Scott County Unified School District 466
Scott City, KS

PROJECT DESCRIPTION
Energy Savings Performance Contract

Challenge: The Scott County Unified School District faced a significant problem involving the cooling tower at the elementary school. The tower was not operated during colder months due to the possibility of freezing. Also, the administration building was dealing with a boiler that was overheating. Scott County schools received a variety of building and system upgrades during construction that began in the summer, so as not interfere with school operations.

PROJECT SCOPE
Solution: ConEdison Solutions through its subsidiary Custom Energy Services, made specific changes including lighting retrofits, energy management system updates, improvements to the elementary school gymnasium ventilation system, lay-in ceilings in several basement rooms at the middle school, and new heating and cooling solutions for many of the buildings. The upgrades not only helped the district save energy and better utilize taxpayer dollars, but created a more comfortable learning and working environment for students and staff through improved lighting, heating, and cooling. Scott County Middle School received the ENERGY STAR award for this work.

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Construction Start Date:
April 2005

Construction End Date:
September 2005

ENERGY CONSERVATION MEASURES

Lighting and Controls
• High efficiency lighting
• LED exit signs
• Occupancy sensors

Building Controls
• Energy management system

Heating and Cooling
• Heat pump upgrade
• Cooling tower indoor sump
• Rooftop units
• Variable frequency drives
• Demand control ventilation
• Replace steam heating with forced air

Building Envelope
• New roof

Water Conservation
• Low-flow water fixtures

Additional Upgrades
• Lay-in ceiling

Buildings awarded the ENERGY STAR

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PROJECT HIGHLIGHTS

Environmental Benefits
590 tons of harmful greenhouse gas emissions reduced annually
Equivalent to:
• Preserving 3.7 acres of forest from deforestation* or
• Conserving 1,245 barrels of oil*

Capital Costs
$945,271

Annual Savings
Energy: $44,719
Non-Energy: $5,353
Utility Cost Reduction: 25%

* Sources:
• Leonardo Academy’s Cleaner & Greener® 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