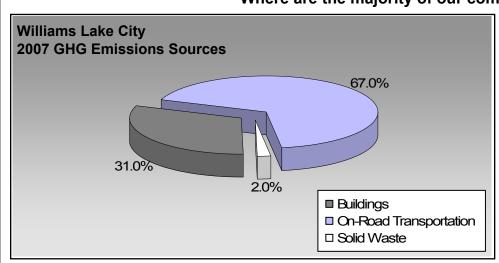
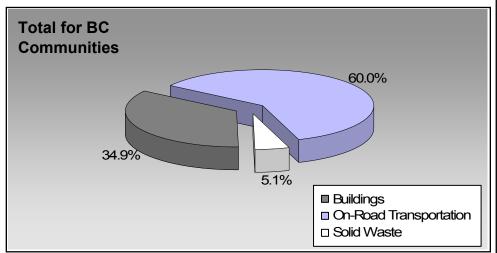


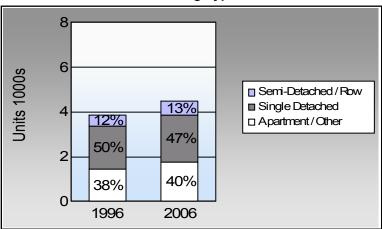
BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities

Where are the majority of our community's emissions coming from?





Are we living more compactly? Housing Type



In BC, single family detached housing made up 49% of housing in 2006.

Are we driving less? Commute To Work

	1996	2006
	73.7%	74.3%
	10.5%	11.3%
	0.7%	1.3%
ķ	12.1%	9.6%
%	1.1%	1.9%

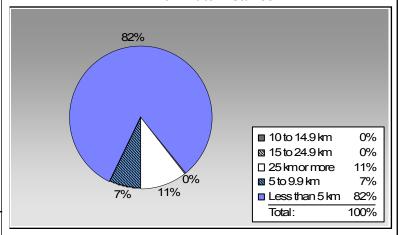
In BC, 10% of people took transit, 7% walked, and 2% cycled to work in 2006.

Residential Density

Williams Lake City: 4.7 people per net ha

BC municipal average: 7.4 people per net ha

Are we living closer to where we work? Commute Distance



In BC, 41% of people lived within 5km of their work in 2006.

For more information and to provide feedback on your Community Energy and Emissions Inventory (CEEI) Report see back page.



Sectors

On Road Transport	ation	Vehicles	Consumption	Measurement	Average-VKT(km)	Energy (GJ)	CO2e (t)
Small Passenger Cars	Gasoline	1,907	2,873,065	Litres	14,651	100,557	6,848
	Diesel Fuel	42	46,841	Litres	15,061	1,794	128
	Other Fuel	< 10	660	Litres		25	1
				Small Pa	ssenger Cars	102,376	6,977
Large Passenger Cars	Gasoline	1,136	2,682,376	Litres	18,928	93,883	6,365
	Diesel Fuel	28	72,923	Litres	20,684	2,793	199
	Other Fuel	< 10	8,457	Litres	15,247	324	13
				Large Pa	assenger Cars	97,000	6,577
Light Trucks, Vans, SUVs	Gasoline	3,555	11,500,613	Litres	20,241	402,521	27,513
	Diesel Fuel	610	1,704,568	Litres	21,430	65,285	4,657
	Other Fuel	30	94,759	Litres	13,810	3,629	145
				Light Tro	ucks, Vans, SUVs	471,435	32,315
Commercial Vehicles	Gasoline	34	135,351	Litres	13,052	4,737	316
	Diesel Fuel	166	764,767	Litres	20,962	29,291	2,058
	Other Fuel	10	41,050	Litres	13,275	1,572	63
				Commer	cial Vehicles	35,600	2,437
Tractor Trailer Trucks	Gasoline	10	49,063	Litres	12,974	1,717	115
	Diesel Fuel	312	10,574,482	Litres	85,379	405,003	28,455
	Other Fuel	< 10	6,546	Litres	7,085	251	10
				Tractor ⁻	Trailer Trucks	406,971	28,580
Motorhomes	Gasoline	54	74,117	Litres	2,781	2,594	173
	Diesel Fuel	13	10,779	Litres	3,832	413	29
	Other Fuel	< 10	4,707	Litres	2,189	180	7
				Motorho	mes	3,187	209
Motorcycles, Mopeds	Gasoline	76	40,071	Litres	4,832	1,402	94
				Motorcy	cles, Mopeds	1,402	94
Bus	Gasoline	12	126,568	Litres	25,019	4,430	298
	Diesel Fuel	81	736,296	Litres	20,881	28,200	1,981
	Other Fuel	< 10	885	Litres		34	1
				Bus		32,664	2,280



	Gasoline:	611,841	41,722
	Diesel:	532,779	37,507
	Other Fuel:	6,015	240
On Road Transportation Totals	All Fuels:	1,150,635	79,469

Buildings	Type	Connections	Consumption	Measurement	Energy (GJ)	<u>CO2e (t)</u>
Residential	Electricity	4,590	42,287,656	Kilowatt Hours	152,235	1,043
	Natural Gas	3,382	303,187	GigaJoules	303,187	15,463
	Heating Oil		10,435	GigaJoules	10,435	736
	Propane		28,412	GigaJoules	28,412	1,733
	Wood		60,963	GigaJoules	60,963	23
			Residential		555,232	18,998
Commercial/Small-Medium Industrial	Electricity	1,145	87,260,716	Kilowatt Hours	314,138	2,152
	Natural Gas	763	305,239	GigaJoules	305,239	15,567
			Commercial/Sma	III-Medium Industrial	619,377	17,719
			Electri	city:	466,373	3,195
			Natura	al Gas:	608,426	31,030
			Propa	ne:	28,412	1,733
			Wood		60,963	23
			Heatir	ng Oil:	10,435	736
Buildings Totals			Buildi	ngs:	1,174,609	36,717

Solid Waste		Mass (t)	CO2e (t)
	Community Solid Waste	5,976	2,417



Grand Total		CONSUMPTION		ENERGY (GJ)	<u>CO2e (t)</u>
	Diesel Fuel	13,910,656	ı	532,779	37,507
	Electricity	129,548,372	_	466,373	3,195
	Gasoline	17,481,224	L	611,841	41,722
	Heating Oil	10,435	GJ	10,435	736
	Natural Gas	608,426	GJ	608,426	31,030
	Other Fuel	157,064	L	6,015	240
	Propane	28,412	GJ	28,412	1,733
	Solid Waste	5,976	T	0	2,417
	Wood	60,963	GJ	60,963	23
Total of Transportation / E	Buildings / Solid Waste:			2,325,244 GJ	118,603 tonnes

Memo Items

Buildings	<u>Type</u>	Connections	Consumption	Measurement	Energy (GJ)	CO2e (t)
Large Industrial	Electricity	5	withheld	Kilowatt Hours	-	-
	Natural Gas	10	696,091	GigaJoules	696,091	35,501
			Large Industrial		696,091	35,501



Supporting Indicators

Below you will find supporting indicators for which data is provided. These are the first five supporting indicators for which data is provided as a part of the updated 2007 CEEI. Columns with all zeros indicate data unavailable in these CEEI reports. Thirteen additional supporting indicators are under consideration for future reports (see next page). Local government feedback is requested on all supporting indicators. Please take the time to complete the short CEEI Survey at http://www.env.gov.bc.ca/cas/mitigation/ceei/index.html or contact us directly at CEEIRPT@gov.bc.ca

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	1,925	33	2,135	49	2,100	47
Semi-Detached House	170	3	210	5	235	5
Row House	300	5	355	8	350	8
Apartment, Duplex	220	4	330	8	390	9
Apartment, 5 storeys or higher	0	0	0	0	0	0
Apartment, under 5 storeys	770	13	785	18	825	19
Other Single Attached House	30	1	15	0	30	1
Movable Dwelling	440	8	500	12	530	12

Residential Density

* Net of Crown land, parks, Indian Reserves, water features, airports, ALR,waste disposal sites.

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
Population	11,090.0
Net Land Area (ha) *	2,366.2
Residential Density (people per net h	a) 4.7

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.

	199	6	200	01	200	6	
	People	%	People	%	People	%	
Car, Truck, Van as Driver	3,665	74	3,915	79	3,765	74	
Car, Truck, Van as Passenge	520	10	280	6	570	11	
Public Transit	35	1	25	1	65	1	
Walked	600	12	580	12	485	10	
Bicycle	55	1	65	1	95	2	
Motorcycle	10	0	10	0	20	0	
Taxicab	10	0	0	0	0	0	
Other Method	80	2	50	1	65	1	

Commute Distance

Shorter commute distances generally reduce GHG emissions by increasing the likelihood of people walking, cycling or using transit. Commute distance is also indicative of the 'completeness' of a community from an employment perspective.

2006						
	People	%				
Less than 5 km	3,760	82				
5 to 9.9 km	335	7				
10 to 14.9 km	10	0				
15 to 24.9 km	0	0				
25 km or more	490	11				



Parks and Protected Greenspace

- * Total is net of Indian Reserves
- ** The quantity of parkland may be underestimated

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

National Parks	200		
	Area (ha)	%	
National Parks	0.0	0.0	
Provincial Parks / Protected Areas	0.0	0.0	
Local Parks	47.0	1.5	
Agricultural Land Reserve	185.9	5.9	
Other land use	2,905.4	92.6	
Total Land Area	3,138.3	100.0	





Supporting Indicators Under Consideration

The following supporting indicators are under consideration for inclusion in future CEEI reports. The 2007 CEEI reports provide these 'placeholder' indicators to give indication of data that may be provided in the future by the Province on an ongoing basis to assist in monitoring actions to reduce GHG emissions and energy consumption. Please submit feedback to CEEIRPT@gov.bc.ca (see survey on CEEI website).

On-Road Transportation (and Land Use)

Proximity to Transit Persons, dwelling units (du) and employment within 400m of a quality transit stop/line

Proximity to Services Persons and dwelling units (du) within 400m of services (e.g. grocery store, school, other retail etc.)

Transit Ridership Annual per capita transit ridership

Buildings

Residential; Public Building

Energy Intensity

Floor Space

Average energy use per person per square metre of floor space

Average residential dwelling unit size

Solid Waste (and Water)

Waste Diversion Tonnes of waste diverted

Avoided Waste Emissions Tonnes of CO2e of avoided future emissions due to reduced waste since 2007

Water Use Per capita residential water use

Land-Use Change

Impervious Surface Cover % change in impervious surface cover

Tree Canopy Cover % change in tree canopy cover

Community and Renewable Energy Supply

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)



Page 8 of 8 June 30, 2010

This is your local government's Updated 2007 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 every two years. 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?

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, and fulfill Milestone One requirements for those local government members of the Federation of Canadian Municipalities' (FCM's) Partners in Climate Protection (PCP) program.

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. 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 and medium from large industrial buildings, including updated land-use change and new agricultural sectors as 'memo items', and the first of a suite of 'supporting indicators'. 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 Updated 2007 CEEI Reports, CEEI Data Summary Report, Technical Methods and Guidance Document, and additional information on the Secondary 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.cd.gov.bc.ca/lgd/greencommunities/targets.htm.

We Need Your Feedback:

- To continue to guide us on CEEI, particularly now with the new Indicators. Please take the time to complete the short CEEI Survey at http://www.env.gov.bc.ca/cas/mitigation/ceei/index.html or 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, where you do note inaccuracies, please contact us.