

ENVIRONMENT COMMITTEE**B**

*HIS WORSHIP, THE MAYOR
AND COUNCILLORS*

SUBJECT: PROVINCIAL ENERGY CONSERVATION GRANT PROGRAM

RECOMMENDATION:

1. THAT Council endorse Burnaby's participation in the Province's *Community Action on Energy Efficiency Program* and *Energy Efficiency in Buildings Strategy* as outlined in Section 3 of this report.

REPORT

The Environment Committee, at its Open meeting held on 2006 March 21, received and adopted the *attached* report seeking approval to participate in a provincial pilot project that offers the City enhanced resources for working with residents, landowners and businesses to improve energy efficiency of buildings throughout the community, at little or no direct cost to the City.

Respectfully submitted,

Councillor Dan Johnston
Chair

Councillor Pietro Calendino
Vice Chair

Councillor Lee Rankin
Member

<p>:COPY – CITY MANAGER DIRECTOR PLANNING & BUILDING DIRECTOR ENGINEERING DIR. PARKS, REC. & CULTURAL SERV. DIRECTOR FINANCE CHIEF BUILDING INSPECTOR</p>

TO: CHAIR AND MEMBERS
ENVIRONMENT COMMITTEE

DATE: 2006 March 15

FROM: DIRECTOR PLANNING AND BUILDING

FILE: PL 39000 01
Reference: Energy Conservation

SUBJECT: PROVINCIAL ENERGY CONSERVATION GRANT PROGRAM

PURPOSE: To obtain Committee and Council approval to participate in a provincial pilot project to demonstrate energy conservation programs for Burnaby residents, landowners, businesses, and developers.

RECOMMENDATION:

1. **THAT** the Committee recommend that Council endorse Burnaby's participation in the Province's *Community Action on Energy Efficiency Program* and *Energy Efficiency in Buildings Strategy* as outlined in Section 3 of this report.

REPORT

1.0 INTRODUCTION

In 2005, the Province of British Columbia adopted a strategy document entitled *Energy Efficiency in Buildings: A Plan for British Columbia*. The Plan includes specific energy efficiency targets for different building sectors at a provincial level (*see Attachment I*). The Plan responds to the vision in the *2002 Provincial Energy Plan* to "work with the building industry, governments and others to improve energy efficiency in new and existing buildings".

The Province recognizes the importance of working directly with communities, so the Ministry of Energy, Mines and Petroleum Resources has established a *Community Action on Energy Efficiency (CAEE)* pilot program to work with 14 selected municipalities on different approaches to increase energy efficiency in buildings. The following report outlines opportunities for this pilot program to enhance Burnaby's existing work in energy conservation.

2.0 EXISTING BURNABY ENERGY CONSERVATION INITIATIVES

The City of Burnaby has been a municipal leader in energy conservation. The 1998 Official Community Plan directs the City to "use energy wisely and improve the efficiency of our lighting, heating, ventilating systems, electrical equipment and vehicle

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fleets through energy conservation and the use of appropriate technologies". When the City completes implementation of its Energy Performance Contract in 2006, it will be the first municipality in BC to complete an energy audit and retrofit of its municipal building portfolio. The project will result in a 15% reduction in energy use, saving the City an estimated \$500,000 in annual operating costs, and reducing greenhouse gas emissions by 1,693 tonnes per year.

The City has been encouraging workers and residents to also conserve energy through the EnergyFit program, and has chosen energy conservation as the theme for the 2006 Environment Week. Environment Week will profile the financial, environmental, and social benefits of energy conservation, in the context of rising fuel costs and environmental concerns of climate change and resource depletion. Events will include an Energy Fair, Energy Conservation Seminars, and tours of green building projects in Burnaby. Staff have been seeking partners such as BC Hydro, Terasen Gas, Natural Resources Canada and local businesses to increase the profile and learning opportunities of the events.

3.0 OPPORTUNITIES FOR CAEE PILOT PROGRAM IN BURNABY

Burnaby's work to implement and encourage energy conservation fits very well with the Province's goals of improving building energy efficiency. The Province is currently seeking 14 municipalities throughout BC to profile different approaches to energy conservation in different building sectors as the first phase of the CAEE program. These pilot projects will run from March 2006 to March 2007 and are a means of advancing provincial progress towards the 2010 Energy Efficient Targets set within the *Energy Efficiency in Buildings Strategy*. Recognizing the City's present and past efforts, Provincial staff have discussed with City staff ways in which the CAEE pilot program could enhance the City's programs. Three potential partnership opportunities have been offered as follows:

- a. ***Provide the City with \$10,000 to fund public outreach or policy review programs to encourage energy efficiency in new buildings.*** These funds could be used to resource and enhance 2006 environment events, including Environment Week (June 5-11th).
- b. ***Pilot an enhanced residential energy retrofit rebate program to City residents.*** This program would be based on the federal EnerGuide program that offers home energy evaluations and rebates for demonstrated energy conservation improvements in the home. For a limited time, the CAEE program would match the federal grants available to Burnaby homeowners to install energy conservation measures, up to a CAEE cap of \$750 per homeowner to a total of \$100,000 for the entire municipality. The program would be entirely administered by a provincial contractor and would offer "one-window" advice on other government, utility, and private industry rebate and education offers. In combination with all offers, a Burnaby homeowner may be eligible for up to \$5,000 in energy efficiency grants and rebates. The aim of the

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program is to pilot how different delivery mechanisms affect uptake of energy efficiency measures. Of the 14 CAEE pilot communities in BC, eight communities are being offered this particular pilot initiative. This program could be a key feature of the City's 2006 Environment Week event.

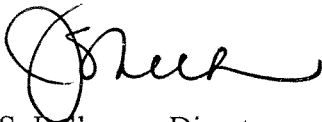
- c. **Keep the City informed of other province-wide initiatives related to energy conservation**, including partnership programs with BC Hydro, Terasen, the BC Real Estate Association, and the Urban Development Institute.

As a partner in the CAEE program, the City would profile these initiatives in communications to local residents, landowners, businesses and developers, to support the Province's work to meet its energy efficiency targets for buildings. Staff are of the view that the CAEE program dovetails well with existing City initiatives, providing the City with additional resources, and not requiring additional City financial resources or significant additional staff effort. If the initiative is supported by Council, the Province will make the CAEE resources available for Environment Week 2006.

4.0 CONCLUSION

With rising fuel costs and environmental concerns of climate change and resource depletion, energy conservation makes excellent financial and environmental sense. This logic has been demonstrated through the City's energy retrofit program. The provincial CAEE pilot program offers the City enhanced resources for working with residents, landowners, and businesses to improve energy efficiency of buildings throughout the community, at little or no direct cost to the City.

It is therefore recommended that the Committee recommend that Council endorse Burnaby's participation in the Province's *Community Action on Energy Efficiency Program* and *Energy Efficiency in Buildings Strategy*, as one of the 14 selected pilot communities.



J.S. Belhouse, Director
PLANNING AND BUILDING

RW:sla
Attachment

Copied to: City Manager
Director Engineering
Director Parks, Recreation and Cultural Services
Chief Building Inspector
Director Finance

Attachment 1

Provincial Energy Efficiency Targets for 2010 from the Provincial strategy document: *"Energy Efficiency in Buildings: A Plan for BC"*

Building Sector	Energy Efficiency Target for the Year 2010
New detached, single-family and row houses	Achieve an EnerGuide for New Houses rating of 80, reducing the average energy consumption in new homes by 32%
New multi-unit residential buildings	Achieve energy performance 25% better than the Model National Energy Code for Buildings, reducing the average energy consumption in new homes by 37%
New commercial, institutional and industrial buildings	Achieve energy performance 25% better than the Model National Energy Code for Buildings, reducing the average energy consumption in new buildings by 20%
Existing detached, single-family and row houses	Reduce the energy consumption in 12% of existing homes by an average of 17%
Existing multi-unit residential buildings	Reduce the energy consumption in 16% of existing homes by an average of 9%
Existing commercial, institutional and industrial buildings	Reduce the energy consumption in 20% of existing buildings by an average of 14%

