

# A Combined Effort...

## Canada Sets its Targets

Canada has signed the Kyoto Protocol which sets binding targets for reducing GHG emissions by six percent below 1990 levels between 2008 and 2012. Canada's action plan to meet Kyoto maximizes improvements in productivity and competitiveness. The Kyoto Protocol will come into force globally February 16<sup>th</sup>, 2005.

## Manitoba Taking Action!

Manitoba has developed a plan of action to meet and exceed Kyoto targets. The plan includes:

- ☑ Clean energy, transportation, building, and agriculture initiatives
- ☑ 10% Ethanol blended gasoline
- ☑ Methane capture from landfills

## Communities Committing to Climate Protection

Join the Partners for Climate Protection (PCP) program! Make a commitment and become a part of PCP and support actions to reduce GHG emissions in your municipality. Winnipeg, Virden, Dauphin, The Pas and the Town of Swan River are all participants of the PCP program. Participants are assisted in profiling and forecasting emissions, establishing reduction targets, developing local action plans, implementing local action plans, monitoring and reporting results. To join, visit [www.fcm.ca/english/national/programs/club/club.html](http://www.fcm.ca/english/national/programs/club/club.html).



## Resources to Reduce GHG Emissions:

- Climate Change Connection: (204) 943-4836 or visit [www.climatechangeconnection.org](http://www.climatechangeconnection.org)
- Government of Canada: [www.climatechange.gc.ca](http://www.climatechange.gc.ca)
- Government of Manitoba: [www.gov.mb.ca/est/climatechange](http://www.gov.mb.ca/est/climatechange)
- Manitoba Hydro: (204) 474-3311 or visit [www.hydro.mb.ca](http://www.hydro.mb.ca)
- Federation of Canadian Municipalities (FCM): (613) 241-5221, ext. 321 or visit [www.fcm.ca](http://www.fcm.ca)
- International Council for Local Environmental Initiatives (ICLEI): (416) 392-1462 or visit [www.iclei.org](http://www.iclei.org)
- Resources Conservation Manitoba: [www.resourceconservation.mb.ca](http://www.resourceconservation.mb.ca)



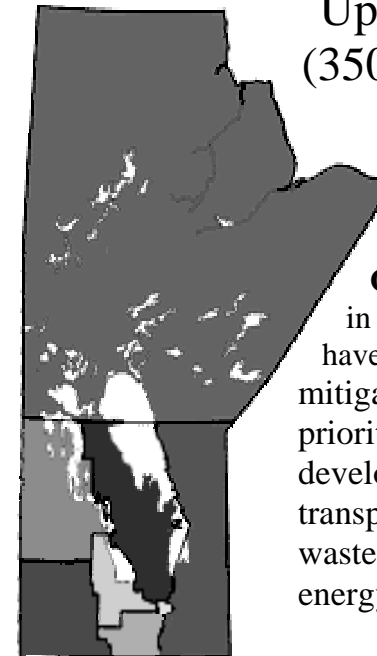
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# Creating Climate-Friendly Communities



Up to **half** of Canada's greenhouse gas emissions (350 million tonnes) are under the direct or indirect influence of municipal governments.

## Manitoba Communities Take Action!

**Our climate is changing.** As the concentration of greenhouse gases (GHGs) increase in our atmosphere, the average global temperature is rising. Manitoba communities have begun to take action by developing innovative ideas to reduce GHG emissions and mitigate climate change. With small changes to decision making, planning and priorities, Manitobans are creating climate-friendly communities while continuing to develop economically. Communities look to take action on the following areas: transportation, agriculture, waste management, and energy efficiency.

### Town and R.M. of Shoal Lake

Shoal Lake has reduced municipal waste by 60% by implementing a recycling program. In fact, Shoal Lake has the highest rate of recycling per person in Canada. The town has implemented a residential pick-up program and adapted sanitation trucks to collect refuse, recyclables and organic material. The town sells the recycled material, composts the local organics at the local landfill and operates a program called "Take Some, Bring Some."



### Town of Roblin

With funding support from Prairie Farm and Rehabilitation Administration (PFRA), the Town of Roblin recently constructed and engineered a wetland to manage the town's municipal and residential wastewater. The relatively low cost, 40-acre wastewater treatment system has not only stopped the degradation of nearby irrigated land and reduced the amount of nitrous oxide (NO<sub>2</sub>) released into the atmosphere, but has created a new provincial standard with zero discharge capability.



## Community Workshops on Climate Change

One-day Community Workshops on Climate Change are available through Climate Change Connection. Participants learn about climate change, mitigation, funding, and municipal-level programs. To date, Climate Change Connection has hosted eleven workshops in the following areas: Steinbach, Brandon, Thompson, Dauphin, Virden, Minnedosa, Portage La Prairie, Gimli, Winkler, Parkland, and North Man Communities.



If your community is interested in hosting a Community Workshop on Climate Change please contact Climate Change Connection at (204) 943-4836.

# Manitoba Made Solutions...

According to FCM, climate change will affect the following municipal operations:

- Transportation
- Parks and recreation
- Water and sewage
- Solid waste management
- Pest control
- Construction
- Municipal buildings
- Public safety
- EMO
- Energy use
- Snow removal
- Building codes
- Horticulture
- Land use planning

## Lights & Electricity

Get more for your energy dollar by implementing energy efficient practices and technologies.

Here are some tips from Manitoba Hydro and the One-Tonne Challenge that will put money in your municipality's pocket:

- Retrofit existing buildings by replacing existing lighting with energy-efficient models and taking advantage of Manitoba Hydro's Power Smart incentive programs
- Change street and emergency lighting from consumptive energy lighting to solar photovoltaic (PV) power lighting
  - Switch traffic signals and exit signs from incandescent bulbs to light emitting diodes (LEDs)
  - Buy energy efficient products, products made in Manitoba and products that limit packaging



According to ICLEI Energy Services, payback times for strategic energy plans (SEP) can be as early as 4.5 years. At Community Workshops on Climate Change, many communities look to SEP's as their first step.

## Waste Management

Community waste contributes to 14% of municipal GHG emissions. There are many ways to reduce waste in a community. Three words come to mind: recycle, reuse and reduce.



### Recycle

Encourage recycling within the community through subsidizing promotions, increasing accessibility, initiating a recycling pick-up, and upgrading local recycling facilities.

### Compost

- Encourage residential composting by hosting a composting clinic, subsidizing composters, and composting at the local community landfill
- Develop composting strategies within local businesses through policies, training and accessibility

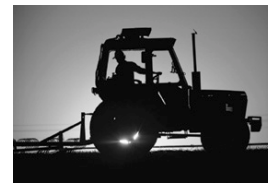
### Reuse and Reduce

- Prevent waste in day-to-day activities by practicing green purchasing, monitoring usage, increasing awareness and making informed choices
- Recover landfill methane for energy production
- Reduce waste going to landfill by creating a community swap shack, organizing community collection days, and creating community donation sites
- Contact Resource Conservation Manitoba for more waste management tips

In April 2001, the City of Brandon initiated a one-day 'Backyard Compost Bin Distribution Blitz'. This residential composting promotion saw over 1100 Norseman Earth Machines made available at a subsidized price of \$10 with support from the WRAPP Fund.

## Agriculture

The agricultural industry contributes to one-third of the total GHG emissions in Manitoba.



Ideas for reducing GHG emissions on the farm:

- Manure management (optimizing diet, grazing practices and spreading)
- Improving feeding and breeding practices
- Practicing zero tillage
- Reducing stubble burning
- Incorporating strategic shelter belts
- Capturing methane

At the Steinbach Community Workshop on Climate Change, participants look to the farm as a primary target for the reduction of GHG emissions. The community discussed laws and raising awareness to encourage the reduction.

More Manitoba resources on the back!

## Transportation

In Manitoba, the transportation sector is the greatest source of greenhouse gas emissions. To do our bit, we need to find more climate-friendly ways to travel.

Reduce your community's transportation GHGs by:

- Encouraging climate-friendly travel through developing bike paths, increasing green spaces, implementing or enhancing public transit and car pooling
- Encouraging the proper maintenance of vehicles by hosting tire pressure days, posting tune-up reminders, developing partnerships with service stations
- Select and drive a vehicle that is suitable for your needs including the fuel economy and emissions rating
- Avoid idling within the community by creating awareness, posting "Idle Free Zone" signs, establishing municipal policies and evaluating fleet vehicles

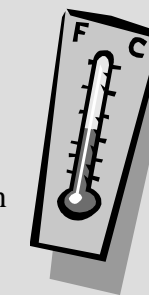
### Does your community have their Idle Free Zone signs?

For information contact Climate Change Connection. There are presently 450 Idle Free Zones throughout Manitoba.



## Heating & Cooling

In Canada, homes are the second largest source of GHG emissions, primarily due to heating and cooling.



Fortunately, reducing emissions from our abodes often involves easy – and very economical – choices!

- Maintain the building's envelope by upgrading insulation, caulking and weather-stripping, doors and windows
- Build to the Canadian R-2000 standards
- Optimize natural cooling and heating effects from the surrounding environment, including: planting trees, roof top gardens and greening of the buildings surroundings
- Maintain proper thermostat settings in the winter and summer
- Examine the option of geothermal heat systems
- Inquire about Manitoba Hydro's home energy assessments

New developments and buildings in Manitoba are looking into the option of geothermal heat pumps. With support from Manitoba Hydro, the Town of Wawanesa developed a new subdivision that shares a geothermal heat pump.

Are golf carts for golf courses? At the Gimli Community Workshop on Climate Change, participants came up with the idea of using electric golf carts in and around town. It seems the folks of Gimli are not the only ones on "par" to help clean up the air with this idea. Fort Whyte Centre in Winnipeg purchased electric golf carts to help visitors reach far-flung attractions.

Co-benefits from climate-friendly living:

- Financial savings through energy and fuel efficiency
- Green space preservation
- Local economic development and job creation through the demand for energy efficiency and new energy systems
- Air pollution reduction
- Traffic congestion improvements
- Community livability/quality of life