Federal Energy and Water Management AWARDS

2013

1.7 Mw solar farm

Reviewing stand PV-covered bleachers

Marines Corps Recruit Depot San Diego
U.S. Marine Corps
San Diego, California

During FY 2012 Marine Corps Recruit Depot San Diego (MCRDSD) completed several projects resulting in a 22 percent reduction in energy intensity and a 30 percent reduction in water intensity from the previous year, saving $872,000 in utility costs. The Depot constructed 3 new Leadership in Energy and Environmental Design (LEED) Platinum-certified buildings with gray water recovery systems, induction lighting with advanced lighting controls, and a 990 kilowatt photovoltaic (PV) system designed to offset 75 percent of the connected electrical load. In total 2.69 megawatts (MW) of new photovoltaic generation were completed, including a 1.7 MW solar farm, bringing the Depot's total PV system size to 3.6 MW. MCRDSD also installed a synthetic turf football field, a smart metering system, and an E-85 gas pump in FY 2012.

In partnership with Navy Facilities Engineering Command, the Depot is hosting a project to collect black water from the existing sewer system and filter it through a tertiary water treatment system to provide usable water for subsurface irrigation, which will save about 365,000 gallons of potable water annually. Overall, these and other projects helped MCRDSD reduce its energy and water consumption by 35.8 billion Btu and 41.3 million gallons from the prior fiscal year.