

Case Study Report

Company Profile

Lawrence County



“Even with many components, your team delivered as you have promised.”

*-Tom Meade
Lawrence County Administrator*

Methods Employed:

\$820,000 Energy Saving House Bill 295 Project across six county buildings to upgrade facility infrastructure. Completed July 2010. Earned Energy Star Rating for the County Courthouse.

Background:

Perfection Group performed an energy analysis and determined that Lawrence County had energy saving opportunities due to their aging buildings. Perfection concluded that a House Bill 295 project would be the best fit for the county to make energy savings upgrades enabling them to pay for the savings over a 15 year period.

The list of building included: Courthouse, Health Department, Jail, Dog Shelter, Juvenile Center, County Court.

Challenge:

Perfection was challenged to replace the existing boiler which was failing during the heating season. In order to eliminate down time for the customer, Perfection installed a new system during the winter months and completed a weekend connection to ensure a warm building for the client.

Solution and Results:

Perfection installed new lighting in all buildings, retro commissioning of the air handlers and new automation controls at the Jail, Juvenile Center, Courthouse and County Court. New boiler and chiller and new double-paned windows were installed at the County Courthouse, as well as, water conservation at the County Jail.

PRODUCT IDENTIFICATION

Customer:
Lawrence County

Location:
Ironton, Ohio

Contractor:
Perfection Group Inc.

Business Need:
Improve environmental conditions for county employees and visitors. Improve maintenance and operation of the facilities. Reduce operating costs to reinvest in deferred maintenance areas.

Solution/Results:
Upgrade facilities by installing new lighting, retro commissioning, new automation controls, new boiler and chiller and new double-paned windows.

After 18 months in operation, Lawrence County earned their Energy Star Rating at the Courthouse.

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to learn more about our Mechanical
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Old Boiler



New Boiler



Old Chiller



New Chiller

Solution and Results (cont.):

The energy and operational savings are projected at over \$78,490 per year. This energy project as a whole has a projected environmental impact by reducing Dioxide (CO₂) by 977,479 pounds, saving 480,102 kWh's of electric, 19,546 CCF of Natural Gas and 462,964 gallons of Water which is equivalent to removing 81.2 cars and adding 100.8 acres of forest. In addition, Lawrence County received AEP utility rebates of over \$30,000.



Presenting Lawrence County, Ohio their rebate check and Energy Star Award at their Commission Meeting - Thursday, September 13, 2012.

Pictured Left to Right: Les Boggs, Commissioner, Bill Pratt, Commissioner, Freddie Hayes, Jr., Commissioner, Rick Anderson, Perfection Group and Tony Apro, Perfection Group

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