

CASE STUDY

NORTHERN KENTUCKY'S LARGEST CITY IMPLEMENTS ENERGY EFFICIENCY AND BUILDING UPGRADES

THE CITY OF COVINGTON COVINGTON, KENTUCKY



"Working with progressive leadership at the municipal level to provide energy efficiency and facility upgrade improvements is exciting. The City of Covington has demonstrated through this project that it is focused on energy issues and we are proud to be partnering with them providing creative solutions."

Ray Hinson,
ESG Regional Director

ANNUAL ENERGY AND OPERATIONAL SAVINGS OVER \$180,000

ABOUT ENERGY SYSTEMS GROUP

ESG is an award-winning energy services company that provides its customers with innovative energy efficiency, technology, and long-term financing solutions for modernization of their facilities and energy infrastructure.

PROJECT BACKGROUND

Energy Systems Group (ESG) signed a \$2.25 million contract with the City of Covington to modernize and enhance various facilities throughout the city, including the City Hall building, Police Headquarters, Public Works, fire stations, and parking garages. In addition, Energy Systems Group will upgrade several traffic and pedestrian crossing signals using LED technology.

Environmental Benefits:

The project designed and implemented by ESG will provide over \$180,000 in energy and operational savings annually. In effect, ESG has reduced the City of Covington's carbon footprint by over 1,000 metric tons of carbon dioxide annually.

Over the 20-year contract period, the energy conservation measures implemented by Energy Systems Group will provide the City of Covington with environmental benefits equivalent to the following:

- Removal of emissions equivalent to over 3,600 cars
- Planting about 4,400 acres of forest, or
- Creating enough energy to power more than 2,400 homes

STRATEGIES & SOLUTIONS

Technologies to be employed include lighting system upgrades, vending machine controllers, occupancy sensors, HVAC system improvements, energy management controls, CO₂ monitoring controls, variable speed drives, and water-efficiency upgrades, among others. The City of Covington will receive rebates from their electrical energy supplier to supplement the costs of lighting improvements. The project will be financed over a 20 year term.



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