

CARIP Report

Enter text below as indicated (replace italics with your text)

Name of Local Government
Member of Regional District (RD)
Regional Growth Strategy (RGS) in region
Population

City of Abbotsford
Fraser Valley Regional District
Yes
Approximately 140,000

Report Submitted by

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Title
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Actions Taken to Reduce Energy Consumption and GHG Emissions in 2010**1.1. COMMIT**

The *City of Abbotsford*, working with the *Fraser Valley Regional District*, and along with the Province of BC and the UBCM has signed the Climate Action Charter (CAC) pledging to achieve the following goals: Be carbon neutral in corporate operations by 2012; measure and report on our community greenhouse gas emission profile; and work to create compact, more energy efficient communities. In 2008, Premier Gordon Campbell announced that communities that have signed onto the CAC and agree to publicly report on their climate action progress would be eligible for the Climate Action Revenue Incentive Program (CARIP) grant. The following Report meets the CARIP requirements to publicly report on climate actions undertaken by this local government in the current year and intended climate actions for the following year.

1.2. MEASURE

Corporate Measurement	Answer	Additional information
Has your local government taken steps towards completing a corporate energy and emissions inventory? Please identify the steps taken.	Yes	<i>A Corporate Energy and Emissions Baseline Inventory was completed by Pembina Institute consultants in 2006. Subsequently, city staff developed or modified software tools to conduct energy and emissions inventories for 2009 and continue to do so for 2007/2008 and for the current year 2010.</i>
Community-wide Measurement Actions	Answer	Additional information
Has your local government taken steps to review and consider your community-wide GHG emissions profile as provided by the Community Energy and Emissions Inventory (CEEI) or other data sources? Please identify the steps taken.	Yes	<i>Assigned staff, worked with the Fraser Valley Regional District and engaged a contractor to understand key components of the Community Energy and Emissions Inventory report and its limitations, identified where energy is being used and emissions created, included "Agricultural Methane" as an additional sector in the inventory.</i>

1.3. PLAN

	Answer	Additional information
Does your RGS have targets, policies and actions to reduce GHG emissions, as per the requirements under the <i>Local Governments Act</i> (LGA)? If yes, please identify the targets set. If no or in progress, please comment.	NA	NA
<i>*This question is ONLY for Regional Districts with RGSs</i>		
Does your OCP(s) have targets, policies and actions to reduce GHG emissions, as per the requirements under the <i>Local Governments Act</i> (LGA)? If yes, please identify the targets set. If no or in progress, please comment.	Yes	<i>Buildings Target: 15% by 2025, 35% by 2040 (per-capita reduction) Transportation Target: 20% by 2025, 50% by 2040 (per-capita reduction) Solid Waste Target: 20% by 2025, 40% by 2040 (per capita reduction) Agricultural Methane Target: 25% by 2025, 50% by 2040 (per-capita reduction) City-wide Target: 20% by 2025, 45% by 2040 (per-capita reduction) See the attached OCP Policy Statements Regarding GHG Emission Reductions</i>

1.4. ACT

CORPORATE ACTIONS

Please describe the corporate actions you have taken this year and propose for next year to reduce GHG emissions and energy consumption. Examples of tools you may have used include:

- a) Planning tools (e.g. Green Fleet Action Plan, Resource Management Plan, Corporate Climate Action Plan)
- b) Policy tools (e.g. Civic Building Policy, Fuel Efficiency Policy, Green Purchasing Policy, Green Infrastructure Policy)
- c) Other (e.g. corporate car share program, civic building retrofits, LED street lighting, building operator training, green driving education, other educational programs and staff awareness initiatives)

Corporate Actions	Actions Taken This Year	Proposed Actions for Following Year
<p>To reduce GHG emissions and energy consumption</p>	<p><i>a) Planning Tools - Corporate Climate Change Policy and Action Plan (adopted in principle 2006)</i> <i>b) Policy Tools - Energy Policy (2010)</i> <i>c) Civic buildings/facilities: Heat reclaim system installed at MRC pool; Energy efficient lightbulb retrofit at airport and Marshall building; Waste heat recovery air handling equipment added at City Hall;</i> <i>Sewage Treatment: installation of a centrifuge to replace energy inefficient belt-filter press (underway) and increased production of bio-solids based soil product Val-E-Gro (will reduce significant normal out-of-area transport related GHG emissions for bio-solids);</i> <i>Parks operations: conversion of more energy intensive municipal water source and sanitary discharge for Mill Lake water spray park to on-site groundwater source with corresponding direct discharge to ground; planting over one thousand trees and woody shrubs;</i> <i>Civic Fleet: use of B5 bio-diesel for heavy trucks/equipment fueling at Works Yard; use of LED technology in vehicle emergency lights to reduce battery drawdown and need for idling; voluntary idle-reduction campaign at Yard;</i> <i>Solid Waste: developing curbside organics collection food waste collection program, etc</i></p>	<p><i>Civic Buildings:</i> - evaluate solar panel installation for MRC pool; - incorporate HVAC control strategies at Police Building; - install heat reclaim system on exhaust at MSA arena; <i>Sewage treatment:</i> - continued development of a carbon-reducing ammonia removal pilot process (Anammox); - preparing for replacement of existing co-gen system with a microturbine fueled by methane and maximizing the use of biogas; <i>Water System:</i> - continued planning for the installation of a microturbine on new Stave Lake transmission main for energy capture; <i>Civic Fleet:</i> - replacing/updating older equipment to voluntarily comply with Metro Vancouver "Public Fleet Non-Road Diesel Emission Standards"; - introduction of anti-idling policy; - continued examination of hybrid technology; <i>Solid Waste:</i> - develop ICI recycling program and procure equipment and services for curbside organics collection and processing;</p>

COMMUNITY-WIDE ACTIONS

Please describe the community-wide actions you have taken this year and propose to take next year to reduce GHG emissions and energy consumption in the sectors below. Examples of tools you may have used include:

- a) Planning and Policy tools (e.g. Climate Action Plan, Energy Plan)
- b) Regulatory tools (e.g. Development Permit Areas, Zoning, Development Cost Charge adjustments)
- c) Incentive tools (e.g. energy audit rebate program, fast tracking green developments)
- d) Other (e.g. Sustainability checklists, development guidelines, educational programs, and public awareness initiatives)

Community-wide Actions	Actions Taken This Year	Proposed Actions for Following Year
To reduce transportation-related GHG emissions and energy consumption (i.e. through both transportation and land use actions)	<i>Adopted OCP policies supporting: improved public transit, improved pedestrian and bicycle infrastructure, improved vehicle fuel economy, DCC reductions for developments with green building features, a City-wide energy plan, electric vehicle charging facilities. Constructed new accessible bus stops, which include tactile strip and grab bars.</i>	<i>Commence work on a Transit Futures Plan (Transit Master Plan) ; Construct additional accessible transit stops; Support transit-oriented development with enhanced pedestrian and cyclist-friendly public realm.</i>
To reduce building-related GHG emissions and energy consumption	<i>Adopted OCP policies supporting: improvement to the British Columbia Green Building Code, incentives for private sector green building, use of alternative energy technology for buildings, form and character guidelines that assist in reducing GHG emissions.</i>	<i>Pursue work on a green development checklist and special "U-district" neighbourhood plan, both of which will include encouraging the reduction of building-related GHG emissions and energy consumption, along with examining renewable energy. Development of an Integrated Community Sustainability Planning initiative including a <u>Community Energy & Emissions Plan</u></i>
To reduce water and waste-related GHG emissions and energy consumption	<i>Adopted OCP policies supporting: diversion of solid waste from landfills, development of composting facilities, anaerobic digestion, more energy efficient wastewater treatment. Recycling in all multi-family residences.</i>	<i>Pursue new anaerobic digestion opportunities, especially in the agriculture sector.</i>
To enhance carbon sink capacity through natural resource protection and enhancement	<i>Adopted OCP policy supporting development of carbon credit and/or off-set programs, including those utilizing agricultural and forested land as carbon sinks</i>	<i>Development of greenspace/sensitive environmental area protection policies within Integrated Community Sustainability Planning initiative.</i>
Additional actions	<i>Adopted OCP policies supporting: improved air quality, plans for a Climate Change Risk Management Strategy, ensuring planning for infrastructure takes into account the impact on climate. Initiated a food waste collection pilot project. Conducted education and public awareness initiatives.</i>	