

COMMERCIAL NEW CONSTRUCTION PROGRAM

it pays to make energy efficiency part of the plan

K-12 Educational Facilities

Energy costs are second only to personnel costs as the leading draw on K-12 school district operational budgets



Potential Energy Cost Savings

High \$277K

Low \$ 1k

Average \$ 41K

Based on 338 verified buildings

DID YOU KNOW...

41%

Participating K-12 school projects average 41% in annual energy cost savings



Iowa schools have received approximately \$32 million dollars in incentives



338 projects totaling more than 26 million square feet



School districts have saved over \$14 million dollars in annual energy costs, equivalent to approximately 267 teacher salaries

SEE HOW YOU CAN SAVE

- Learn more and enroll a project: iowacnc.com
- Contact the program implementer: 877 939 1874 or cnc@willdan.com



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K-12 Case Study



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“...It’s a win for us because we save energy and recuperate the expense in a relatively short time period. It’s a smart business decision.”

— Bob Hingtgen
Director of Maintenance & Transportation,
Western Dubuque Community School District

PEOSTA ELEMENTARY SCHOOL

Western Dubuque Community School District worked with its design team of Neumann Monson Architects and Design Engineers when planning to create a modern and energy-efficient elementary school that would stand the test of time. The team turned to the Commercial New Construction program in the early stages of designing Peosta Elementary School to evaluate the savings of more than 100 energy efficiency strategies with the goal of identifying those that would help them balance their energy savings and payback criteria.

A combination of geothermal heat pumps and gas-fired air handling units are strategically utilized to provide heating, cooling and ventilation air to diverse building spaces. Along with an efficient building envelope and automated controls used in conjunction with efficient LED lights, the building provides an efficient, comfortable and productive environment for students. In comparison to a code-level elementary school, the building saves 41% in annual energy costs. The District received a one-time incentive from Alliant Energy that helped offset the investment in these energy efficiency measures by 15% and drive the payback period down to 8 years.

LEARN MORE

- Watch the Commercial New Construction Program video: alliantenergy.com/cnc
- Contact the program implementer: 877 939 1874 or cnc@willdan.com



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Photo courtesy of frk architects + engineers

“...It is important to me to know we did the right thing, and this program quantifies that through data and 3rd party analysis.”

— Tom Wollan, AIA, LEED AP
frk architects + engineers

JOHNSTON COMMUNITY SCHOOL DISTRICT

The Johnston Community School District’s new high school was designed to be a model building for efficiency and advanced systems. Working with its design team, Perkins+Will, frk architects and Alvine Engineering, the District researched several different options, balancing first costs against long-term investments and student comfort. The project team turned to the Commercial New Construction program during the early design stages to provide estimates of energy costs savings and potential incentives for over 100 different energy efficiency strategies.

The implemented design included a multi-stack geothermal heat pump system, LED lights with automatic dimming daylighting controls and an efficient building envelope. The displacement ventilation system provides energy savings, excellent indoor air quality and quiet performance, all important features for student comfort and productivity. Annual energy costs were reduced by 63% when compared to a standard code-level high school. The District also received a one-time incentive from MidAmerican Energy, reducing the incremental first cost by 42%.

LEARN MORE

- Watch the Commercial New Construction Program video: midamericanenergy.com/cnc
- Contact the program implementer: 877 939 1874 or cnc@willdan.com

