Federal Energy and Water Management AWARDS

2013

Commander Fleet Activities Yokosuka (CFAY) energy projects include the installation of a copper indium gallium diselenide (CIGS) thin-film building integrated photovoltaic (BIPV) system.

Commander Fleet Activities Yokosuka
Department of the Navy
Yokosuka Naval Base, Japan

Commander Fleet Activities Yokosuka (CFAY) deployed a strategy to use advanced technologies to improve energy efficiency across their large facility, executing $7.2 million in projects in FY 2012 to save 7.9 billion Btu, 1.3 million gallons of water, and $625,000 in utility costs annually. CFAY completed an extensive energy retrofit project to replace existing exit signs with more than 5,600 light emitting capacitor (LEC) exit signs throughout the main base and all CFAY satellite locations—representing the largest utilization of LEC technology to date across Federal Government sites.

CFAY also installed a crystalline photovoltaic system and a copper indium gallium diselenide (CIGS) thin-film building integrated photovoltaic (BIPV) system that enabled the site to adhere panels to an arched roof not suitable for traditionally-mounted PV panels. The 396-kilowatt system is the Navy's largest solar BIPV thin-film installation and the largest CIGS-type solar PV system in all of Asia. CFAY has already reduced its energy intensity by 58 percent relative to the FY 2003 baseline, and the total of 746 kilowatts installed in FY 2012 helps CFAY further reduce its reliance on the Japanese power grid.