

Township of Langley Civic Facility

Application to Community Energy Association 2006 Energy Aware Award August 11, 2006

Executive Summary

The Township of Langley's new Civic Facility is a showcase of energy efficient infrastructure and practices. Completed in December 2005, the new Civic Facility is a Leadership in Energy and Environmental Design (LEED) building that retrofitted an existing and underutilized building shell to demonstrate and promote energy efficiency, water conservation, and numerous other environmental features.

In planning the new facility, opportunities for conserving energy were researched, identified and implemented for every element of the project. As a result of this, within the new Civic Facility, energy costs and greenhouse gas emissions will be reduced by an estimated 66%, which translates into an estimated savings of \$40,000 per year in decreased energy costs. Energy efficient technology used includes a GeoExchange heating and cooling system, heat recovery units, daylight harvesting, energy efficient lights, energy-saving light controls, low emissivity windows, energy efficient appliances and equipment, and the use of green power.

The energy efficient Civic Facility meets numerous Township goals including reducing short- and long-term environmental impact by reducing energy use and greenhouse gas emissions; economic cost savings due to reduced energy use; and promoting complete, compact communities by providing all aspects of municipal services – recreation centre, library, community police office, staff offices, civic services, and Council theatre – in one building in the fastest growing region of Langley.