

Partners for Climate Protection Tools & Resources

FCM Sustainable Communities Conference & Trade Show
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Resource Location

- www.sustainablecommunities.fcm.ca
 - Clink link: Partners for Climate Protection
 - Clink link: Support Materials

Milestone Descriptions

PCP Milestone One - Emissions Inventory - Mozilla Firefox

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http://sustainablecommunities.fcm.ca/Partners-for-Climate-Protection/Milestone_one.asp

print screen keystroke

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PCP Milestone One - Emissions Inventory



[PCP Milestone Framework](#) | [Milestone Two](#) | [Milestone Three](#) | [Milestone Four](#) | [Milestone Five](#)

A greenhouse gas inventory brings together data on community and municipal energy use and solid waste generation in order to estimate greenhouse gas (GHG) emissions in a given year. The forecast projects future emissions based on assumptions about population, economic growth and fuel mix.

The inventory can be used to document energy consumption and waste composition data, and to calculate the resulting greenhouse gas emissions.

An emissions inventory consists of:

1. A community inventory: residential, institutional, commercial, industrial, transportation, and solid waste sectors.
2. A corporate inventory: municipal government facilities and operations, including buildings, street lighting, water and wastewater treatment, municipal fleet, and corporate and/or community solid waste.

The greenhouse gas inventory is developed by collecting data on:

- ◆ Electricity and fossil fuel energy use;
- ◆ Transportation (such as vehicle kilometres travelled, fleet composition and fuel(s) consumed); and
- ◆ The quantity and composition of waste and disposal methods.

PCP recommends that municipalities choose the baseline year of 1994 or a year for which reliable data is available. The baseline year will serve as a basis for setting an emissions reduction target and act as a point of comparison for the future.

Greenhouse gases measured



The Business Case for Cutting Greenhouse Gas Emissions from Municipal Operations

Prepared for:
Federation of Canadian Municipalities
24 Clarence Street
Ottawa, Ontario
K1N 5P3

Prepared by:
ICLEI Energy Services
City Hall, West Tower, 16th Floor
100 Queen Street West
Toronto, ON
M5H 2N2

June 2003



Canada

•I•C•L•E•I
International Council for
Local Environmental Initiatives

Quick Acton Guide

http://sustainablecommunities.fcm.ca/Partners-for-Climate-Protection/Resources-Tools.asp

PCP FAQs

Quick Action Guide (2005)

Twenty steps you can take to curb greenhouse gas emissions now!
Municipal governments across Canada are creating momentum on climate protection through simple, cost-effective activities that also improve quality of life.
Presented here are lists of the top ten corporate and community activities implemented by municipalities in their efforts to reduce greenhouse gas (GHG) emissions. These actions are easy to implement and proven to generate significant reductions. Links to websites offering more information are also provided to help you get started.

[The Quick Action Guide](#)

PCP Inventory Spreadsheets

Microsoft Excel - KN inventory spreadsheets

File Edit View Insert Format Tools Data Window Help

Type a question for help

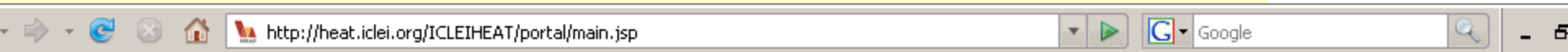
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1																
2																
3		Buildings														
4		<i>Corporate Inventory</i>														
5																
6		Description:	Insert comments here. (i.e. represents entire buildings portfolio)													
7																
8			Electricity (kWh)				Natural Gas (cum)				District Energy (GJ)			Fuel Oil (L)		
9		Building or Building Group Name	Total Use	Total Cost (\$)	Total eCO2	Total N2O	Total CO2	Total CH4	Total Use	Total Cost (\$)	Total eCO2	Total Use	Total Cost (\$)	Total eCO2 (t)	Total Use	Total Cost (\$)
10		Arenas	133,000		42	188	41,629	6			0			0		
11		Fire halls	40,000		13	56	12,520	2			0			0		
12		Libraries	25,000		8	35	7,825	1			0			0		
13		City Hall	20,000		6	28	6,260	1			0			0		
14					0	0	0	0			0			0		
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19					0	0	0	0			0			0		
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21					0	0	0	0			0			0		
22					0	0	0	0			0			0		
23					0	0	0	0			0			0		
24		Total	218,000	0	69				0	0	0	0	0	0	0	0
25																
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General Info Buildings Vehicle Fleet Streetlights Water & Sewage Waste Corporate Summary Residential Commercial Industrial

ICLEI, CCI & Microsoft Software



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FEEDBACK

[Click here](#) To email ICLEI for information about registering for the HEAT application, or to provide feedback on the public tools.

Welcome to the HEAT home portal!

ICLEI - Local Governments for Sustainability is an international association of local governments dedicated to fostering a sustainable world. With valuable support from US Agency for International Development (USAID), ICLEI developed the Harmonized Emissions Analysis Tool (HEAT) online software to support local greenhouse gas and air pollution emission reduction planning. This software provides capacity to local governments to seek to reduce GHG emissions based on sound governance, economic development, improved waste management, energy efficiency, better urban mobility, and better air quality. Beyond being a planning tool, this site offers consultants, NGOs, government agencies, academics, and others free tools to translate energy, transportation and waste activities into pollution emissions.

In general the software will:

- ◆ Build an emissions inventory based on local energy use, transportation demand, and waste practices
- ◆ Help a user/city build a simple emissions forecast
- ◆ Set a target/goal for reducing emissions (e.g., reduce GHG emissions by 10%)
- ◆ Quantify emission reduction activities and their co-benefits
- ◆ Develop, report, and track progress made in meeting that target.

HEAT features 24/7 access from any computer with an internet connection and an optional downloadable standalone application for off-line work. Initial countries for which HEAT is being prepared include India, Indonesia, South Africa, and Brazil.

Enjoy the site and please be sure to provide your comments.

NEWS

Clinton Climate Initiative Chooses ICLEI As Key Partner In Fighting Global Warming... [more](#)

Sundance Summit Convenes in Utah... [more](#)

SPONSORS

FAQs – EMISSIONS INVENTORY

1.0	GENERAL INVENTORY QUESTIONS	2
2.0	INVENTORY MANAGEMENT	5
3.0	PROTOCOL	6
4.0	EMISSIONS COEFFICIENTS	7
5.0	BASELINE SELECTION	10
6.0	DATA ENTRY	11
7.0	DATA ISSUES	12
7.1	GENERAL DATA ISSUES	12
7.2	CORPORATE INVENTORY ISSUES	12
7.3	COMMUNITY INVENTORY ISSUES	13
8.0	SETTING TARGETS	16
9.0	CCP GHG SOFTWARE/COMPUTER ISSUES	17

Developing Inventories for GHG Emissions and Energy Consumption

International Local Government GHG Emissions Analysis Protocol

- Introduction
 - 1.1 Purpose
 - 1.2 Use
 - 1.3 Background
 - 1.4 Framework
 - 1.5 Reporting
- General Principles
- Inventory Requirements
 - 3.1 Parameters
 - 3.1.1 Gases
 - 3.1.2 Warming Potentials
 - 3.1.3 Boundaries
 - 3.1.3.1 Organizational
 - 3.1.3.2 Geopolitical
 - 3.1.3.3 Other
 - 3.1.4 Sources
 - 3.1.4.1 Prioritizing emissions
 - 3.1.5 Base Year
 - 3.1.6 Scopes
 - 3.1.6.1 Government
 - 3.1.6.2 Community
 - 3.1.7 Activity Data
 - 3.1.8 Emission Factors
 - 3.1.8.1 Average/Marginal
 - 3.1.9 Tiers
 - 3.2 Sectors
 - 3.2.1 Government
 - 3.2.1.1 Stationary Combustion
 - 3.2.1.2 Mobile Combustion
 - 3.2.1.3 Fugitive Emissions
 - 3.2.1.4 Product Use
 - 3.2.1.5 Other Land Use
 - 3.2.1.6 Waste
 - 3.2.2 Community
 - 3.2.2.1 Stationary Combustion
 - 3.2.2.2 Mobile Combustion
 - 3.2.2.3 Fugitive Emissions
 - 3.2.2.4 Product Use
 - 3.2.2.5 Other Land Use
 - 3.2.2.6 Waste



Model Climate Change Action Plan

PCD - PCP Support Materials - Mozilla Firefox

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http://sustainablecommunities.fcm.ca/Partners-for-Climate-Protection/Resources-Tools.asp

model climate change action plan

Model Climate Change Action Plan (2004)

A template for completing a greenhouse gas reduction plan in the partners for climate protection

The Partners for Climate Protection (PCP) is a framework developed for use by municipal governments to undertake initiatives that reduce greenhouse gas (GHG) emissions. Its ultimate goal is to reduce GHG emissions from municipal operations by 20 per cent and community-wide GHG emissions by at least six per cent below 1990 levels, and to reach both these targets within ten years of a municipal government joining the program.

A critical step in PCP is developing a GHG reduction, or sustainability plan. Any local action plan (PCP Milestone Three) that sets out how a municipal government will accomplish this is, by definition, a sustainability plan.

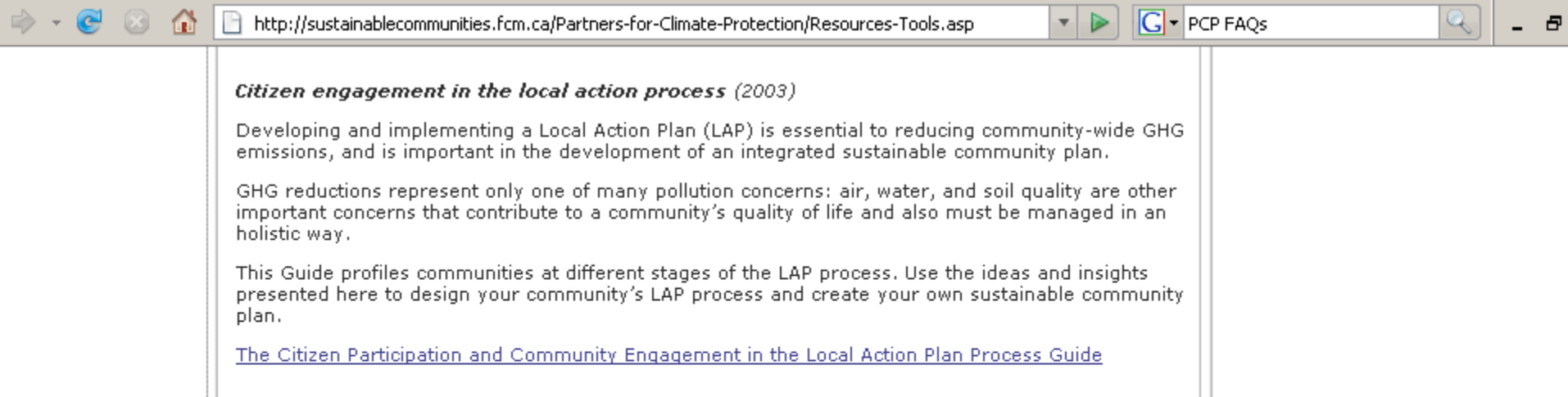
Creating a sustainability plan can seem daunting, but it will help your municipal government develop long- and short-term goals, devise communication strategies, procedures, and programs, and will outline an approach that will involve all key stakeholders.

This document is designed to guide you through the development of a sustainability plan. It outlines all of the information your plan should include, such as:

- ◆ the rationale for developing a plan, including a description of your community's constraints and challenges;
- ◆ an inventory of all municipal infrastructure (buildings, fleet vehicles, traffic signals, etc.) and the amount of energy used and GHG emissions produced;
- ◆ the plan's long- and short-term goals;
- ◆ the objectives of the plan and its key action items;
- ◆ how the plan will be monitored and evaluated; and
- ◆ how the plan will be implemented.

[The Model Climate Change Action Plan](#)

Citizen Engagement Guide



The screenshot shows a web browser window with the following elements:

- Address Bar:** <http://sustainablecommunities.fcm.ca/Partners-for-Climate-Protection/Resources-Tools.asp>
- Search Bar:** PCP FAQs
- Page Content:**
 - Section Header:** *Citizen engagement in the local action process (2003)*
 - Text:** Developing and implementing a Local Action Plan (LAP) is essential to reducing community-wide GHG emissions, and is important in the development of an integrated sustainable community plan.
 - Text:** GHG reductions represent only one of many pollution concerns: air, water, and soil quality are other important concerns that contribute to a community's quality of life and also must be managed in an holistic way.
 - Text:** This Guide profiles communities at different stages of the LAP process. Use the ideas and insights presented here to design your community's LAP process and create your own sustainable community plan.
 - Text:** [The Citizen Participation and Community Engagement in the Local Action Plan Process Guide](#)

Technical Assistance

- Support through the 5 Milestone process
 - Inventory assistance – data collection, analysis & troubleshooting
 - Target setting – forecasting techniques & methodology
 - Local Action Planning – identifying & analyzing measures
 - Implementation – ensuring plans are implemented
 - Monitoring & Verification – tracking techniques & reporting against your target