

Performance Contracting

Cape Canaveral Air Force Station Cape Canaveral, FL

Project Cost: \$11 million

Annual Cost Savings: \$1.5 million

Facility Description: Air Force Station comprised of 3 million square feet

Contract Term: 15-year Energy Savings Performance Contract (ESPC)



Faced with annual energy bills in excess of \$10 million, the Cape Canaveral Air Force Station selected NORESKO from a field of major national energy service companies to provide much needed infrastructure upgrades without impacting critical mission reliability.

Energy conservation measures implemented at the Air Force Station included:

- Replacement or retrofit of every incandescent and fluorescent light fixture with new T-8 “800” series lamps and high power factor, low harmonic distortion multi-lamp electronic ballasts. Incandescent exit signs were replaced with LED exit signs and various incandescent and mercury vapor fixtures were replaced with high pressure sodium or metal halide fixtures as appropriate.
- An Energy Management Control System was installed in 37 buildings. Each system has a PC based operator interface which allows operators to monitor, trend and control all system points. The system also facilitates centralized after hours monitoring.
- Standard efficiency motors rated at 3 HPO or greater were replaced with premium efficiency motors.
- Inefficient direct expansion units, heat pumps and window air conditioners at the end of their useful lives were replaced. Multiple DX units in close proximity to one another were supplanted with air-cooled chillers.
- Window film was applied to the non-tinted exterior glazing in air-conditioned areas to reduce the substantial cooling load attributable to solar heat gain.
- The natural gas main was extended by a distance of 5 miles and 2 miles of distribution piping was installed. Electric and oil fired boilers were converted to natural gas.
- Electric chillers were replaced with a 350-ton natural gas-fired engine-driven chiller installed within an addition to the central plant.
- Outdated low voltage distribution transformers were replaced with high efficiency amorphous core units to improve efficiency and reduce distribution losses.
- NORESKO is also responsible for Operation and Maintenance of the EMCS and gas engine-driven chiller for the life of the contract.

NORESCO is the nation's most experienced energy service company providing comprehensive and proven energy-efficiency solutions and infrastructure development and operations strategies to a wide range of customers. A recognized industry leader installing and operating over \$1.4 billion of proven energy solutions in diverse markets across the nation, NORESKO has built on-site energy infrastructure generating more than 300 megawatts of power, and has helped customers improve energy efficiency saving over 31 billion-kilowatt hours of electricity and 71 trillion Btus of fuel.



NORESCO Corporate Headquarters • One Research Drive, Suite 400C
Westborough, MA 01581 • 1.888.NORESCO [1.888.667.3726] • www.noresco.com