

PROJECT EXAMPLES

Occupancy sensors that detect motion and infrared heat in restrooms and workspaces have replaced traditional light switches throughout many buildings at Joint Base Pearl Harbor-Hickam.



Highbay skylights installed on old and dark warehouse-type structures, such as Bldg. 166, allow sunlight to brighten work areas, improving visibility and providing a safe working environment.



Solar hot water panels on the Pearl Harbor Child Development Center help contribute to its "net-zero" energy consumption and a Leadership in Environmental and Energy Design (LEED) Platinum rating.



For more information, contact NAVFAC Hawaii's Energy Program at (808) 471-0440.



ENERGY GOALS

- Meet energy reduction standards set forth in the **Energy Independence and Security Act of 2007** (requires agencies to reduce energy consumption by three percent a year or 30 percent by the end of fiscal year 2015 beginning in fiscal year 2006).
- Meet water reduction standards set forth in **Executive Order 13423** (requires agencies to reduce water consumption by two percent annually, through fiscal year 2015).
- Meet renewable energy requirements set forth in the **National Defense Authorization Act of 2007** (requires 25 percent of the energy consumed at an installation be produced or procured from renewable energy sources by 2025) through a variety of renewable energy projects.

LONG-TERM GOALS

- Continue to research energy efficient technology and develop and implement projects that decrease energy consumption.
- Increase production and procurement of renewable energy.
- Meet federal energy reduction goals.
- Improve energy security.

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Hawaii Navy Energy Program

Initiatives & Goals



The photovoltaic system on Bldg. 654 is one of a number of rooftop energy arrays on buildings throughout Navy Region Hawaii to include Joint Base Pearl Harbor-Hickam and Pacific Missile Range Facility Kauai.

MISSION

Navy Facilities Engineering Command (NAVFAC) Pacific and its component commands (Hawaii, Marianas, and Far East) strengthen Navy and Marine Corps combat readiness for customer commands throughout the U.S. Commander Pacific Fleet area of responsibility through effective facilities lifecycle support focused on the Fleet, Fighter, and Family.

We develop and deploy strategic energy and water conservation initiatives, including renewable energy and energy security projects, to secure a sustainable energy future that assures our national defense mission and supports State and community strategic clean energy initiatives.

AREA OF RESPONSIBILITY

Navy Region Hawaii is comprised of several bases on the island of Oahu and the Pacific Missile Range Facility on the island of Kauai. The command has responsibility for 2,695 shore facilities, 19 million square feet of property, 50,000 personnel, and a \$176 million annual utilities budget.

STRATEGIC ENERGY INITIATIVES & PARTNERSHIPS

Navy Region Hawaii is involved in several critical energy strategic



partnerships that reach across federal and state boundaries and provide tangible benefits to the surrounding communities.



NAVFAC Hawaii Utilities Manager Glenn Todd holds an Advanced Meter, which when installed, will help buildings on JBPHH monitor their energy consumption.

A few examples of partnerships include U.S. Pacific Command's Energy Partnership and Strategic Council, the Hawaii Clean Energy Initiative, Hawaii State Green House Gas Task Force, Office of Naval Research Energy Program Investment in Hawaii, the Department of Defense-Hawaiian Electric Company Executive Committee, Rebuild Hawaii, and Public-Private Venture housing partnership.

CURRENT ENERGY REDUCTION INITIATIVES

- Initiating a Navy-led Department of Defense distributed-generation initiative aimed at increasing renewable energy production and procurement for all military services in Hawaii.
- Implementing \$9.9 million in locally funded energy projects that will save the Navy in Hawaii approximately \$3.2 million annually.

- Continuing the installation of a photovoltaic and solar hot water arrays at various Navy locations in Hawaii.
- Pursuing additional alternative financed projects to include: a \$26 million Energy Savings Performance Contract and \$2 million in Energy Conservation Investment Program projects.

ACCOMPLISHMENTS

- ✓ As of January 2012, achieved an 18 percent cumulative reduction in energy consumption from fiscal year 2005 and a cumulative zero percent reduction in water consumption from fiscal year 2007.
- ✓ In 2011, Navy Region Hawaii received recognition for its energy efforts with the receipt of four Secretary of the Navy (SECNAV) awards: Blue Energy Award to Pacific Missile Range Facility, Kauai, and three Gold Energy Awards to Naval Station Pearl Harbor, NAVFAC Hawaii, and Pearl Harbor Naval Shipyard/ Intermediate Maintenance Facility.
- ✓ In July 2011, the Navy at Pearl Harbor completed its first Energy Savings Performance Contract (\$8 million) aimed at saving Navy Region Hawaii approximately \$694,000 annually.

