El Dorado Correctional Facility
El Dorado, KS

PROJECT DESCRIPTION
Energy Savings Performance Contract

Challenge: El Dorado Correctional Facility is composed of three separate facilities: two minimum security and one maximum security prison, which have the capacity to serve over 1,000 inmates. The facility lacked the funds to complete needed upgrades, so they turned to the Kansas Facility Conservation Improvement Program (FCIP) for help. All work needed to be completed within the challenging security environment of a correctional facility.

PROJECT SCOPE:
Solution: Some of the more notable improvements made by ConEdison Solutions, through its subsidiary, Custom Energy Services, include automatic light sensors, stainless steel sink and toilet combination units, and a new laundry system. The light sensors take advantage of areas that receive plenty of natural daylight by only turning on lights when necessary. The stainless steel plumbing fixtures greatly reduce the amount of water used at the facility, and their durability provides reduced replacement and maintenance costs compared to the existing porcelain units. The new laundry system allows for safer and more efficient operation by lowering wash temperatures and eliminating the handling of chemicals by operators. El Dorado Correctional Facility is using over $260,000 in annual savings on utilities and operation costs from the upgrades to fund the project over a ten-year period.

Contact:
Jim Davis
Physical Plant Supervisor Specialist
1737 SE Highway 54
El Dorado, KS 67042
316-322-2091X

Construction Start Date: August 2004
Construction End Date: December 2004

PROJECT HIGHLIGHTS

Environmental Benefits
2,409 tons of harmful greenhouse gas emissions reduced annually
Equivalent to:
• Preserving 15.2 acres of forest from deforestation* or
• Conserving 5,802 barrels of oil*

Capital Costs
$2,123,556

Annual Savings
Energy: $247,517
Non-Energy: $12,757
Utility Cost Reduction: 16%

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

ENERGY CONSERVATION MEASURES

Lighting
• High efficiency lighting

Building Controls
• Energy management system
• Variable speed control
• Kitchen exhaust hood control

Heating and Cooling
• Steam system optimization
• Rooftop units

Water Conservation
• Low-flow water fixtures
• Water softening

Other Upgrades
Install laundry ozone system

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FEDERAL

Federal Aviation Administration
New England Region,
Burlington, MA

General Services Administration (GSA),
New York, NY

GSA Department of Justice, Dallas, TX

GSA Federal Court House Building,
Fort Lauderdale, FL

GSA Internal Revenue Service,
Farmers Branch, TX

GSA Northeast Region, Boston, MA

GSA R.L. Timberlake, Jr. Federal Building,
Tampa, FL

National Archives & Records Administration
Boston, MA

Veterans Administration (VA)
VA, Bronx, NY
VA, Queens, NY
VA, Westchester, NY

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

Buchanan County, MO

City of Boca Raton, FL
City of Charlottesville, VA
City of Ft. Myers, FL
City of Hialeah, FL

City of Pittsburgh, KS

City of Tallahassee, FL
City of Temple Terrace, FL
City of Winter Haven, FL
City of Ybor, FL

Essex and Union Counties, NJ

FL Dept. of Environmental Protection,
Tallahassee, FL

FL Department of Management Services,
Miami, FL

Hernando County Government,
Brooksville, FL

Kansas Insurance Department,
Topeka, KS

Loudoun County, VA

Miami-Dade County, FL

Middlesex Water Company, NJ

Missouri State Fairgrounds,
Sedalia, MO

New York Power Authority, NY

Plant City Public Works, PA

Polk County Government,
Barrow, FL

Southbridge Water Department,
Southbridge, MA

St. Lucie County,
Fort Pierce, FL

FL Division of Fruits & Vegetables,
Winter Haven, FL

Suwannee County,
Live Oak, FL

Trenton Water Works, NJ

CORRECTIONAL FACILITIES

Arlington County Justice Center, VA

El Dorado Correctional Facility, KS

Lansing Correctional Facility, KS

Norton Correctional Facility, KS

Winfield Correctional Facility, KS

U.S. POSTAL SERVICE

Atlanta Bulk Mail Center, GA

Barrigada Main Post Office (MPO), Guam

Billings Processing & Distribution Center
(P&DC), MT

Central Florida District, FL

Chattanooga P&DC, TN

Cheyenne P&DC, WY

Denver P&DC, CO

Dominic V. Daniels P&DC, Kearny, NJ

Eugene P&DC, OR

Grand Central Station MPO, New York, NY

Honolulu P&DC, HI

JFK Air Mail Facility, New York, NY

Kilmer P&DC, Edison, NJ

Los Angeles, P&DC, CA

Manasota P&DC, Sarasota, FL

Miami, P&DC, FL

Morgan P&DC, New York, NY

Phoenix General Mail Facility, AZ

Reno P&DC, NV

San Francisco, P&DC, CA

San Juan P&DC, Puerto Rico

Spokane P&DC, WA

Springfield P&DC and National Distribution Center, MA

Suncoast District, FL

Teterboro P&DC, Teterboro, NJ

Trenton P&DC, NJ

Westchester P&DC, White Plains, NY

Whippany P&DC, Kearny, NJ

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

U.S. MILITARY

Florida Department of Military Affairs,
St. Augustine, FL

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

Museum of Science and Industry,
Tampa, FL

U.S. Naval Museum,
Washington, D.C.

USS Intrepid Sea, Air and Space Museum,
New York, NY

Valhalla, NY • 1.888.210.8899 • www.conedisonsolutions.com

Burlington, MA • 1.781.203.2700 | Cherry Hill, NJ • 1.856.665.0955 | Durham, NC • 1.919.806.4570

Falls Church, VA • 1.703.875.9458 | Houston, TX • 1.713.343.6800 | Overland Park, KS • 1.800.356.1239

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