

FCM

Climate Change: The Municipal Response

Clean Energy Group

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SUSTAINABILITY

Presentation Summary

- **Federation of Canadian Municipalities (FCM)**
- **The Centre for Sustainable Community Development**
- **Green Municipal Fund**

Federation of Canadian Municipalities

National voice of municipal governments since 1901

Represents over 1,100 municipal governments

FCM is dedicated to improving the quality of life in all communities by promoting strong, effective and accountable municipal government

Focus: advocacy on economic, environmental and social policies that affect municipal government

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Federation of Canadian Municipalities

Policy, Advocacy and Communications

- Develop and promote policy at the federal level on behalf of Canadian municipalities

International Centre for Municipal Development

- Partnership/exchange to assist municipalities to develop sustainable political structures

Centre for Sustainable Community Development

- Develop and manage programs that promote leadership, innovation, and investment in environmentally sustainable municipal infrastructure

Centre for Sustainable Community Development

- Financial support through the **Green Municipal Fund**
- Programs to build capacity and encourage best practices:
 - FCM-CH2M HILL Sustainable Community Awards
 - Affordability and Choice Today (ACT)
 - Partners for Climate Protection (PCP)
 - Community Energy Mission
 - Sustainable Communities Conference 2006

FCM Resources

- **Municipal Sustainability Plan: A guidance document for the development of a greenhouse gas emissions reduction plan (2004)**
- **Citizen Participation and Community Engagement in the Local Action Plan Process**
- **The Business Case for Cutting Greenhouse Gas Emissions from Municipal Operations**
- **Green Municipalities: A Guide to Green Infrastructure for Canadian Municipalities**
- **NEW Quick Action Guide – to reduce GHGs in corporate operation and the community**

Municipal Governments and Climate Change

- **Municipal Governments are responsible for more than 60% of GHG emissions**
- **Municipal Governments are responsible for responding to many of the impacts of climate change**
- **Municipal Governments are highly concerned about infrastructure lifecycle and costs**

Municipal Government and Climate Change

- **Municipal Governments are risk averse**
- **Municipal Governments are highly dependent on the property tax base**
- **Large “municipal infrastructure deficit” in Canada**
- **Tendency for short-term thinking**

The Green Municipal Fund

Established in 2000 with a \$125 million endowment from the Government of Canada

Doubled to \$250 million in 2001-2002 federal budget

\$300 million enhancement to the GMF in Budget 2005
– \$150-million for a new brownfield category.

FCM has signed a new agreement with the Government of Canada for the management of the GMF with the following objective: *to make the GMF a more sustainable, long-term funding source for municipal governments and their partners.*

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GMF now operating under the new agreement with funding caps...

Capital Implementation Projects

- To lend \$50 to \$70 million per year to eligible capital implementation projects
- To grant \$7 to \$10 million per year to eligible capital implementation projects

Studies

- To grant \$8 to \$12 million per year to eligible feasibility studies, assessments, field tests and sustainable community plans

GMF – Funding Categories

- Energy and energy services
- Water
- Solid waste management
- Sustainable transportation services and technologies
- Sustainable community planning and integrated projects
- Brownfields Redevelopment

A competitive RFP process for capital implementation projects...

- **Begins in October 2005**
- **The first RFP will be for brownfield remediation projects.**
- **In coming months, other RFPs will follow for each of the other GMF categories.**
- **Objective: at least one RFP in each GMF category during a fiscal year.**

Capacity Building included in the new GMF agreement...

- **Up to \$750,000 annually to fund capacity building activities.**
- **Definition: *Initiatives that improve municipal government performance in increasing the quality of life of Canadians by improving air, water and soil quality and protecting the climate and by building environmental, social and economic sustainability.***

Capacity Building

- Taking the lessons learned from GMF funded projects and sharing with peers
- Campaigns in each of the GMF categories, starting with energy, brownfields and sustainable community planning
- Goal is to change the municipal government decision making process, so that they become more sustainable communities

GMF – Results to date

Feasibility Studies

- 377 approved studies
- \$29 million in grants
- Total project value of \$73 million

Capital Installations

- 70 approved projects
- \$190 million in loans
- \$40 million in grants
- Total project value of \$1.5 billion

GMF – Results to date

• Energy - Buildings/Facilities	57
• Energy - Renewable/Supply	93
• Solid Waste Management	90
• Community Planning/Integrated	60
• Sustainable Transportation	34
• Water - Distribution/Conservation	31
• Water - Storm Water	23
• Water – Wastewater	59
• Total	447

GMF – Environmental Benefits

GMF projects have delivered:

- **Greenhouse gas reductions: 876,000 tonnes**
- **Cleaner air: 1,025 tonnes reductions in NO_x, SO_x, PM₁₀, VOC**
- **Cleaner water: 113 distribution, conservation, waste water and storm water projects funded for a total project value > \$608 million**

GMF – Environmental Benefits

GMF projects have delivered:

- **Cleaner soil: 90 solid waste management projects funded for a total project value of >\$59 million**
- **More sustainable communities: \$3 million in grants have funded sustainable planning studies in 49 communities**
- **Economic benefits: \$1.6 billion leveraged**

Town of Craik, Saskatchewan (pop 416)

Town Hall, Eco Centre

Grant of \$100,000

Loan of \$150,000

Highlights

- Eco centre undertaken as demonstration project
- Energy efficient
- Attracts tourism for community in economic decline
- Creates local jobs
- Project attracted compatible (hemp) industry



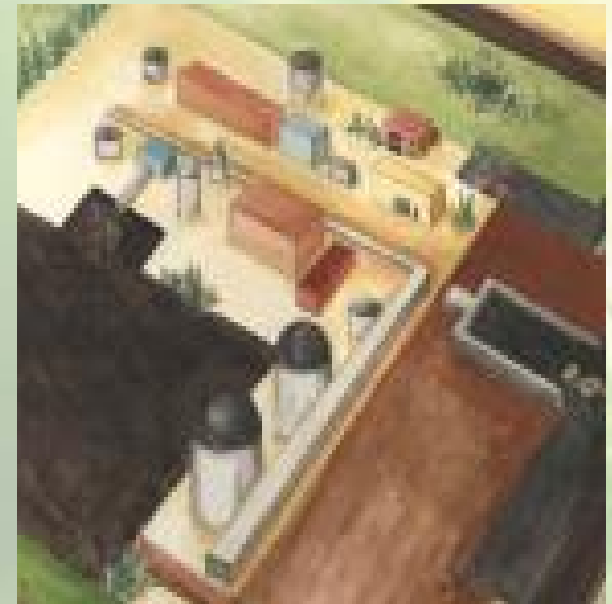
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An Integrated Manure Utilization System

Grant of \$800,000

Highlights

- Reduced organic waste disposing cost for small municipalities
- Elimination of the use of land for manure and/or organic disposal and the associated water contamination
- Reduction of greenhouse gas (GHG) emission through the generation of green electricity



ENWAVE, Toronto

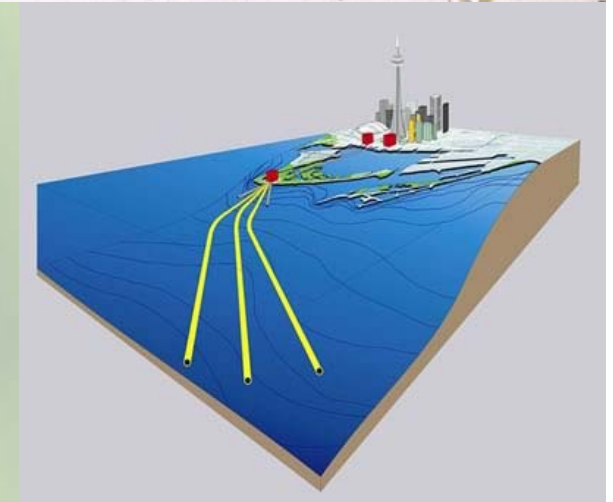
Deep Lake Water Cooling system

Grant of \$60,000

Loan of \$10,000,000

Highlights

- Reduce the use of electricity and steam by 75%
- Carbon dioxide (CO₂) 36,400 tonnes per year;
- Nitrogen oxide (NO_x): 64 tonnes per year;
- Sulphur oxide (SO_x): 160 tonnes per year;
- Total suspended particulates: 137 tonnes per year



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Regent Park, Toronto

Regent Park Demonstration Sustainable Community

Grant of \$350,000

Highlights

- Reintegrate neighbourhood with the rest of the City
- Introduce streets, new park spaces, aligning buildings along the streets
- Provide opportunities for employment, education, culture and community facilities.



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How can a municipality reduce greenhouse gases?

- Building retrofits
- Reduce vehicle emissions
- Diverting solid waste
- Capturing and using landfill gas emissions
- Installing district energy systems
- Integrating transportation
- Land use planning
- Renewable Energy
- Joining the FCM Capacity Building program



Partners for Climate Protection

A Five Milestone Performance Framework

- **Milestone 1 - Greenhouse Gas Inventory / Forecast**
 - **Milestone 2 - Setting a Reduction Target**
 - **Milestone 3 - Developing a Local Action Plan (LAP)**
 - **Milestone 4 - Implementing the Local Action Plan**
 - **Milestone 5 - Monitoring Progress and Reporting Results**
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- **Milestones can be undertaken in any order**

Partners for Climate Protection

- **126 member municipalities across Canada**
- **No cost**
- **Join with a council resolution**
- **Central secretariat, technical and regional support resources**

Alberta	11
British Columbia	39
Manitoba	7
New Brunswick	12
Newfoundland	5
North West Territories	3
Nova Scotia	6
Nunavut	1
Ontario	33
Prince Edward Island	1
Quebec	5
Saskatchewan	2
Yukon	1
PCP Participants	126

For More Information

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