

Town of Geneva Identifies Energy Efficiency Measures for Their Buildings



Town of Geneva

The Town of Geneva (Geneva) is a community of 3,291 residents located on the eastern edge of Ontario County. The town is a part of the Climate Smart Communities, which is a New York State program that helps local governments reduce greenhouse gas emissions and adapt to a changing climate. As a part of their goal to become more sustainable, Geneva wants to reduce its energy consumption and operate more efficiently.

Challenge

The Town of Geneva requested assistance from the New York State Pollution Prevention Institute (NYSP2I) with the assessment and identification of potential energy efficiency measures in their town buildings. The objectives were to identify energy waste within the town's highest opportunity buildings and recommend energy conservation measures (ECMs) that would address these problems.

Solutions

NYSP2I reviewed the energy utility costs for the buildings that Geneva added to the ENERGY STAR Portfolio Manager®. After considering the energy use index, energy consumption, and building age, the Town Hall and two Highway Department Buildings were selected as the highest opportunity buildings.

Building Re-tuning is an abbreviated version of building re-commissioning and is a detailed effort to reset and re-adjust all of a building's energy systems. NYSP2I used the techniques of Building Re-tuning to perform high-level building energy assessments of the Town Hall and Highway Department Buildings. NYSP2I conducted building energy walkdowns to identify energy waste in both buildings. NYSP2I then analyzed the observations and utility bills to identify ECMs.

Results

The work performed by NYSP2I led to the identification of many ECMs that can be implemented in the Town Hall and Highway Department Buildings. Some

Challenge

- The Town of Geneva wanted to identify potential energy conservation measures (ECMs) in its highest opportunity buildings.

Solution

- After considering the energy use index, energy consumption, and building age, the Town Hall and two Highway Department Buildings were selected as the highest opportunity buildings.
- NYSP2I conducted high-level energy assessments for these buildings using Building Re-tuning techniques.

Results

- Many ECMs, such as creating temperature setbacks and repairing leaks in the compressed air lines, were identified for the Town Hall and Highway Department Buildings.
- The Town of Geneva can maximize its energy savings by implementing the ECMs.

Testimonial

of the ECMs, such as creating temperature setbacks based on the occupancy or closing the garage bay doors when not in use, require little to no cost to implement and will provide immediate cost savings. Other ECMs, such as installing insulation above the court room or detecting and repairing leaks in the compressed air lines, have some associated costs but will provide significant cost savings. The Town of Geneva can maximize its energy cost savings by implementing as many ECMs as possible.

"I was so impressed by the professionalism of the RIT team. They were able to accomplish this study during the pandemic and with lots of restrictions. They helped explain very complex topics to energy efficiency, and did a great job with the final report."

Jacob Fox
Town of Geneva

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3750 County Road 6
Geneva, New York 14456
315-789-3922
www.townofgeneva.com

Partners

RIT



For more information please contact us:

585-475-2512
nysp2i.rit.edu
nysp2i@rit.edu

111 Lomb Memorial Drive, Bldg 78
Rochester, NY 14623

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