PROJECT PROFILE

Oxford County Waste Management & Education Centre

Salford, Ontario

Services Provided:

- Renewable Feasibility Assessment
- Energy Consulting
- Air-Tightness
- Measurement & Verification
- Solar PV Engineering

Fast Facts:

Project Type: Municipal Office
Certification: NBI Zero Net Energy Certified (first office in Canada)
Project Span: 2019

Notable Achievements:

Energy Savings:	100%
Water Savings:	30%
Renewable Energy:	24 kW

Reference Contact:

Mike Amy, FMP
Supervisor of Facilities

21 Reeve St. | P.O. Box 1614
Woodstock, ON N4S 7Y3
T: 519-539-9800 x 3101
C: 519-532-5610
mamy@oxfordcounty.ca

The Oxford County Waste Management & Education Centre includes a mixed use of office space for waste management operations, as well as examples and education. This facility moved a number of different groups into the same workplace. This project consists of a mix of spaces including offices, meeting rooms and associated support areas.

The project is pursuing Net Zero designation through the New Buildings Institute (NBI) initiative through demonstrated energy consumption and onsite energy generation through a 24 kW ground mounted net metered solar photovoltaic system. An additional 96 kW ground mounted solar photovoltaic system was installed to offset the electricity use of the entire waste management campus.

From the project inception, Measurement & Verification was a key objective set out by the team. Zon Engineering Inc. worked with Oxford County to integrate an eGauge measurement & verification program to track energy usage at the end-use throughout the facility.

The project included a wide variety of energy efficiency technologies, including:

- Cold climate Air Source Heat Pump (ASHP) system for space heating and cooling.
- Enhanced insulation levels in the wall and roof assemblies & air tightness verification and testing.
- A dedicated outdoor air system with an energy recovery ventilator (ERV).
- An energy efficient lighting design utilizing fluorescent lighting combined with daylight and occupancy sensors.