

Principle 2: Create Sustainable and Energy Efficient Infrastructure

Building infrastructure that is efficient, focuses on renewable energy sources, and supports an integrated energy distribution system that enables a carbon free lifestyle.

Objectives

- a) Create a framework for the District to work toward carbon neutrality and exceed the City's Community Energy Plan targets, building infrastructure that is efficient, where feasible that focuses on renewable energy sources, and supports an integrated distribution system that enables a carbon free lifestyle.
- b) Support development of an integrated energy distribution system, which maximizes connections between energy generation opportunities (producers) and end users (provides opportunities for local energy generation, maximizes connections between generation opportunities and end users, and minimizes overall energy use).
- c) Support cradle-to-cradle processes where the waste by-products/surpluses of one activity are used as resources by another (e.g. industrial ecology).
- d) Include efficient, long-term and community based strategies to conserve and manage energy, water, wastewater, stormwater and solid waste.
- e) Develop a model community that showcases sustainable, green, low impact urban development.
- f) Embrace innovation, establish best practices, and serve as a learning environment for other communities across Guelph and Southern Ontario.

Policy Highlights

- Maintain Official Plan policies requiring development on full municipal services
- Development must be District Energy ready
- Recognize the importance of stormwater design - low impact development measures, alternative design standards, etc.
- Achieve at a minimum the City's Community Energy Plan energy conservation targets
- GID carbon neutral definition – energy efficient building forms
- Carbon emissions from new buildings balanced with amount sequestered and/or offset from renewable energy
- Implementation Strategy - outline initiatives, targets, phasing and performance monitoring



**Principle 3:
Establish a Balanced
Mobility System**

Making connections that serve the community, allow current and future generations to walk or cycle to daily needs, and provide convenient transit services to access broader activities.



Objectives

- a) Integrate the District with the City as a whole, with clear connections to Downtown, the University of Guelph campus, and nearby neighbourhoods.
- b) Provide a transportation system (streets, sidewalks, cycle paths, trails, and rail) that serves the District, provides rational and efficient connections for all modes of transportation, and provides public access to the Natural Heritage System.
- c) Provide a land use pattern, urban design policies and standards and supportive transportation system that connects us with our daily needs, including transit stops, within a 5-10 minute walk of most residents (400 m distance).
- d) Provide universal access that prioritizes pedestrians, cyclists and transit users over drivers by providing an extensive pedestrian and cycling network with direct, safe and healthy travel routes, and convenient, affordable transit service which is integrated with the rest of the City.
- e) Build new connections for pedestrians, cyclists and potentially transit users across the Eramosa River valley to better connect uses and activities.
- f) Integrate the current commercial rail line within the new community as a potential transportation hub and commuting centre for the movement of people and goods.

- g) Ensure that the capacity of existing and new streets is sufficient to support the District, while managing traffic impacts on adjacent road networks and neighbourhoods.

Policy Highlights

- Emphasis on active transportation and Transportation Demand Management (TDM)
- Eramosa River crossing key to TDM & trail system connection
- Major transit stops at key nodes and along mixed use corridors will be fully integrated with land uses to enhance opportunity for transit ridership
- Single loaded perimeter local road to maintain public access to river corridor views
- Parking policies reinforce carbon neutral Vision which include shared parking, car-shares, and alternative energy vehicles
- Development of alternative development standards



