EGLIN AIR FORCE

U.S. Air Force Selects Induction Streetlights to Reduce Energy Costs at Eglin Air Force Base in Florida
EverLast® Lighting Saves Eglin Air Force Base 50% in Energy Costs

The U.S. Air Force selected patent-pending induction streetlight fixtures in an effort to reduce energy costs at Eglin Air Force Base in Valparaiso, Florida. According to Eglin officials, both energy and maintenance savings were critical factors in the decision-making process, and due to strict limitations on where LEDs can be used*, the Air Force sought out an alternative solution that was equally efficient. EverLast® induction cobra head streetlights were deemed more cost effective and found to produce better illumination than LED streetlights that are currently commercially available.

"The Department of Defense is the largest energy consumer in the United States," stated Brandon Marken, Director of Commercial Sales at EverLast® Lighting. "By selecting our technology, Eglin has reduced their lighting energy consumption by 50 percent. As more military bases utilize induction technology, the Defense Department will see a drastic reduction in spending on lighting expenses."

In March of 2010, the Department of the Air Force released an Engineering Technical Letter (ETL) as guidance and criteria for specifying, designing and installing LED luminaires for interior and exterior applications at Air Force installations. The ETL states that due to a slow ROI and inconsistent performance claims, LEDs are not permitted for interior or exterior lighting applications except when used for: exit signs, general signage, traffic signals, step lighting, or directional accents and other low-level lighting applicaitons.*

Historically, the military has not been considered environmentalists or conservationists; however, in 2009, approximately 70 Eglin facility managers attended an energy audit training course to familiarize themselves with their facilities' energy usage and to help them better identify problem areas and opportunities for energy efficiency upgrades. Lighting upgrades are being made as part of a base-wide effort to make Eglin the Department of Defense's leader in energy conservation and stewardship.**

On February 16, another branch of the military committed to taking steps toward energy-efficiency. "The Navy signed a Memorandum of Agreement with the University of California, Davis to collaborate on energy-efficient, next-generation lighting systems," Marken stated. "Their goal is to work with the California Lighting Technology Center (CLTC) and affiliates to install and demonstrate adaptive exterior lighting technologies at military facilities for improved safety and energy savings." By working directly with renowned research partners and testing facilities, namely CLTC at UC Davis, EverLast® brings next-generation lighting solutions to the market.

What is now known as Eglin Air Force Base was established in 1931 when members of the Army Air Corps Tactical School saw the potential of the sparsely populated forested areas surrounding Valparaiso, Florida, and the vast expanse of the adjacent Gulf of Mexico. For more than 80 years and spanning six wars, Eglin has played a prominent role in airpower history.***

EverLast® fixtures have been selected for lighting upgrades at many other military and government locations throughout the country, including USAF in Whitman, MO; U.S. Navy in Pearl Harbor, HI; USCG in Clearwater, FL; USCG in Mobile, AL; U.S. Army at Fort Drum, NY, and NASA Johnson Space Center in Houston, TX.

*http://www.everlastlight.com/download/pdfs/everlast/Army-Air-Force-LED-bans.pdf
**http://www.eglin.af.mil/news/story.asp?id=123133407
***http://www.eglin.af.mil/units/index.asp

FORT DRUM

Fort Drum Military Base Complete Major Installation of U.S. Made EverLast® Induction Light Fixtures

For more than 100 years Fort Drum has provided installation support to U.S. soldiers and their families. The 108,000 acre Military base supports the mobilization of approximately 80,000 troops annually. In operation since 1908, Fort Drum is the home of the 10th Mountain Division, a group trained to rapidly deploy by air, sea and land to anywhere in the world. Fort Drum is an American Institution, so when it came time to implement a high-efficiency street lighting initiative, it was no surprise they selected EverLast® U.S. Cobra Head and Shoe Box Fixtures - state-of-the-art induction lighting, from an American company.

EverLast® Lighting, a brand of Full Spectrum Solutions, is the manufacturer of the U.S. Induction Cobra Head and Shoe Box fixtures that are being installed at Fort Drum. With its LEED Platinum manufacturing facility located in Jackson, Michigan, EverLast® was the best choice for supplying the first phase of more than a thousand induction fixtures needed at the base. EverLast® worked closely with local contractors, ESCOs, and the engineers at Fort Drum to find the right fixture for the project.

Energy and maintenance savings were two critical factors in the decision-making process. EverLast® induction light fixtures offer a 100,000 hour lamp life, coupled with an efficacy of 85 lumens per watt, making it a very energy-efficient and cost-effective lighting solution. Additionally, maintenance costs are virtually eliminated due to the extended life of the induction lamp.

Environmental concerns were also prevalent throughout the decision-making process. Not only was there a desire to reduce their carbon footprint, but the processes involved in manufacturing the fixture were vital as well. EverLast® U.S. Made Cobra and Shoe Box fixtures utilize 80% recycled polycarbonate resin in the fixture housing, making them an industry leader in “green” manufacturing.

Most importantly, Fort Drum was required to purchase and install U.S. manufactured light fixtures from an American company. The Military Base exercised due diligence by choosing EverLast® U.S. made cobra and shoe box fixtures.

Many cities and municipalities have received Energy Efficiency and Conservation Block Grant (EECBG) monies as part of the American Recovery and Reinvestment Act (ARRA), and have been charged with selecting U.S. manufactured goods. It is important for end-user’s to know that it is their responsibility to purchase American Made products when they are made available. EverLast® U.S. Induction Cobra and Shoe Box Fixtures exceed the requirements outlined in the ‘Buy American’ provision (Section 1605) of the ARRA and engage more than 10 manufacturing partners from across the United States in the manufacturing process.

NASA Johnson Space Center Installs Fully Sustainable EverLast® PV/Wind Hybrid Area Lighting System

When NASA Johnson Space Center in Houston, Texas needed an advanced lighting system to illuminate a parking lot that had no electricity, they selected the EverLast® PV/Wind Hybrid Area Lighting System. "The Center came to us looking for a lighting solution that was innovative and cost effective," stated Alex Orr, Commercial Sales Representative for EverLast® Lighting. "They were very excited about the fully sustainable EverLast PVW System."

Since its inception in 1958, NASA remains a leading force in scientific research and in stimulating public interest in aerospace, as well as science and technology in general.* "They were impressed with the EverLast PVW lighting system being able to generate power using solar and wind energy," Orr stated. "Other systems rely solely on solar or wind energy, rendering them more susceptible to climate fluctuations."

The EverLast® PVW Area Lighting System incorporates a wind turbine generator with photovoltaic solar panels, battery power storage, and integrated SMART sensor controls that power an EverLast® induction light fixture. This unique combination of patent-pending components delivers powerful, commercial grade lighting to remote areas.

Exceptionally energy-efficient and completely off the grid, EverLast® PVW Area Lighting Systems allowed NASA to provide lighting to its employees while avoiding costs associated with the installation of typical lighting systems.

The PVW system can be installed with a 70w Type III induction cobra head fixture or a 70w Type IV induction shoe box fixture. Both fixtures are IP65 rated, corrosion resistant, and up to 70 percent more energy efficient than HPS and HID fixtures. EverLast® PVW Systems are manufactured in Jackson, Michigan and have been installed in remote locations throughout the country, including Michigan, California, Texas, and Colorado.

"The demand for sustainability has grown rapidly over the past decade," Orr stated. "The PVW Area Lighting System offers customers a solution that's both environmentally-friendly and efficient."

* http://history.nasa.gov/

Marina Vista

Marina Vista California Replaces HPS Street Fixtures With Energy-Efficient EverLast® Induction Cobra Heads

Sacramento Municipal Utility District (SMUD), Sacramento Housing and Redevelopment Agency (SHRA) and Full Spectrum Solutions, Inc. partnered to retrofit high-pressure sodium (HPS) cobra heads throughout the community of Marina Vista, California. The pre-existing HPS fixtures were replaced as a demonstration project sponsored by SMUD's Customer Advanced Technologies (CAT) program which incented the Sacramento Housing and Redevelopment Agency a percentage of the project cost.

Towards the end of 2008, EverLast® 100w Cobra Heads were installed along sections of streets within the residential housing complexes. To achieve automatic on/off control, each fixture was coupled with a twist-lock photocell. Mike Dowd, SHRA Central Services Supervisor, states "I am very impressed with the fixtures, with their efficiency, long life, and bright, white light."

SMUD, along with SHRA, implemented EverLast® induction fixtures after being introduced to them by the California Lighting Technology Center (CLTC). "The induction lighting is quite a bit brighter, thus enhancing the perception of improved security. We have received compliments from residents at this housing development." states Mike Dowd, SHRA Central Services Supervisor.

Development Partners: Sacramento Municipal Utility District (SMUD) & Full Spectrum Solutions

Demonstration Partners: Sacramento Housing and Redevelopment Agency