

The Town of Orangeville

Location:

Seven Facilities in the Town of Orangeville

Type of Contract:

Energy Performance Contract

Contract Value:

\$ 1.2 Million

Job Completed:

2010

"All contact with Ainsworth staff has been positive and high on professionalism. They have worked hard at accommodating Facility Managers schedules. If there are future projects to be considered, we would be happy to work with Ainsworth."

- Vern Douglas, Director of Building and By-Law Enforcement



The Town of Orangeville is one of the fastest growing municipalities in Ontario and one that takes energy conservation seriously, so when Ainsworth approached Town Council in September 2006 with the results of a no-fee energy audit of fourteen of the town's facilities and a preliminary proposal identifying considerable savings, The Town quickly agreed to undertake a complete feasibility study.

After revisiting the facilities, Ainsworth completed a detailed analysis of the potential cost-saving measures originally proposed, and confirmed there were opportunities for significant energy savings at seven town-owned facilities: Orangeville Town Hall, Alder Recreation Centre, Tony Rose Recreation Centre, Orangeville Library, Orangeville Hydro, the Public Works Garage and the Fire Hall.

Ainsworth's energy plan included measures such as: retrofitting lights at all seven facilities; installing high efficiency condensing boilers at both recreation centres, installation of high efficiency motors and variable frequency drives at various locations, retro-commissioning of the building automation systems at the Alder Recreation Centre and the Town Hall (reprogramming the systems to maximize energy savings without sacrificing comfort and quality), and optimizing the refrigeration system controls at both recreation centres. Ainsworth also recommended some optional upgrade measures to enhance the base project: installing a low-E ceiling in the Alder Recreation Centre, lighting controls in the Public Works Operations Centre, and building envelope improvement measures at all facilities.



Completion of these projects, at a total cost of \$1, 226,933, was projected to provide \$176,406 in yearly energy savings, for a simple payback of 6.96 years. It would also reduce yearly CO2 emissions by 689 tons, taking the equivalent of 140 cars off the road and saving 352 trees.

Ainsworth provided a guarantee for the estimated annual energy savings for this project of \$176,406.

Council approved moving forward with the base project and capital upgrade measures in April 2007. When the agreement was announced, Mayor Rob Adams said, "The Town is bringing energy conservation to the forefront and is sure to come out ahead with this proposal put forward by Ainsworth. We will realize significant energy savings over the short and long term, we will upgrade some critical equipment at some of our facilities, and we will reduce energy consumption. We all win by raising awareness about the importance of energy conservation and efficiency."

The contract was signed in June 2007. Detailed engineering and construction was soon initiated. The projects progressed well other than difficulties in work scheduling and site specific issues in applying energy conservation measures that had to be overcome. According to Amanda Kusick, Municipal Account Manager for Ainsworth, "The working relationship with the Town of Orangeville is excellent. Both parties are willing to work together in order to get the job done. Bi-weekly site progress meetings were conducted to review the work done to date and to plan ahead. It was extremely important to us that the Town remains highly satisfied with our work and that we minimize any disruption within their facilities. Sometimes the scheduling has been tight due to vacations, downtime for maintenance or facility operating schedules, but we work around all of these obstacles as best we can in order for us to get the job completed in a reasonable time."

The Monitoring & Verification (M&V) of savings commenced from April 2010. The project has been in the measurement and verification (M & V) stage since April 2010 and has been performing above expectations.