



Energy and Security Group

ENERGY AND SECURITY GROUP

Addressing natural resource issues at the heart of global security

Our Mission

ESG strives to expand the use of clean energy and environmental technologies and practices to enhance economic performance, promote energy security, improve quality of life, and advance resource sustainability.

Core Competencies

The ESG team is experienced in operations research analysis, logistics supply chain modeling, energy and water benchmarking, decision support tool development, policy and program evaluation, and related training and education. ESG publishes materials for both technical and lay audiences and has strong research and writing skills. ESG applies these skills to find versatile, feasible and practical solutions to national and international problems related to limited natural resources. Current ESG projects focus on:

- ▶ National and international energy and water policy
- ▶ Energy and water benchmarking
- ▶ Analysis and analytic framework development
- ▶ Decision support tool development
- ▶ Group training and educational products
- ▶ Research and technical writing
- ▶ Project development and finance facilitation
- ▶ Program management



General Information

DUNS #: 116656773

CAGE Code: 3AYW4

Classification:

Small Business

Contract Vehicles

- ▶ GSA MOBIS Schedule 874-1
GS-10F-0451P (now
Professional Services
Schedule (PSS))
- ▶ USAID Clean Energy IDIQ
Non-CPCs

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Recent Products

Technical Reports available on www.dtic.mil

- ▶ Fully Burdened Cost Tool Scenario Expansion
- ▶ Fully Burdened Cost of Intra-Theater Resupply Distribution of Classes I, II, IV, V, VIII, and IX Estimation
- ▶ Fully Burdened Cost (FBC) Tool: Greenhouse Gas Emission Impacts
- ▶ Fully Burdened Cost of Water in the Army: Methodology and Capability

User Guides available on www.energystar.gov

- ▶ ENERGY STAR® Action Workbook for Small Business
- ▶ ENERGY STAR® Action Workbook for Congregations

Methodologies and Decision Support Tools

- ▶ Fully Burdened Cost Tool
- ▶ Methodology and Analysis of Energy Security in Military Operations, available on www.aepi.army.mil

NAICS Codes

- ▶ 541611 Management and General Consulting
- ▶ 541614 Process, Physical Distribution, and Logistics Consulting Services
- ▶ 541511 Custom Computer Programming Services
- ▶ 541690 Other Scientific and Technical Consulting Services
- ▶ 541990 All Other Professional, Scientific, and Technical Services

ESG Clients





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Selected Past Performance Examples

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Power Africa Uganda Electricity Supply Accelerator (PAUESA), U.S. Agency for International Development

September 2017 (3 years): This USAID project supports the Government of Uganda's efforts to increase electricity generation and increase access to electricity in Uganda through accelerated energy transactions and improving the enabling environment for energy investments.

Fully Burdened Cost Tool Scenario Expansion Follow-On, U.S. Army Tank-Automotive Research, Development and Engineering Center*

November 2016 (1.5 years): ESG provides analytical support pertaining to scenario-specific cost analysis for fuel, bulk water, and bottled water using the Fully Burdened Cost (FBC) Tool. ESG also supports general operations and maintenance of the FBC Tool.

Microgrid Development Assessment in Haiti, U.S. Trade and Development Agency*

May 2015 (1 year): The goal of this project was to increase access to reliable electricity in Haiti by enabling preparation of a fundable investment plan for microgrid expansion. ESG completed a feasibility study to assess and rank the viability of developing microgrids in approximately 100 Haitian towns based on economics, physical infrastructure and community objectives.

Developing an Operational Energy (OE) Capability Improvement Fund (CIF) Theater Supportability Analysis Tool Kit, U.S. Army Logistics Innovation Agency*

March 2015 (3 years): ESG implemented FBC Tool improvements to enhance user experience. The FBC Tool is an ESG-developed, independently verified and validated decision support tool for estimating and analyzing the FBC of energy and water required to sustain Army missions. The FBC Tool supports full-spectrum logistics operations to include combat and stability missions and planning for future Army operations.

Power Africa, U.S. Agency for International Development*

August 2014 (1.5 years): Power Africa goals are to increase electrical power supply availability, reliability, affordability, and access while lowering greenhouse gas emissions and increasing efficient use of resources in Africa. ESG provided technical assistance, capacity building and project transaction support services under the Power Africa Initiative, with the focus primarily on Liberia. ESG activities included institutional support to the Power Africa Coordinator's Office, late stage transaction support, small scale projects and rural electrification, mini-grids support, regulatory and institutional strengthening and policy reform.

Fully Burdened Costs of Intra-Theater Resupply Distribution of Classes I, II, IV, V, VIII, IX, U.S. Army Logistics Innovation Agency*

April 2014 (1.5 years): ESG identified data sources and defined and demonstrated a methodology for estimating the FBCs of Class I, II, IV, V, VIII, and IX materiel in a theater distribution system. The methodology included development of a framework to apply Army FBC energy guidance across supply classes and expanded associated FBC metrics.

Methodology and Analysis for Water Security in Military Operations (MAWSMO), Office of the Assistant Secretary of the Army for Installations, Energy & Environment

October 2012 (1.5 years): ESG reviewed the Army's enterprise-level water framework and proposed changes to improve upon current practices by integrating water modeling and analytic capabilities. The proposed framework leveraged existing capabilities and was designed to be both feasible and affordable. MAWSMO recommendations can increase mission effectiveness and efficiency by saving lives, increasing water reuse, maximizing the beneficial use of each gallon of water, increasing logistic agility, decreasing energy/fuel use, reducing costs, and diminishing the water/environmental footprint.

EPA ENERGY STAR® for Small Business and Congregations Network, U.S. Environmental Protection Agency

January 2007 (10 years): ESG serves as the lead contractor to EPA for U.S. small businesses and congregations participating in ENERGY STAR, focusing on energy efficiency training and education as well as energy/water benchmarking. ESG provides web-based training and support for energy efficiency, one-on-one meetings, report and training guide preparation, training on the methodology and benefits of benchmarking, and detailed results analysis. Additionally, ESG coordinates with organizations and service providers to benchmark large groups of properties.

*ESG served as a subcontractor on this project.