



City of Kingston Energy Performance Contract

Client

City of Kingston

Capital Cost

\$ 3,996,392

Type of Contract

Guaranteed Savings

Reference

City of Kingston
420 Broadway
Kingston, NY 12401

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Project Team

Scott F. Smith, PE, CEM
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Joseph A. DeFazio, PE
Henry O. Perez, PE
Steve V. Grgas, EIT
Brian M. Sibiga, PE
John A. Hefty
Frank A. Nerone, PE

Subcontractors

Design Services
Wendel Duchscherer
Architects & Engineers, PC

Air Monitoring
Hygienetics Environmental Services, Inc.

Asbestos Abatement
LVI Environmental Services, Inc.

Building Envelope Upgrades
ECP Building Envelope Specialists, Inc.

*Energy Management System
& AHU Economizer Upgrades*
ITC North, LLC

HVAC Upgrades
Jeff Lowe Plumbing, Heating & AC, Inc.

LED Traffic Lighting Upgrades
Stilsing Electric, Inc.

Lighting and Occupancy Sensor Upgrades
Candela Systems Corporation

Overhead Door Replacement
Darmstadt Overhead Doors, Inc.

Wastewater Treatment Plant Upgrades
Standard Construction Corp.

Window Upgrades
Johnson Howard Associates, Inc.

Project Scope of Service

The City of Kingston entered into an agreement with Wendel to perform an energy performance contract that included energy and operational efficiency improvements at 25 of the City facilities including: City Hall, the police station, the various full time and volunteer fire stations, neighborhood and community centers, city maintenance facilities and the wastewater plant. The Facility Improvement Measures recommended for the City include:

- High Efficiency Lighting and Lighting Controls
- High Efficiency Outdoor Building Lighting
- Installation of Infrared Heating Systems
- Energy Management and HVAC Controls Upgrades
- Boiler Replacements
- Steam System Upgrades
- Window Upgrades
- Overhead Door Replacements
- Improvements to the Building Envelope

Wendel also replaced Traffic Lights throughout the City with High Efficiency LED Lights and upgraded Traffic Light Controllers.

In addition, at the wastewater plant, various process related systems that were old and failing were replaced providing additional operational and efficiency savings. The improvements at the wastewater plant include:

- Ultraviolet Disinfection System Upgrade
- Sludge Pump and Motor Upgrades
- Solids Handling System Upgrades
- Odor Control System
- Digester Mixing System
- Belt Press Upgrades

Wendel also assisted the City in obtaining a reduced interest loan (for the first 1 million borrowed) through the NYSERDA Energy Smart Low Interest Loan Program and incentives through the NYSERDA CIP Programs.

The project is currently in construction.

Annual Energy Use and Costs Prior to Implementation

3,824,162 kWh, 128,546 mmBtu (fossil fuel)
\$600,305

Guaranteed Annual Savings

1,099,906 kWh, 2,999 mmBtu (fossil fuel)
\$148,396

