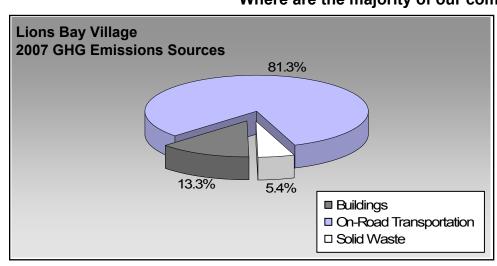
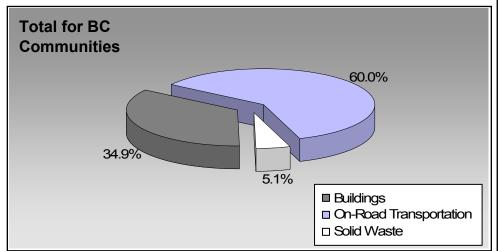


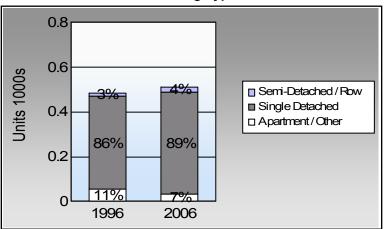
BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities

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
	91.5%	78.5%
	2.3%	9.5%
	3.1%	6.0%
ķ	1.5%	6.0%
%	1.5%	0.0%

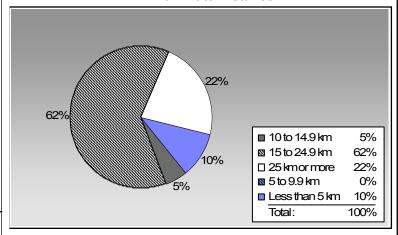
In BC, 10% of people took transit, 7% walked, and 2% cycled to work in 2006.

Residential Density

Lions Bay Village: 7.0 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	311	412,955	Litres	13,345	14,453	979
	Diesel Fuel	26	23,405	Litres	12,991	896	64
				Small Pa	assenger Cars	15,349	1,043
Large Passenger Cars	Gasoline	170	286,796	Litres	14,776	10,038	678
	Diesel Fuel	< 10	7,448	Litres	12,947	285	20
	Other Fuel	< 10	1,559	Litres	12,276	60	2
				Large Pa	assenger Cars	10,383	700
Light Trucks, Vans, SUVs	Gasoline	405	775,723	Litres	13,724	27,150	1,850
	Diesel Fuel	36	73,557	Litres	16,261	2,817	201
	Other Fuel	< 10	934	Litres		36	1
				Light Tr	ucks, Vans, SUVs	30,003	2,052
Commercial Vehicles	Gasoline	10	57,995	Litres	20,839	2,030	136
	Diesel Fuel	< 10	35,823	Litres	21,981	1,372	96
	Other Fuel	< 10	2,873	Litres	11,356	110	4
				Comme	rcial Vehicles	3,512	236
Tractor Trailer Trucks	Diesel Fuel	< 10	5,657	Litres	15,715	217	15
				Tractor [*]	Trailer Trucks	217	15
Motorhomes	Gasoline	< 10	7,248	Litres	3,233	254	17
	Diesel Fuel	< 10	447	Litres	2,189	17	1
				Motorho	omes	271	18
Motorcycles, Mopeds	Gasoline	< 10	5,431	Litres	5,638	190	13
				Motorcy	cles, Mopeds	190	13
				Gasoline	:	54,115	3,673
				Diesel:		5,604	397
				Other Fu	el:	206	7
On Road Transportation To	otals			All Fuel	s:	59,925	4,077



Buildings	<u>Type</u>	Connections	Consumption	<u>Measurement</u>	Energy (GJ)	<u>CO2e (t)</u>
Residential	Electricity	567	16,227,389	Kilowatt Hours	58,419	400
	Heating Oil		1,469	GigaJoules	1,469	104
	Propane		2,172	GigaJoules	2,172	133
			Residential		62,060	637
Commercial/Small-Medium Industrial	Electricity	45	1,233,101	Kilowatt Hours	4,439	30
			Commercial/Sma	II-Medium Industrial	4,439	30
			Electri	city:	62,858	430
			Natura Propa Wood:		2,172	133
			Heatir		1,469	104
Buildings Totals			Buildi	ngs:	66,499	667

Solid Waste		Mass (t)	<u>CO2e (t)</u>
	Community Solid Waste	741	270

Grand Total	CONSUMPTION		ENERGY (GJ)	<u>CO2e (t)</u>
Diesel Fuel	146,337	L	5,604	397
Electricity	17,460,490	kWh	62,858	430
Gasoline	1,546,148	L	54,115	3,673
Heating Oil	1,469	GJ	1,469	104
Other Fuel	5,366	L	206	7
Propane	2,172	GJ	2,172	133
Solid Waste	741	T	0	270
Total of Transportation / Buildings / Solid Waste:			126,424 GJ	5,014 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	2000	6	
	Units	%	Units	%	Units	%	
Single Detached House	415	46	500	95	455	89	
Semi-Detached House	0	0	0	0	0	0	
Row House	15	2	20	4	20	4	
Apartment, Duplex	40	4	0	0	30	6	
Apartment, 5 storeys or higher	0	0	0	0	0	0	
Apartment, under 5 storeys	15	2	5	1	5	1	
Other Single Attached House	0	0	0	0	0	0	
Movable Dwelling	0	0	0	0	0	0	

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	1,398.0
Net Land Area (ha) *	201.2
Residential Density (people per net	: ha) 7.0

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	20	01	200)6	
	People	%	People	%	People	%	
Car, Truck, Van as Driver	595	92	620	88	455	78	
Car, Truck,Van as Passenge	15	2	30	4	55	9	
Public Transit	20	3	20	3	35	6	
Walked	10	2	25	4	35	6	
Bicycle	10	2	0	0	0	0	
Motorcycle	0	0	0	0	0	0	
Taxicab	0	0	0	0	0	0	
Other Method	0	0	10	1	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)6	
	People	%	
Less than 5 km	50	10	
5 to 9.9 km	0	0	
10 to 14.9 km	25	5	
15 to 24.9 km	305	62	
25 km or more	110	22	



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.

	200	09	
	Area (ha)	%	
National Parks	0.0	0.0	
Provincial Parks / Protected Areas	0.0	0.0	
Local Parks	1.3	0.5	
Agricultural Land Reserve	0.0	0.0	
Other land use	269.4	99.5	
Total Land Area	270.6	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)



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.