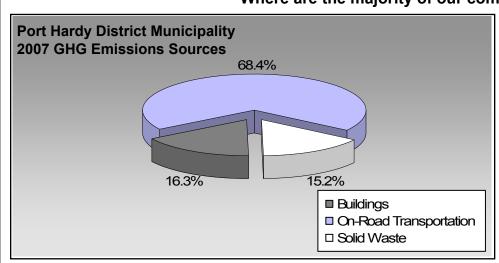
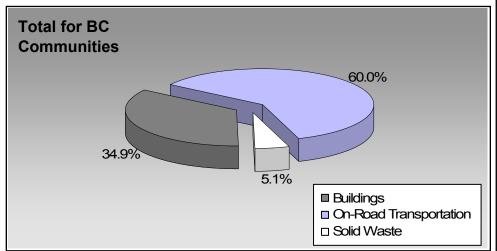


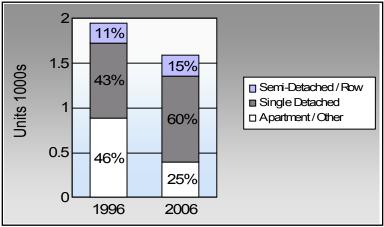
BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities

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
	75.8%	74.5%
	9.2%	6.4%
	0.6%	0.0%
\(\bar{\lambda}\)	10.6%	14.8%
S O	0.9%	0.5%

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

Residential Density

Port Hardy District Municipality: 1.0 people per net ha

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	550	760,459	Litres	13,325	26,616	1,813
	Diesel Fuel	25	25,726	Litres	14,868	985	70
				Small Pa	assenger Cars	27,601	1,883
Large Passenger Cars	Gasoline	290	677,275	Litres	17,512	23,705	1,620
	Diesel Fuel	16	35,336	Litres	17,211	1,353	96
	Other Fuel	< 10	4,950	Litres	15,190	190	8
				Large Pa	assenger Cars	25,248	1,724
Light Trucks, Vans, SUVs	Gasoline	1,265	3,905,024	Litres	20,164	136,676	9,362
	Diesel Fuel	141	358,559	Litres	19,578	13,733	980
	Other Fuel	10	29,374	Litres	14,824	1,125	45
				Light Tr	ucks, Vans, SUVs	151,534	10,387
Commercial Vehicles	Gasoline	22	91,954	Litres	14,699	3,218	215
	Diesel Fuel	44	206,614	Litres	21,555	7,913	556
	Other Fuel	< 10	10,056	Litres	11,356	385	15
				Comme	cial Vehicles	11,516	786
Tractor Trailer Trucks	Gasoline	< 10	2,380	Litres	7,085	83	6
	Diesel Fuel	43	1,236,738	Litres	72,684	47,367	3,328
	Other Fuel	< 10	2,380	Litres	7,085	91	4
				Tractor '	Trailer Trucks	47,541	3,338
Motorhomes	Gasoline	16	14,303	Litres	2,405	501	33
	Diesel Fuel	< 10	2,460	Litres	4,954	94	7
				Motorho	mes	595	40
Motorcycles, Mopeds	Gasoline	27	11,073	Litres	4,834	388	26
			Motorcycles, Mopeds			388	26
Bus	Gasoline	< 10	26,786	Litres	17,859	938	63
	Diesel Fuel	12	79,396	Litres	15,905	3,041	214
	Other Fuel	< 10	5,852	Litres	15,902	224	9
				Bus		4,203	286



	Gasoline:	192,125	13,138
	Diesel:	74,486	5,251
	Other Fuel:	2,015	81
On Road Transportation Totals	All Fuels:	268,626	18,470

Buildings	<u>Type</u>	Connections	Consumption	Measurement	Energy (GJ)	CO2e (t)
Residential	Electricity	2,015	28,267,397	Kilowatt Hours	101,763	697
	Heating Oil		34,300	GigaJoules	34,300	2,418
	Propane		5,907	GigaJoules	5,907	360
	Wood		41,889	GigaJoules	41,889	15
			Residential		183,859	3,490
Commercial/Small-Medium Industrial	Electricity	436	37,238,949	Kilowatt Hours	134,060	919
			Commercial/Sma	II-Medium Industrial	134,060	919
			Electri	city:	235,823	1,616
			Natura	al Gas:		
			Propa	ne:	5,907	360
			Wood		41,889	15
			Heatin	ıg Oil:	34,300	2,418
Buildings Totals			Buildi	ngs:	317,919	4,409

Solid Waste		Mass (t)	CO2e (t)
	Community Solid Waste	2,109	4,114



Grand Total		CONSUMPTION		ENERGY (GJ)	<u>CO2e (t)</u>
	Diesel Fuel	1,944,829	L	74,486	5,251
	Electricity	65,506,346	kWh	235,823	1,616
	Gasoline	5,489,254	L	192,125	13,138
	Heating Oil	34,300	GJ	34,300	2,418
	Other Fuel	52,612	L	2,015	81
	Propane	5,907	GJ	5,907	360
	Solid Waste	2,109	T	0	4,114
	Wood	41,889	GJ	41,889	15
Total of Transportation / Bu	ildings / Solid Waste:			586,545 GJ	26,993 tonnes

Memo Items

Buildings	<u>Type</u>	Connections	Consumption	Measurement	Energy (GJ)	<u>CO2e (t)</u>
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	
	Units	%	Units	%	Units	%
Single Detached House	840	30	865	48	955	60
Semi-Detached House	55	2	60	3	60	4
Row House	165	6	230	13	170	11
Apartment, Duplex	10	0	15	1	0	0
Apartment, 5 storeys or higher	60	2	40	2	15	1
Apartment, under 5 storeys	380	14	300	17	275	17
Other Single Attached House	55	2	0	0	0	0
Movable Dwelling	380	14	295	16	110	7

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.

	100	16	20	001	200	16	
	199			001			
	People	%	People	%	People	%	
Car, Truck, Van as Driver	2,065	76	1,715	71	1,390	75	
Car, Truck, Van as Passenge	250	9	300	12	120	6	
Public Transit	15	1	0	0	0	0	
Walked	290	11	315	13	275	15	
Bicycle	25	1	10	0	10	1	
Motorcycle	10	0	0	0	0	0	
Taxicab	0	0	10	0	0	0	
Other Method	70	3	65	3	70	4	

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
	3,986.0
Net Land Area (ha) *	3,841.9
Residential Density (people per net ha)	1.0

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	%

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	14.9	0.4		
Agricultural Land Reserve	0.0	0.0		
Other land use	4,039.0	99.6		
Total Land Area	4,054.0	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.