

## Case Study Report

### Company Profile

## Jessamine County Fiscal Court



*“Part of the project’s positive cash flow savings can be used for additional energy savings improvements or other County projects, allowing us to continue to reap the benefits indefinitely.”*

*-William Neal Cassity  
Judge Executive*

### Methods Employed:

\$800,000 Guaranteed Energy Saving Project to update aging systems.

### Background:

After being approached by Jessamine County to help them save money, Perfection Group performed an energy analysis and determined that the county had multiple saving opportunities due to aging systems in many of their buildings.

### Solution and Results:

Perfection performed Energy Conservation Measures in six of the county buildings. A lighting retrofit was performed on all six buildings. New controls, boiler, chiller and new windows were installed at the County Courthouse. New controls were also installed, as well as, water conservation at the Detention Center.

The projected savings of energy and operational costs to the county is over \$53,000. The upgrades as a whole has a projected environmental impact of reducing Dioxide (CO2) by 612,027 lbs, saving 305,460 kWh’s of electric, 11,742 CCFs of Natural Gas and 1,233,900 gallons of water. 50.9 cars were removed and 63.1 acres of forest were added.

### PRODUCT IDENTIFICATION

Customer:  
Jessamine County

Location:  
Nicholasville, KY

Contractor:  
Perfection Group Inc.

Business Need:  
Update mechanical systems and infrastructure.

Solution/Results:  
Implement Guaranteed Energy Savings Project that will pay for itself in 15 years.

List of Improvements: Lighting Retrofit, New Mechanical Systems, Heating and Cooling, DDC Controls, Retrofitting, Water Efficiency Upgrades and High Efficiency Boilers.

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to learn more about our Mechanical  
and Service capabilities.**

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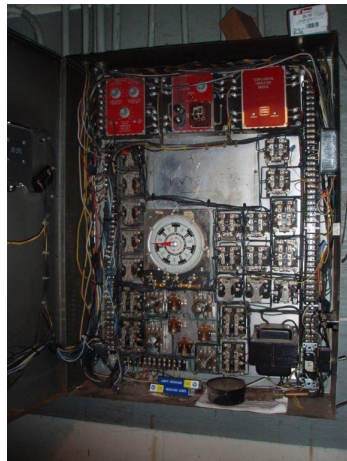
Old Boiler



New Boiler



Old Windows



Old Controls



New Controls



New Windows

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