



MATSON

ENVIRONMENTAL

Energy Audit Case Study Towanda Borough

Client:

Towanda Borough
724 Main Street
Towanda, PA 18848

Contact:

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Borough Manager
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Services Provided:

- ◆ Preliminary Energy Audit
- ◆ Comprehensive Energy Audit
- ◆ Grant Assistance

Potential Annual Savings Overview:

- ◆ \$22,600+ in energy costs

Contact Us:

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Borough of Towanda officials knew they were spending more on energy each year. With electricity deregulation looming, they made the decision to evaluate a number of their facilities, including:

- ◆ Sewage Treatment System
- ◆ Sewage Conveyance System
- ◆ Water Department
- ◆ Municipal Building
- ◆ Borough Hall
- ◆ YMCA, and
- ◆ Fire Hall



Additionally, Matson Environmental assisted the Borough in the technical energy assessment for the PA Conservation Works! grant opportunity.

Preliminary Energy Audit



Matson Environmental performed a Preliminary Energy Audit for the Borough, which included:

- ◆ Utility Bill Analyses for 4 of the facilities
- ◆ Energy Star benchmarking for 4 of the facilities
- ◆ Energy Conservation Measures for each facility
- ◆ LED Street Lighting exploration, and
- ◆ A walkthrough visit of each facility

With the Preliminary Audit, Matson Environmental identified 42 Energy Conservation Measures for the Towanda Borough, including:

- ◆ Auditing & optimizing the ATAD process within the sewage treatment
- ◆ Implementing time-of-use and demand reduction strategies at the Water Treatment Plant
- ◆ Upgrading insulation and AC units at Municipal Building & Borough Hall
- ◆ Installing solar photovoltaics on the Fire Hall, and
- ◆ Implementing solar hot water at the YMCA

Grant Assistance

Matson Environmental provided a qualified Energy Assessment for the PA Conservation Works! grant opportunity in August 2009. Qualifying projects were identified, and energy and pollutions savings were quantified.

Grant projects included:

- ◆ Sewage plant blower upgrades
- ◆ Geothermal heat pump using plant effluent, and
- ◆ A 7.36 kW solar photovoltaic system at a nearby pumping station

