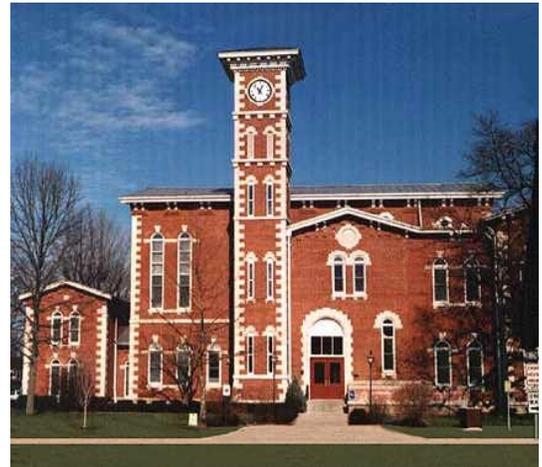


MORGAN COUNTY, IN

10 E Washington St # 244,
Martinsville, IN 46151

Project Type: Energy Savings Project

Improvements: Lighting Upgrades and Retrofits, Replaced existing controls with Web Accessible Direct Digital Controls in several county buildings. Install Variable Speed Drives on hot and chilled water pumps and replace Chiller in Jail.



BACKGROUND: Perfection Group, Inc. was approached by Morgan County for an energy analysis to help them save money. It was determined by Perfection that due to aging systems in several of the county buildings, Morgan County had money saving opportunities.

SOLUTION: Energy Conservation Measures were performed by Perfection Group, Inc. at several Morgan County buildings including: the Courthouse, the Administration Building, County Jail/Sherriff's Office, and the Probation Annex Building.

Perfection Group, Inc. performed Lighting Upgrades and Retrofits, retro-commissioned HVAC equipment and replaced existing controls with Web Accessible Direct Digital Controls in the Courthouse and the Administration Building.

In the County Jail/Sherriff's Office, Perfection retro-commissioned the HVAC equipment including air handling units, pumps, rooftop units, boilers and domestic water heaters. Variable Speed Drives were installed on hot and chilled water pumps and the Chiller was replaced in the original building section. Pneumatic controls were replaced with a Direct Digital System.

The Annex Building was in need of mechanical upgrades. Perfection replaced the basement split system and repaired roof wiring. The controls were also upgraded by the installation of three stand alone programmable thermostats.

The projected annual savings of energy and operational costs to the county is approximately \$19,000. The upgrades as a whole have a projected environmental impact of reduction Dioxide (CO2) by 370,990 lbs, saving 220,015 kWh's of electric, 2,120 CCFs of Natural Gas which is equivalent to 30.8 cars removed and 38.3 acres of forest added.

-  Lighting Upgrades
-  Replaced existing controls
-  Installed aiable Speed Drives on hot and chilled water pumps
-  Replaced Chiller

