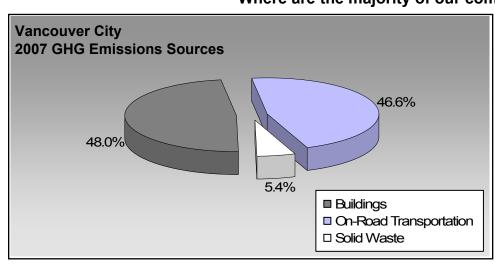
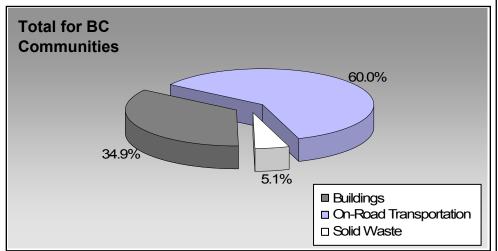


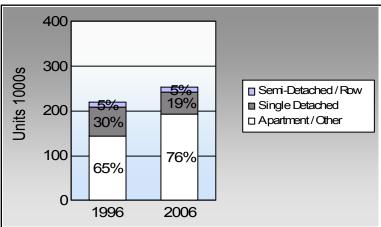
BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities

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

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	1996	2006
	55.1%	51.5%
	6.1%	6.1%
	23.7%	25.1%
ķ	10.7%	12.2%
\$ 0	3.3%	3.7%

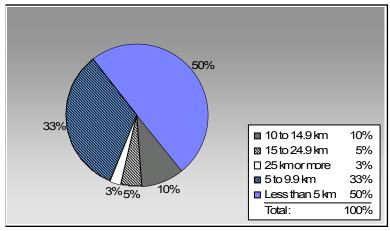
In BC, 10% of people took transit, 7% walked, and 2% cycled to work in 2006.

Residential Density

Vancouver City: 62.9 people per net

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	124,098	159,667,089	Litres	13,251	5,588,348	379,396
	Diesel Fuel	2,119	2,079,488	Litres	13,345	79,644	5,679
	Other Fuel	12	14,336	Litres	9,500	549	22
				Small Pa	ssenger Cars	5,668,541	385,097
Large Passenger Cars	Gasoline	54,176	92,391,584	Litres	14,729	3,233,705	218,695
	Diesel Fuel	1,382	2,439,704	Litres	13,962	93,441	6,660
	Other Fuel	97	188,032	Litres	11,846	7,202	288
				Large Pa	ssenger Cars	3,334,348	225,643
Light Trucks, Vans, SUVs	Gasoline	87,866	167,038,391	Litres	13,545	5,846,344	398,510
	Diesel Fuel	1,757	4,305,106	Litres	18,346	164,886	11,762
	Other Fuel	311	588,392	Litres	10,925	22,535	901
				Light Tru	ıcks, Vans, SUVs	6,033,765	411,173
Commercial Vehicles	Gasoline	512	2,337,801	Litres	17,137	81,823	5,481
	Diesel Fuel	1,943	8,717,842	Litres	21,172	333,893	23,460
	Other Fuel	104	359,606	Litres	12,832	13,773	551
				Commer	cial Vehicles	429,489	29,492
Tractor Trailer Trucks	Gasoline	32	164,718	Litres	15,823	5,765	387
	Diesel Fuel	1,482	45,793,959	Litres	81,155	1,753,909	123,230
	Other Fuel	< 10	11,307	Litres	7,085	433	17
				Tractor 7	Frailer Trucks	1,760,107	123,634
Motorhomes	Gasoline	1,258	1,125,828	Litres	3,008	39,404	2,633
	Diesel Fuel	120	143,100	Litres	5,278	5,481	385
	Other Fuel	24	14,536	Litres	2,189	557	22
				Motorho	mes	45,442	3,040
Motorcycles, Mopeds	Gasoline	4,370	1,670,624	Litres	5,505	58,472	3,900
				Motorcy	cles, Mopeds	58,472	3,900
Bus	Gasoline	203	1,921,926	Litres	23,188	67,267	4,516
	Diesel Fuel	382	7,965,728	Litres	35,758	305,087	21,435
	Other Fuel	37	252,949	Litres	17,332	9,688	388
				Bus		382,042	26,339



	Gasoline: Diesel: Other Fuel:	2,736,341 54,737	192,611 2,189
On Road Transportation Totals	All Fuels:	17,712,206	1,208,318

Buildings	<u>Type</u>	Connections	Consumption	Measurement	Energy (GJ)	CO2e (t)
Residential	Electricity	239,426	1,813,268,028	Kilowatt Hours	6,527,760	44,728
	Natural Gas	91,546	10,505,117	GigaJoules	10,505,117	535,761
	Heating Oil		220,395	GigaJoules	220,395	15,536
	Propane		327,213	GigaJoules	327,213	19,963
			Residential		17,580,485	615,988
Commercial/Small-Medium Industrial	Electricity	27,170	3,137,202,779	Kilowatt Hours	11,293,921	77,385
	Natural Gas	13,588	10,817,842	GigaJoules	10,817,842	551,710
			Commercial/Sma	III-Medium Industrial	22,111,763	629,095
			Electr	city:	17,821,681	122,113
			Natura	al Gas:	21,322,959	1,087,471
			Propa	ne:	327,213	19,963
			Wood	:		
			Heatir	ng Oil:	220,395	15,536
Buildings Totals			Build	ngs:	39,692,248	1,245,083

Solid Waste		Mass (t)	CO2e (t)
	Community Solid Waste	386,313	140,567



Grand Total		CONSUMPTION		ENERGY (GJ)	<u>CO2e (t)</u>
	Diesel Fuel	71,444,927	L	2,736,341	192,611
	Electricity	4,950,470,807	kWh	17,821,681	122,113
	Gasoline	426,317,961	L	14,921,128	1,013,518
	Heating Oil	220,395	GJ	220,395	15,536
	Natural Gas	21,322,959	GJ	21,322,959	1,087,471
	Other Fuel	1,429,158	L	54,737	2,189
	Propane	327,213	GJ	327,213	19,963
	Solid Waste	386,313	T	0	140,567
Total of Transportation / Build	ings / Solid Waste:			57,404,454 GJ	2,593,968 tonnes

Memo Items

<u>Type</u>	Connections	Consumption	<u>Measurement</u>	Energy (GJ)	CO2e (t)
Electricity	11	withheld	Kilowatt Hours	-	-
Natural Gas	242	6,913,969	GigaJoules	6,913,969	352,612
		Lar	ge Industrial	6,913,969	352,612
	Electricity	Electricity 11	Electricity 11 withheld Natural Gas 242 6,913,969	Electricity 11 withheld Kilowatt Hours	Electricity 11 withheld Kilowatt Hours - Natural Gas 242 6,913,969 GigaJoules 6,913,969



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	65,415	23	65,390	28	48,365	19	
Semi-Detached House	3,245	1	3,910	2	3,760	1	
Row House	6,935	2	7,295	3	8,230	3	
Apartment, Duplex	25,660	9	27,650	12	42,765	17	
Apartment, 5 storeys or highe	er41,525	15	51,375	22	61,330	24	
Apartment, under 5 storeys	75,195	26	79,755	34	88,180	35	
Other Single Attached House	455	0	495	0	465	0	
Movable Dwelling	105	0	225	0	120	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 628,621.0
Net Land Area (ha) * 9,992.5
Residential Density (people per net ha) 62.9

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	96	200	01	200)6	
	People	%	People	%	People	%	
Car, Truck, Van as Driver	130,345	55	146,525	58	144,480	52	
Car, Truck, Van as Passenge	14,460	6	17,065	7	17,150	6	
Public Transit	56,030	24	43,625	17	70,475	25	
Walked	25,260	11	32,465	13	34,245	12	
Bicycle	7,720	3	10,340	4	10,415	4	
Motorcycle	540	0	540	0	870	0	
Taxicab	605	0	840	0	690	0	
Other Method	1,725	1	1,915	1	2,220	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)6	
	People	%	
Less than 5 km	122,085	50	
5 to 9.9 km	82,155	33	
10 to 14.9 km	23,955	10	
15 to 24.9 km	11,200	5	
25 km or more	6,265	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.

	200	09	
	Area (ha)	%	
National Parks	0.0	0.0	
Provincial Parks / Protected Areas	0.0	0.0	
Local Parks	1,141.5	9.8	
Agricultural Land Reserve	296.8	2.5	
Agricultural Land Reserve Other land use	10,205.9	87.7	
Total Land Area	11,644.2	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.