



Case Study

Fairfield Unified School District #310 Langdon, Kansas



PROJECT DESCRIPTION: Energy Savings Performance Contract

Challenges: The Fairfield Unified School District (Fairfield USD) had significant capital needs to raise its facilities up to the level of the administration's expectations. The administration's desire was to develop an energy efficiency plan that would use the district's limited budget in the most cost effective manner and achieve the maximum number of facility upgrades while protecting the Fairfield USD's financial assets.

PROJECT SCOPE

Solutions: One of the major goals of the partnership between Fairfield USD and ConEdison Solutions was to utilize the energy savings from the Energy Savings Performance Contract (ESPC) to replace the district's failing equipment, thereby eliminating many of the deferred maintenance issues that often plague school districts. The Fairfield USD staff can now focus its attention on preventative maintenance activities that will benefit the school district for years to come.

ENERGY CONSERVATION MEASURES

Lighting and Lighting Controls

- High efficiency lighting
- LED exit signs
- Occupancy sensors

Heating and Cooling

- De-commission hot water heating system
- Air conditioning
- Replace rooftop unit heating
- Bus Barn block heaters

Building Envelope

- Windows

Other

- Replace lay-in ceilings

PROJECT HIGHLIGHTS

Environmental Benefits

124 tons of harmful greenhouse gas emissions reduced annually

Equivalent to:

- Preserving 1.2 acres of forest from deforestation* or
- Conserving 288 barrels of oil*

Capital Costs

\$1,370,917

Annual Savings

Energy:	\$42,967
Non-Energy:	\$90,817
Utility Cost Reduction:	30%

* 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>

Contact:

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Construction Start Date:

June 2010

Construction End Date:

February 2011

Clients: K-12 Schools



Baker County Schools

Macclenny, FL

Bay County Schools

Panama City, FL

Bradford County Schools

Starke, FL

Bluestem

Unified School District #205

Leon, KS

Buhler

Unified School District #313

Buhler, KS

Calhoun County Schools

Blountstown, FL

Charlotte County Public Schools

Port Charlotte, FL

Charlottesville City Schools

Charlottesville, VA

Clay County Schools

Keystone Heights, FL

Collier County Schools

Naples, FL

Columbia County Schools

Lake City, FL

Columbia Public Schools

Columbia, MO

Dade County Schools

Miami, FL

Desoto County Schools

Arcadia, FL

Emporia

Unified School District 253

Emporia, KS

Escambia County School District (65 schools)

Pensacola, FL

Foster-Glocester

Regional School District and

Ponaganset

Middle & High School

(2 schools)

Foster, RI

Franklin County School Board

Apalachicola, FL

Garden City School District

Garden City, NY

Hardee County Schools

Wauchula, FL

Harrisonville Cass R-IX

School District

Harrisonville, MO

Haven

Unified School District #312

Haven, KS

Hendry County Schools

Labelle, FL

Highland County Schools

Sebring, FL

Hillsborough County

Public Schools (10 schools)

Tampa, FL

Humboldt

Unified School District #258

Humboldt, KS

Indian River Schools

Vero Beach, FL

Jackson County Schools

Marianna, FL

Lake County Schools

Tavares, FL

Lee County School District

Ft. Myers, FL

Leon County Schools

Tallahassee, FL

Mahopac

Central School District

Mahopac, NY

Manatee County Schools

Bradenton, FL

Maries County School District

Belle, MO

Martin County Schools

Stuart, FL

Monroe County Schools

Key West, FL

Nassau County Schools

Fernandina, FL

Newport Public Schools

Newport, RI

Northampton Public Schools

Northampton, MA

North Jackson

Unified School District #335

Holton, KS

Okaloosa County Schools

Fort Walton Beach, FL

Okeechobee County Schools

Okeechobee, FL

Osceola School District

Kissimmee, FL

Palm Beach County Schools

West Palm Beach

Park Hill School District

Kansas City, MO

Piper

Unified School District #203

Kansas City, KS

Polk County Schools

Bartow, FL

Port Charlotte County

Port Charlotte, FL

Putnam County Schools

Palatka, FL

Queen Creek School District

Queen Creek, AZ

Raymore-Peculiar

School District

Peculiar, MO

Santa Rosa County Schools

Milton, FL

Sarasota County Schools

Sarasota, FL

School Board of

Pinellas County

Largo, FL

Scott County

Unified School District #466

Scott City, KS

Smithville R-11

School District

Smithville, MO

Springfield Public Schools

Springfield, MO

St. John's County Schools

St. Augustine, FL

Suwannee County Schools

Live Oak, FL

Walton County Schools

DeFuniak Springs, FL

Washington County Schools

ChIPLEY, FL

Windham Public Schools

(6 schools)

Windham, CT