Case Study

Arlington County
Arlington, VA

PROJECT DESCRIPTION:
Energy Performance Contract

Challenge: The Arlington Initiative to Reduce Emissions (AIRE) has set a goal of reducing the county’s emissions by 10% from 2000 to 2012. AIRE is looking for ways to reduce the county’s impact on the environment while it encourages county citizens and businesses to do the same.

PROJECT SCOPE

Solution: The Justice Center, comprising the County Courthouse and Detention Center, provided the county of Arlington with an ideal opportunity to incorporate energy performance contracting into its environmental initiatives. The two buildings measure 639,354 square feet. ConEdison Solutions, through its subsidiary, Custom Energy Services, worked collaboratively with county staff to develop a project that addressed the extremely high water use of the Detention Center, and also helped make needed system improvements. When fully implemented, these changes will create substantial emissions reductions and valuable cost and capital investment savings.

Contact:
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Construction start date:
December 2008 (estimated)

Construction end date:
June 2009 (estimated)

PROJECT HIGHLIGHTS

Environmental Benefits
2,234 tons of harmful greenhouse gas emissions reduced annually

Equivalent to:
• Preserving 14.1 acres of forest from deforestation* or
• Conserving 4,713 barrels of oil*

Capital Costs
$5,390,201

Annual Savings
Energy: $428,000
Non-energy: $29,872
Utility Cost Reduction: 31%

*Sources:
• Leonardo Academy’s Cleaner & Greener Emissions Reduction Calculator
http://www.cleanerandgreener.org/resources/emissions_reductions.htm
• U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator
http://www.epa.gov/cleanenergy/energy-resources/calculator.html

ENERGY CONSERVATION MEASURES

High efficiency lighting
Water conservation
Chemical-free cooling tower water treatment
Heat recovery from building exhaust
Energy management system upgrade
Air handling unit retro-commissioning and optimization

“All local governments are seeking ways of reducing energy costs and performance contracting is one option. ConEdison Solutions has provided strong support to VML’s Go Green Virginia initiative—as we provide Virginia’s localities with the information and tools they need to protect the environment and improve the energy efficiency of their buildings.”

Jay Fisette
Immediate Past President, Virginia Municipal League
## FEDERAL

- **Federal Aviation Administration**
  - New England Region, Burlington, MA

- **General Services Administration**
  - New York, NY
  - Department of Justice, Dallas, TX
  - Northeast Region, Boston, MA
  - R.L. Timberlake, Jr. Federal Building, Tampa, FL
  - National Archives and Records Administration, Boston, MA
  - Veterans Administration VISN #3, New York City Medical Center, New York, NY

## STATE AND MUNICIPAL

- **Alexandria Sanitation Authority**, VA
- **Arlington County**, VA
- **Bergen County Utility Authority**, Little Ferry, NJ
- **City of Baltimore**, MD
- **City of Boca Raton**, FL
- **City of Charlottesville, VA**
- **City of Ft. Myers**, FL
- **City of Hialeah**, FL
- **City of Parsons**, KS
- **City of Pittsburg, KS**
- **City of Tallahassee, FL**
- **City of Temple Terrace, FL**
- **City of Winter Haven, FL**
- **City of Ybor**, FL
- **Essex and Union Counties**, NJ

## CORRECTIONAL FACILITIES

- **El Dorado Correctional Facility**, KS
- **Hutchinson Correctional Facility**, KS
- **Lansing Correctional Facility**, KS
- **Norton Correctional Facility**, KS
- **Winfield Correctional Facility**, KS

## U.S. POSTAL SERVICE

- **Atlanta Bulk Mail Center**, GA
- **Atlanta Georgia Facilities, Group 1 and 2**, Hapeville, GA

## U.S. MILITARY

- **Florida Department of Military Affairs**
  - Hanscom Air Force Base, Bedford, MA
  - MacDill Air Force Base, Tampa, FL
  - National Naval Medical Center, Bethesda, MD
  - Naval Air Station, Jacksonville, FL
  - Tyndall Air Force Base, Panama City, FL
  - U.S. Army Garrison at Fort Hamilton, Brooklyn, NY
  - U.S. Army Reserves, New York, NY
  - U.S. Coast Guard, Boston, MA
  - U.S. Navy, District of Washington
  - Anacostia Annex, Washington, D.C.

## MUSEUMS

- **John F. Kennedy Presidential Library and Museum**, Boston, MA
- **U.S. Naval Museum**, Washington, D.C.
- **Museum of Science and Industry**, Tampa, FL
- **USS Intrepid Sea, Air and Space Museum**, New York, NY