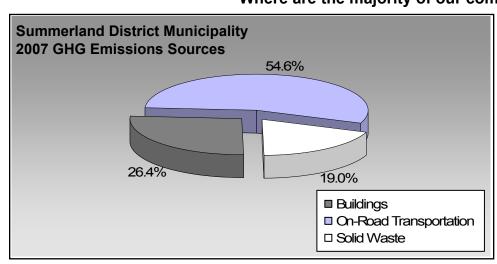
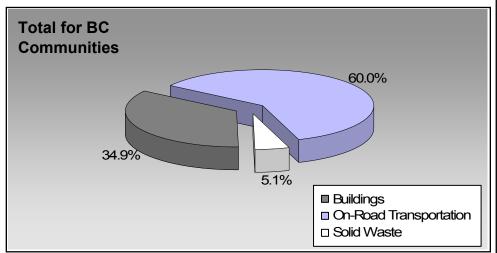


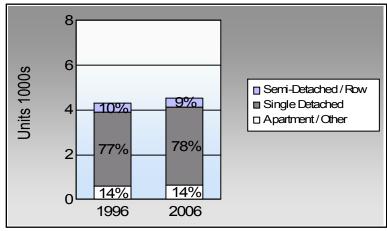
BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities

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
	85.5%	82.0%
	4.7%	9.0%
	0.4%	0.7%
À	7.4%	6.1%
%	0.7%	1.1%

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

Residential Density

Summerland District Municipality: 3.1 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	2,191	2,647,035	Litres	11,762	92,646	6,331
_	Diesel Fuel	133	126,229	Litres	12,394	4,835	345
	Other Fuel	< 10	642	Litres	7,554	25	1
				Small Pa	ssenger Cars	97,506	6,677
Large Passenger Cars	Gasoline	1,292	2,819,226	Litres	17,553	98,673	6,703
	Diesel Fuel	18	36,637	Litres	16,716	1,403	100
	Other Fuel	< 10	4,727	Litres	16,019	181	7
				Large Pa	assenger Cars	100,257	6,810
Light Trucks, Vans, SUVs	Gasoline	3,197	9,220,176	Litres	19,306	322,706	22,099
-	Diesel Fuel	340	848,390	Litres	19,328	32,493	2,318
	Other Fuel	40	99,495	Litres	13,649	3,811	152
				Light Tru	ucks, Vans, SUVs	359,010	24,569
Commercial Vehicles	Gasoline	26	110,199	Litres	12,637	3,857	257
	Diesel Fuel	49	227,836	Litres	20,571	8,726	613
	Other Fuel	< 10	15,784	Litres	11,898	605	24
				Commer	cial Vehicles	13,188	894
Tractor Trailer Trucks	Gasoline	< 10	2,380	Litres		83	6
	Diesel Fuel	49	950,784	Litres	51,979	36,415	2,558
	Other Fuel	< 10	2,380	Litres	7,085	91	4
				Tractor ⁻	Frailer Trucks	36,589	2,568
Motorhomes	Gasoline	108	131,414	Litres	2,933	4,599	307
	Diesel Fuel	16	18,205	Litres	3,852	697	49
	Other Fuel	< 10	1,661	Litres	2,189	64	3
				Motorho	mes	5,360	359
Motorcycles, Mopeds	Gasoline	165	70,113	Litres	5,236	2,454	164
				Motorcy	cles, Mopeds	2,454	164
Bus	Gasoline	< 10	5,852	Litres	15,902	205	14
	Diesel Fuel	< 10	62,527	Litres	25,947	2,395	168
	Other Fuel	< 10	1,463	Litres		56	2
				Bus		2,656	184



	Gasoline:	525,223	35,881
	Diesel:	86,964	6,151
	Other Fuel:	4,833	193
On Road Transportation Totals	All Fuels:	617,020	42,225

Buildings	<u>Type</u>	Connections	Consumption	<u>Measurement</u>	Energy (GJ)	CO2e (t)
Residential	Electricity	201	3,675,902	Kilowatt Hours	13,233	91
	Natural Gas	3,326	241,881	GigaJoules	241,881	12,336
	Heating Oil		4,029	GigaJoules	4,029	284
	Propane		7,107	GigaJoules	7,107	434
	Wood		35,467	GigaJoules	35,467	13
			Residential		301,717	13,158
Commercial/Small-Medium Industrial	Electricity	22	188,357	Kilowatt Hours	678	5
	Natural Gas	283	131,634	GigaJoules	131,634	6,713
			Commercial/Sma	all-Medium Industrial	132,312	6,718
Wholesale	Electricity	1	97,699,200	Kilowatt Hours	351,717	586
			Wholesale		351,717	586
			Electr	icity:	365,628	682
			Natura	al Gas:	373,515	19,049
			Propa	ne:	7,107	434
			Wood	:	35,467	13
			Heatir	ng Oil:	4,029	284
Buildings Totals			Build	ings:	785,746	20,462

Solid Waste		Mass (t)	CO2e (t)
	Community Solid Waste	15,623	14,678



	Wood	35,467	GJ	35,467	13
	Solid Waste	15,623	T	0	14,678
	Propane	7,107	GJ	7,107	434
	Other Fuel	126,152	L	4,833	193
	Natural Gas	373,515	GJ	373,515	19,049
	Heating Oil	4,029	GJ	4,029	284
	Gasoline	15,006,395	L	525,223	35,881
	Electricity	101,563,459	kWh	365,628	682
	Diesel Fuel	2,270,608	L	86,964	6,151
Grand Total		CONSUMPTION		ENERGY (GJ)	CO2e (t)

Memo Items

Buildings	<u>Type</u>	Connections	Consumption	Measurement	Energy (GJ)	<u>CO2e (t)</u>
Large Industrial	Electricity	1	withheld	Kilowatt Hours	-	-
	Natural Gas	2	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	200	6	
	Units	%	Units	%	Units	%	
Single Detached House	3,290	43	3,385	76	3,520	78	
Semi-Detached House	150	2	160	4	85	2	
Row House	265	3	220	5	300	7	
Apartment, Duplex	95	1	80	2	60	1	
Apartment, 5 storeys or higher	0	0	0	0	0	0	
Apartment, under 5 storeys	355	5	530	12	510	11	
Other Single Attached House	10	0	10	0	25	1	
Movable Dwelling	135	2	95	2	25	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	96	20	01	200)6	
	People	%	People	%	People	%	
Car, Truck, Van as Driver	2,940	85	3,300	82	3,375	82	
Car, Truck,Van as Passenge	160	5	305	8	370	9	
Public Transit	15	0	10	0	30	1	
Walked	255	7	285	7	250	6	
Bicycle	25	1	75	2	45	1	
Motorcycle	0	0	0	0	10	0	
Taxicab	10	0	10	0	0	0	
Other Method	35	1	35	1	35	1	

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	11,243.0	
Net Land Area (ha) *	3,609.8	
Residential Density (people p	per net ha) 3.1	

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	%

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	103.8	1.4		
Local Parks	81.0	1.1		
Agricultural Land Reserve	2,794.2	36.3		
Other land use	4,711.1	61.3		
Total Land Area	7,690.0	100.0		



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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)



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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.