

U.S. DEPARTMENT OF THE NAVY ENERGY SAVINGS PERFORMANCE CONTRACTING

U.S. NAVY REGION SOUTHWEST (NRSW), CA – \$34M



NORESCO installed two solar photovoltaic (PV) systems for NRSW to produce electricity and offset the current base electric consumption and peak demand. The project included a 30-kW solar PV rooftop array and a 750-kW PV system at Naval Air Station North Island, providing the Navy with a showcase renewable energy project – one of the largest Federal PV installations in the U.S. Other installed technologies include two 60-kW microturbine cogeneration systems, a 5-MW steam turbine generator, improvements to existing DDC and HVAC systems, lighting upgrades, central compressed air system improvements, and a centralized irrigation control system.

U.S. NAVAL BASE, GUANTANAMO BAY (GTMO), CUBA – \$28M



NORESCO has worked with GTMO to identify and implement conservation projects since 1999. In summer 2004, NORESKO installed four 950-kW wind turbines, for a total wind generation capacity of 3,800 kW. This project made GTMO the world's largest wind turbine/diesel generator hybrid utility. At peak power output, the four turbines produce 20 to 25 percent of GTMO's electric demand. They produce over 7,200,000 kWh of energy from a clean, renewable source and displace greenhouse emissions of CO₂ from the central power plant engine generators by over 13,000,000 lbs/year. Additional projects completed include lighting and water efficiency improvements and two new fuel efficient 3.58-MW (nominally rated) diesel engine generators. We are currently developing a new project to replace five additional diesel generators, with capacity of 18MW, with new fuel efficient models.

NAVAL AMPHIBIOUS BASE LITTLE CREEK (NABLC), VA – \$43M



For NABLC, NORESKO designed and constructed a new central steam plant, replacing the existing 50 year old plant. The new plant includes four 60,000-pph dual-fuel steam boilers, reverse osmosis water treatment plant, gas line and fuel oil tanks, steam distribution system upgrades, leak repairs, and steam trap replacements. The plant eliminates discharge of more than 500,000 lbs/year of acid rain-producing sulfur, and greatly reduces emissions of several other air pollutants. Also important to the Navy, this project released valuable and extensive real estate for future development. A second project that is currently in construction is addressing HVAC and mechanical systems, base-wise DDC/EMCS upgrades and lighting and water efficiency improvements.

COMMANDER, FLEET ACTIVITIES YOKOSUKA (CFAY), JAPAN – \$106M



NORESCO is constructing a cogeneration power plant project at CFAY, Japan that is scheduled to be operational by Fall 2008, and features approximately 39 MW of new capacity while reducing CO₂ emissions by more than 1.3 million tons. The project will be funded by guaranteed cost savings over a 20-year term, eliminating the need for capital appropriations to pay for the energy infrastructure improvements. Cost savings will finance the complete installation, as well as \$146 million for operations, maintenance, and repair services on major equipment over the contract. The plant will significantly increase electric power capacity and reliability, provide steam generation capacity, reduce energy consumption, and improve operational flexibility to meet complex mission requirements. The plant will be operated, managed, maintained, and repaired by an integrated contractor/government operations team.