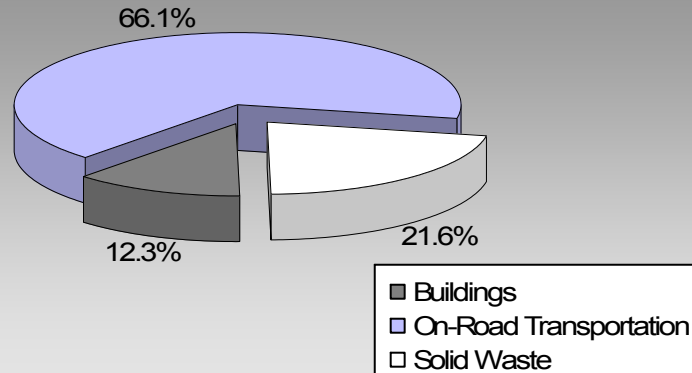


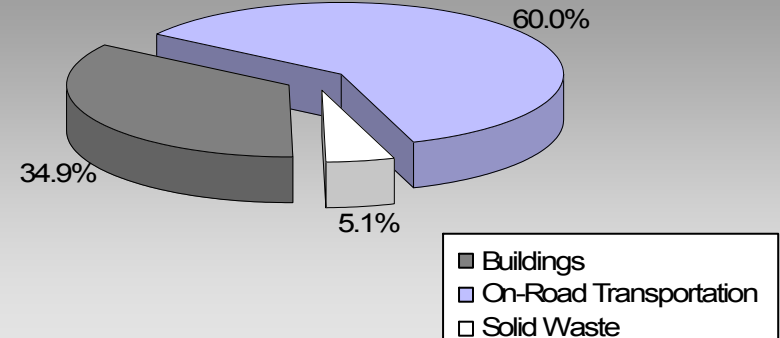
BC's Community Energy and Emission Inventories...supporting efforts towards Complete, Compact, Energy-Efficient Communities

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

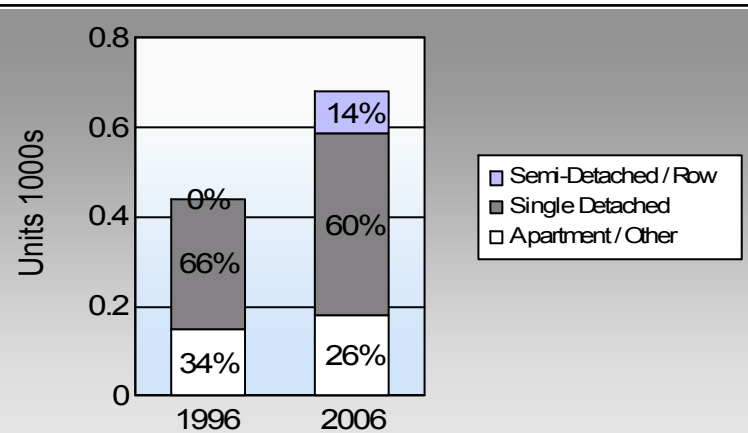
**Tofino District Municipality  
2007 GHG Emissions Sources**



**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
	48.5%	54.0%
	3.1%	7.5%
	0.0%	1.2%
	40.0%	22.4%
	6.9%	13.0%

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

### Residential Density

Tofino District Municipality: 2.2 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.

## Sectors

<b>On Road Transportation</b>		<u>Vehicles</u>	<u>Consumption</u>	<u>Measurement</u>	<u>Average-VKT(km)</u>	<u>Energy (GJ)</u>	<u>CO2e (t)</u>
Small Passenger Cars	Gasoline	298	411,218	Litres	12,959	14,393	986
	Diesel Fuel	15	17,609	Litres	13,451	674	48
	Other Fuel	< 10	1,351	Litres	11,447	52	2
<b>Small Passenger Cars</b>						<b>15,119</b>	<b>1,036</b>
Large Passenger Cars	Gasoline	133	277,628	Litres	16,768	9,717	662
	Diesel Fuel	< 10	20,539	Litres	17,649	787	56
	Other Fuel	< 10	3,688	Litres	15,475	141	6
<b>Large Passenger Cars</b>						<b>10,645</b>	<b>724</b>
Light Trucks, Vans, SUVs	Gasoline	571	1,679,369	Litres	19,616	58,778	4,037
	Diesel Fuel	46	119,235	Litres	19,618	4,567	326
	Other Fuel	< 10	12,601	Litres	12,812	483	19
<b>Light Trucks, Vans, SUVs</b>						<b>63,828</b>	<b>4,382</b>
Commercial Vehicles	Gasoline	< 10	13,349	Litres	13,007	467	31
	Diesel Fuel	11	50,317	Litres	21,002	1,927	135
<b>Commercial Vehicles</b>						<b>2,394</b>	<b>166</b>
Tractor Trailer Trucks	Gasoline	< 10	1,190	Litres		42	3
	Diesel Fuel	10	217,288	Litres	53,867	8,322	585
	Other Fuel	< 10	2,380	Litres	7,085	91	4
<b>Tractor Trailer Trucks</b>						<b>8,455</b>	<b>592</b>
Motorhomes	Gasoline	12	11,150	Litres	2,484	390	26
	Diesel Fuel	< 10	1,121	Litres	2,685	43	3
	Other Fuel	< 10	277	Litres		11	-
<b>Motorhomes</b>						<b>444</b>	<b>29</b>
Motorcycles, Mopeds	Gasoline	16	7,768	Litres	5,877	272	18
<b>Motorcycles, Mopeds</b>						<b>272</b>	<b>18</b>
Bus	Gasoline	< 10	36,047	Litres	19,076	1,262	85
	Diesel Fuel	< 10	147,936	Litres	31,850	5,666	398
<b>Bus</b>						<b>6,928</b>	<b>483</b>

# Tofino District Municipality

## Updated 2007 Community Energy and Emissions Inventory

	Gasoline:	85,321	5,848
	Diesel:	21,986	1,551
	Other Fuel:	778	31
<b>On Road Transportation Totals</b>	<b>All Fuels:</b>	<b>108,085</b>	<b>7,430</b>

Buildings	Type	Connections	Consumption	Measurement	Energy (GJ)	CO2e (t)	
Residential	Electricity	1,085	18,163,846	Kilowatt Hours	65,390	448	
	Heating Oil		5,824	GigaJoules	5,824	411	
	Propane		1,004	GigaJoules	1,004	61	
	Wood		7,100	GigaJoules	7,100	3	
<b>Residential</b>					<b>79,318</b>	<b>923</b>	
Commercial/Small-Medium Industrial	Electricity	310	18,733,022	Kilowatt Hours	67,439	462	
<b>Commercial/Small-Medium Industrial</b>					<b>67,439</b>	<b>462</b>	
					Electricity:	132,829	910
					Natural Gas:		
					Propane:	1,004	61
					Wood:	7,100	3
					Heating Oil:	5,824	411
<b>Buildings Totals</b>				<b>Buildings:</b>	<b>146,757</b>	<b>1,385</b>	

Solid Waste	Mass (t)	CO2e (t)
Community Solid Waste	2,775	2,425

# Tofino District Municipality

## Updated 2007 Community Energy and Emissions Inventory

Grand Total	CONSUMPTION		ENERGY (GJ)	CO <sub>2</sub> e (t)
Diesel Fuel	574,045	L	21,986	1,551
Electricity	36,896,868	kWh	132,829	910
Gasoline	2,437,719	L	85,321	5,848
Heating Oil	5,824	GJ	5,824	411
Other Fuel	20,297	L	778	31
Propane	1,004	GJ	1,004	61
Solid Waste	2,775	T	0	2,425
Wood	7,100	GJ	7,100	3
<b>Total of Transportation / Buildings / Solid Waste:</b>			<b>254,842 GJ</b>	<b>11,240 tonnes</b>

### Memo Items

Buildings	Type	Connections	Consumption	Measurement	Energy (GJ)	CO <sub>2</sub> e (t)
Large Industrial	Electricity	0	0	Kilowatt Hours	-	-
				<b>Large Industrial</b>	<b>-</b>	<b>-</b>

## 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](mailto: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	290	40	365	63	405	60
Semi-Detached House	0	0	30	5	45	7
Row House	0	0	35	6	50	7
Apartment, Duplex	15	2	60	10	75	11
Apartment, 5 storeys or higher	0	0	0	0	0	0
Apartment, under 5 storeys	85	12	70	12	90	13
Other Single Attached House	10	1	10	2	5	1
Movable Dwelling	40	5	10	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.

	1996		2001		2006	
	People	%	People	%	People	%
Car, Truck, Van as Driver	315	48	425	54	435	54
Car, Truck, Van as Passenger	20	3	10	1	60	7
Public Transit	0	0	15	2	10	1
Walked	260	40	205	26	180	22
Bicycle	45	7	50	6	105	13
Motorcycle	0	0	0	0	0	0
Taxicab	0	0	0	0	0	0
Other Method	10	2	85	11	15	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	1,829.0
Net Land Area (ha) *	841.1
Residential Density (people per net ha)	2.2

### 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.

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	1.6	0.2
Provincial Parks / Protected Areas	220.1	20.6
Local Parks	4.4	0.4
Agricultural Land Reserve	0.0	0.0
Other land use	844.0	78.9
<b>Total Land Area</b>	<b>1,070.1</b>	<b>100.0</b>

## 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](mailto:CEEIRPT@gov.bc.ca) (see survey on CEEI website).

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### 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

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### Buildings

Residential; Public Building Energy Intensity	Average energy use per person per square metre of floor space
Floor Space	Average residential dwelling unit size

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### Solid Waste (and Water)

Waste Diversion	Tonnes of waste diverted
Avoided Waste Emissions	Tonnes of CO <sub>2</sub> e of avoided future emissions due to reduced waste since 2007
Water Use	Per capita residential water use

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### Land-Use Change

Impervious Surface Cover	% change in impervious surface cover
Tree Canopy Cover	% change in tree canopy cover

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### 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.

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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](mailto: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.