

Town of Pittsford Increases Energy Efficiency Measures with Building Re-tuning



Town of Pittsford

The Town of Pittsford (Pittsford) is a community of 29,000 residents located in southwestern Monroe County. The town has a long history of sustainability and is a 2017 NYSERDA-designated “Clean Energy Community.”

Challenge

The Town of Pittsford requested assistance from the New York State Pollution Prevention Institute (NYSP2I) with an energy assessment and the identification of potential energy efficiency measures in town buildings. The objectives were to identify energy waste or inefficiencies within the town’s highest opportunity buildings and recommend energy conservation measures (ECMs) to correct these problems.

Solutions

NYSP2I reviewed the energy utility costs for the buildings that Pittsford added to the ENERGY STAR Portfolio Manager®. Portfolio Manager is an online tool that is used to manage energy and water consumption. After considering the energy use index, energy consumption, and building size, the Town Hall and Highway Garage were selected as the highest opportunity buildings.

Building Re-tuning can be considered 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 Garage. NYSP2I led the Pittsford staff on building energy walkdowns to demonstrate assessment procedures and 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 Garage. Some of the ECMs, such

Challenge

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

Solution

- After considering the energy use index, energy consumption, and building size, the Town Hall and Highway Garage 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 installing a bypass circuit for the Town Hall cooling tower and finding alternatives to leaving bay doors open in winter (Highway Garage), were identified for the Town Hall and Highway Garage.
- The Town of Pittsford can maximize its energy savings by implementing the ECMs.

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11 South Main Street
Pittsford, NY 14534
www.townofpittsford.org/

as using the vehicle exhaust system instead of opening bay doors while running truck engines inside, should require little to no cost to implement and will provide immediate cost savings. Other ECMs, such as closing roof dampers in heated garage bays or installing a bypass circuit in the Town Hall cooling tower, have some associated costs but will provide significant cost savings. The Town of Pittsford can maximize its energy cost savings by implementing as many ECMs as possible.

Partners



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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