



Case Study

Arlington County Arlington, VA



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 & GreenerSM Emissions Reduction Calculator
<http://www.cleanerandgreener.org/resources/pollutioncalculator.html>
- U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator
<http://www.epa.gov/cleanenergy/energy-resources/calculator.html>

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:

John Morrill, Energy Manager
1400 N. Uhle Street, Suite 204
Arlington, VA 22201
703.226.4426

Construction start date:

December 2008

Construction end date:

December 2009

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 Fissette
Immediate Past President,
Virginia Municipal League

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Valhalla, NY • 1.888.210.8899 • www.conedisonsolutions.com

Bloomington, MN • 952.921.3963 | Burlington, MA • 781.203.2700 | Cherry Hill, NJ • 856.665.0955 | Chicago, IL • 646.533.3187
Duncanville, TX • 214.904.8001 | Falls Church, VA • 703.875.9458 | Houston, TX • 713.343.6800 | Nashville, TN • 615.651.7493
Overland Park, KS • 800.356.1239 | Tampa, FL • 813.375.3399

Clients: State & Municipal, Museums



STATE AND MUNICIPAL

Alexandria Sanitation Authority, VA
Arlington County, VA
Bergen County Utility Authority, Little Ferry, NJ
Brevard County, FL
Buchanan County, MO
Cape and Vineyard Electric Cooperative, MA
Charlotte County, Port Charlotte, FL
City of Boca Raton, FL
City of Charlottesville, VA
City of Concord, NH
City of Ft. Myers, FL
City of Fort Pierce, FL
City of Hialeah, FL
City of Kerman, CA
City of Miami Springs, FL
City of New Bedford, MA
City of Newport Richey, FL
City of Northampton, MA
City of Pittsburg, KS
City of Punta Gorda, FL
City of Riverton, WY
City of Tallahassee, FL
City of Temple Terrace, FL
City of Winter Haven, FL
City of Ybor, FL
Colorado Convention Center, Denver, CO
Connecticut Department of Motor Vehicle, Wethersfield, CT
Dept. of Environmental Protection, Tallahassee, FL
Dept. of Management Services, Miami, FL
Essex and Union Counties, NJ

Falmouth Youth Hockey Rink, Falmouth, MA
Florida Dept. of Military Affairs, St. Augustine, FL
FL. Division of Fruits & Vegetables, Winter Haven, FL
Goshen County, Torrington, WY
Georgia Environmental Finance Authority, Atlanta, GA
Hernando County Government, Brooksville, FL
Kansas Insurance Department, Topeka, KS
Little Quittacas, Rochester, MA
Loudoun County, VA
Martin County, Stuart, FL
Miami-Dade County, FL
Middlesex Water Company, NJ
Missouri State Fairgrounds, Sedalia, MO
New Hampshire Department of Administrative Services, Concord, NH
New York Power Authority, NY
Padelford, Berkley, MA
Plant City Public Works, PA
Polk County Government, Bartow, FL
Rhode Island Airport, RI
Southbridge Water Department, Southbridge, MA
St. Lucie County, Fort Pierce, FL
Sedgwick County, Wichita, KS
Suwannee County, Live Oak, FL
Town of Dubois, WY
Trenton Water Works, Trenton, NJ

CORRECTIONAL FACILITIES

Arlington County Justice Center, VA
El Dorado Correctional Facility, KS
Jefferson City Sheriff's Dept., Golden, CO
Lansing Correctional Facility, KS
Norton Correctional Facility, KS
Winfield Correctional Facility, KS

MUSEUMS/NON PROFITS

John F. Kennedy Presidential Library and Museum, Boston, MA
Museum of Science and Industry, Tampa, FL
U.S. Naval Museum, Washington, D.C.
USS Intrepid Sea, Air and Space Museum, New York, NY
YMCA (North Shore), Beverly MA, including: Ipswich, Haverhill, Marblehead, and Salem