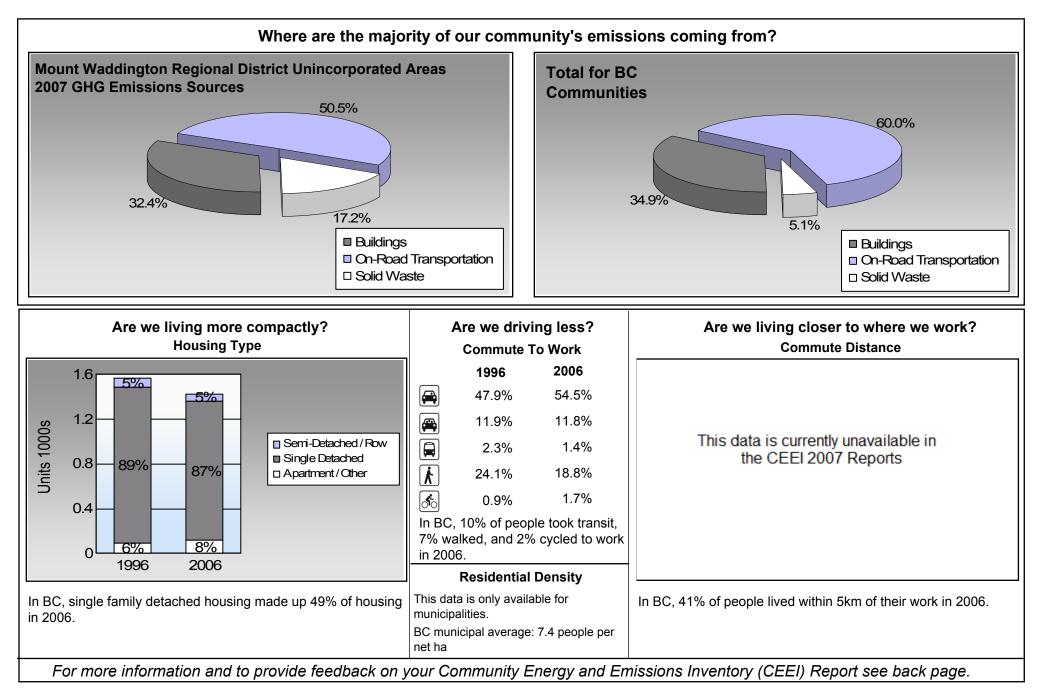


BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities





Sectors

On Road Transport	ation	<u>Vehicles</u>	Consumption	Measurement	Average-VKT(km)	Energy (GJ)	<u>CO2e (t)</u>
Small Passenger Cars	Gasoline	355	477,538	Litres	13,247	16,714	1,143
-	Diesel Fuel	24	23,778	Litres	14,362	911	65
	Other Fuel	0	0	Litres	0	-	-
				Small Pa	assenger Cars	17,625	1,208
Large Passenger Cars	Gasoline	208	451,777	Litres	17,334	15,812	1,077
	Diesel Fuel	< 10	9,727	Litres	16,497	373	26
	Other Fuel	< 10	4,207	Litres	15,100	161	6
				Large Pa	assenger Cars	16,346	1,109
Light Trucks, Vans, SUVs	Gasoline	971	2,892,420	Litres	19,963	101,235	6,944
	Diesel Fuel	123	295,893	Litres	19,500	11,333	808
	Other Fuel	< 10	18,675	Litres	13,527	715	29
				Light Trucks, Vans, SUVs		113,283	7,781
Commercial Vehicles	Gasoline	20	83,375	Litres	17,777	2,918	196
	Diesel Fuel	30	135,104	Litres	21,164	5,174	364
	Other Fuel	< 10	2,873	Litres	11,878	110	4
				Commercial Vehicles		8,202	564
Tractor Trailer Trucks	Gasoline	< 10	2,380	Litres	9,299	83	6
	Diesel Fuel	24	408,851	Litres	59,738	15,659	1,100
	Other Fuel	0	0	Litres	0	-	-
			Tractor Trailer Trucks			15,742	1,106
Motorhomes	Gasoline	21	15,044	Litres	2,624	527	35
	Diesel Fuel	< 10	2,151	Litres	5,558	82	6
	Other Fuel	< 10	415	Litres		16	1
				Motorho	omes	625	42
Motorcycles, Mopeds	Gasoline	24	7,927	Litres	4,619	277	19
				Motorcy	cles, Mopeds	277	19
Bus	Gasoline	< 10	4,389	Litres	17,486	154	10
	Diesel Fuel	< 10	152,502	Litres	23,435	5,841	410
	Other Fuel	0	0	Litres	0	-	-
				Bus		5,995	420



Page 3 of 8 June 30, 2010

		Gasoline:			9,430	
			Diese	:	39,373	2,779
			Other	Fuel:	1,002	40
On Road Transportation Totals			All Fu	uels:	178,095	12,249
Buildings	Type	Connections	Consumption	Measurement	Energy (GJ)	<u>CO2e (t)</u>
Residential	Electricity	1,704	26,884,086	Kilowatt Hours	96,783	664
	Heating Oil		88,247	GigaJoules	88,247	6,221
	Propane		15,177	GigaJoules	15,177	926
	Wood		107,939	GigaJoules	107,939	40
			Residential		308,146	7,851
Commercial/Small-Medium Industrial	Electricity	352	0	Kilowatt Hours	-	-
	Natural Gas	0	0	GigaJoules	-	-
			Commercial/Sma	II-Medium Industrial	-	-
			Electri	city:	96,783	664
			Natura	Il Gas:	-	-
			Propa	ne:	15,177	926
			Wood		107,939	40
			Heatir	g Oil:	88,247	6,221
Buildings Totals			Buildi	ngs:	308,146	7,851
Solid Waste					Mass (t)	<u>CO2e (t)</u>
			Comm	unity Solid Waste	3,485	4,164



Total of Transportation / Buildings / Solid Waste:				486,241 GJ	24,264 tonnes
	Wood	107,939	GJ	107,939	40
	Solid Waste	3,485	Т	0	4,164
	Propane	15,177	GJ	15,177	926
	Other Fuel	26,170	L	1,002	40
	Natural Gas	0	GJ	0	0
	Heating Oil	88,247	GJ	88,247	6,221
	Gasoline	3,934,850	L	137,720	9,430
	Electricity	26,884,086	kWh	96,783	664
	Diesel Fuel	1,028,006	L	39,373	2,779
Grand Total		CONSUMPTION		ENERGY (GJ)	<u>CO2e (t)</u>

Memo Items

Buildings	Туре	Connections	Consumption	Measurement	Energy (GJ)	<u>CO2e (t)</u>
Large Industrial	Electricity	0	0	Kilowatt Hours	-	-
	Natural Gas	0	0	GigaJoules	-	-
			Lar	ge Industrial	-	-



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/cas/mitigation/ceei/index.html or

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	2001		
	Units	%	Units	%	Units	%
Single Detached House	1,395	28	1,205	81	1,245	87
Semi-Detached House	55	1	30	2	50	4
Row House	25	1	45	3	15	1
Apartment, Duplex	5	0	15	1	10	1
Apartment, 5 storeys or higher	5	0	0	0	5	0
Apartment, under 5 storeys	15	0	10	1	10	1
Other Single Attached House	0	0	5	0	10	1
Movable Dwelling	65	1	170	11	80	6

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		20	2001		2006	
	People	%	People	%	People	%	
Car, Truck, Van as Driver	845	48	825	57	785	55	
Car, Truck,Van as Passenge	210	12	165	11	170	12	
Public Transit	40	2	50	3	20	1	
Walked	425	24	305	21	270	19	
Bicycle	15	1	15	1	25	2	
Motorcycle	0	0	0	0	5	0	
Taxicab	10	1	0	0	10	1	
Other Method	230	13	90	6	155	11	

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

This data is currently unavailable in the CEEI 2007 Reports.

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 %

This data is currently unavailable in the CEEI 2007 Reports.



Parks and Protected Greenspace	 * Total is net of Indian Re ** The quantity of parkland 	
Parks and protected greenspaces are enhancement of community carbon sin		tection and
	2009	
	Area (ha)	%

National Parks	0.0	0.0	
Provincial Parks / Protected Areas	192,772.8	9.4	
Local Parks	14.5	0.0	
Agricultural Land Reserve	2,027.1	0.1	
Other land use	1,866,399.8	90.6	
Other land use Total Land Area	2,061,214.2	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 <u>CEEIRPT@gov.bc.ca</u> (see survey on CEEI website).

ergy type (e.g.
iomass, solar



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 (<<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, 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 <<u>http://www.toolkit.bc.ca></u> and <<u>http://www.cd.gov.bc.ca/lgd/greencommunities/targets.htm></u>.

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/cas/mitigation/ceei/index.html or contact us directly at http://www.env.gov.bc.ca/cas/mitigation/ceei/index.html or contact us directly at http://www.env.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.