

Attachment-12 Community Energy Initiative Commitment

February 15, 2022

Ms. Lindsay Sulatycki
Senior Planner
Planning and Building Services
1 Carden Street
Guelph, Ontario N1H 3A1

Dear Ms. Sulatycki:

**Re: Zoning By-law and Official Plan Amendment, 205 to 213 Speedvale Avenue East
COMMUNITY ENERGY INITIATIVE**

The Community Energy Initiative (CEI) is an update to the City's original Community Energy Plan. The CEI resulted in the establishment of 25 actions to support the City's long-term (2050) sustainability objectives.

Action item 1 is of particular relevance to this application and it states that the City should incrementally increase the number of net zero new homes to 100% by 2030.

In an attempt to meet the City's goal of being a Net Zero community, the proposed development will incorporate the following features that ensures a Net Zero co-housing community:

The apartment building is proposed to incorporate sustainable design criteria such as:

- Net Zero;
- Passive House;
- Building Biology;
- Wellness Building; and
- Biophilic Design.

Significant energy and/or water conservation measures have been included in the design including:

- Southeast orientation for passive solar heating;
- Overhead and shading devices to provide shade in summer and winter solar gain;
- Shade trees to reduce summer solar gain on building and parking
- Crushed stone and unit paver parking to reduce solar gain from asphalt
- Roof slope optimum for solar photovoltaic panels;
- Thermal storage mass in the structure of walls and floors;
- Photovoltaic panels;
- Central solar hot water heating and storage;
- Ultra-low consumption toilets and facets;
- Rain water harvesting for garden irrigation;
- Grey water harvesting for underground garden irrigation;
- Edible landscaping and vegetable gardens
- Promote active transportation provide abundant indoor and outdoor covered secure bicycle parking
- Car share
- Electric car plug-ins
- Operable windows and cross ventilation
- Occupancy sensors and motion activated LED lighting
- High efficiency mechanical equipment air-to-air heat pumps, energy recovery ventilators

Yours truly



Michael Fortin



Beryl Isobel Beard