



STAFF REPORT INFORMATION ONLY

Applications to FCM Green Municipal Fund

Date:	January 18, 2010
To:	Executive Committee
From:	City Manager
Wards:	All
Reference Number:	

SUMMARY

This report provides information on recent applications from Toronto to the Federation of Canadian Municipalities (FCM) Green Municipal Fund.

Financial Impact

Making application to FCM does not, in itself, commit the City or its agencies to undertake any financial obligations. The respective program areas will report back on any budget adjustments required because of successful applications for grants and/or low-interest loans as described in this Report.

The Deputy City Manager and Chief Financial Officer has reviewed this report and agrees with the financial impact information.

DECISION HISTORY

At its meeting October 2001, Council authorized the City Manager to submit applications to the FCM Green Municipal Fund (GMF) on behalf of the City and to provide a summary of applications made under this authority to the Policy and Finance Committee, PFC Report 12(7).

ISSUE BACKGROUND

The federal government established the GMF in the 2000 Federal Budget. The Fund's initial \$125 million was doubled to \$250 million in 2001, with a further \$300 million added in the 2005 Federal Budget.

FCM manages this \$550 million endowment at arms-length from the federal government. The endowment supports a range of activities related to municipal environmental projects from the early stages of program design up to the physical implementation of eligible capital projects. The GMF offers:

- Grant funding up to 50% of total eligible costs of an approved feasibility study, field test or sustainable community plan, up to a maximum of \$350,000, and,
- Capital project financing for up to 80 per cent of costs to a maximum of \$4 million in low-interest loans combined with \$400,000 in grants, in one or more of the following municipal service areas: Energy, Water, Transportation, Solid Waste, and Brownfields. Brownfields projects are eligible for below-market loans only, with no funding limit.

Applicants for feasibility studies must be an incorporated Canadian municipal government organization or a public non-government organization / private-sector organization applying in partnership with a municipal government organization. Eligibility rules and amounts available for capital financing loans and grants vary with the different categories.

Since the GMF's inception in 2000, projects from Toronto have been awarded:

- \$40,161,684 in low-interest loans, \$1,662,043 in grants, and \$1,961,043 in guarantees for sustainable infrastructure projects, and,
- \$3,956,000 in grants for feasibility studies and pilot tests.

COMMENTS

Strategic and Corporate Policy Division works with an interdivisional advisory committee to support the City Manager in identifying which City of Toronto applications are to be submitted to the GMF and to co-ordinate submissions from Toronto on a corporate, biannual basis. FCM approval generally takes about five months following receipt of an application, with the actual flow of funds dependant on the provisions of a legal agreement between FCM and the lead applicant.

The City Manager has authorized in 2008-09 submission by the City, its agencies or community partners of the following proposals for GMF funding (see Appendix A for description), which total \$1,567,000 in grants and \$4,600,000 in low-interest loans.

Project Name	Lead Applicant/ Partners	Amount Requested from FCM (\$000)
Toronto Lightsavers – Implementation of Advanced Lighting Technology for Municipal Garages	Toronto Atmospheric Fund/ TCHC/ TPA	40.0 grant
Geothermal Heat for Snow Melting and Integration of Summer Stormwater Overflow	Transportation Services	75.0 grant
Mayor's Tower Renewal	CMO	350.0 grant
Geothermal Energy Systems at Toronto Zoo	Toronto Zoo	60.0 grant

Project Name	Lead Applicant/ Partners	Amount Requested from FCM (\$000)
Solar City Assessment Partnership	Energy Efficiency Office/ TAF	202.0 grant
Exhibition Place LED Lighting	ExPlace/ TAF, PF&R, TPA	350.0 grant
Exhibition Place LEED Silver Conference Centre	ExPlace	2,000.0 loan 100.0 grant
Wychwood Barns	Culture/ Artscape	600.0 loan/ 90.0 grant
Police Training Facility	Toronto Police Service	2,000.0 loan/ 300.0 grant

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SIGNATURE

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ATTACHMENTS

Appendix A: Project Summaries

Green Municipal Fund Applications Project Summaries

Toronto Lightsavers – Implementation of Advanced Lighting Technology for Municipal Garages

Toronto Atmospheric Fund (TAF) requested a \$40,000 grant to examine the feasibility of implementing advanced lighting technologies, Light Emitting Diodes (LEDs) and Adaptive Lighting Technologies (ALTs), in municipally-owned parking garages, which will significantly reduce energy-use and GHG emissions.

Prior research undertaken by TAF has identified parking garages as the best immediate opportunity for implementing LED and ALT. Through the Toronto Community Housing Corporation and the Toronto Parking Authority, the City of Toronto owns 120 parking garages. The proposed feasibility study would involve: (a) identifying a subset of up to 24 of these 120 facilities which are best-suited to the use of LED and ALT; (b) undertaking a detailed study of the feasibility of implementing LED and ALT in the identified facilities, including financial and technical analysis and detailed energy-modelling; and (c), developing a shortlist of at least 12 projects to move forward with on the basis of cost-effectiveness, technical suitability, and potential reductions in energy-use and GHG emissions.

Geothermal Heat for Snow Melting and Integration of Summer Stormwater Overflow

Transportation Services Division requested a \$75,000 grant to investigate the feasibility of using geothermal technology as the heat source to melt snow picked up from clearing City streets. The benefit of using geothermal energy instead of hydrocarbon is the potential to reduce energy costs, but more importantly to reduce the carbon footprint of this practice. The study will also look at the potential to use the resultant water from snow melting for making brine that can be used for snow and ice control. This is a Best Management Practice as outlined in Environment Canada's Code of Practice for the Environmental Management of Road Salt.

Mayor's Tower Renewal

Executive Management Division (CMO) requested a \$350,000 grant to study four pilot sites to determine the feasibility of a wide range of tower renewal opportunities in different neighbourhood contexts. The pilot sites will consist of projects of varying scales and mandates appropriate to site conditions and the geography of each particular apartment neighbourhood. The lessons learned through the pilot sites will inform the proposals to be put forward for bringing Tower Renewal to all neighbourhoods in the City and how Tower Renewal could be applied in other jurisdictions.

Geothermal Energy Systems at Toronto Zoo

Toronto Zoo requested a \$60,000 grant to test the applicability of geothermal systems for two major capital building projects. The Canadian Wilderness Orientation Centre (CWOC) will be a focal node for the Zoo's North Zoo Site Redevelopment project. The CWOC will strive for LEED Gold standards, and will fully incorporate and interpret sustainable building practices with the conservation of endangered wildlife in Canada. The proposed Centre for Sustainable Life and Learning (CSLL) is a giant educational step with a small environmental footprint. As part of the United Nations plan to establish Regional Centres of Expertise (RCE) in Education for Sustainable Development (ESD), the Zoo as a Toronto's "living institution" is embarking on this timely project. The CSLL's green design will showcase healthy building materials, earth-friendly technologies and energy systems.

Solar City Assessment Partnership

Facilities and Real Estate, Energy Efficiency Office, requested a \$202,500 grant for its "Toronto SolarCity Assessment Partnership" project. The project will study and compare the performance of major photovoltaic, solar thermal and solar air heating installations on various City facilities and on private homes in the South Riverdale neighbourhood that participate in the Toronto Solar Neighbourhood Initiative (TSNI). Partners in the project are TAF, TRCA and TSNI (with funding from Portlands Energy Centre).

Exhibition Place LED Lighting Field Test

Exhibition Place requested a \$350,000 grant for its "Exhibition Place LED Lighting" field test. The project will test an integrated outdoor lighting system to replace existing high pressure sodium lights with LEDs, using a performance measurement protocol developed by TAF. An advisory group will be established that will include GreenTbiz; Parks, Forestry and Recreation, and Toronto Parking Authority.

Exhibition Place LEED Silver Conference Centre

Exhibition Place requested \$2,000,000 in low-interest loans and \$100,000 in grants for the reconstruction of the existing Automotive Building as the "Exhibition Place LEED Silver Conference Centre". Total capital cost of the project is \$47.8 million, involving the demolition of all building structures (leaving only the external walls and pre-cast panels in place). The Conference Centre is to be certified LEED Silver, with forecasted energy consumption reduction of 22.2 GJ (excluding additional savings from connection to the Trigeneration System).

Wychwood Barns

Economic Development, Culture and Tourism requested \$600,000 in low-interest loans and \$90,000 in grants to continue the transformation of the historic Wychwood TTC yards. The facility is owned by the City but leased to Artscape for a 50-year period.

LEED Gold certification features include a geothermal heating, ventilation and air conditioning system with ground source heat pumps; a storm water harvesting and reuse system; energy efficient lighting and appliances and water conserving plumbing fixtures for projected energy consumption reductions of almost 40%.

Police Training Facility

Toronto Police Service requested \$2 million in low-interest loans and \$300,000 in grants for its new Training Facility. LEED Silver certification includes projected energy savings of 33%. Special features include a green roof, water reduction technology and geothermal heating.