



Case Study

Sedgwick County Wichita, Kansas



PROJECT HIGHLIGHTS

Environmental Benefits

287 tons of harmful greenhouse gas emissions reduced annually

Equivalent to:

- Preserving 2.2 acres of forest from deforestation* or
- Conserving 668 barrels of oil*

Capital Costs

\$1,337,730

Annual Savings

Energy:	\$213,813
Non-Energy:	\$9,083
Utility Cost Reduction:	10%

* Sources:

- Leonardo Academy's Cleaner & GreenerSM Emissions Reduction Calculator
<http://www.cleanerandgreener.org/resources/emissions-reductions-calculator.html>
- U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator
<http://www.epa.gov/cleanenergy/energy-resources/calculator.html>

PROJECT DESCRIPTION: Energy Savings Performance Contract

Challenge: Sedgwick County wanted to demonstrate to its constituents that the county was actively working to become more environmentally conscious and “green.” To support these efforts, the county successfully obtained an Energy Efficiency and Conservation Block Grant (EECBG). They used a portion of the grant to fund the purchase of electric vehicles. The county wanted to use the remaining EECBG funds in an energy savings performance contract project to implement other energy conservation measures in multiple county facilities.

PROJECT SCOPE

Solution: ConEdison Solutions audited a total of 74 buildings and more than 2,000,000 square feet of facility space. The final ESPC project involved the installation of energy conservation measures such as lighting retrofits, water conservation, programmable thermostats, vending machine controls, an ozone laundry system, and building retro-commissioning in 58 facilities. It is expected that the improvements in this \$1.3 million project will save the county more than \$220,000 per year, which equates to a simple payback of only six years. This project clearly demonstrated to the taxpayers that the county officials were good stewards of the environment and fiscally responsible.

Contact:

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Construction Start Date:

March 2011

Construction End Date:

November 2011

ENERGY CONSERVATION MEASURES

Lighting and Lighting Controls

- High efficiency lighting
- Occupancy sensors

Controls

- Vending machine controls

Heating and Cooling

- Programmable thermostats

Building Envelope

- Weatherization

Other Measures

- Water conservation
- Ozone laundry equipment
- Retro-commissioning



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