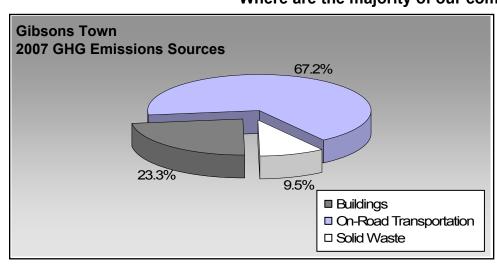
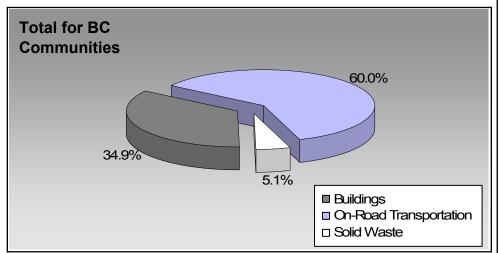


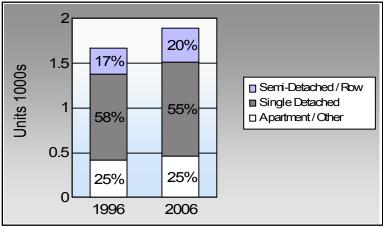
BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities

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
	63.3%	65.9%
	14.0%	8.7%
	6.6%	10.8%
\(\bar{\lambda}\)	14.7%	11.8%
%	0.0%	0.6%

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

Residential Density

Gibsons Town: 11.2 people per net

BC municipal average: 7.4 people per net ha

Are we living closer to where we work? Commute Distance

This data is currently unavailable in the CEEI 2007 Reports

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	1,022	1,311,512	Litres	12,500	45,903	3,141
	Diesel Fuel	24	23,640	Litres	12,728	905	65
				Small Pa	assenger Cars	46,808	3,206
Large Passenger Cars	Gasoline	550	1,180,138	Litres	16,903	41,305	2,814
	Diesel Fuel	16	34,589	Litres	17,074	1,325	94
	Other Fuel	< 10	6,557	Litres	15,095	251	10
				Large Pa	assenger Cars	42,881	2,918
Light Trucks, Vans, SUVs	Gasoline	1,481	4,295,144	Litres	19,594	150,330	10,310
	Diesel Fuel	86	204,768	Litres	17,710	7,843	559
	Other Fuel	20	43,185	Litres	13,487	1,654	66
				Light Tr	ucks, Vans, SUVs	159,827	10,935
Commercial Vehicles	Gasoline	11	33,883	Litres	12,751	1,186	79
	Diesel Fuel	39	173,509	Litres	22,354	6,645	467
	Other Fuel	< 10	14,386	Litres	12,643	551	22
				Comme	cial Vehicles	8,382	568
Tractor Trailer Trucks	Diesel Fuel	41	806,086	Litres	48,684	30,873	2,169
	Other Fuel	< 10	2,380	Litres		91	4
				Tractor [*]	Trailer Trucks	30,964	2,173
Motorhomes	Gasoline	33	44,038	Litres	3,340	1,541	103
	Diesel Fuel	< 10	10,981	Litres	5,420	421	30
	Other Fuel	< 10	138	Litres		5	-
				Motorho	mes	1,967	133
Motorcycles, Mopeds	Gasoline	44	20,589	Litres	4,938	721	48
				Motorcy	cles, Mopeds	721	48
Bus	Gasoline	< 10	39,809	Litres	21,154	1,393	94
	Diesel Fuel	< 10	26,701	Litres	48,992	1,023	72
	Other Fuel	< 10	7,315	Litres	15,902	280	11_
				Bus		2,696	177



	Gasoline:	242,379	16,589
	Diesel: Other Fuel:	49,035 2,832	3,456 113
On Road Transportation Totals	All Fuels:	294,246	20,158

Buildings	<u>Type</u>	Connections	Consumption	<u>Measurement</u>	Energy (GJ)	CO2e (t)
Residential	Electricity	2,181	27,923,305	Kilowatt Hours	100,524	689
	Natural Gas	971	54,294	GigaJoules	54,294	2,769
	Heating Oil		2,433	GigaJoules	2,433	172
	Propane		5,139	GigaJoules	5,139	314
			Residential		162,390	3,944
Commercial/Small-Medium Industrial	Electricity	462	22,308,385	Kilowatt Hours	80,310	550
	Natural Gas	141	48,796	GigaJoules	48,796	2,489
			Commercial/Sma	III-Medium Industrial	129,106	3,039
			Electri	city:	180,834	1,239
			Natura	al Gas:	103,090	5,258
			Propa	ne:	5,139	314
			Wood			
			Heatir	ıg Oil:	2,433	172
Buildings Totals			Buildi	ngs:	291,496	6,983

Solid Waste		Mass (t)	CO2e (t)
	Community Solid Waste	2,241	2,853



Grand Total	CONSUMPTION		ENERGY (GJ)	<u>CO2e (t)</u>
Diesel Fuel	1,280,274	L	49,035	3,456
Electricity	50,231,690	kWh	180,834	1,239
Gasoline	6,925,113	L	242,379	16,589
Heating Oil	2,433	GJ	2,433	172
Natural Gas	103,090	GJ	103,090	5,258
Other Fuel	73,961	L	2,832	113
Propane	5,139	GJ	5,139	314
Solid Waste	2,241	T	0	2,853
Total of Transportation / Buildings / Solid Waste:			585,742 GJ	29,994 tonnes

Memo Items

Buildings	<u>Type</u>	Connections	Consumption	Measurement	Energy (GJ)	<u>CO2e (t)</u>
Large Industrial	Electricity	0	0	Kilowatt Hours	-	-
	Natural Gas	1	withheld	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

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	960	37	1,050	58	1,045	55	
Semi-Detached House	95	4	120	7	145	8	
Row House	195	7	195	11	230	12	
Apartment, Duplex	75	3	110	6	75	4	
Apartment, 5 storeys or higher	0	0	5	0	0	0	
Apartment, under 5 storeys	315	12	285	16	360	19	
Other Single Attached House	0	0	10	1	20	1	
Movable Dwelling	25	1	30	2	10	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.

	199	1996		2001		2006	
	People	%	People	%	People	%	
Car, Truck, Van as Driver	905	63	1,000	68	1,065	66	
Car, Truck, Van as Passenge	200	14	135	9	140	9	
Public Transit	95	7	65	4	175	11	
Walked	210	15	200	14	190	12	
Bicycle	0	0	15	1	10	1	
Motorcycle	0	0	0	0	0	0	
Taxicab	0	0	0	0	0	0	
Other Method	20	1	45	3	35	2	

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	4,448.0
Net Land Area (ha) *	396.5
Residential Density (people per ne	et ha) 11.2

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	%

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	33.4	7.4		
Agricultural Land Reserve	24.1	5.4		
Other land use	392.7	87.2		
Total Land Area	450.1	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.