



J.M.WALLER®
ASSOCIATES, INC.

MANAGING THE VISION® | ENVIRONMENTAL | FACILITIES | LOGISTICS



A Department of Defense SDVOSB Achievement Award Recipient



ENERGY SERVICES

**Energy Management . Planning & Programming
Asset Management . Documentation Support**

J. M. Waller Associates, Inc. (JMWA®) provides a broad range of energy services focused on improving energy efficiency, eliminating waste and enhancing the quality of life while meeting an organization's mission requirements. We stand ready to provide a variety of energy related services to help you design and execute your energy strategy and supply hands-on knowledge to take your energy projects from implementation through completion.

We provide specialized energy expertise and qualified staff in all phases of administration, planning, programming, budgeting, operations and maintenance activities. Our understanding of Department of Defense (DoD)-wide energy goals, policies and legal requirements combined with our extensive knowledge of states and individual clients allow us to tailor a plan specific to reducing your energy costs, increasing energy efficiency and developing renewable energy projects.

Energy Services



JMWA has established long-term relationships with our clients by providing high quality products and services. Our energy specialists work hard to earn the trust of our federal clients by delivering superior work and ensuring that we complete tasks on time and within budget while providing cutting edge solutions.

Our energy experience spans multiple DoD clients, including in-depth experience with the National Guard Bureau (NGB). We currently are providing energy management support to Indiana, Delaware, and New York National Guard agencies. Additionally, we have supported the Department of the Air Force's energy initiatives by providing energy management program support to Bolling Air Force Base and the District of Columbia Air National Guard.



Energy Service Product Areas

Our energy expertise spans a vast range of services and products. We are particularly adept at tailoring our services to address a single specific need or to execute large-scale projects. Our energy specialists, project planners and facility managers will team with your senior leadership to ensure your questions are answered thoroughly and appropriate steps taken to complete your project in a timely manner, within budget and with the highest level of professionalism.

JMWA offers technical and management support in:

Energy Planning & Programming Charrettes

We have substantive technical knowledge, employee resources and experience to cover every aspect of energy planning and the development, facilitation, and preparation of outcome documentation of energy planning and programming charrettes.

Energy Facility Operation Capability and Utilization Studies/Analyses (e-FOCUS)

JMWA provides comprehensive Facility Condition Assessments and Facility Utilization Surveys of facilities, equipment and energy sources. We provide clients with an across-the-board description of existing and planned facilities in order to identify deficiencies or areas where alternative energy technologies or solutions could be implemented to increase energy efficiency.



By assessing current equipment infrastructure, JMWA Energy Specialist can rapidly determine deficiencies and offer solutions to save energy and money.

Sample Energy Projects - Army

Delaware Army National Guard (DEARNG), Wilmington, DE

JMWA developed several energy projects to transition DEARNG facilities energy consumption to new renewable sources. Specific work included:

- Geothermal ground source heat pump closed loop deep well projects at the Dagsboro Readiness Center and U. S. Property and Fiscal Office for Delaware. The geothermal projects consist of approximately 70 wells, each 300 feet in depth that provide facilities with a constant onset temperature point
- Performing lifecycle cost analysis, simple payback in years, and savings-to-investment ratio project analysis for the installation of 400-kilowatt large photovoltaic solar array system at the Bethany Beach and River Road training sites
- Installation of three 250-kilowatt wind energy turbines at the Bethany Beach training site

Indiana Army National Guard (INARNG), Indianapolis, IN

JMWA provides energy system upgrades and project management that are instrumental in the energy efficiency activities of numerous facilities throughout Indiana. Specific work includes:

- Commissioning of new construction projects to ensure new buildings and associated equipment are constructed according to design specifications and effectively integrated with Energy Management Control Systems
- Installation of Statewide Enterprise Energy Management Control System to link all INARNG facilities individual systems together into one secure intranet system to monitor energy consumption for each building
- Replacement of large WWI hangar building's steam boiler system with Gas Fired Radiant Heat system to reduce central steam system load and utility cost



JMWA installed a Gas Fired Radiant Heat system, reducing the boiler system load and annual heating cost for large hangar.

Sample Energy Projects - Army

New York Army National Guard (NYARNG), Geneva, NY

JMWA performs energy assessments and program management that are vital to energy efficiency operations of NYARNG facilities and armories. Specific work includes:

- Conducting Annual Energy Awareness Training of Officers-in-Charge and Control and District Maintenance Supervisors to provide information and guidance to senior leadership on achieving federal and state energy requirements to reduce energy consumption



JMWA energy experts replace outdated equipment, such as this water boiler, with energy efficient models.

- Performing benchmark analysis on 102 NYARNG facilities to measure energy performance and to evaluate energy systems for energy efficiency improvements
- Installation of Energy Portfolio Manager Database to manage NYARNG's armories and maintenance facilities energy consumption and normalize data

Army Meter Data Management System Assessment, Fairfax, VA

JMWA performed an independent analysis of federal energy policies and energy management activities that are instrumental in supporting the Army's Meter Data Management System. This supports the Army's mission to consolidate and organize Army installation meter data, providing near real-time analysis helping reduce energy and water consumption at all levels of the Army. Specific work includes:

- Performing financial analysis of DoD's facility energy spending and operation/maintenance budget to identify total DoD funding spent on facility energy
- Evaluating and analyzing installation energy management operations and installation energy manager meter data to reduce energy consumption
- Developing final reports, recommendations and solutions for incorporating a Meter Data Management System into an installation's energy management operation

Sample Energy Projects - Air Force

11th Civil Engineer Squadron (CES), Bolling AFB, Washington, DC

JMWA provided program management and technical assistance to 11th CES to implement the United States Air Force Infrastructure Energy Strategic Plan. Specific work includes:

- Development and implementation of energy management plan to increase awareness of energy-efficient concepts and environmental stewardship
- Conducting comprehensive reviews of Bolling AFB energy conservation activities to report energy savings and environmental stewardship for Annual Energy Congressional Report
- Evaluating and analyzing utility service data to identify energy efficiency opportunities through system analysis of the Energy Management Control System

113th District of Columbia Air National Guard (DCANG) CES, Andrews AFB, MD

JMWA performs energy assessments and upgrades that are vital to energy efficiency operations of DCANG facilities. Specific work includes:

- Installation of 12 gas and water advanced digital sub-meters (ADMs) that provide interval and remote reading capabilities on DCANG facilities
- Conducting energy benchmark analysis on 25 DCANG facilities to measure energy performance and to evaluate energy systems for energy efficiency improvements
- Installation of Department of Energy's Energy Star Portfolio Manager to establish energy management processes, to manage DCANG's energy consumption on a monthly basis, and to achieve EPACT'05 goal of 30 percent energy intensity reduction by 2015



JMWA utilizes powerful software tools to assess and evaluate client energy needs, allowing us to assist with energy compliance such as LEED, EPACT and Department of Energy regulations.

For our successful efforts, JMWA has received numerous national awards, including:

- 2010 District of Columbia Small Business Person of the Year Award
- 2010 Society for Marketing Professional Services National Marketing Communications Award: Newsletter Internal
- 2009 Air Force Design Merit Award for Lackland AFB, TX, Recruit Housing and Training Master Plan
- 2009 SAME Industry Award to a Small Business in Support of DoD Programs
- 2009 AEGIS Award Recipient
- 2008 Department of Veterans Affairs Enterprising Veteran of the Year Award
- 2007 Department of Defense Service Disabled Veteran Owned Small Business Achievement Award
- 2007 Science Applications International Company (SAIC) Small Business of the Year Award

Points of Contact

For more information about JMWA's Energy services, or any of our other Environmental, Facilities or Logistics lines of business, visit us at www.jmwaller.com or contact one of our offices below.

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