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Cutting the Army's Umbilical Cord

By Maj Matthew A. Price

Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 64 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. The U. S. dependence on foreign oil is a national security concern. The Department of Defense is the largest federal government consumer of oil and the Army plays a significant role in reducing consumption. To do this, the Army must reduce fuel consumption at U. S. installations but most importantly, at deployed locations. Improving the efficiency and decreasing consumption of sustainment platforms, the largest battlefield consumers of fuel, became an Army priority during Operations Iraqi and Enduring Freedom. This new focus on emerging fuel technologies has the potential to decrease the logistical requirements in theater, reduce the budget outlays for fuel, and reduce risk for soldiers. In order to validate these claims, this monograph analyzes three case studies. The three emerging fuel technologies evaluated are microgrids, solar and wind power generators, and hybrid-electric tactical wheeled vehicles. The method used in the case studies is to replace an inefficient existing technology with the new one and calculate fuel savings, cost savings, risk reduction, and casualty reduction. The data collected from the analysis of these case studies draw some eye opening conclusions. Most...



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