

North Vancouver DM

Community Energy & Greenhouse Gas Emissions Inventory: 2007

This is your local government's draft 2007 Community Energy and Greenhouse Gas Emissions Inventory (CEEI). From March 10th to April 15th 2009, the Province and partners are asking for your review and feedback - <http://www.toolkit.bc.ca/ceei> - on the content, clarity and usefulness of your community's draft 2007 CEEI Report.

What is a CEEI Report?

CEEI Reports are a result of a multi-agency effort to provide a province-wide solution to assist local governments in BC to track and report annual community-wide energy consumption and greenhouse gas (GHG) emissions. For 2007, the CEEI Reports provide high-level energy and GHG emission estimates in three primary sectors – on-road transportation, buildings and solid waste. As additional information, estimates on land-use change emissions from deforestation are provided at the regional district level. CEEI Reports are one of the many resources available through the Climate Action Toolkit (<http://www.toolkit.bc.ca>), a web-based service provided through the ongoing collaboration between UBCM and the Province.

Why does my local government need a CEEI Report?

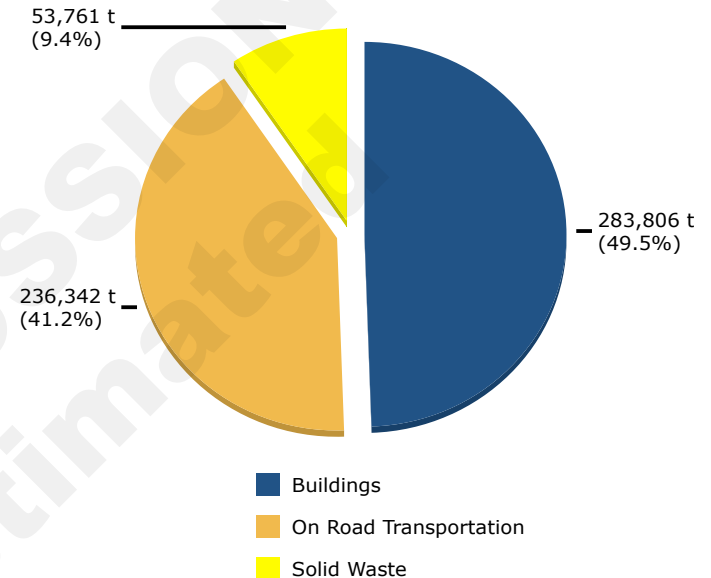
An energy and GHG emissions inventory can be a valuable tool that helps local governments plan and implement GHG and energy management strategies, while at the same time strengthening broader sustainability planning at the local level. CEEI reports have two primary purposes – to fulfill local governments' Climate Action Charter commitment to measure and report their community's GHG emissions profile, and to establish a base year inventory for local governments to consider as they develop targets, policies, and actions related to the Province's new Green Communities Legislation (Bill 27). As an additional benefit, CEEI Reports support BC local government members of the Federation of Canadian Municipalities' Partners for Climate Protection program to achieve Milestone One of the community stream – a community GHG emissions inventory.

A first in North America!

CEEI is a first in North America, and a first step for BC communities. The 2007 CEEI Reports are based on best available province-wide data. The accuracy and detail of CEEI reports will continue to improve to meet increasing local and provincial government information needs. For example, the CEEI working group is presently pursuing ways to refine community boundary accuracy for a number of BC's smaller communities. Also, local governments may wish to provide additional information to the CEEI and/or enhance their CEEI report (in sectors and/or detail) where interest, capacity and local information sources permit (e.g., provide the CEEI with accurate community-specific solid waste data). For future reports, the CEEI working group will be considering the inclusion of additional components to GHG inventories as advised by emerging international protocols, the information needs of local governments, and the Province's forthcoming Green Communities Incentive Program.

Hyla Environmental Services Ltd. (HES) is providing 2007 CEEI Reports using its Energy and Emissions Monitoring and Reporting System™. HES is also developing a 2007 CEEI Technical Methods and Guidance document, presently scheduled to be available in late March 2009.

CO₂e (tonnes) by Sector *



* In some CEEI Reports, inaccuracy in solid waste data and/or where electricity and natural gas consumption data for buildings has been withheld for confidentiality purposes, the relative percentages of GHGs in each sector as illustrated above may appear disproportionate. For this reason, care should be taken in interpreting these reports, particularly where comparisons with other local government may be of interest.

Please refer to the CEEI User Guide for overviews of each sector (<http://www.env.gov.bc.ca/epd/climate/ceei/pdf/ceei-user-guide.pdf>). For answers to Frequently Asked Questions go to <http://www.env.gov.bc.ca/epd/climate/ceei/pdf/ceei-faq.pdf>. To explore 'taking action community wide', go to <http://www.toolkit.bc.ca/taking-action/community-wide>. For more information, please contact the Ministry of Environment at CEEIRPT@gov.bc.ca.

Notice to the Reader: This CEEI Report uses information from a variety of sources to estimate GHG emissions. While the methodologies, assumptions and data used are intended to provide reasonable estimates of greenhouse gas emissions, the information presented in this report may not be appropriate for all purposes. The Province of BC, data providers and HES Ltd. do not provide any warranty to the user or guarantee the accuracy or reliability of the data contained in this report. The user accepts responsibility for the ultimate use of such data.

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BUILDINGS	Consumption By Type							Energy & Emissions Total		
	Type	Connections	Consumption		Energy/Connection		Energy (GJ)	CO ₂ e (t)	Energy (GJ)	CO ₂ e (t)
RESIDENTIAL BUILDINGS	Electricity	27,249	311,107,591	kWh	11,417	kWh/C	1,119,987	6,844	3,760,959	141,928
	Natural Gas	22,075	2,640,972	GJ	120	GJ/C	2,640,972	135,084		
COMMERCIAL BUILDINGS	Electricity	2,484	195,872,766	kWh	78,854	kWh/C	705,142	4,309	1,314,776	35,492
	Natural Gas	1,276	609,635	GJ	478	GJ/C	609,635	31,182		
INDUSTRIAL BUILDINGS	Electricity	492	987,219,105	kWh	2,006,543	kWh/C	3,553,989	21,719	5,209,278	106,386
	Natural Gas	28	1,655,289	GJ	60,192	GJ/C	1,655,289	84,667		
SUBTOTAL	Electricity	30,225	1,494,199,462	kWh			5,379,118	32,872	10,285,013	283,806
	Natural Gas	23,378	4,905,895	GJ			4,905,895	250,933		
ON ROAD TRANSPORTATION	Consumption By Type							Energy & Emissions Total		
	Type	Units	Consumption		Litres/Unit		Energy (GJ)	CO ₂ e (t)	Energy (GJ)	CO ₂ e (t)
SMALL PASSENGER CARS	Gasoline	22,017	19,461,838	litres	884	L/U	674,547	48,603	681,945	49,135
	Diesel Fuel	338	191,263	litres	566	L/U	7,398	532		
LARGE PASSENGER CARS	Gasoline	12,161	13,908,257	litres	1,144	L/U	482,060	34,734	486,493	35,053
	Diesel Fuel	137	114,601	litres	837	L/U	4,433	319		
LIGHT TRUCKS, VANS, AND SUVS	Gasoline	25,169	46,872,249	litres	1,862	L/U	1,624,592	117,057	1,642,136	118,280
	Diesel Fuel	268	369,850	litres	1,380	L/U	14,306	1,028		
	Mobile Propane	61	127,935	litres	2,097	L/U	3,238	194		
COMMERCIAL VEHICLES	Gasoline	2,276	4,023,559	litres	1,768	L/U	139,457	10,048	374,734	26,910
	Diesel Fuel	1,121	5,984,998	litres	5,339	L/U	231,500	16,635		

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ON ROAD TRANSPORTATION CONTINUED

	Mobile Propane	64	149,254 litres	2,332	L/U	3,778	227		
TRACTOR TRAILER TRUCKS	Diesel Fuel	46	703,932 litres	15,303	L/U	27,228	1,957	27,228	1,957
MOTORHOMES	Gasoline	495	968,860 litres	1,957	L/U	33,581	2,420	36,951	2,662
	Diesel Fuel	41	87,136 litres	2,125	L/U	3,370	242		
MOTORCYCLES AND MOPEDS	Gasoline	1,582	588,504 litres	372	L/U	20,398	1,470	20,398	1,470
BUS	Gasoline	42	351,120 litres	8,360	L/U	12,170	877	12,170	877
SUBTOTAL	Gasoline	63,742	86,174,387 litres			2,986,804	215,209	3,282,055	236,342
	Diesel Fuel	1,951	7,451,780 litres			288,235	20,712		
	Mbl Propane	125	277,189 litres			7,016	421		

SOLID WASTE	Direct Emissions				Emissions Total	
	Type	Estimation Method	Mass (t)	CO ₂ e (t)	CO ₂ e (t)	
COMMUNITY SOLID WASTE	Solid Waste	Waste Commitment	135,047	53,761	53,761	
SUBTOTAL			135,047	53,761	53,761	

Grand Total	Activity	Consumption	Energy	CO ₂ e	Energy & Emissions Total	
	Electricity	1,494,199,462 kWh	5,379,118 GJ	32,872 t	Energy (GJ)	CO ₂ e (t)
	Natural Gas	4,905,895 GJ	4,905,895 GJ	250,933 t		
	Gasoline	86,174,387 litres	2,986,804 GJ	215,209 t	13,567,068	573,910
	Diesel Fuel	7,451,780 litres	288,235 GJ	20,712 t		
	Mbl Propane	277,189 litres	7,016 GJ	421 t		
	Solid Waste			53,761 t		