

Energy Efficiency Strategy

City of Greater Sudbury

Energy Efficiencies Strategic Project Team
Chair: Stephen Monet

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Statistics

- The City of Greater Sudbury spends approximately 3% of its budget on energy to run its fleet of 1100 vehicles and other motorized equipment (650 licensed vehicles); to treat water and wastewater; to power over 600 municipal buildings; and to light its streets.
- The City of Greater Sudbury's direct energy budget totals over \$15.1 million.
- Roughly 30% (\$4.5 million) is allocated to fuel, 55% (\$8.5 million) for electricity, and 15% (\$2.1 million) to natural gas.

Sustainability

- Becoming more efficient in our use of energy is one of the foundation blocks to becoming more sustainable.
- EarthCare Sudbury Local Action Plan
- Healthy Community Strategy

Achievements to date

We are not starting from the ground level

Examples of achievements:

- 1.6MW power station from captured landfill gas.
- 50% replacement of traffic signals (90% savings).
- Optimization of snow plow and salting routes to minimize travel time.
- Savings achieved through securement of competitive fuel/electricity/natural gas purchasing agreements.
- Numerous energy retrofits to several City buildings, including Tom Davies Square.
- Numerous Arena retrofits.

Fuel Efficiencies

Purchasing fuel-wise vehicles and putting in place fuel-saving technologies appropriate to the intended use.

- White fleet (cars)
- Supervisor's pickup trucks
- Auxillary heaters
- LED Lighting

Fuel Efficiencies

Creating fuel-wise habits in CGS personnel through education and training.

SmartDriver in the City

- Offered free by Natural Resources Canada
 - All transit drivers currently trained
 - City trainers available
 - 3 to 4 hours for basic training
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- 'Idling Gets You Nowhere'
 - Energy Technology Shows
 - EarthCare Sudbury initiatives
 - Transit initiatives to increase ridership

Fuel Efficiencies

Monitoring to ensure fuel-wise use of CGS resources.

- Reassignment of fuel budgets
- Automatic Vehicle Locators (AVLs)
- Fuel Storage & Management System
- Energy Clerk

Facilities & Infrastructure Efficiencies

Energy and Environmental Management System

- The foundation of the energy efficiencies strategy relies on good information.
- Electronic information system that stores and analyzes energy utilization data provided by utility companies.
- Association of Municipalities of Ontario (AMO) and the Local Authorities Services Ltd. (LAS) have launched an EEMS, which they have named the Energy Management Tool (EMT).
- Energy Clerk

Facilities & Infrastructure Efficiencies

All components of the energy efficiency strategy outlined so far will be covered through operating budget.

Facilities & Infrastructure Efficiencies

Certified Energy Manager

- Keystone of a successful energy efficiencies strategy.
- Energy audits – existing and future.
- Set priorities for retrofits.
- Work with divisional and sectional managers for coordinated approach to energy efficiencies.
- Oversee Energy Management Tool.
- Seek out grants for retrofits.

Facilities & Infrastructure Efficiencies

Energy Audits of CGS Facilities

- Audits of 45 buildings have been done.
- Audits need to be revised based on new technology and audits for many of our over 600 buildings still need to be done.

Fostering Energy-wise Corporate Culture

- Smart Driver in the City training
- Vehicle right-sizing
- Promote efficient route planning
- Continuous Improvement Program
- Community Initiatives

Questions