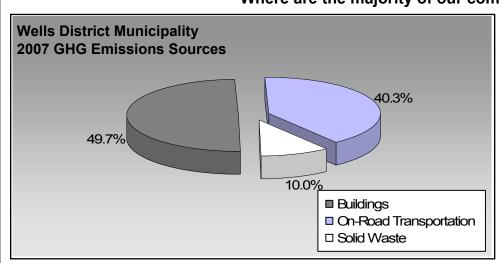
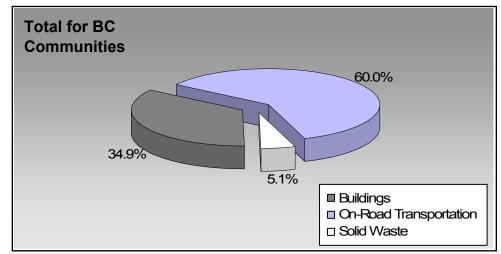


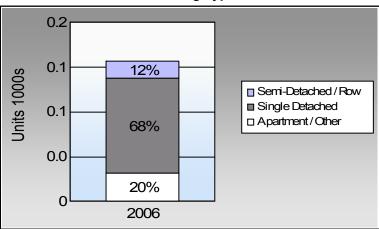
BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities

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
	0.0%	55.6%
	0.0%	25.9%
	0.0%	0.0%
ķ	0.0%	18.5%
	0.0%	0.0%

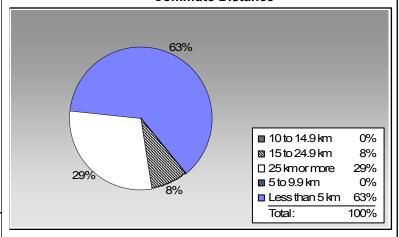
In BC, 10% of people took transit, 7% walked, and 2% cycled to work in 2006.

Residential Density

Wells District Municipality: 0.1 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)	<u>CO2e (t)</u>
Small Passenger Cars	Gasoline	17	23,381	Litres	12,714	818	57
	Diesel Fuel	< 10	355	Litres		14	1
				Small Pa	assenger Cars	832	58
Large Passenger Cars	Gasoline	< 10	13,903	Litres	16,490	487	34
				Large P	assenger Cars	487	34
Light Trucks, Vans, SUVs	Gasoline	35	111,362	Litres	17,770	3,898	271
	Diesel Fuel	< 10	8,183	Litres	15,118	313	22
	Other Fuel	< 10	2,362	Litres		90	4
				Light Tr	ucks, Vans, SUVs	4,301	297
Commercial Vehicles	Gasoline	< 10	2,873	Litres	11,356	101	7
				Comme	rcial Vehicles	101	7
Motorhomes	Gasoline	< 10	415	Litres		15	1
				Motorho	omes	15	1
Motorcycles, Mopeds	Gasoline	< 10	131	Litres		5	-
				Motorcy	cles, Mopeds	5	-
				0 "		E 204	270
				Gasoline	9:	5,324	370
				Diesel:		327	23
				Other Fu	uel:	90	4
On Road Transportation To	otals			All Fuel	s:	5,741	397



Buildings	<u>Type</u>	Connections	Consumption	<u>Measurement</u>	Energy (GJ)	<u>CO2e (t)</u>
Residential	Electricity	199	2,001,115	Kilowatt Hours	7,204	49
	Heating Oil		1,733	GigaJoules	1,733	122
	Propane		4,712	GigaJoules	4,712	287
	Wood		10,135	GigaJoules	10,135	4
			Residential		23,784	462
Commercial/Small-Medium Industrial	Electricity	47	1,119,650	Kilowatt Hours	4,031	28
			Commercial/Sma	II-Medium Industrial	4,031	28
			Electri	city:	11,235	77
			Natura	al Gas:		
			Propa	ne:	4,712	287
		Wood:			10,135	4
		Heating Oil:			1,733	122
Buildings Totals		Buildings:			27,815	490

Solid Waste		Mass (t)	<u>CO2e (t)</u>
	Community Solid Waste	130	99

Grand Total		CONSUMPTION		ENERGY (GJ)	<u>CO2e (t)</u>
	Diesel Fuel	8,538	L	327	23
	Electricity	3,120,765	kWh	11,235	77
	Gasoline	152,065	L	5,324	370
	Heating Oil	1,733	GJ	1,733	122
	Other Fuel	2,362	L	90	4
	Propane	4,712	GJ	4,712	287
	Solid Waste	130	T	0	99
	Wood	10,135	GJ	10,135	4
Total of Transportation / Bu	ildings / Solid Waste:			33,556 GJ	986 tonnes



Memo Items

Buildings	Type	Connections	Consumption	Measurement	Energy (GJ)	CO2e (t)
Large Industrial	Electricity	0	0	Kilowatt Hours	-	-
		Large 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

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	3	200	1	200	6	
	Units	%	Units	%	Units	%	
Single Detached House			100	77	85	68	
Semi-Detached House			0	0	0	0	
Row House			20	15	15	12	
Apartment, Duplex			0	0	5	4	
Apartment, 5 storeys or higher			0	0	0	0	
Apartment, under 5 storeys			10	8	10	8	
Other Single Attached House			0	0	5	4	
Movable Dwelling			0	0	5	4	

Residential Density Increasing residential of

* 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	257.0
Net Land Area (ha) *	3,268.5
Residential Density (people	per net ha) 0.1

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		06	
	People	%	People	%	People	%	
Car, Truck, Van as Driver	0	0	45	50	75	56	
Car, Truck,Van as Passenge	0	0	0	0	35	26	
Public Transit	0	0	0	0	0	0	
Walked	0	0	35	39	25	19	
Bicycle	0	0	10	11	0	0	
Motorcycle	0	0	0	0	0	0	
Taxicab	0	0	0	0	0	0	
Other Method	0	0	0	0	0	0	

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.

	200	06	
	People	%	
Less than 5 km	75	63	
5 to 9.9 km	0	0	
10 to 14.9 km	0	0	
15 to 24.9 km	10	8	
25 km or more	35	29	



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	09	
	Area (ha)	%	
National Parks	0.0	0.0	
Provincial Parks / Protected Areas	0.0	0.0	
Local Parks	0.0	0.0	
Agricultural Land Reserve	0.0	0.0	
Local Parks Agricultural Land Reserve Total Land Area	15,889.8	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.