

Federal Energy Management Program

ESPC Success Stories

Environmental Stewardship and Cost Savings



U.S. NAVAL STATION GUANTANAMO BAY, CUBA

The Department of the Navy partnered with NORESKO to construct a \$12 million wind turbine project at Guantanamo Bay, Cuba, using an energy savings performance contract. Four wind turbines will generate 3,800 kilowatts of electricity – enough to supply about a quarter of the peak power needed for base operations. The project will not only save taxpayers \$1.2 million in annual energy costs, but will also save 650,000 gallons of diesel fuel and reduce air pollution by 26 tons of SO₂ and 15 tons of NO_x, demonstrating the Navy's commitment to energy conservation and environmental stewardship.



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These photographs chronicle the installation of the wind turbines at John Paul Jones Hill, Guantanamo Bay. The four wind turbine towers are about 185 feet high. The blade lengths are 90 feet. The top of the blades are about 275 feet off the ground. The blades rotate at a maximum of 22 RPM, or a rotation every three seconds. This translates to a blade tip speed of 140 mph.

During construction there were as many as 20 workers on the project. However, operating the wind turbines will only take one part-time staff-person who will check on them daily.

Photos courtesy of: Jeffrey M. Johnston, Public Works Officer, Guantanamo Bay; Paul DelSignore, NFESC; Daniel Ingold, NORESKO.



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