

Attachment-10 Community Energy Initiative Commitment



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APPENDIX I

Community Energy Initiative (CEI) Analysis

The City of Guelph has made a commitment to use energy more wisely and fight climate change. The Community Energy Initiative (formerly Community Energy Plan – CEP) is Guelph's commitment to use and manage energy differently and better than in the past. The City of Guelph believes the initiative will also attract quality investment to the city as reliable and sustainable energy supply will continue to be a key ingredient in the long-term competitiveness and prosperity of cities.

The main goal of the CEI is that Guelph will become a Net Zero Carbon community by 2050.

Section 4.7 of Guelph's Official Plan provides policy direction regarding the City's Community Energy Initiative which is identified as "The Community Energy Plan provides the following direction:

"The CEP establishes progressive targets for both energy conservation and reduction in greenhouse gas emissions. Community energy, energy efficiency, environmental design and increasing the supply of energy through renewable energy systems and alternative energy systems will all contribute to achieving these goals. The CEP also recognizes that water conservation is a key contributor to meeting the City's energy goals."

Although the proposed semi-detached development is not a large scale development, the applicant will implement the following energy and conservation measures to achieve an energy efficient development:

- High efficiency furnace, tankless water heaters and air conditioning units,
- Ready Electric Vehicle Charging Station
- Bicycle parking

Attachment-10 continued

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- Increased insulation to reduce heat loss and heat gain. The use of continuous insulation on the face of the structure significantly reduces the thermal bridging and increases the thermal performance of the wall,
- Upgraded window R-Values along with higher Solar Heat Gain Coefficients.

Water Conservation

- An alternative water supply or demand management system is not proposed at this time.
- All roof drains will be diverted to subsurface infiltration areas to reduce runoff from the site.
- The use of low flush toilets will contribute to limit the amount of water used in the building.
- Low water use landscaping alternatives will be used as much as possible.
- All units within the development will be outfitted with LED fixtures along with lighting controls (timers and occupancy sensors).

The proposed semi-detached development is consistent with the energy and water conservation strategies outlined in the City's Official Plan (Sections 3.8 and 4.3).