

Assessment of Energy Efficiency and Water Use Opportunities in Yates County Buildings



Yates County

Yates County, in the Greater Finger Lakes Region of New York, covers approximately 338 square miles and touches three of New York's Finger Lakes: Canandaigua, Keuka, and Seneca. Yates County is home to about 24,600 people, and is divided into nine townships and contains four villages. Yates County has commenced activities toward Climate Smart Communities certifications. Climate Smart Communities (CSC) program offers certification for local governments across New York State by providing a robust framework to guide their climate actions and recognizing high performing communities for their leadership in reducing greenhouse gas emission. Toward this objective, Yates County has entered building and energy information into the U.S. EPA's Energy Star® Portfolio Manager from 2015 through 2019.

Challenge

Working through the Genesee-Finger Lakes Regional Planning Council (GFLRPC), Yates County requested assistance from New York State Pollution Prevention Institute (NYSP21) in the energy assessment and identification of potential Energy Conservation Measures (ECM) in Yates County owned and operated buildings. Additionally, Yates County requested a water use assessment of their Public Safety Building.

Solutions

NYSP21 provided high level evaluations of the energy use in Yates County's Public Safety Building and County Office Building and evaluated the water use in the Public Safety Building. To accomplish this, NYSP21 performed the following tasks:

1. Review energy use data and utility bills about Yates County's energy use and costs to calculate the value of ECMs.
2. High level building energy assessment which consisted of energy walk-throughs known as walkdowns in the Public Safety Building and County Office Building
3. Water use assessment for the public safety building which included

Challenge

- Yates County wanted to identify potential energy conservation measures (ECMs) for Yates County owned and operated buildings

Solution

- NYSP21 conducted high level evaluations of energy use in Yates County's Public Safety Building and County Office Building
- NYSP21 evaluated the water use in the Public Safety Building.

Results

- NYSP21 identified several opportunities to implement energy efficiency measures, energy reduction measures, and energy conservation measures.
- Many of these measures have no or low implementation costs and provide immediate cost savings.

observing water use, creating a water distribution map, and recommend sustainable options to reduce water use.

Results

The results from the assessments were used to map water use and identify opportunities and recommend sustainable water reduction methods for the Public Safety Building. In addition, the results of the walkdown were used to identify opportunities and recommend ECMs for County Office Building and Public Safety Building.

The Energy Efficiency Assessment by NYSP2I at Yates County unveiled several Energy Efficiency Measures (EEM), Energy Reduction Measures (ERM) and Energy Conservation Measures (ECM) opportunities. Many of these have no/low implementation costs and provide immediate cost savings. Others may require a small cost or effort but will provide energy cost savings with a quick payback. There were also some measures that require a more significant investment and could yield significant energy cost savings.

Testimonial

“NYSP2I was fantastic to work with from day one of the project. Their work has provided a list of items that can be implemented easily and items to be quoted for consideration of implementation. Yates County is fortunate to have had this collaboration with NYSP2I.”

Joe Reed
Buildings and Grounds Supervisor

Yates County

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