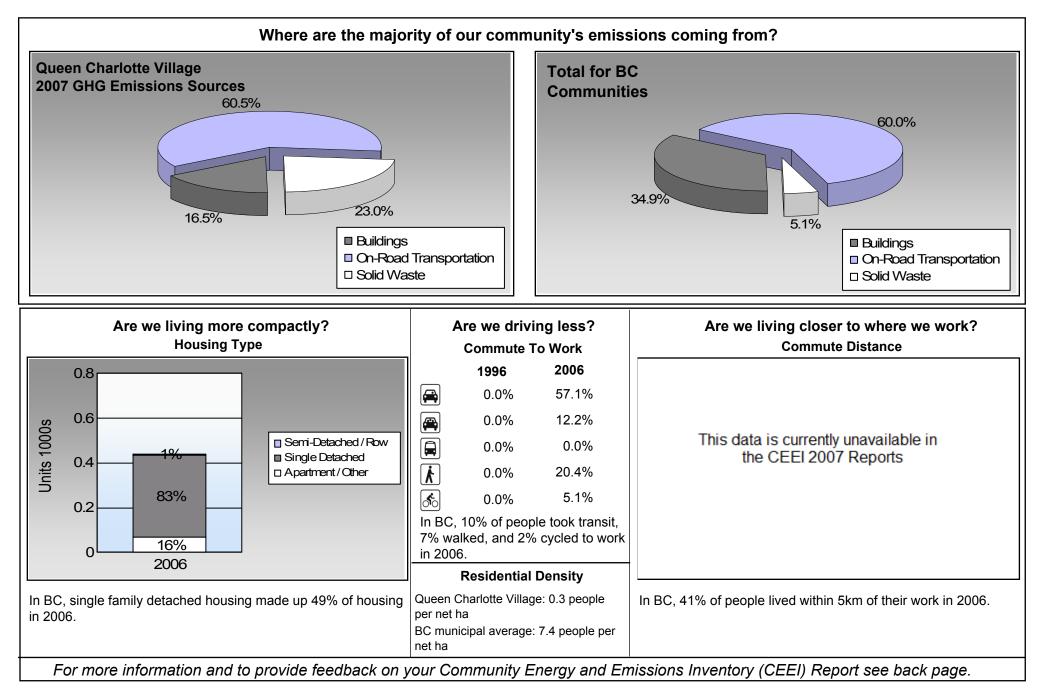


BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities





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Sectors

On Road Transport	ation	<u>Vehicles</u>	Consumption	<u>Measurement</u>	Average-VKT(km)	Energy (GJ)	<u>CO2e (t)</u>
Small Passenger Cars	Gasoline	124	160,923	Litres	13,086	5,632	385
	Diesel Fuel	11	9,125	Litres	13,273	350	25
				Small Pa	assenger Cars	5,982	410
Large Passenger Cars	Gasoline	50	107,462	Litres	17,612	3,761	255
	Diesel Fuel	< 10	9,553	Litres	17,504	366	26
	Other Fuel	< 10	462	Litres		18	1
				Large Pa	assenger Cars	4,145	282
Light Trucks, Vans, SUVs	Gasoline	319	1,004,747	Litres	20,174	35,166	2,402
	Diesel Fuel	29	73,425	Litres	19,493	2,812	201
	Other Fuel	< 10	6,216	Litres	12,249	238	10
				Light Tr	ucks, Vans, SUVs	38,216	2,613
Commercial Vehicles	Gasoline	< 10	22,217	Litres	19,616	778	52
	Diesel Fuel	< 10	29,109	Litres	22,074	1,115	78
	Other Fuel	< 10	2,155	Litres		83	3
				Comme	rcial Vehicles	1,976	133
Tractor Trailer Trucks	Gasoline	< 10	595	Litres		21	1
	Diesel Fuel	13	286,840	Litres	50,612	10,986	772
				Tractor	Trailer Trucks	11,007	773
Motorhomes	Gasoline	< 10	5,953	Litres	2,189	208	14
				Motorho	omes	208	14
Motorcycles, Mopeds	Gasoline	15	5,487	Litres	6,639	192	13
				Motorcy	cles, Mopeds	192	13
Bus	Gasoline	< 10	24,312	Litres	21,119	851	57
				Bus		851	57
				Gasoline		46,609	3,179
				Diesel:		15,629	1,102
				Other Fu	el:	339	14
On Road Transportation To	otals			All Fuel	s:	62,577	4,295



Buildings	Туре	Connections	Consumption	Measurement	Energy (GJ)	<u>CO2e (t)</u>
Residential	Electricity	503	6,117,295	Kilowatt Hours	22,022	151
	Heating Oil		3,754	GigaJoules	3,754	265
	Propane		10,244	GigaJoules	10,244	625
	Wood		27,688	GigaJoules	27,688	10
			Residential		63,708	1,051
Commercial/Small-Medium Industrial	Electricity	160	4,720,050	Kilowatt Hours	16,992	116
	Licetholdy			all-Medium Industrial	16,992	116
						0.07
			Electr	· · · · ·	39,014	267
				al Gas:	10 244	625
			Propa		10,244	
			Wood		27,688 3,754	10 265
			Heati	ng Oil:		
Buildings Totals			Build	ings:	80,700	1,167
Solid Waste					Mass (t)	<u>CO2e (t)</u>
			Comm	nunity Solid Waste	740	1,632
Grand Total			CONSUMPTION		ENERGY (GJ)	<u>CO2e (t)</u>
	sel Fuel		408,052	_	15,629	1,102
	ctricity		10,837,345		39,014	267
	Gasoline		1,331,696	-	46,609	3,179
	Heating Oil Other Fuel		3,754 8,833		3,754 339	265 14
	er Fuel pane		8,833 10,244	-	339 10,244	625
	id Waste		740		0	1,632
Wo			27,688		27,688	10
Total of Transportation / Buildings / S	olid Waste:	-			143,277 GJ	7,094 tonnes



Memo Items

Buildings	Туре	Connections	<u>Consumption</u>	Measurement	Energy (GJ)	<u>CO2e (t)</u>
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/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		2001		2006	•
	Units	%	Units	%	Units	%
Single Detached House					365	83
Semi-Detached House					5	1
Row House					0	0
Apartment, Duplex					25	6
Apartment, 5 storeys or higher					0	0
Apartment, under 5 storeys					35	8
Other Single Attached House					0	0
Movable Dwelling					10	2

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		200	2001		2006	
	People	%	People	%	People	%	
Car, Truck, Van as Driver	0	0	0	0	280	57	
Car, Truck,Van as Passenge	0	0	0	0	60	12	
Public Transit	0	0	0	0	0	0	
Walked	0	0	0	0	100	20	
Bicycle	0	0	0	0	25	5	
Motorcycle	0	0	0	0	0	0	
Taxicab	0	0	0	0	0	0	
Other Method	0	0	0	0	25	5	

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	961.0	
Net Land Area (ha) *	3,541.1	
Residential Density (people pe	er net ha) 0.3	

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 Reserves

** The quantity of parkland may be underestimated Parks and protected greenspaces are important for the protection and enhancement of community carbon sinks. 2009

	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	
Total Land Area	3,595.9	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).

On-Road Transportation (and Land Use) Proximity to Transit Persons, dwelling units (du) and employment within 400m of a guality 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 Average energy use per person per square metre of floor space Energy Intensity Average residential dwelling unit size Floor Space 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)



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

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.