



# Case Study

## Scott County Unified School District 466 Scott City, KS



### 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<sup>SM</sup> Emissions Reduction Calculator  
[http://www.cleanerandgreener.org/resources/emission\\_reductions.htm](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 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 to 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.

#### Contact:

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Director of Facilities  
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Scott City, KS 67871  
620-872-7600

#### 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**

