

## CASE STUDY

# Covington School District (K-12)

### **Facility Type:**

K-12 public schools

### **Products:**

LED interior and exterior with occupancy sensors

### **Savings:**

More than \$115,000 per year

### **Incentive:**

\$292,000 rebate from Duke Energy

### **Background**

Covington (KY) Independent Public Schools is the first District in the state of Kentucky to utilize the new Kentucky Educational Development Cooperative (KEDC) guaranteed energy savings price contract to execute a comprehensive energy efficiency program. Through a transparent, competitive selection process, the district awarded a multimillion dollar project to Performance Services, an energy services company (ESCO) based in Indiana.

### **Situation**

The district recognized that lighting maintenance issues were becoming a significant issue as budget cuts left fewer maintenance personnel on staff each year. In addition to the total energy savings required, reduced maintenance expenses became another objective for the Performance Services team. They called upon lighting specialist Eco Engineering to assist in the development of a lighting plan that would meet energy efficiency criteria and deliver reduced maintenance costs.

### **Solution**

The energy efficient lighting project incorporated LED interior fixtures across multiple venues including primary and secondary schools, administrative facilities, and the vocational center. The LED retrofits yielded significant energy savings while meeting the reduced maintenance objectives. Exterior lighting was included in the scope of work for additional savings and enhanced student/faculty safety. Finally, occupancy sensors were installed in bathrooms, hallways, conference rooms and cafeterias to reduce the operating hours of fixtures in non-occupied areas of the facility.

Both the design/audit and implementation phases were conducted by Eco Engineering on behalf of Performance Services.

### **Results**

#### **Reduced Consumption**

Increased efficiency from the LED technology will reduce energy consumption by 1,077,144 kWh in the first year.

#### **Reduced Expenses**

The lighting portion of the project delivered \$91,000 in annual energy savings and an additional \$24,900 in sustained annual maintenance savings achieved through a 10-year product warranty. The project met all detailed requirements needed for qualification of a substantial rebate from Duke Energy, the local utility provider. The \$292,000 rebate significantly reduced the district's payback period on the lighting investment.



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