

CLARK COUNTY SCHOOLS

Clark County Public Schools
Winchester, KY 40391

Project Type: Amended House Bill Energy Project

Impact: Better performing systems and savings in excess of \$78,000 per year.



METHODS EMPLOYED:

\$784,812 Energy Saving Project to upgrade aging facility infrastructure.

BACKGROUND:



The school board was dealing with aging facilities and increasing utility costs. The school district has 12 buildings throughout the county. The lighting and controls in most of the buildings were not efficient. The lights were upgraded to T-8 technology along with LED exit signs. Perfection also determined that several wings of the High School had aging unit ventilators that the school was never able to find funding to replace. The repair costs were starting to increase year after year.

SOLUTION:

Performance contract with guaranteed savings. The energy guarantee was implemented using the IPMVP methods of lighting savings and calculations. The hours of usage were agreed to up front and applied across the lighting wattage reduced and the current utility rates.

Perfection installed efficient lighting systems and central controls in several buildings. Program replacement of unit ventilators and controls at the High School helped reduce breakdowns and maintenance issues. Perfection performed all the scheduled work over one summer. The school was impressed with our ability to get this project installed on time within the limited schedule, at the budget given, and without any significant problems. Keith Raker has said that this was one of the smoothest projects of this size he has ever been a part of in his career. This affirmation speaks about our ability to respond quickly and do what we promise.

The projected annual savings for this project is \$78,400. The annual emission reductions are 2,976,867 lbs of carbon dioxide, 8,644 lbs. of Nitrogen Oxide, 15,627 lbs. of Sulfur Dioxide, 248 lbs. of Particulates and 18,620 mg of Mercury. The projected annual gas savings is 42,764 Therms. The projected annual electric savings is 1,097,600 kWh.

-  Installed Efficient Lighting Systems and Central Controls
-  Program replacement of unit ventilators and controls

