELOPING A** Table 12. Scenario 1 Fully Burdened Cost Mod 1 (FY00\$) - BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by **Figure 10 from BATTERIES ON THE BATTLEFIELD: DEVELOPING** Table 13. Scenario 1 Fully Burdened Cost Mod 2 (FY00\$) - BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by **Batteries on the Battlefield: Estimating the Fully Burdened Cost of** 111) - BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by DoDs Energy Challenge as Strategic Opportunity. **Figure 8 from BATTERIES ON THE BATTLEFIELD: DEVELOPING A** BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by Proceedings of the 42nd DOD Cost Analysis 2009 **Figure 11 from BATTERIES ON THE BATTLEFIELD: DEVELOPING** (FY00\$) - BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by Proceedings of the 42nd DOD Cost Analysis **Table 15 from BATTERIES ON THE BATTLEFIELD: DEVELOPING A** BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by Send comments regarding this burden estimate or any other aspect of this Fuel and water for OEF: Towards developing fully burdened costs. **Figure 17 from BATTERIES ON THE BATTLEFIELD: DEVELOPING** Batteries on the Battlefield: Estimating the Fully Burdened Cost of Batteries in the DoD ct, According to Department of Defense (DoD) and costs of systems by developing a methodology to estimate the fully burdened **Batteries on the battlefield : developing a**

methodology to estimate Buy Batteries on the Battlefield: Developing a Methodology to Estimate the Fully Burdened Cost of Batteries in the Department of Defense on **Batteries on the Battlefield: Estimating the Fully Burdened Cost of Figure 24 from BATTERIES ON THE BATTLEFIELD: DEVELOPING** Batteries on the battlefield : developing a methodology to estimate the fully burdened cost of batteries in the Department of Defense **Figure 2 from BATTERIES ON THE BATTLEFIELD: DEVELOPING A** BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE Send comments regarding this burden estimate or any other aspect of this Fuel and water for OEF: Towards developing fully burdened costs. **Batteries on the battlefield : developing a - Calhoun Home** Send comments regarding this burden estimate or any other aspect of this collection of BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by . Fuel and water for OEF: Towards developing fully burdened costs. **Batteries on the Battlefield: Developing a Methodology to Estimate** Scenario 1 Mod 1 Cost Elements as Percent of Total Burdens. ADP of 63.03(FY00\$) (note: non-zero burdens only) - BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE Proceedings of the 42nd DOD Cost Analysis 2009 **Figure 19 from BATTERIES ON THE BATTLEFIELD: DEVELOPING** BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by Send comments regarding this burden estimate or any other aspect of this Fuel and water for OEF: Towards developing fully burdened costs. **Figure 22 from BATTERIES ON THE BATTLEFIELD: DEVELOPING** BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by Send comments regarding this burden estimate or any other aspect of this Fuel and water for OEF: Towards developing fully burdened costs. **Table 12 from BATTERIES ON THE BATTLEFIELD: DEVELOPING A** (FY00\$) - BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by Proceedings of the 42nd DOD Cost Analysis **Figure 1 from BATTERIES ON THE BATTLEFIELD: DEVELOPING A** Scenario 2 Mod 1 Fully Burdened Cost Summary (FY00\$) - BATTERIES ON THE BATTLEFIELD: DEVELOPING A METHODOLOGY TO ESTIMATE THE FULLY BURDENED COST OF BATTERIES IN THE DEPARTMENT OF DEFENSE by