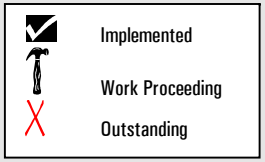
Implementation of Environmental Plan Recommendations

Sustainable Energy Use

RECOMMENDATION No. 27



Adopt a Goal of Sustainable Energy

Recommended that the City adopt, as a long-range goal, the development of a Sustainable Energy Infrastructure for Toronto that supports the efficient production, transmission and use of energy from renewable sources.

ETF Target (2000): No ETF Target.

Overall Target: N/A.

RECOMMENDATION STATUS: Implemented (2003).

Recommendation addressed through the creation of the Energy Efficiency Office.

The work undertaken to address this recommendation is considered to be core business/standard operating procedure(s) for the City and work continues.

Sustainable Energy Use

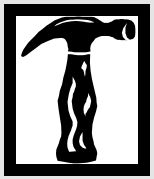
27. Adopt a Goal of Sustainable Energy

INTRODUCTION

The Energy Efficiency Office (EEO) was established in 1990 by the Toronto City Council with a mandate to develop a comprehensive energy efficiency and conservation strategy for the City of Toronto. This is in connection with Toronto's official commitment to reduce its net CO_2 emissions by 20 percent relative to 1988 levels by the year 2005. The mandate was later expanded in a report to the amalgamated City of Toronto's Works and Utilities Committee dated June 16, 1998 to include the new boundaries of the City.

Implementation of Environmental Plan Recommendations

Sustainable Energy Use



RECOMMENDATION No. 28

Co-ordinate Toronto's Efforts on Sustainable Energy

Recommended that the City coordinate energy efforts. It should:

a) in the short term, expand the mandate of the City's Energy Efficiency Office to include all aspects of sustainable energy production, transmission and use and authorize the Energy Efficiency Office with the mandate and role to coordinate the Corporation's energy efficiency efforts.
b) facilitate the development of a multi stakeholder Sustainable Energy Partnership which will:
   i. prepare a sustainable Energy Plan for Toronto;
   ii. Coordinate Toronto-wide activities on Sustainable Energy;
   iii. encourage the formation of partnerships and joint ventures;
   iv. fund feasibility studies;
   v. carry out research;
   vi. act as an information clearing house; and
   vii. develop programs that target homeowners.
c) ensure that Toronto Hydro, the Toronto District Heating Corporation, and other Agencies, Boards, Commissions and Departments work together wherever appropriate to maximize energy efficiency, economics of scale and project economics;
d) establish an Energy Policy Working Group of City councillors to discuss energy policy; and
e) continue to support the work of the City's Better Buildings Partnership in meeting its goal of retrofitting 40% of the buildings in the Industrial, Commercial and Institutional sector by 2008.

Sustainable Energy Use

28. Co-ordinate Toronto's Efforts on Sustainable Energy

ETF Target (2000): No ETF Target.

Overall Indicator: N/A.

RECOMMENDATION STATUS: Work Proceeding.

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
Sustainable Energy Business Plan (SEBP) As required in the Environmental Plan and as the City's representative with Toronto Hydro, Enwave, ABC's , Senior government, NGO's etc. on energy issues, the EEO developed and maintains the SEBP for the City of Toronto. This is both an internal and citywide initiative and lays the groundwork for strategic planning, co-operation, priority project selection and joint implementation initiatives with the all the above parties.		Percent of ICI Floor Area retrofitted						Proceeding	WES-TS/EEO
Oversee consultant study on sustainable energy business plan, Better Buildings Partnership, Residential BBP program.								Proceeding	WES-TS/EEO

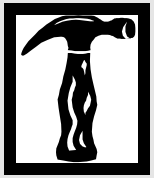
Sustainable Energy Use

28. Co-ordinate Toronto's Efforts on Sustainable Energy

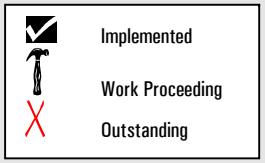
Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
Green Fleet Transition Plan The Green Fleet Transition Plan (2004) is a progressive document that builds on and co-ordinates the work that informed it. For example, it is the first plant of its kind to integrate the findings of the Environmental Plan (2000) and listening to Toronto public consultations (2004). In doing so, the plan addresses no less that 29 of the 66 recommendations of the Environmental Plan (2000).		eCO_2 reduction/ year	2005				Reduction of 10-15 million Kg eCO_2 from 2005-2007	Proceeding	CS-FS

Implementation of Environmental Plan Recommendations

Sustainable Energy Use



RECOMMENDATION No. 29



Increase Energy Efficiency in City Operations and Facilities

Recommended that the City increase its corporate energy efficiency. It should:

a) **request departments to prepare plans to reduce energy use in their operations and in City buildings and facilities at least 15% by 2005;**
b) **encourage all agencies, boards and commissions and require all departments to examine how to reduce energy use in infrastructure projects; and**
c) **ensure that the City's accounting system allows energy use to be tracked.**

ETF Target (2000): Devote 20 percent of energy reduction savings to green power purchase.

Overall Indicator: N/A.

Sustainable Energy Use

29. Increase Energy Efficiency in City Operations and Facilities

RECOMMENDATION STATUS: Work Proceeding.

29a) This was addressed through the Energy Management Plan for City Buildings report – Clause 1 of Report No. 2 of the Administration Committee adopted by Council, February 4, 5, and 6, 2003. The report was prepared by the Energy & Waste Management Office (EWMO) in the Facilities and Real Estate Division and outlines a strategy to improve energy efficiency in City buildings.

29b) The City's EEO unit of and the Facilities and Real Estate division of the Corporate Services department are addressing this thorough the "Efficiency Guidelines for New Facilities" undertaking. This undertaking pertains to capital programs in Corporate Services buildings.

29c) Currently the Facilities and Real Estate division of the Corporate Services department is tracking energy use through its "Fast Accounting System for Energy Reporting" and the City's Finance department tracks costs using the SAP system. Work is ongoing to interlock the two systems.

INTRODUCTION

The Energy Efficiency Office (EEO) was established in 1990 by the Toronto City Council with a mandate to develop a comprehensive energy efficiency and conservation strategy for the City of Toronto. This is in connection with Toronto's official commitment to reduce its net CO2 emissions by 20 percent relative to 1988 levels by the year 2005. The mandate was later expanded in a report to the amalgamated City of Toronto's Works and Utilities Committee dated June 16, 1998 to include the new boundaries of the City.

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
Facilitate the testing of new technical advances that can lead to energy efficiency in the City. Work with the Corporate Services department to change current City practices.								Proceeding	WES-TS/ES WES-TS/EEO

Sustainable Energy Use

29. Increase Energy Efficiency in City Operations and Facilities

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
Energy Efficiency Retrofit Program A $35 Million Energy Efficiency Retrofit Program has been announced to reduce energy use in City-owned buildings.								Proceeding	CS-FRE
Energy Efficiency in City-Owned facilities and Operations Increase energy efficiency in City facilities and operations and reduce energy use by at least 15% by 2005. Activities include: develop and maintain energy use database for all City facilities and operations. - develop Web-based access of energy information for City facilities. - test new energy efficiency technologies in City facilities. - conduct energy audits and feasibility studies in City facilities.		Reduction of energy consumption (kWh/year) Reduction of CO_2 emissions (tonnes/year)	2000				15% Reduction in energy use in all City facilities from 2000 levels	Proceeding	CS-FRE

Sustainable Energy Use

29. Increase Energy Efficiency in City Operations and Facilities

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
Smog Alert Response Program Facilities & Real Estate's divisional smog alert response program results in reduced energy use.								Proceeding	CS-FRE
Light Emitted Diode (LED) Conversion Program for Traffic Signal Lamps Traffic Signal Lamp Conversion to LED Technology is a program to be funded through the Transportation Capital Program with payback through energy savings. City Council approved $1,000,000 to cover the first year cash flow requirement for the LED Conversion Program in the Transportation Services Division's 2004 Capital Works submission.		# of Traffic Signal Lamps converted Reduction of energy consumption (kWh/yr.) Reduction in CO_2 emissions (tonnes/yr.)	2004			110 signalized intersections, 6% of total project	Conversion of 1920 traffic signal intersections	Proceeding	WES-Trans
WES Buildings Retrofit Program WES is currently developing RFPs to undertake work to retrofit WES facilities. Estimated cost for this work is $40 million.		Reduction of energy consumption (kWh/year) Reduction in CO2 emissions (tonnes/year)					Initiate 80 energy retrofits at Toronto Fire Station locations by 2004 and improve all WES facilities energy efficiency by an average of 15%	Proceeding	WES-TS/EEO

Sustainable Energy Use

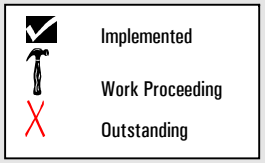
29. Increase Energy Efficiency in City Operations and Facilities

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
Energy Management Plan The Energy Management Plan outlines a strategy to improve energy efficiency in City buildings.								Complete	CS-FRE
Solarwall A Solarwall was installed at Central Garage, 843 Eastern Avenue with funding received form NRCan and TAF. It is estimated that this will reduce energy costs by up to $30,000 per year. The Solarwall showcases new renewable energy technology and has received much media and public interest. By initiating work on ISO 14001, Fleet Services with Facilities and Real Estate will investigate further energy and water efficiency improvements.		Reduction of energy consumption (kWh/year)						Complete	CS-FRE CS-FS
2003 LED Traffic Signal Lamp Conversion Pilot Project The pilot project provides an opportunity to obtain analytical information about performance, the economical payback, and feasibility of a full LED Traffic Signal Lamp Conversion Program for all the City's Traffic Control Signals. Received 100,000 grant from TAF for the conversion of 10 traffic signals in 2003.		Reduction of energy consumption (kWh/year) Reduction in CO2 emissions (tonnes/year)		Conversion of 10 Traffic Signal intersections	10 Traffic Signal intersections converted			Complete	WES-Trans

Implementation of Environmental Plan Recommendations

Sustainable Energy Use

RECOMMENDATION No. 30



Support Green Power

Recommended that the City support the use of Green Power. It should:

a) reaffirm its commitment to purchase 25% of its energy needs through Green Power and report to the Sustainability Roundtable on how it is going to accomplish this;
b) encourage all agencies, boards and commissions to aggregate their purchasing power by participating in a municipal green power aggregation project and committing to purchasing 25% of their energy needs through Green Power:
c) carry out an inventory of potential City locations for siting Green Power sources such as wind turbines and solar panels;
d) encourage Toronto Hydro Energy Services Company to include 1000 MW of Green Power in its Integrated Resources Strategic Plan; and
e) encourage the Toronto Hydro Energy Services Company to form collaborative sustainable energy partnerships with the Toronto District Heating Corporation and the Better Building Partnership.

ETF Target (2000): Achieve commitment to 25 percent green power purchase by 2003 (see Recommendation 29 Target for one possible funding source).
ETF Target (2000): Commit $2 million per year premium to purchase green power.
ETF Target (2000): Increase green power purchase premium each year.

Overall Indicator: % of Energy supplied by green and renewable energy sources. KWh per capita, KgCarbon per KWh.

Sustainable Energy Use

30. Support Green Power

RECOMMENDATION STATUS: Outstanding.

Although initiatives are underway no green power has been purchased.

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
Support expanded use of Green Power based on reduced adverse impacts on air quality and human health (e.g. through supportive position statements or letters by the Medical Officer of Health). Policy positions and advice provided to other departments and levels of government.								Proceeding	CNS-TPH
Partnership Development The EEO provides technical, policy and administrative expertise towards the City's goal of a 25% green energy supply. The Office participates in a series of partnerships with the goal of establishing a sustainable energy infrastructure with this specific green power component. Some project examples are a solar residential domestic hot water initiative with Toronto Hydro, biogas green energy recovery with the Works & Emergency Services Department and a fuel cell testing and demonstration project with the Canadian National Exhibition (CNE).								Proceeding	WES-TS/EEO
Green Energy Procurement For the sustainable energy infrastructure framework development, the EEO provides project review and assessment of green energy and power (electricity) projects. Proposals under consideration are vetted								Proceeding	WES-TS/EEO

Sustainable Energy Use

30. Support Green Power

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
against technological and financial feasibility and recommendations forwarded to the appropriate level of city authority for consideration of purchase of service. This is in support of a green energy procurement policy that is being developed with several departments especially Corporate Services and the Chief Administrators Office.									
Fuel Cell Demonstration Project The City's Fuel Cell Demonstration Project at Exhibition Place demonstrates the potential of zero emissions fuel cell technology for applications in City facilities and transportation. Various hydrogen and fuel cell technology items will be demonstrated over a three-year period. In 2004 North America's first hydrogen renewable hydrogen energy refuelling station was launched. This facility is being powered by a wind turbine, which provides hydrogen to fuel a fuel cell forklift, a fuel cell car, and John Deere commercial work vehicles that have been converted to operate on fuel cells. The GTA Hydrogen Village, a consortium of 35 members, was created as a result of a partnership between the City of Toronto, Exhibition Place and Hydrogenics.								Proceeding	CS-FS WES-EEO
Power Purchase Agreement (PPA) The P.P.A. addresses the City's commitment to purchase Green Power.								Proceeding	CS-FRE
Green Fleet Transition Plan The adoption of the Green Fleet Transition Plan (2004) on May 18, 2004 by Toronto City Council		Actual percent implementation based on budget					Full implementation of the biodiesel	Proceeding	CS-FS

Sustainable Energy Use

30. Support Green Power

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
sends a compelling signal to industry and other governments and the public that this City supports Green Power and its policies and practices. In particular, large commitments to biodiesel have created a mini boom in the fuels industry. In 2004, Topia Energy opened two retail outlets offering B20 biodiesel to the public.		approval and resources eCO2 reduction/ year					initiative (reduction of 10-15 million Kg eCO2/year from 2005-2007 assuming $1.8 million project cost)		
Anaerobic Digestion Feasibility Study The study focussed on the technical and financial feasibility of siting an anaerobic digestion facility on City-owned property in Toronto's Port Lands area, which would process municipal source separate organic waste to generate biogas for the district energy needs of Toronto's downtown core. The study also focused on an integrated approach whereby the biogas produced by anaerobic digestion would be transferred to a co-generation facility contemplated by Toronto Hydro and Boralex for eventual production of steam and electricity.								Complete	WES-TS/ES WES-SWM FCM Enwave District Heating
Quickstart #1 b) - Facilitate the expeditious development of the Toronto Renewable Energy Co-operative (TREC) wind turbine and similar renewable energy projects as part of the City's overall sustainable energy strategy, including any feasible agreement to purchase renewable sources of electricity for use in City-owned facilities. Construction of the first wind turbine was completed in 2003.								Complete	CS-FRE

Sustainable Energy Use

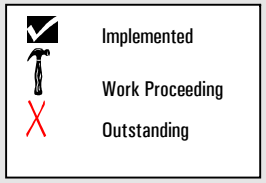
30. Support Green Power

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
F&RE as part of the Power Purchase Agreement tries to purchase a small amount of green power each year.									

Implementation of Environmental Plan Recommendations

Sustainable Energy Use

RECOMMENDATION No. 31



Encourage Improved Building Design

Recommended that the City encourage improvements in building design. It should:

a) **implement a means of achieving the federal C2000 performance standard for all commercial buildings;**
b) **create a Buildings Design Challenge to engage the building sector in the design and construction of state of the art buildings;**
c) **report on the feasibility of implementing the federal Energuide label for housing, and giving building permit priority to buildings with Energuide labels and plans;**
d) **report on the feasibility of implementing a sliding scale building permit fee based on energy efficiency criteria and/or fast-tracking proposals that meet energy efficiency targets;**
e) **provide training on energy efficiency design and technologies for Building Division permit and customer service staff of Urban Planning and Development Services; and**
f) **request the Province to adopt a Green Building Code that encourages the use of solar heating, waste heat recovery, green roofs, recycled grey water and rain water, recycled materials, and other technologies that reduce resource consumption and environmental impacts and discourage the use of toxic and hazardous materials.**

Revised ETF Target (2003): Adopt a design standard that is 15-25% higher efficiency than 2002 Ontario Building Code (OBC).

Sustainable Energy Use

31. Encourage Improved Building Design

Overall Indicator: The number of buildings (or % of buildings) in the City that achieve a 15%-25% higher efficiency than 2002 OBC.

RECOMMENDATION STATUS: Outstanding.

INTRODUCTION

The single most important aspect of energy efficiency in building design is to build to high standards in the first place. Current technology shows that buildings can be designed to be at least 25% more energy efficient than Ontario Building Code standards, without additional cost. The Ontario Building Code is currently being amended to consider higher energy efficiency standards. In order to implement this type of high energy efficiency standard across the City and especially along the waterfront, we would need to develop appropriate design standards (UDS & WES-TS/EEO). Funding to further model these assumptions was requested in 2002 and 2003, but was denied.

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
EEO is promoting new energy efficiency standards that will require newly constructed buildings to surpass the present Ontario Building Code energy efficiency standards by at least 25 percent.								Proceeding	WES-TS/EEO
A program for City owned buildings is included in the EMP (F&RE) approved by Council Feb. 2003. Consultation and evaluation is continuing.								Proceeding	WES UDS

Sustainable Energy Use

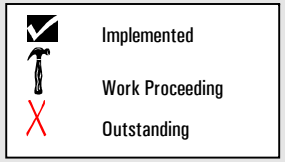
31. Encourage Improved Building Design

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
Quickstart #1 e) - Incorporate energy efficiency and conservation objectives into the construction of new buildings in the City that are higher than are currently required by the Ontario Building Code.								Proceeding	WES-TS/EEO

Implementation of Environmental Plan Recommendations

Sustainable Energy Use

RECOMMENDATION No. 32



Promote the Use of District Heating and Cooling

Recommended that the City support the use of district heating and cooling. It should:

a) develop a plan for how all agencies, boards, commissions and departments can use and/or promote the benefits and use of district heating and cooling in new developments; and
b) develop a plan that enables all new developments in the central downtown to use district heating, district cooling, especially Deep Lake Water Cooling.

ETF Target (2000): No ETF Target.

Overall Indicator: Floor space connected to district heating system (increasing or decreasing). KWh per capita, kg Carbon per KWh.

Sustainable Energy Use

32. Promote the Use of District Heating and Cooling

RECOMMENDATION STATUS: Implemented (2004).

32a) Enwave District Energy Limited is a private corporation of which the City is one of its two shareholders. Enwave District Energy Limited, using district heating and cooling, provides heating and/or cooling services to over 130 institutional and commercial buildings in downtown Toronto. In terms of district heating and cooling Enwave can be considered as acting on behalf of the City in promoting district energy throughout the City. Enwave, as part of its normal business does promote the benefits of district heating and new cooling to new building developments within its geographic area of operation.

32b) Enwave District Energy Limited as part of its normal business does actively attempt to connect new and existing institutional and commercial developments in the Central Downtown to its district heating system within its geographic area of operation. It has recently completed the development of deep lake cooling infrastructure to provide district cooling.

The work undertaken to address this recommendation is considered to be core business/standard operating procedure(s) for the City and work continues.

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
EEO works with many partner entities such as Enwave District Energy Limited to evaluate and design policy proposals on energy systems. The overarching goal is to optimize efficiencies and greenhouse gas emissions reduction. As an example, EEO has been a partner on district energy, distributed energy and co- and tri generation system planning in the downtown and the Portlands. Technical feasibility of these proposals is evaluated and system integration has been considered for added efficiency gains and benefits. The EEO has the high level capabilities to do this analysis.								Proceeding	WES-TS/EEO

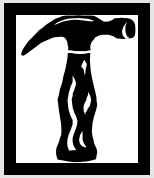
Sustainable Energy Use

32. Promote the Use of District Heating and Cooling

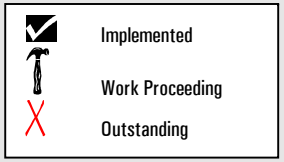
Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
Deep Lake Water Cooling Project The City and Enwave undertook a project to provide cooling using cold water drawn from Lake Ontario to parts of the Downtown serviced by Enwave.								Proceeding	WES-WWW Enwave

Implementation of Environmental Plan Recommendations

Sustainable Energy Use



RECOMMENDATION No. 33



Encourage Energy Efficiency in New Developments

Recommended that the City identify approaches to encourage energy efficiency in new developments including the designation of new development areas as Model Communities to showcase sustainability, with a focus on energy efficiency and use of renewable energy sources, and that these approaches be incorporated into the Official Plan and be reported back to the Works Committee and the Planning and Transportation Committee by the end of 2000.

ETF Target (2000): Adopt C2000 as part of the permit process by end of 2001.

Overall Indicator: KWh per capita, kgCarbon per KWh, percentage of new buildings achieving higher energy efficiency (15-25%+) better than Ontario Building Code (OBC).

Sustainable Energy Use

33. Encourage Energy Efficiency in New Developments

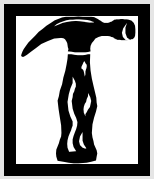
RECOMMENDATION STATUS: Work Proceeding.

A program for City-owned buildings is included in the EMP (F&RE) approved by Council Feb. 2003.

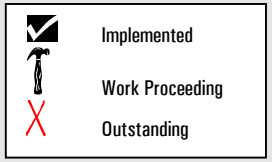
Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
Design Guidelines for New Construction Energy efficiency guidelines, which appear in the energy management program and are posted on the Corporate Services intranet site, have been circulated to design/construction managers involved in new construction projects in the city. Currently these are for internal use only and are not policy.								Proceeding	CS-FRE
Develop new energy efficient construction standards.								Proceeding	WES-TS/EEO UDS-B
Waterfront Scan & Environmental Improvement Strategy Study Study was initiated to assist the Government of Canada, the Province of Ontario and the City of Toronto in their joint efforts to achieve the revitalization of the Toronto Waterfront. The study included a section on Energy and methods of reducing energy requirements and air emissions resulting from development in the Waterfront, and the City as a whole.								Complete	WES-TS/ES

Implementation of Environmental Plan Recommendations

Sustainable Energy Use



RECOMMENDATION No. 34



Develop Investment Strategies for Sustainable Energy Plan Implementation

Recommended that the City, Toronto Hydro and the Toronto Atmospheric Fund (TAF) jointly report to the Sustainability Roundtable and the Energy Policy Working Group (see recommendation 28) by July 2000 on how best to employ financial instruments to accelerate investment in sustainable energy. The report should consider:

a) the use of a surcharge applied to all Toronto Hydro customers to generate funds that could be used to fund sustainable energy projects;
b) the use of varying rate structures by Toronto Hydro (including rate structures based on consumption rather than fixed service charges);
c) the use by Toronto Hydro of net billing for customers of Green Power;
d) re-investing savings from City energy efficiency projects in the purchase and/or redevelopment of Green Power for the City's use;
e) how the City should optimize its financial support for sustainable energy (including consideration of Toronto Hydro's capital structure, use of City reserve funds, use of the City's purchasing power in the market place, leveraging private capital to underwrite increased investments, and leveraging TAF's assets with private capital);
f) how the City can minimize the financing costs for sustainable energy projects (including consideration of long-term, defined price contracts);
g) what role the City should play in promoting sustainable energy as a commercial venture; and
h) lessons learned in other jurisdictions that have created sustainable energy programs.

Sustainable Energy Use

34. Develop Investment Strategies for Sustainable Energy Plan Implementation

ETF Target (2000): Establish Toronto Energy Bank in 2000.

Overall Indicator: N/A.

RECOMMENDATION STATUS: Work Proceeding.

34a), b) and c) are now regulated through the Ontario Energy Board.

34d) This is addressed through Council's adoption at its meeting of April 19 – 27, 2004 of Clause No. 3, Meeting No. 14 of the Budget Advisory Committee entitled "A Framework for Establishing an Energy Retrofit Program".

34h) This is addressed through Council's adoption at its meeting of April 19 – 27, 2004 of Clause No. 3, Meeting No. 14 of the Budget Advisory Committee entitled "A Framework for Establishing an Energy Retrofit Program".

Sustainable Energy Use

34. Develop Investment Strategies for Sustainable Energy Plan Implementation

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
In 2002, the Toronto Atmospheric Fund (TAF) was requested by the CAO's Office to delay the implementation of a finance strategy, subject to undertaking individual projects within the TAF structure to review various financing concepts. Discussions with Toronto Hydro initiated by WES Energy Efficiency Office.								Proceeding	WES-TS/EEO
A Framework for Establishing an Energy Retrofit Program Under this program funding for the projects undertaken as part of this initiative are repaid through the energy savings that result.								Proceeding	CS-FRE
Test strategies respecting air quality implications of various improvement measures regarding energy provision.								Proceeding	WES-TS/ES
The EEO reviews, advises and advocates on energy efficiency and sustainable development in major urban planning initiatives including the Official Plan, the Waterfront Secondary Plan and the other land use planning initiatives.								Proceeding	WES-TS/EEO

Sustainable Energy Use

34. Develop Investment Strategies for Sustainable Energy Plan Implementation

Description of Project/Program/Action	Linkage	Project Indicator	Targets					Status	Dept/Div Contact
			Base Year	2003	Achieved in 2003	2004	End		
The Energy Management Plan The committee report for this plan was approved by Council in February 2003. The report was prepared by the Energy & Waste Management Office (EWMO) in the Facilities and Real Estate Division and outlines a strategy to improve energy efficiency in City buildings.								Proceeding	CS-FRE
Hybrid Electric Pick-up truck CS-FS has developed and is piloting an internal rental rate for use of the new hybrid-electric pickup truck from GM. The rental rate model is being used successfully by other municipalities to finance the cost of vehicle replacements.		Average vehicle age of Fleet	2004					Proceeding	CS-FS
Develop expression of interest for fuel cell demonstration project-Fuel Cell Demonstration Project at Exhibition Place report went to Council in April 2003. Project now managed by Energy Efficiency Office and implemented on Green Day at Exhibition Place in 2004.								Complete	CS-Fleet WES-TS/EEO
Recently created Energy Retrofit Program whereby funds for the program have to be repaid through energy savings resulting from the program. Adopted by Council.								Complete	CS-FRE