



Climate Action Revenue Incentive Plan (CARIP) Public Report

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Thompson-Nicola Regional District

Reported by
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General Information

Name of Local Government	<i>Thompson-Nicola Regional District</i>
Member of Regional District (RD)	
Regional Growth Strategy (RGS) in region	<i>Yes</i>
Population	<i>128473</i>

Community Wide Actions for 2011

1.1 Measure

Community Wide Measurement Actions

Question	Have you been using the Community Energy and Emissions Inventory (CEEI) to measure progress? What else have you been using instead of/in addition to CEEI?
Answer	No
Additional Information	<i>The TNRD has completed a review of its assets and operations and compiled an inventory of corporate energy consumption and emissions. 2011 consumption has been recorded on the Carbon Tax Calculation Form. The TNRD understands reporting for 2012 must use CEEI data to measure progress.</i>

1.2 Plan

Community Wide Targets

Question	Do your OCP(s) have targets, policies and actions to reduce GHG emissions, as per the requirements under the Local Governments Act (LGA)? If yes, please identify the targets set. If no or in progress, please comment.
Answer	Yes
Additional Information	<i>The following 10 revised OCPs received Provincial approval: Ashcroft-Cache Creek, Avola, Barriere, Blue River, Cherry Creek-Savona, Clearwater, Kamloops North, Kamloops South, Nicola Valley and South Thompson Valley-Pinantan. All have identified reduction targets of 10% by 2020 from 2007 levels and 33% reduction by 2050 from 2007 levels. Currently in progress is development of the Green Lake and Area OCP. This is a collaboration between the Cariboo Regional District, the TNRD and area residents. Identified are 33% reduction in GHG emissions by 2020 from 2007 levels and 80% reduction in GHG emission by 2050.</i>

Question	<p>If you are a Regional District, does your RGS have targets, policies and actions to reduce GHG emissions, as per the requirements under the Local Governments Act (LGA)? If yes, please identify the targets set. If no or in progress, please comment.</p>
Answer	<p>Yes</p>
Additional Information	<p><i>The current RGS was adopted in May 2000. A review is currently underway, which will incorporate the initiatives and commitments identified in the Climate Action Charter. Proposed targets are a 10% reduction by 2020 from 2007 levels and 33% reduction by 2050 from 2007 levels.</i></p>

1.3 Reduce

Supportive Community Wide Actions

Action Type	Broad Planning (e.g. creation/revision of OCPs, CEPs, transportation plans)
Actions Taken this Year	<p>Received Provincial approval for 10 OCPs which now all include reduction targets of 10% by 2020 and 33% by 2050.</p> <p>In progress is development of 1 OCP which will include 33% reduction by 2020 and 80% by 2050.</p> <p>The TNRD's Fringe Area policy has contributed to the mitigation of leapfrog or unsustainable development. Success of implementing smart growth region wide has been reflected in 2011 Census results which shows a 4.5% shift from electoral areas to more densely populated municipalities.</p> <p>The TNRD on behalf of Electoral Areas "L", "O", and "P", and in partnership with the municipalities of Logan Lake, Barriere and Chase contracted BC Transit to complete a feasibility study to determine viability of establishing transit service from Logan Lake to Kamloops, Chase to Kamloops and Little Fort to Kamloops.</p>
Proposed Actions for Next Year	Complete Green Lake and Area OCP and Regional Growth Strategy amendment to reflect Climate Action targets.

Action Type	Building and Lighting (e.g. developed green building policy, increased density in the downtown)
Actions Taken this Year	The Thompson-Nicola Library System has purchased Electronic Energy Meters which are circulated through the library system. Members of the general public can sign out the meters and can conduct appliance assessments in their own homes, which will allow them to identify areas where they can achieve improvements in energy efficiency.
Proposed Actions for Next Year	

Action Type	Energy Generation (e.g. signed on to provincial 'solar ready' regulation, explored options for bioheating for buildings)
Actions Taken this Year	
Proposed Actions for Next Year	

Action Type	Green Space (e.g. developed urban forestry policy, adopted park acquisition policy)
Actions Taken this Year	
Proposed Actions for Next Year	

Action Type	Transportation (e.g. developed sustainable transportation plan, completed bicycle master plan)
Actions Taken this Year	<i>The TNRD covers over 45,000 sq km and does not have jurisdiction over roadways and transportation. Unincorporated/clustered communities are located in rural or remote rural locations. In addition, with countless recreational properties located throughout the TNRD it is not logistically viable or financially sustainable to implement strategies which will significantly impact the existing level of GHG emissions related to transportation.</i>
Proposed Actions for Next Year	

Action Type	Waste (e.g. introduced composting and recycling education programs)
Actions Taken this Year	<i>Developed the Incredible Waste Race education resource which is designed for children from K through grade 3. The program is designed to be used in collaboration with existing Ministry of Education curriculum, targeting specific prescribed learning outcomes and integrating subject areas. Outcome of the lessons is for students to</i>

	<p><i>discover how to decrease waste through reducing, reusing and recycling activities and to examine how these actions help to conserve natural resources and protect the environment.</i></p> <p><i>Worked with Conservation Officers to monitor illegal dumping through use of infrared camera.</i></p>
Proposed Actions for Next Year	<p><i>Continue to promote the Incredible Waste Race education package to elementary schools throughout the region.</i></p> <p><i>Continue to develop education programs for citizens of all ages.</i></p> <p><i>Continue to monitor and clean up illegal dumping sites.</i></p>

Action Type	<p>Water/Sewer (e.g. participated in water smart initiatives, implemented Water Action Plan, introduced rebates on low flush toilets)</p>
Actions Taken this Year	<p><i>Provided funding to a waterworks district to provide looping upgrades to the public water system. Looping will promote greater efficiencies in operating and maintenance.</i></p>
Proposed Actions for Next Year	

Action Type	<p>Other Actions</p>
Actions Taken this Year	<p><i>Expanded the wood stove rebate program to include Electoral Area "I". This program is provided in partnership with the BC Lung Association.</i></p> <p><i>Entered into a 3 year contribution agreement with the Columbia Shuswap Regional District, Salmon Arm and Sicamous to provide funding to the Fraser Basin Council to implement strategies identified in the Shuswap Lake Integrated Planning Process Strategic Plan. SLIPP is a multi-party planning process for land and water use in the Shuswap Watershed.</i></p>
Proposed Actions for Next Year	<p><i>Working towards establishing water preservation strategies for the Nicola Lake Watershed which mirror strategies implemented for the Shuswap Lakes Watershed.</i></p>

Direct Community Wide Actions

Action Type	Buildings (e.g. implement use of sustainability checklists and development permit guidelines for new buildings)
Actions Taken this Year	<i>Approved funding for green upgrades to 5 community buildings owned and operated by not-for-profit societies. Energy efficiency upgrades included new roofs, door, windows, plumbing fixtures, insulation and heating systems.</i>
Proposed Actions for Next Year	<i>Continue to foster relationships with community groups and facilitate financial assistance for green improvements where feasible.</i>

Action Type	Energy Generation (e.g. implement district energy, geothermal, solar)
Actions Taken this Year	
Proposed Actions for Next Year	

Action Type	Transportation (e.g. implement bike lanes, pedestrian paths, upgrade transit service and infrastructure, improve roads, parking fees etc.)
Actions Taken this Year	<p><i>Roadways throughout the TNRD fall under Provincial jurisdiction thus limiting the regional districts ability to impact emissions. However the TNRD was able to assist two community groups with funding to upgrade their vehicles with more energy efficient units.</i></p> <p><i>The Thompson-Nicola Library system has noted a 200% increase in the circulation of e-books and e-audio books circulation. Providing e-materials reduces transportation required to access library materials.</i></p> <p><i>Installed bike racks for public use at the Ashcroft and Lytton library sites.</i></p> <p><i>Facilitated expansion of high speed internet to rural communities by allowing collocation of service provider equipment on already established TNRD communication towers. Expansion of high speed promotes conducting business from home as opposed to travelling.</i></p> <p><i>Developed 360 virtual tour program which highlights and provides amenity services and hours of operation. This assists users effective pre-planning trips rather than travelling</i></p>

	<i>to venues to find them closed.</i>
Proposed Actions for Next Year	<p><i>Continue to work with community groups and wherever feasible assist with funding to improve fuel efficiency of operation vehicles.</i></p> <p><i>Continue to educate the public on the availability of of e-materials from public libraries.</i></p> <p><i>Continue to work with internet service providers and other levels of government to facilitate the provision of high speed internet which will allow for improved access to information and for conducting of business from the home rather than travelling.</i></p> <p><i>Continue to expand 360 virtual tour library.</i></p>

Action Type	Waste (e.g. introduce composting and recycling programs)
Actions Taken this Year	<i>Worked with GLAD Canada to develop materials that enable TNRD seasonal residents and visitors to recycle while on vacation or staycation.</i>
Proposed Actions for Next Year	<i>Implement program developed with GLAD Canada.</i>

Action Type	Water/Sewer (e.g. implement water conservation and reduction initiatives)
Actions Taken this Year	
Proposed Actions for Next Year	

Action Type	Green Space (e.g. plant trees, conserve forest etc.)
Actions Taken this Year	
Proposed Actions for Next Year	

Action Type	<i>Other Actions</i>
Actions Taken this Year	
Proposed Actions for Next Year	

1.4 Community Wide Innovation

Question	Is there any activity that you have been engaged in over the past year(s) that you are particularly proud of and would like to share with other local governments? Please describe and add links to additional information where possible.
Answer	

Corporate Actions for 2011

2.1 Measure

Corporate Measurement Actions

Question	What steps has your local government taken toward completing its corporate emissions inventory (e.g. corporate assets gathered related to energy and fuel data and calculated GHG emissions from energy use)?
Answer	<i>The TNRD has compiled data associated with its corporate assets.</i>

Question	What tool are you using to measure, track and report on your corporate emissions (e.g. SMARTtool, other tools including excel spreadsheets)?
Answer	<i>Excel spreadsheet.</i>

2.2 Reduce

Supportive Corporate Actions

Action Type	Broad Planning (e.g. developed corporate climate action plan)
Actions Taken this Year	
Proposed Actions for Next Year	

Action Type	Building and Lighting (e.g. developed energy reduction plan for all corporate buildings)
Actions Taken this Year	

Proposed Actions for Next Year	

Action Type	Energy Generation (e.g. undertook feasibility study of green energy generation for civic buildings)
Actions Taken this Year	
Proposed Actions for Next Year	

Action Type	Transportation (e.g. created anti-idling policy for city vehicles, bike to work week promotion)
Actions Taken this Year	
Proposed Actions for Next Year	

Action Type	Waste (e.g. completed waste audit of City Hall)
Actions Taken this Year	<p>Installed small battery recycling services at Libraries located in small municipalities.</p> <p>Installed "share board" sites at landfills and transfer stations - these allow community members to advertise items for sale, trade or reuse as opposed to landfilling items or establishing stop and shop facilities which require ongoing operating.</p> <p>Collected data at all refuse sites to determine need for expanding recycling or stewardship services.</p> <p>Held 8 Hazardous Waste Round Up events at member municipalities to accept material covered by provincial stewardship programs or hazardous material which required special handling.</p> <p>Held 22 Travelling Road Show events which provided educational outreach in municipalities and unincorporated communities in our area.</p> <p>Established recycling services at Eagan Lake Transfer Station and on Coldwater First Nations Band lands.</p>

Proposed Actions for Next Year	<i>Continue to promote solid waste management best practices. Continue to collect data, and based on results expand services at waste disposal sites.</i>
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Action Type	<i>Water/Sewer (e.g. completed study of sewer and water energy use)</i>
Actions Taken this Year	
Proposed Actions for Next Year	

Action Type	<i>Other Actions</i>
Actions Taken this Year	
Proposed Actions for Next Year	

Direct Corporate Actions

Action Type	Building and Lighting (e.g. energy efficiency retrofits to municipal buildings)
Actions Taken this Year	<p><i>New energy efficient furnace for Blue River Library.</i></p> <p><i>Major retrofit to in-slab heating system for sloped entry to Civic building. Eliminated electric element system, proven to have a life expectancy of less than 10 years, with a glycol system. Glycol system is tied into oversized building heating system which will now achieve improved efficiency with added load. Life expectancy of glycol lines is 30+ years. Maintenance and repairs will involve replacement of small components and will not require tear-up, disposal and replacement of surface concrete.</i></p> <p><i>Purchased new VACTEC C-60 vacuum with Hepa filter for North Kamloops Library.</i></p> <p><i>Upgraded traditional phone system to VOIP system.</i></p> <p><i>Migrated 15% of physical servers to Virtual servers.</i></p> <p><i>Replaced 2 large capacity copiers with energy star copiers.</i></p> <p><i>Replaced map scanner and plotter with energy star devices.</i></p> <p><i>10% of PCs and monitors were replaced with energy star systems.</i></p> <p><i>Replaced doors and windows at Avola Community Hall.</i></p> <p><i>Replaced leaking water fountain at Smith Pioneer Park.</i></p>
Proposed Actions for Next Year	<p><i>Continue to replace aging office equipment with energy star units.</i></p> <p><i>Planning and possible construction of 2 more LEED certified libraries.</i></p> <p><i>Replace doors and roof at Vavenby Community Hall.</i></p>

Action Type	Energy Generation (e.g. implemented heat recovery systems, solar)
Actions Taken this Year	<i>Installed solar panel system at Spences Bridge Transfer Station.</i>
Proposed Actions for Next Year	<i>Upgrade 6 more transfer stations with solar power supply.</i>

Action Type	Fleet (e.g. anti-idling policies for fleet vehicles, purchasing of hybrid)
Actions Taken this Year	<i>Installed SCADA remote turbidity monitoring system at 11 TNRD owned water systems scattered throughout the TNRD. Collection of data is now completed remotely eliminating the need to travel to the site. Travelling time to water system sites will</i>

	<i>varies from 30 minutes to 3 hours one way. At minimum on trip per site per week was eliminated.</i>
Proposed Actions for Next Year	

Action Type	Waste (e.g. introduction of composting and recycling programs and education)
Actions Taken this Year	<i>Collected 2,200 tonnes of recyclable household materials. This material was diverted from landfills. This number does not include items like tires, oil, e-waste, etc which would have been addressed through industry stewardship programs. Distributed over 100 composters throughout the regional district, in partnership with local retailers. Distributed 87 worm composters throughout the regional district. Provided was also education to enable residents to maximize effectiveness of worm composting.</i>
Proposed Actions for Next Year	<i>Upgrade 16 transfer station sites to eco-depots offering recycling services. Expand biogenic conversion of methane at existing landfills and also at closed landfills. Pilot involving distribution of 50 food digesters, which will impact landfill volumes of the organic waste stream.</i>

Action Type	Water/Sewer (e.g. initiated water conservation and reduction initiatives)
Actions Taken this Year	<i>Piloted supply of rain barrels to 100 TNRD water system users to promote water conservation. Installed SCADA remote monitoring system which allows for real-time assessment of water system issues and promotes quicker response to address problems.</i>
Proposed Actions for Next Year	<i>Collect data on water consumption and expand rain barrel program if successful.</i>

Action Type	Green Space (e.g. planting of trees)
Actions Taken this Year	

Proposed Actions for Next Year	
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Action Type	Other Actions
Actions Taken this Year	<i>Initiated contact with Pacific Carbon Trust for approval of sale of carbon credits derived through implementation of the biogenic methane project; whereby global warming potential of landfill gas is reduced by 21 times through the anaerobic conversion of methane to carbon dioxide. This system also reduces impact to groundwater sources through mitigation of leachate generation. Technology was developed and piloted in the TNRD.</i>
Proposed Actions for Next Year	<i>Expand biogenic methane treatment program to closed landfills.</i>

2.3 Corporate Innovations

Question	Is there any activity that you have been engaged in over the past year(s) that you are particularly proud of and would like to share with other local governments? Please describe and add links to additional information where possible.
Answer	<i>Development of biogenic methane program which reduces environmental impact of methane emitted from small landfills by 21 times. Process makes beneficial use of Class A Annacis Island bio-solids, otherwise destined for landfill disposal.</i>