

Halifax Chamber of Commerce

**HRM Regional Municipal Planning
Strategy 2012**

ENERGY CHAPTER - RECOMMENDATIONS



**HALIFAX CHAMBER
OF COMMERCE**

stronger together

Energy Touches Everything

- Food, Clothing and Shelter
- Energy+Water+Time = City
- Infrastructure+Mobility+Heating
+Cooling+Pumping+Lighting
- Beauty - Aesthetic Energy
- Spaceship Earth
- Security, Conservation, Efficiency
- Performance



Joining the Leaders

- Over 3.5Billion city dwellers
- Sustainable Cities - Think and Do Tank
- 40 International Cities:
sustainablecities.net
- Cities for Climate Protection: iclei.org
- Energy Cities - 1000 towns and cities
in Europe: energy-cities.eu
- Urban Energy. HRM in the 21st
Century



Montreal



New York City



York Region



Mexico City



Saint John



Boulder



Sustainable Urban Energy Planning and Management

- Sustainable Use of Energy Resources
- Ecological Community Form and Function
- Environmentally Sound and Energy Efficient Land Use Optimization
- Energy and Environmental Technology Integration
- Community Resources Management
- Social Equity and Economic Vitality



Energy in Policy and Legislation

- Environmental Goals and Sustainable Prosperity Act (2007)
- Nova Scotia's Climate Change Action Plan (2009)
- Efficiency Nova Scotia Corporation Act (2009)
- Renewable Electricity Plan (2010)



Energy and Environment

- Maximize the use of energy efficiency measures at each stage of the development and operations of the built environment
- Maximize the use of cleaner energy sources in the three basic energy services: electricity supply, heating and cooling, and transportation.
- Maximize the use of indigenous clean energy sources (wind, solar, geothermal, biomass)



Energy and Housing

- Advance and incentivize energy conservation practices
- Advance energy efficiency and demand side management measures
- Facilitate and support market trends in choosing high-efficiency and clean residential space heating technologies both for new construction and retrofits
- Increase on-site energy generation
- Establish a voluntary target for residential housing average carbon footprint
- Establish a voluntary water usage target to lower overall distribution system energy demands.



Energy and Commercial Infrastructure

- Utilize advanced rating systems as major enablers to moving from “business as usual” to carbon-neutral and zero energy building solutions.
- Introduce tax or other financial incentives for retrofitting energy conservation strategies in existing buildings.
- Introduce accelerated planning approvals to registered LEED projects targeting Gold or Platinum certification.
- Mandate building owners and operators to understand, measure and compare on-going energy performance of their building portfolio;
- Establish and advance Building Energy Performance targets
- Develop/support District Energy networks
- Develop advanced financial solutions supporting higher penetration of High Energy Performance Buildings and Communities.



Energy and Transportation

- Develop and establish a sustainable mobility policy
- Advance an energy-efficient public transportation infrastructure
- Establish an advanced congestion and traffic management
- Reduce energy consumption by improving fuel efficiency on the vehicle side
- Gradually replace oil by biofuels, natural gas, hydrogen, electricity or other cleaner fuels
- Encourage active transportation in core urban areas.



Energy and Utilities

- Establish an efficient balance between centralized and distributed power supply
- Support the development of an infrastructure for distributed power generation
- Support the deployment of Smart Grid-enabling technologies, such as metering and communication technologies for the eventual efficient control of the two-way flow of electricity as an integral part of the Smart City concept deployment



Energy and Municipal Economic Opportunities

- Support energy efficiency services in HRM
- Benefit from energy-related jobs
- Attract energy equipment manufacturing and energy service companies
- Establish consistent Green Procurement practices



Energy and Communications

- Emphasize a positive gain from energy conservation, energy efficiency and clean energy generation
- Clearly communicate incentives, rebates and other existing financial support
- Encourage active involvement and commitment, use competition to motivate behaviour changes.



Energy and Education

- Support conservation awareness education to reduce energy consumption
- Advance renewable energy deployment by supporting workforce technical training
- Increase deployment potential for advanced technologies like electric vehicles by supporting R&D and technology commercialization



The Next Steps

“The future is here now. It’s just not evenly distributed.” -William Gibson

- A Brutal Schedule
- Winners and Losers
- The Opportunity of a Lifetime
- The Challenge of a Generation
- Our Time to Lead

