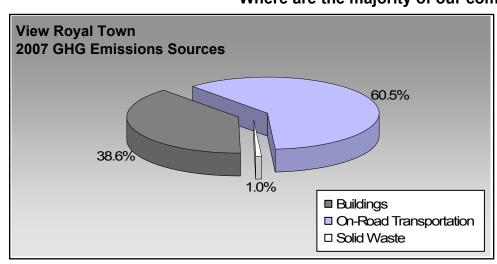
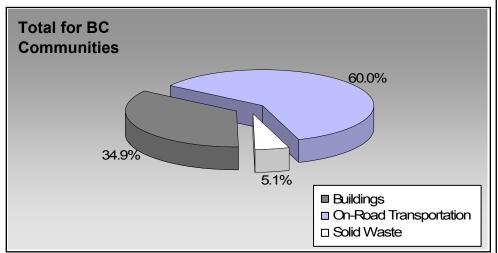


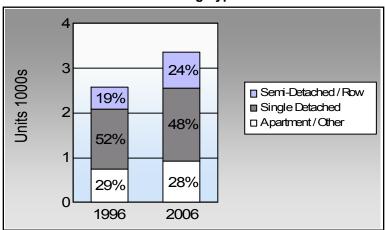
BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities

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
	76.4%	76.1%
	5.1%	5.0%
	11.3%	9.9%
ķ	2.6%	2.4%
%	3.7%	4.7%

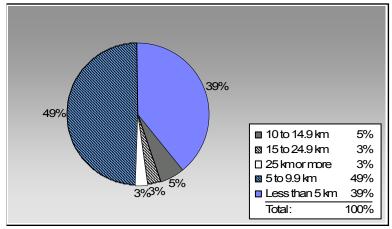
In BC, 10% of people took transit, 7% walked, and 2% cycled to work in 2006.

Residential Density

View Royal Town: 11.1 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)	CO2e (t)
Small Passenger Cars	Gasoline	2,164	2,342,212	Litres	10,803	81,977	5,593
	Diesel Fuel	67	51,647	Litres	11,622	1,978	141
	Other Fuel	< 10	2,172	Litres	9,350	83	3
				Small Pa	ssenger Cars	84,038	5,737
Large Passenger Cars	Gasoline	964	1,436,118	Litres	12,198	50,264	3,417
	Diesel Fuel	11	15,857	Litres	11,900	607	43
	Other Fuel	< 10	7,468	Litres	14,215	286	11
				Large Pa	assenger Cars	51,157	3,471
Light Trucks, Vans, SUVs	Gasoline	2,216	3,970,925	Litres	12,443	138,982	9,498
	Diesel Fuel	127	223,753	Litres	13,755	8,570	611
	Other Fuel	12	23,949	Litres	9,601	917	37
				Light Tr	ıcks, Vans, SUVs	148,469	10,146
Commercial Vehicles	Gasoline	< 10	11,374	Litres	9,973	398	27
	Diesel Fuel	23	75,944	Litres	14,572	2,909	204
	Other Fuel	< 10	3,232	Litres		124	5
				Comme	cial Vehicles	3,431	236
Tractor Trailer Trucks	Diesel Fuel	29	822,882	Litres	64,543	31,516	2,214
				Tractor [*]	Trailer Trucks	31,516	2,214
Motorhomes	Gasoline	72	70,039	Litres	2,876	2,451	164
	Diesel Fuel	11	8,106	Litres	3,258	310	22
				Motorho	mes	2,761	186
Motorcycles, Mopeds	Gasoline	188	62,906	Litres	5,311	2,202	147
				Motorcy	cles, Mopeds	2,202	147
Bus	Gasoline	< 10	14,630	Litres	15,902	512	34
				Bus		512	34
				Occalian		276,786	18,880
				Gasoline			
				Diesel:		45,890	3,235
				Other Fu	el:	1,410	56
On Road Transportation To	otals			All Fuel	s:	324,086	22,171



Buildings	<u>Type</u>	Connections	Consumption	<u>Measurement</u>	Energy (GJ)	CO2e (t)
Residential	Electricity	3,638	51,173,622	Kilowatt Hours	184,225	1,262
	Natural Gas	1,251	63,234	GigaJoules	63,234	3,225
	Heating Oil		22,912	GigaJoules	22,912	1,615
	Propane		3,959	GigaJoules	3,959	242
			Residential		274,330	6,344
Commercial/Small-Medium Industrial	Electricity	301	31,391,197	Kilowatt Hours	113,008	774
	Natural Gas	84	137,865	GigaJoules	137,865	7,031
			Commercial/Sma	II-Medium Industrial	250,873	7,805
			Electri	city:	297,233	2,036
			Natura	al Gas:	201,099	10,256
			Propa	ne:	3,959	242
			Wood			
			Heatir	g Oil:	22,912	1,615
Buildings Totals			Buildi	ngs:	525,203	14,149

Solid Waste		Mass (t)	CO2e (t)
	Community Solid Waste	1,326	349

Grand Total		CONSUMPTION		ENERGY (GJ)	<u>CO2e (t)</u>
	Diesel Fuel	1,198,189	L	45,890	3,235
	Electricity	82,564,819	kWh	297,233	2,036
	Gasoline	7,908,204	L	276,786	18,880
	Heating Oil	22,912	GJ	22,912	1,615
	Natural Gas	201,099	GJ	201,099	10,256
	Other Fuel	36,821	L	1,410	56
	Propane	3,959	GJ	3,959	242
	Solid Waste	1,326	T	0	349
Total of Transportation / Buildin	gs / Solid Waste:			849,289 GJ	36,669 tonnes



Memo Items

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

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.

	199	6	200	1	2006	3	
	Units	%	Units	%	Units	%	
Single Detached House	1,335	34	1,620	54	1,620	48	
Semi-Detached House	80	2	130	4	155	5	
Row House	410	10	540	18	645	19	
Apartment, Duplex	290	7	175	6	530	16	
Apartment, 5 storeys or higher	0	0	10	0	0	0	
Apartment, under 5 storeys	280	7	365	12	350	10	
Other Single Attached House	0	0	10	0	15	0	
Movable Dwelling	185	5	170	6	35	1	

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	9,583.0
Net Land Area (ha) *	863.6
Residential Density (people per	net ha) 11.1

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		2006	
	People	%	People	%	People	%	
Car, Truck, Van as Driver	2,375	76	2,705	75	3,430	76	
Car, Truck,Van as Passenge	160	5	260	7	225	5	
Public Transit	350	11	350	10	445	10	
Walked	80	3	115	3	110	2	
Bicycle	115	4	100	3	210	5	
Motorcycle	10	0	45	1	40	1	
Taxicab	0	0	20	1	10	0	
Other Method	20	1	20	1	40	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.

	200	06	
	People	%	
Less than 5 km	1,440	39	
5 to 9.9 km	1,805	49	
10 to 14.9 km	200	5	
15 to 24.9 km	115	3	
25 km or more	100	3	



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	9	
	Area (ha)	%	
National Parks	0.0	0.0	
Provincial Parks / Protected Areas	0.0	0.0	
Local Parks	589.4	39.5	
Local Parks Agricultural Land Reserve	16.1	1.1	
Other land use	888.6	59.5	
Total Land Area	1,494.1	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.