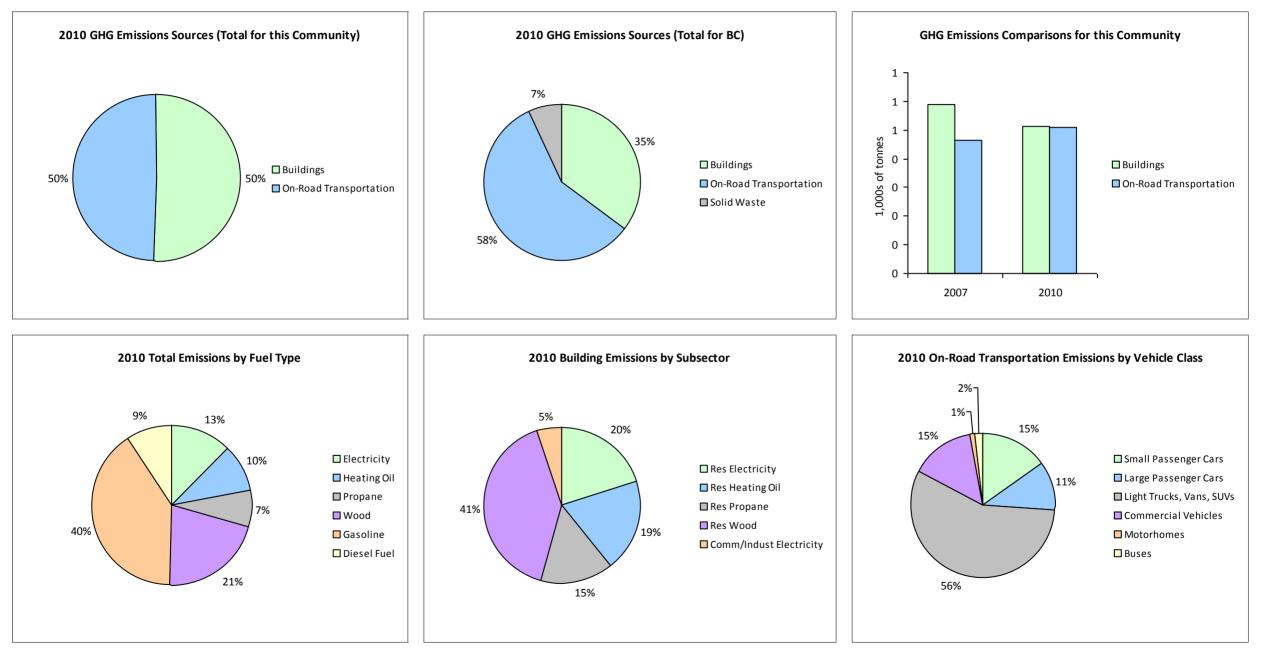


2010 Community Energy and Emissions Inventory

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Core Items

				2007					2010		
On-Road Transportation		Connections	Consumption	Avg VKT (km)	Energy (GJ)	C02e (t)	Connections	Consumption	Avg VKT (km)	Energy (GJ)	C02e (t)
Small Passenger Cars	Gasoline	24	24,580 L	10,600	861	60	26	29,686 L	12,100	1,039	68
	Diesel Fuel			14,200	73	4			17,000	137	10
Large Passenger Cars	Gasoline	19	26,201 L	11,600	917	65	18	23,842 L	11,300	835	55
Light Trucks, Vans, SUVs	Gasoline	51	89,971 L	12,100	3,149	219	57	113,512 L	14,000	3,973	261
	Diesel Fuel			9,200	252	17			11,500	393	27
Commercial Vehicles	Gasoline			13,000	449	30			10,000	353	22
	Diesel Fuel			13,500	543	38			14,600	758	52
Tractor Trailer Trucks	Diesel Fuel			7,500	122	9					
Motorhomes	Diesel Fuel			17,000	136	9			15,800	107	6
Motorcycles, Mopeds	Gasoline			2,600	4	0					
Buses	Gasoline			13,200	156	12			11,800	134	8
Totals		94	140,752 L	11,616	6,662	463	101	140,752 L	13,030	7,729	509

			200	7			20	10	
Buildings		Connections	Consumption	Energy (GJ)	C02e (t)	Connections	Consumption	Energy (GJ)	C02e (t)
Residential	Wood	N/A	10,683 GJ	10,683	216	N/A	10,363 GJ	10,363	210
	Heating Oil	N/A	1,417 GJ	1,417	100	N/A	1,374 GJ	1,374	97
	Propane	N/A	1,280 GJ	1,280	78	N/A	1,241 GJ	1,241	76
	Electricity	460	6,072,272 kWh	21,860	152	362	4,176,686 kWh	15,036	104
Commercial/Small-Medium Industrial	Electricity	61	1,744,573 kWh	6,280	44	44	1,018,023 kWh	3,665	25
Totals		521		41,520	590	406		31,679	512



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Totals for Transportation, Buildings and Solid Waste

	2007 (Po	opulation: 366)		2010 (Population: 346)			
Fuel Type	Consumption	Energy (GJ)	C02e (t)	Consumption	Energy (GJ)	C02e (t)	
Gasoline	140,752 L	5,536	386	167,040 L	6,334	414	
Diesel Fuel	0 L	1,126	77	0 L	1,395	95	
Wood	10,683 GJ	10,683	216	10,363 GJ	10,363	210	
Heating Oil	1,417 GJ	1,417	100	1,374 GJ	1,374	97	
Propane	1,280 GJ	1,280	78	1,241 GJ	1,241	76	
Electricity	7,816,845 kWh	28,140	196	5,194,709 kWh	18,701	129	
Grand Totals		48,182	1,053		39,408	1,021	



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Supporting Indicators

No new supporting indicator data have been provided in the 2010 reports. Work is currently underway to produce a complete second round of data for the indicators below in the 2012 reports (available in 2014). In the interim, we are including the same supporting indicator data that was provided in the 2007 reports. Feedback is requested on all supporting indicators; please contact us directly at

Housing Type - Private dwellings by structural type

Housing type is important for reducing building-related GHG emissions and energy consumption. A trend toward fewer single family dwellings indicates an increase in residential density, which is known to reduce transportation-related GHG emissions.

	1996		200	1	2006	
	Units	%	Units	%	Units	%
Single Detached House	135	93	140	93	155	89
Semi-Detached House	0	0	0	0	5	3
Row House	0	0	0	0	0	0
Apartment, Duplex	0	0	0	0	0	0
Apartment, 5 storeys or higher	0	0	0	0	0	0
Apartment, under 5 storeys	0	0	0	0	0	0
Other Single Attached House	0	0	0	0	0	0
Movable Dwelling	10	7	10	7	15	9

Parks and Protected Greenspace

Parks and protected greenspaces are important for the protection and enhancement of community carbon sinks.

	2009)
	Units	%
National Parks	0	0
Provincial Parks / Protected Areas	142	4
Local Parks	0	0
Agricultural Land Reserve	153	5
Other land use	2,869	91
Total Parks and Protected Area	142	4
Total Land Area	3,164	100
* Total is net of Indian Reserves		

* Total is net of Indian Reserves
** Quantity of parkland may be underestimated

Residential Density

Increasing residential densities is known to reduce vehicle use resulting in fewer transportation-related GHG emissions. There are many additional benefits from more compact development.

	2009	
	Units	%
National Parks	0	0
Provincial Parks / Protected Areas	142	4
Local Parks	0	0
Agricultural Land Reserve	153	5
Other land use	2,869	91
Total Parks and Protected Area	142	4
Total Land Area	3,164	100

Net of Crown land, parks, Indian Reserves, water features, airports, ALR, waste disposal site

Commute to Work - Employed labour force - by mode of commute

An increase in the number of people choosing to walk, cycle and use transit reduces GHG emissions. More compact, complete, connected communities should see an increase in the use of these transportation modes.

	1996		2001		2006	
	Units	%	Units	%	Units	%
Car, Truck, Van as Driver	70	56	90	86	45	64
Car, Truck, Van as Passenger	0	0	0	0	0	0
Public Transit	10	8	0	0	0	0
Walked	35	28	0	0	25	36
Bicycle	10	8	0	0	0	0
Motorcycle	0	0	0	0	0	0
Taxicab	0	0	0	0	0	0
Other Method	0	0	15	14	0	0

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Supporting Indicators Under Consideration

Work is currently underway to produce a complete second round of supporting indicators for the 2012 reports (available in 2014). These reports will new data for the five supporting indicators included in the 2007 and 2010 Reports:

- Housing Type: Private dwellings by structural type
- Commute to Work: Employed labour force by mode of commute
- Commute Distance
- Residential Density
- Parks and Protected Greenspace

And in addition, the 2012 reports we are working to be able to include:

- Proximity to Transit
- Building Energy Intensity
- Building Floor Space
- Waste Diversion

We are continuing to work towards reporting on even more supporting indicators in the future including:

- Proximity to Services (e.g destinations such as grocery store, school, other retail etc.)
- Transit Ridership
- Water Use
- Impervious Surface Cover: % change in impervious surface cover
- Tree Canopy Cover: % change in tree canopy cover
- District Energy: # and energy output (e.g. buildings connected, energy consumed in GJ or kWh) of district energy systems by energy type e.g. renewable or non-renewable)
- On-Site Renewable Energy: # and energy output (in GJ or kWh) from households producing and/or consuming on-site renewable heat (e.g. biomass, solar thermal, geo-exchange) and/or electrical (e.g. solar photovoltaic, small wind, small scale hydro) energy
- Energy Recovery from waste energy (GJ or kWh) recovered from waste (e.g. from landfill gas, sewage treatment, industrial operations, farm)

Please give us feedback by contacting us directly at CEEIRPT@gov.bc.ca

Many local governments have been undertaking a significant amount of climate action in both the corporate and community-wide spheres, as demonstrated in both the public reports from the Climate Action Revenue Incentive Program (CARIP) <u>http://www.cscd.gov.bc.ca/lgd/greencommunities/carip.htm</u>, and on the <u>http://toolkit.bc.ca</u> website. These two resources may be helpful to those who are interested in learning from other BC local governments. The toolkit also contains additional information and resources including decision-support/planning frameworks and tools for undertaking actions to reduce GHG emissions and energy consumption.



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This is your local government's 2010 Community Energy and Emissions Inventory (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 on community-wide energy consumption and greenhouse gas (GHG) emissions as well as supporting indicators every two years. CEEI Reports are one of the many resources available through the Climate Action Toolkit (<u>http://www.toolkit.bc.ca</u>), a web-based service provided through the ongoing collaboration between UBCM and the Province.

Why does my local government need a CEEI Report?

A community 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 fulfill local governments' Climate Action Charter commitment to measure and report their community's GHG emissions profile, establish a base year inventory for local governments to consider as they develop targets, policies, and actions related to BC's Local Government Act requirements, fulfill Milestone One requirements for those local government members of the Federation of Canadian Municipalities' (FCM's) Partners in Climate Protection (PCP) program, as well as supporting local government efforts to monitor progress towards Regional Growth Strategy objectives.

A first in North America!

CEEI is a first in North America and a first step for BC communities. The 2010 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. Improvements have been made from the original draft 2007 CEEI Reports posted in Spring 2009. These include estimates for residential heating oil, propane and wood use, breaking out small from large industrial buildings, including updated land-use change and new agricultural sectors as 'memo items'. Following the 2010 CEEI Reports, inventories will be generated every two years, and will continue to improve as government information needs, international protocols and new data sources emerge.

For More Information

The full list of all BC local government 2010 CEEI Reports, User Guide, Technical Methods and Guidance Document, and additional information on the Supporting Indicators are available at: http://www.env.gov.bc.ca/cas/mitigation/ceei/index.html For guidance on target setting and community actions, go to http://www.toolkit.bc.ca and

We Need Your Feedback

To continue to guide us on CEEI, please take the time to contact us directly 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 and the data providers 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. We need your help to make these reports better,