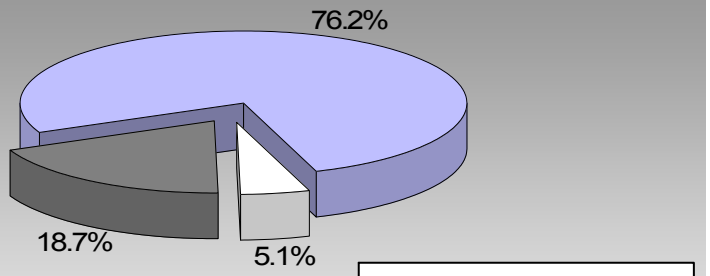
Lumby Village
Updated 2007 Community Energy and Emissions Inventory

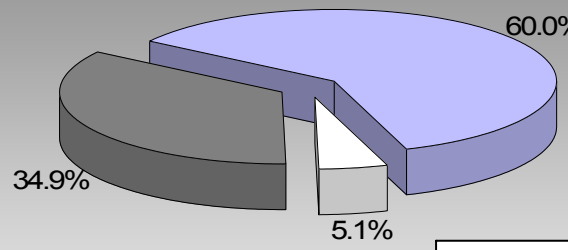
BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities

Where are the majority of our community's emissions coming from?

Lumby Village
2007 GHG Emissions Sources

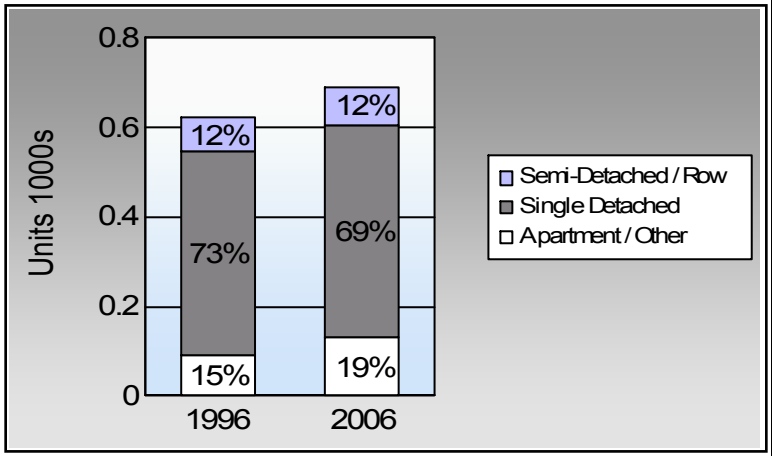


Total for BC Communities



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
	80.0%	81.9%
	10.0%	9.4%
	0.0%	0.0%
	10.0%	8.7%
	0.0%	0.0%

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

Residential Density

Lumby Village: 3.2 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 Transportation		Vehicles	Consumption	Measurement	Average-VKT(km)	Energy (GJ)	CO2e (t)
Small Passenger Cars	Gasoline	533	771,014	Litres	12,894	26,985	1,854
	Diesel Fuel	25	23,255	Litres	12,625	891	63
	Other Fuel	< 10	1,883	Litres	11,378	72	3
				Small Passenger Cars		**27,948**	**1,920**
Large Passenger Cars	Gasoline	294	686,081	Litres	17,512	24,013	1,639
	Diesel Fuel	< 10	25,040	Litres	18,093	959	68
	Other Fuel	< 10	983	Litres		38	2
				Large Passenger Cars		**25,010**	**1,709**
Light Trucks, Vans, SUVs	Gasoline	987	3,004,893	Litres	19,043	105,171	7,228
	Diesel Fuel	177	452,224	Litres	19,061	17,320	1,235
	Other Fuel	18	40,082	Litres	12,581	1,535	61
				Light Trucks, Vans, SUVs		**124,026**	**8,524**
Commercial Vehicles	Gasoline	33	155,214	Litres	16,590	5,432	364
	Diesel Fuel	70	294,409	Litres	20,394	11,276	792
	Other Fuel	< 10	6,464	Litres	11,356	248	10
				Commercial Vehicles		**16,956**	**1,166**
Tractor Trailer Trucks	Gasoline	< 10	4,761	Litres	7,085	167	11
	Diesel Fuel	73	1,940,126	Litres	67,160	74,307	5,221
				Tractor Trailer Trucks		**74,474**	**5,232**
Motorhomes	Gasoline	25	37,165	Litres	2,942	1,301	87
	Diesel Fuel	< 10	4,885	Litres	3,379	187	13
	Other Fuel	< 10	1,523	Litres	2,189	58	2
				Motorhomes		**1,546**	**102**
Motorcycles, Mopeds	Gasoline	32	16,705	Litres	5,000	585	39
				Motorcycles, Mopeds		**585**	**39**
Bus	Diesel Fuel	< 10	5,321	Litres		204	14
				Bus		**204**	**14**

	Gasoline:	163,654	11,222
	Diesel:	105,144	7,406
	Other Fuel:	1,951	78
On Road Transportation Totals	**All Fuels:**	**270,749**	**18,706**

Buildings

	Type	Connections	Consumption	Measurement	Energy (GJ)	CO2e (t)
Residential	Electricity	860	9,016,998	Kilowatt Hours	32,461	222
	Natural Gas	602	45,415	GigaJoules	45,415	2,316
			Residential		**77,876**	**2,538**
Commercial/Small-Medium Industrial	Electricity	170	12,778,505	Kilowatt Hours	46,003	315
	Natural Gas	97	33,795	GigaJoules	33,795	1,724
			Commercial/Small-Medium Industrial		**79,798**	**2,039**

	Electricity:	78,464	537
	Natural Gas:	79,210	4,040
	Propane:		
	Wood:		
	Heating Oil:		
Buildings Totals	**Buildings:**	**157,674**	**4,577**

Solid Waste

		Mass (t)	CO2e (t)
	Community Solid Waste	1,594	1,252

Grand Total		CONSUMPTION		ENERGY (GJ)	CO2e (t)
	Diesel Fuel	2,745,260	L	105,144	7,406
	Electricity	21,795,503	kWh	78,464	537
	Gasoline	4,675,833	L	163,654	11,222
	Natural Gas	79,210	GJ	79,210	4,040
	Other Fuel	50,935	L	1,951	78
	Solid Waste	1,594	T	0	1,252
Total of Transportation / Buildings / Solid Waste:				**428,423** GJ	**24,535** tonnes

Memo Items

Buildings	Type	Connections	Consumption	Measurement	Energy (GJ)	CO2e (t)
Large Industrial	Electricity	0	0	Kilowatt Hours	-	-
			Large 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.

	1996		2001		2006	
	Units	%	Units	%	Units	%
Single Detached House	455	42	460	69	475	69
Semi-Detached House	40	4	60	9	80	12
Row House	35	3	20	3	5	1
Apartment, Duplex	0	0	5	1	5	1
Apartment, 5 storeys or higher	0	0	0	0	0	0
Apartment, under 5 storeys	20	2	70	11	75	11
Other Single Attached House	0	0	5	1	0	0
Movable Dwelling	70	7	45	7	50	7

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	1,804.0
Net Land Area (ha) *	558.1
Residential Density (people per net ha)	3.2

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.

	1996		2001		2006	
	People	%	People	%	People	%
Car, Truck, Van as Driver	480	80	360	82	565	82
Car, Truck,Van as Passenge	60	10	25	6	65	9
Public Transit	0	0	0	0	0	0
Walked	60	10	55	13	60	9
Bicycle	0	0	0	0	0	0
Motorcycle	0	0	0	0	0	0
Taxicab	0	0	0	0	0	0
Other Method	0	0	0	0	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.

	2006	
	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	0.0	0.0
Agricultural Land Reserve	51.0	8.4
Other land use	558.6	91.6
Total Land Area	609.7	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	Average energy use per person per square metre of floor space
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.

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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.toolkit.bc.ca> and <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