

**FINANCE AND CIVIC DEVELOPMENT COMMITTEE**

*HIS WORSHIP, THE MAYOR  
AND COUNCILLORS*

**SUBJECT: STATUS OF ENERGY MANAGEMENT INITIATIVES**

**RECOMMENDATIONS:**

1. THAT Council authorize inclusion of the Phase 2 energy management study and the establishment of an energy saving coordinator position to be cost shared 50-50 with BC Hydro in the 2010 budget discussion, as outlined in Section 3.0 in this report.
2. THAT a copy of this report be forwarded to the Environment Committee.

**REPORT**

The Finance and Civic Development Committee, at its meeting held on 2009 November 26, received and adopted the *attached* report providing information on the status of energy management related initiatives and seeking Council approval of the next steps, as outlined in this report.

Arising from discussion, the Committee requested that staff report back regarding progress toward establishment of an energy coordinator position.

Respectfully submitted,

Councillor D. Johnston  
Chair

Councillor N. Volkow  
Vice Chair

Councillor C. Jordan  
Member

<p>Copied to: City Manager Director Engineering Director Planning &amp; Building Director Finance Director Parks, Recr. &amp; Cult. Services</p>
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**TO:** CHAIR AND MEMBERS  
FINANCE AND CIVIC DEVELOPMENT  
COMMITTEE

**DATE:** 2009 November 18

**FROM:** DIRECTOR ENGINEERING

**FILE:** 4900 05

*Ref: Energy Management*

**SUBJECT: STATUS OF ENERGY MANAGEMENT INITIATIVES**

**PURPOSE:** To inform the Committee and Council on the status of energy management related initiatives and to seek approval of the next steps as outlined in this report.

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**RECOMMENDATIONS:**

1. **THAT** the Committee recommend Council:
  - a) include the Phase 2 energy management study and the establishment of an energy saving coordinator position to be cost shared 50-50 with BC Hydro in the 2010 budget discussion as outlined in Section 3.0 in this report; and
  - b) forward a copy of this report to the Environment Committee.

**REPORT**

**1.0 Introduction**

Arising from a staff report for capital funding for several energy conservation projects at the Committee meeting of 2009 July 02, staff were requested to provide a report on the status of energy management initiatives and what steps are under consideration related to energy management. The purpose of this report is to provide information on the current work program and to outline the next steps for energy management initiatives in 2010 for consideration by the Committee and Council.

**2.0 Current Status of Energy Initiatives**

The City has a number of programs underway with respect to energy management within the City's facilities and infrastructure. These programs are the products of the 2004 energy performance contract with Honeywell. Since 2004, a number of City facilities have been retrofitted to reduce energy use. Retrofits were undertaken to building lighting, controls, boiler replacements and pool covers, among others. The Phase 1 work was completed in 2006 with monitoring being undertaken on an annual basis to confirm the effectiveness of the measures

undertaken. Reports for both year 1 and year 2 as well as interim mid year results for year 3 (2009) indicate that the retrofit program has been successful with annual savings exceeding the guaranteed amount by an average of 15%. Additionally, staff also initiated retrofit projects at several facilities as part of the 2009 Capital Program including lighting upgrades, control improvements and upgraded insulation. Currently, feasibility study of streetlight related initiatives including LED and adaptive lighting is underway. These initiatives are currently under evaluation and staff will report further on conclusion of the evaluation.

### 3.0 Next Steps

In the original concept study for energy management there were a number of projects with a payback period of more than 10 years that were not included in the scope of the Phase 1 project. In the 2010 Provisional Capital Program, staff have included the Phase 2 Energy Performance Study to update the 2004 study and to identify new energy saving opportunities including building facilities, street lights and technological changes.

In order to assist cities in achieving their energy management goals, BC Hydro provides grant incentives for resources to develop and implement energy saving programs. This program provides grants up to 50% of the salary of a staff person in an energy saving coordination role. Staff believe this funding opportunity can assist in advancing the City's energy management initiatives and to that end have included an energy coordinator position in the 2010 Provisional Operating budget for Council consideration. This BC Hydro cost sharing program has been in place for at least the last 2 years and the funding allocation is reviewed annually by Hydro. Staff believe that the additional staff position will allow the City to further refine the energy saving strategy and generate sufficient energy cost savings to offset the expenditure for the new position.

Since the completion of the Phase 1 energy saving contract in 2006, the City has been making small progress towards achieving the energy conservation goal for City facilities. In 2010, staff are proposing the advancement of the Phase 2 energy study to update the 2004 study and to identify the next energy saving opportunity within the City infrastructure. Results of the Phase 2 study will be presented to the Committee and Council in a future staff report for approval and implementation.



Lambert S. Chu, P.Eng.  
DIRECTOR ENGINEERING

BCD/br

Copied: City Manager  
Director Planning and Building  
Director Finance  
Director Parks, Recreation and Cultural Services