

Case Study

Baltimore City Fire Stations

Baltimore, MD



PROJECT HIGHLIGHTS

Environmental Benefits

874 tons of harmful greenhouse gas emissions reduced annually

Equivalent to:

- Preserving 5.5 acres of forest from deforestation* or
- Conserving 1,843 barrels of oil*

Capital Costs

\$2,047,103

Annual Savings

Energy:	\$118,395
Non-Energy:	\$35,505

* Sources:

- Leonardo Academy's Cleaner & GreenerSM Emissions Reduction Calculator
http://www.cleanerandgreener.org/resources/emission_reductions.htm
- 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: The City of Baltimore asked ConEdison Solutions, through its subsidiary, Custom Energy Services, to investigate opportunities for energy efficiency in its seven largest fire department facilities. Several of the firehouses had heating systems that failed frequently and were beyond repair. The focus of the project was to improve the energy efficiency and comfort of the buildings by providing new equipment.

PROJECT SCOPE:

Solution: New mechanical systems were installed. This included radiant heat in the apparatus bays where the fire trucks are housed. New windows and bay doors were also installed, and the firefighters report that the firehouses are much quieter now. Air conditioning was added to the Fire Academy auditorium and was installed in time for the 2007 cadet graduation ceremony.

Contact:

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Baltimore, MD 21230
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Construction Start Date:

February 2006

Construction End Date:

July 2007

ENERGY CONSERVATION MEASURES

Lighting

High efficiency lighting

Building Controls

Control systems upgrade

Heating and Cooling

- Install rooftop units
- Install air handling units

Building Envelope

- Weatherized bay doors
- Window replacement

Fuel Conversion

Domestic hot water heater

Water Conservation

Replace water heater

Other Upgrades

Install premium efficiency motors

Clients: Government & Non Profit Groups



FEDERAL

Federal Aviation Administration
New England Region,
Burlington, MA

General Services Administration,
New York, NY

General Services Administration
Department of Justice,
Dallas, TX

General Services Administration
Federal Court House Building,
Fort Lauderdale, FL

General Services Administration
Internal Revenue Service,
Farmers Branch, TX; Kansas City, MO

General Services Administration
Northeast Region,
Boston, MA

General Services Administration
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 Baltimore, Fire Department, 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

Florida Department of Environmental
Protection,
Tallahassee, FL

Florida Department of Management
Services,
Miami, FL

Hernando County Government,
Brooksville, FL

Kansas Insurance Department,
Topeka, KS

Miami-Dade County,
Miami, FL

Middlesex Water Company,
Middlesex, NJ

Missouri State Fairgrounds,
Sedalia, MO

New York Power Authority
(various locations),
New York, NY

Pittsburgh Housing Authority,
Pittsburgh, PA

Plant City Public Works,
Plant City, PA

Polk County Government,
Bartow, FL

Southbridge Water Department,
Southbridge, MA

St. Lucie County,
Fort Pierce, FL

State FL-Division of Fruits & Vegetables,
Winter Haven, FL

Suwannee County,
Live Oak, FL

Trenton Water Works,
Trenton, 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,
Crown Road Facility,
Hapeville, GA

Kilmer Processing and Distribution,
Edison, NJ

Morgan Processing and Distribution
Center,
New York, NY

USPS-Central Florida District, FL

USPS-Suncoast District, FL

Whippany Processing and Distribution
Center,
Kearney, NJ

SES Contracts awarded for: CA, AZ, NV, HI, Guam, CO, WY, UT, ID, OR, WA and AK

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.

U.S. Navy, Washington Navy Yard,
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