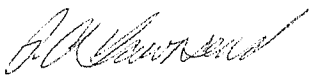




P.O. Box 1749
Halifax, Nova Scotia
B3J 3A5 Canada

Environment and Sustainability Committee
March 3, 2011

TO: Chair and Members of Environment and Sustainability Committee

SUBMITTED BY: 
Phillip Townsend, Director, Infrastructure and Asset Management

DATE: February 10, 2011

SUBJECT: Outcome Area: Clean and Healthy Environment

INFORMATION REPORT

ORIGIN

Staff

BACKGROUND

On February 1, 2011, at Committee of Whole, staff presented Regional Council with a selection of outcome area goals and objectives for the next several years.

The presentations, originally planned for a two day period in December, were condensed to a three hour presentation. As such, the original Clean and Healthy Environment presentation was edited to be consistent with the others areas. This report is designed to simply share with the Committee the longer presentation version, which includes some envisioned timelines for the objectives:

- Attachment One is the Original Presentation; and
- Attachment Two is the Outcome Area Working Sheet.

DISCUSSION

The Outcome Area “Clean and Healthy Environment” was led by Mary Ellen Donovan, and co-
led by Phil Townsend. Staff support included:

Richard MacLellan, Mgr SEMO
Julian Boyle, Energy Auditor
Angus Doyle, Mgr Utilities Coordination
Kate Wall, Finance
Kathryn Cooper Macdonald, SEMO
Anne Totten, CAO’s Office

Gord Helm, Mgr, Solid Waste Resources
Deanna Wilmshurst, Information Officer
David Lane, Senior Planner
Halifax Water Management Team
Cameron Deacoff, SEMO
Andy Fillmore, Community Development

In addition to this outcome area work, the Environment and Sustainability Committee members
will notice a thread of environmental sustainability throughout most of the outcome areas. The
Manager of the Sustainable Environment Management Office (SEMO), in addition to Clean and
Healthy Environment, was on the staff teams for:

- Well Planned and Engaged Communities;
- Safe, Inclusive and Welcoming Communities; and
- Economic Prosperity.

Clearly, the work the Environment and Sustainability Committee is doing impacts more than just
the outcome areas (i.e. Economic Prosperity is about promoting the natural resources and how it
relates to the satisfaction/enjoyment of the residents of HRM). There was a strong discussion
around the concept of “third place” (the place you are when you are not home or at work) and the
economic value of HRM’s third place – this brings investment in our community and shows how
the various social and economic values impacts “Clean and Healthy Environment” (talking about
“Doing Things Right” to save money, make money, become more economically competitive,
self-sufficient, protecting for future investment, and saving the world).

Of note, the Committee may wish to look at the envisioned timeframes that were articulated in
our original presentation and the working sheet.

BUDGET IMPLICATIONS

There are no budget implications related to this report.

FINANCIAL MANAGEMENT POLICIES / BUSINESS PLAN

This report complies with the Municipality’s Multi-Year Financial Strategy, the approved
Operating, Project and Reserve budgets, policies and procedures regarding withdrawals from the
utilization of Project and Operating reserves, as well as any relevant legislation.

COMMUNITY ENGAGEMENT

Not Applicable

ATTACHMENTS


1. Original Presentation
2. Goals and Objectives Working Sheet

A copy of this report can be obtained online at <http://www.halifax.ca/commcoun/cc.html> then choose the appropriate Community Council and meeting date, or by contacting the Office of the Municipal Clerk at 490-4210, or Fax 490-4208.

Report Prepared by: Richard MacLellan, Manager, Sustainable Environment Management Office, 490-6056

HRM Community Outcomes and Goals 2010


Clean & Healthy Environment



HALIFAX
REGIONAL MUNICIPALITY

Why is Clean and Healthy Environment an Outcome Area?


- Saves Money - *doing things right is good business*
- Makes Money - *doing things right might even generate revenue for HRM.*
- Drives Economic Competitiveness - *doing things right contributes to smart business growth and development of a "Green Economy"*
- Self-sufficiency / Energy Security - *doing things right for the community*
- Climate change Adaptation & Mitigation - *doing things right for our future*
- Saves the World - *doing things right means leaving the world a better place for our children*



HALIFAX
REGIONAL MUNICIPALITY

Outcome Area Statement

- Nurturing our Natural Resources to achieve the community's Vision




What Have We Done?

Fast Facts

- 200 solar panels on the Canada Games Centre
- Almost \$200 million worth of LEED projects recently, being, or soon to be built
- 15 Natural Gas Conversions with annual savings of over \$1 million
- 7 Geothermal projects with 150 boreholes -- more than anyone else in Atlantic Canada.
- LED traffic lights installed in 250 Intersections

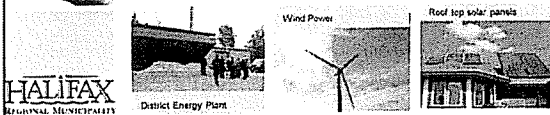
Progressive Direction

- Harbour Solutions
- Regional Plan
- LEED Silver
- Pesticides
- Windpower Contracts
- Alderney 5
- Environment Track Record



Goal: ENERGY - To reduce corporate/community energy costs and dependence

- Replace 100% of Streetlights with LED by December 31, 2016
- Replace 100% of Traffic Lights with LED by March 31, 2011
- Complete energy efficiency or renewable energy project on 278 HRM buildings by December 31, 2016
- Install mini-Hybrid technology on 50% of Metro Transit fleet by December 31, 2016
- Identify HRM strategic opportunities under ComFIT by December 31, 2011
- Adopt policy, plans and strategies required to incubate District Energy uptake with future redevelopment of Cogswell Interchange
- Establish Community Solar Project as a self sustaining programme by December 31, 2011.
- Investigate and assess potential Energy from Waste technology options for HRM by December 31, 2012



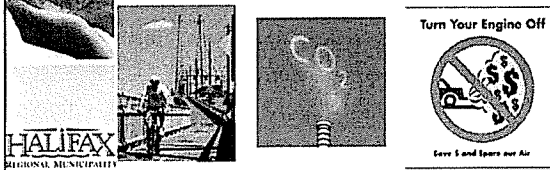
Goal: CLEAN LAND -To protect our natural spaces and improve the quality of our lands

- Complete Opportunity Sites Identification in 2011
- Complete a protocol for municipal response to new third party impacts by December 31, 2011
- To develop a strategy to manage the inventory of municipal contaminated sites by December 31, 2012
- Complete Urban Forest Master Plan by December 31, 2011
- Create Municipal Environmental By Law Enforcement Capacity by December 31, 2012
- Identify and develop a technology strategy for reusing, diverting or recycling HRM residual waste by 2013 with implementation by 2015
- Complete ongoing compost process assessments by 2013



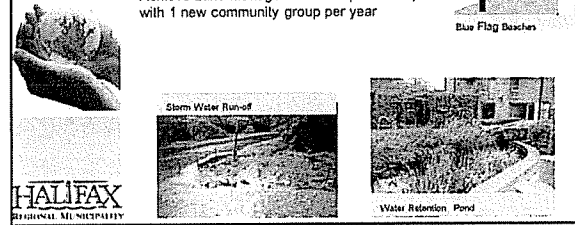
Goal: CLEAN AIR - To reduce air pollutants

- To achieve the corporate GHG reduction of 20% below 2002 levels by 2012
- To adopt a Community 2020 GHG Reduction Target by December 31, 2011
- Review opportunities for an Anti Idling Bylaw by December 31, 2011
- Minimum of two demonstration purchases in annual fleet capital purchases per year until 2015
- Develop an electric vehicle policy and strategy by December 31, 2013
- Identify Community Opportunities and encourage pursuit of solution for capture of waste energy, December 31, 2012



Goal: CLEAN WATER - To lead by becoming a blue water city

- Develop strategies to respond to CCME Standards December 31, 2012
- Adopt water conservation measures in Municipal construction and re-capitalization projects
- Completion of Stormwater Management Functional Plan December 31, 2012
- Achieve one Blue Flag status beach per year
- Achieve Lake Management Plan partnerships with 1 new community group per year



Goal: CLIMATE CHANGE - Empower HRM/community with the knowledge to make long term adaptation actions to mitigate climate change.

Update ClimateSMART Risk Management Strategy December 31, 2011

Complete Halifax Harbour Land Use Vulnerability Assessments, December 31, 2012

Collaborate with Adventure Earth Centre and NGO's for opportunities to deliver community climate change adaptation education

Create four new Community Climate Change Action Plans per year
Review and update Development Climate Change Action Guidelines by December 31, 2012



Dingle sea wall erosion



Outcome Area: Clean and Healthy Environment

Statement (Current): "A community that values and protects its resources, and reduces its ecological footprint for present and future generations through strategies that promote clean air, land and water, and reduced use of carbon fuel."

New Statement: Nurturing our Natural Resources to achieve HRM's Economic and Social Vision

Current	Modified
Goal: To reduce corporate and community energy costs and dependence	Goal: To reduce corporate and community energy costs and dependence
Increase Corporate energy efficiency to save \$	
LED Street Lights	Replace 100% of streetlights with LED by December 31, 2016
Building Retrofits	Complete energy efficiency or renewable energy project on 278 HRM buildings by 2016
Reduced Vehicle Fuel Consumption	Adopt Vehicle Fleet Rationalization measures recommended in Service Review by December 31, 2015
	Install miniHybrid technology on 50% of Metro Transit bus fleet by 2016
Explore alternative energy opportunities, new revenue	
ComFIT	Identify HRM strategic opportunities under ComFit by December 31, 2011
District Energy	Adopt policy, plans and strategies required to incubate District Energy uptake with future redevelopment of Cogswell Interchange
Solar	Establish Community Solar Project as a self sustaining programme by 2011 and install 5000 solar panels in HRM by 2016
Sewage heat recovery	
Waste to Energy	Working with the Province and industry, investigate and assess potential Energy from Waste technology options for HRM in conjunction with item one on residual waste by 2012 and secure permitting from the Province NTL 2014.
Install or introduce renewable energy in all HRM buildings	
Leader and catalyst to industry and the community	

Goal: To protect our natural spaces and improve the quality of our lands	Goal: To protect our natural spaces and improve the quality of our lands
Develop brownfield remediation strategy	To develop with Roger Wells and Andy Fillmore a more specific measureable
Clean up and management of oil spills and contaminated sites on HRM property	To complete a protocol for municipal response to new third party impacts by December 31, 2011
	To develop a strategy to manage the inventory of municipal contaminated sites by December 31, 2012
Completion of Urban Forest Master Plan	Complete Urban Forest Master Plan by December 31, 2011
Enhanced environmental green space enforcement	To create municipal ability to enforce environmental
Technology Strategy for residual waste	Identify and Develop a Technology Strategy for reusing-diverting or recycling HRM residual waste by 2013 with technology/system implementation by 2015.
Compost Strategy	Complete ongoing compost process assessments by 2013 and implement program capacity and process changes to meet Provincial regulatory standards and program capacity requirements by 2015. (This includes potential addition of new processing technology and or establishing a third site and controlling the finishing of the compost as a marketable material.)

Goal: To reduce air pollutants	Goal: To reduce air pollutants
20% reduction in GHG from 2002 levels by 2012	To achieve the corporate GHG reduction of 20% below 2002 levels by 2012
	To adopt a Community 2020 GHG Reduction Target by December 31, 2011
Consider anti idling bylaw	Review opportunities for an anti idling bylaw by December 31, 2011
Green Fleet Initiatives: Hybrids and Kits	Incorporate a minimum of 2 demonstration purchases in annual fleet capital purchases per year until 2015 (ie Hybrids, Electric Vehicles, etc)
Develop electric vehicle policy and strategy	Develop an electric vehicle policy and strategy by December 31, 2012
Facilitate opportunities for capture of waste energy (ie refinery flaring)	Identify Community Opportunities and encourage pursuit of solutions for capture of waste energy, December 31, 2012

Goal: To lead by becoming a blue water city	Goal: To lead by becoming a blue water city
Enhance stormwater / wastewater management, adopt CCME standards	Develop strategies to respond to CCME Standards
Enhance Water Conservation	Adopt water conservation measures in Municipal Construction and Re-capitalization projects.
Improve road salt management	Operational Review of opportunities to safely reduce impact of road salt on lake water quality by December 31, 2012
Promote groundwater / septic stewardship	Collaborate with NSE and UNSM to promote groundwater and septic stewardship
Enhance environmental enforcement	Completion of Stormwater Management Functional Plan December 31, 2012
Achieve one Blue Flag status beach per year	Achieve one Blue Flag status beach per year
	Achieve Lake Management Plan partnerships with 4 new community groups per year

Goal: Empower community and organization with the knowledge to make long term adaptation action in response to Climate Change	Goal: Empower community and organization with the knowledge to make long term adaptation action in response to Climate Change
Adopt Climate adaptation policy	Update Climate Smart Risk Management Strategy by December 31, 2011
Complete land use vulnerability assessments	Complete Halifax Harbour Land Use Vulnerability Assessments, December 31, 2012
Adopt Climate adaptation education program	Collaborate with Adventure Earth Centre, and NGO's, for opportunities to deliver community climate change adaptation education to youth and adults
Community Action guides	Create Community Climate Change Action Plans for 4 communities per year
Apply developer climate change action guidelines in new development	Review and update Development Climate Change Action Guidelines with Community Development and the Development Community by December 31, 2012