

Our Vision:

Stratford's Community Energy Plan envisions a sustainable community that reduces greenhouse gas emissions and energy consumption through active transportation, education, energy conservation and efficiency, and renewable energy. The creation of Stratford's Community Energy Plan was recommended by the Sustainable Stratford Results Matter Initiative. This Community Energy Plan will help achieve Stratford's Vision: to become a sustainable community where the social needs of residents are taken care of, where our culture and heritage is rich, diverse and celebrated, where the limits of the earth to sustain us are recognized and respected, where there is a thriving local economy, and where there is a transparent and responsive local government.

To meet the above Vision, we will:

- Increase capacity to lower greenhouse gas emissions across the entire community.
- Promote energy efficiency among Stratford residents and reduce electricity consumption.
- Promote energy efficiency and conservation among Stratford businesses.
- Promote energy efficiency and conservation among all development and construction companies working within Stratford.
- Promote renewable energy and energy efficiency among Stratford residents and businesses.
- Reduce greenhouse gas emissions being produced by all municipal operations and buildings.

By 2026, Stratford Town Council plans to reduce GHG emissions from 2015 levels by 20% for the Municipality, and 6% for the Community. For the Community, this represents a 34% per capita reduction in GHG emissions between the years 2017 and 2026. In 2022, we will assess whether the previous year's reduction targets for the Municipality and Community have been reached, by creating a GHG Emission Inventory.

Implementation:

The implementation of this Community Energy Plan has been spread out over a 10 year period, with various departments and community groups being appointed different tasks. There are 6 goals, 16 objectives and 48 actions that should be implemented in order for Stratford to reach its reduction targets. Most of the recommended actions should not be implemented exactly as written, but rather each action will adapt to the changing circumstances as time goes on.

Details of a few key actions in this plan:

Install Solar Energy System on Stratford Community Centre Gym:

- Would involve installing up to a 100KW grid tied photovoltaic solar system onto the roof of the town centre gym;
- Depending on the size of the system and the cost of installation, the amount of savings generated would be roughly \$15,000-\$35,000 a year in operational costs;
- Installed, this would be one of the first photovoltaic system mounted onto a community centre in Prince Edward Island and it would be one of the first Town Hall's in Canada to be powered by solar panels.

Stratford's Program for Energy Audits and Renewables (SPEAR):

- Would provide a single point of contact for a resident to receive an energy audit, and energy/renewable retrofits without having to contact multiple service providers;
- Would require no payments to begin the process with all costs for the program being recovered by payments made after all the work is complete;
- Concept is that people will not pay more than they are paying right now for energy, but they will be able to use less energy and save money once all retrofits from the program have been paid off.

Work has already begun on SPEAR, and volunteers will be required for a Pilot Program in the Winter of 2018. Do you want to save money on your energy bills without paying for any upgrades upfront? Then please email bgrieder@townofstratford.ca to get involved with the SPEAR Pilot Program.

ENERGY & EFFICIENCY FACTS:

About 40% of hazardous air pollutants in urban areas are generated by the transportation sector. The air pollutants emitted by motor vehicles include volatile organic compounds, nitrogen oxides, particulate matter, carbon monoxide, and sulfur oxides.

LED lights can last up to 30 times longer than incandescent bulbs.

Weather stripping around doors and windows can reduce heating and cooling needs by up to 20%.

Up to 25% of heat loss is through windows. Plastic window covers can help reduce drafts.

85-90% of the energy used in a washing machine goes into heating up water in a washing machine.

Charging adapters that are not charging but still plugged in consume electricity. They must be completely unplugged to stop consuming energy.

Using lids while cooking reduces energy consumption by up to 14%.



Here are some things you can do right now!

- Bike or walk to work
- Carpool with your co-workers
- Turn off your car after 30 seconds of idling, to save money and gas
- Review your house plans, and assess how you can save money on heating
- Keep track of electricity consumption through your Maritime Electric bills
- Heat and cool rooms in your home with the sun, based on location
- Plant more trees on your property
- Incorporate more LED lighting into your home

STRATFORD COMMUNITY ENERGY PLAN



Imagine that!

Stratford Community Energy Plan

GOALS

1 Increasing Capacity
Carbon Sequestration
Education • Policy
Transportation

2 Residential Energy Efficiency
LED Lighting
Audits & Retrofits
Education & Awareness

3 Commercial Energy Efficiency
Audits & Retrofits
Education & Awareness

4 Energy in Development
Education & Awareness

5 Renewable Energy
Education & Awareness

6 Municipal Operations
Energy Efficiency in Buildings
Renewable Energy
Energy Efficient Utilities
Procedures & Management

2017 / Waste-Not Wednesdays /
Efficiency Upgrade @ Crossroads Community Centre

2018 / Protecting Flora / Reduce Idling / School Energy Challenge /
SPEAR / Green Building Network / Solar Upgrade @ Town Centre /
Gather Data / Hire A Sustainability Coordinator

2019 / Micro-Grant Program / 2015 NEC / NBC / Solar Energy Bylaw /
Promote Electric Vehicle Stations / Carpool, Walk, and Transit Initiatives /
Light Bulb Exchange / Community Energy Challenge /
Business Energy Challenge / Energy Upgrade @ Fire Hall /
Solar Upgrade @ Pondsider

2020 / Community Solar Farm / Wind Policy /
Park & Ride Program / Bike Rentals /
Active Transport Programs / LED Lighting Campaign /
B Corp. Promotion / Efficiency Upgrade @ Cotton
Arts Centre / Solar Upgrade @ Fullerton's Marsh

2021 / WatersCool Expansion /
Electric Vehicle Fleet Updates /
Staff Carpool /
Solar Upgrade @ Cable Heights /
Building Tax Incentive

2022 / Dog Poo Fertilizer Program /
Efficiency Upgrade @ Maintenance Building /
Solar Upgrade @ Crossroads Community Centre /
Efficiency Upgrade @ Waste Water Treatment

2023 / Solar Upgrade @ Maintenance Building /
Solar Upgrade @ Altitude Valve C

2024 / T3 Electric Bus

2025/2026 / Net Zero Town Centre / Future Buildings Policy