

# Federal Energy and Water Management AWARDS 2013



*An underground electrical conduit houses the cables for the dedicated landfill power.*

*(top to bottom)  
Chris Manis, Randy Monohan, Laura Nelson,  
Mark Rodriguez, Mick Wasco*



## Chris Manis, Randy Monohan, Laura Nelson Mark Rodriguez, Mick Wasco U.S. Marine Corps Marine Corps Air Station Miramar, California

After five years of planning and coordination with several stakeholders, in FY 2012 Marine Corps Air Station Miramar completed a landfill gas and power purchase agreement (LFG/PPA) that brings the installation's energy consumption to 50 percent of its load generated from renewable energy on-site. The LFG/PPA is a 15-year agreement to purchase 3.2 megawatts of renewable power, which generates 94.3 billion Btu per year.

The LFG plant extracts gas from the 476-acre Miramar Landfill, owned by the Marine Corps and leased and operated by the City of San Diego. Miramar and Naval Facilities Engineering Command

contracted directly with Fortistar LLC and the City of San Diego to purchase the power from the LFG generating plant.

A separate project constructed three miles of electrical distribution lines to transmit the power produced at the landfill to a transformer that provides power to multiple critical facilities. Based in large part on this success, the Department of Defense allocated \$18 million in FY 2014 special military construction funds to install a base-wide micro grid. The micro grid will use LFG and traditional energy generation to help Miramar meet its goal to be energy independent by FY 2017.