

**Pollution Prevention for Small Business**  
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# Capacity Building for SMEs

*Tania Del Matto*

*Canadian Centre for Pollution Prevention*

# Importance of SMEs

**Canada has 2.6 million SMEs:**

- **94 percent have fewer than 20 employees**
- **75 percent have fewer than 5 employees**

***(Certified General Accountants Association)***

**In Canada, pollution from small industrial facilities that report to the NPRI rose 66% from 1998 to 2000.**

***(Commission for Environmental Cooperation, Taking Stock, 2000)***

**Businesses saying they did not have an impact on the environment**

Year	1995	1998	2000
	22%	33%	48%

**Percentage of businesses taking environmental measures by size**

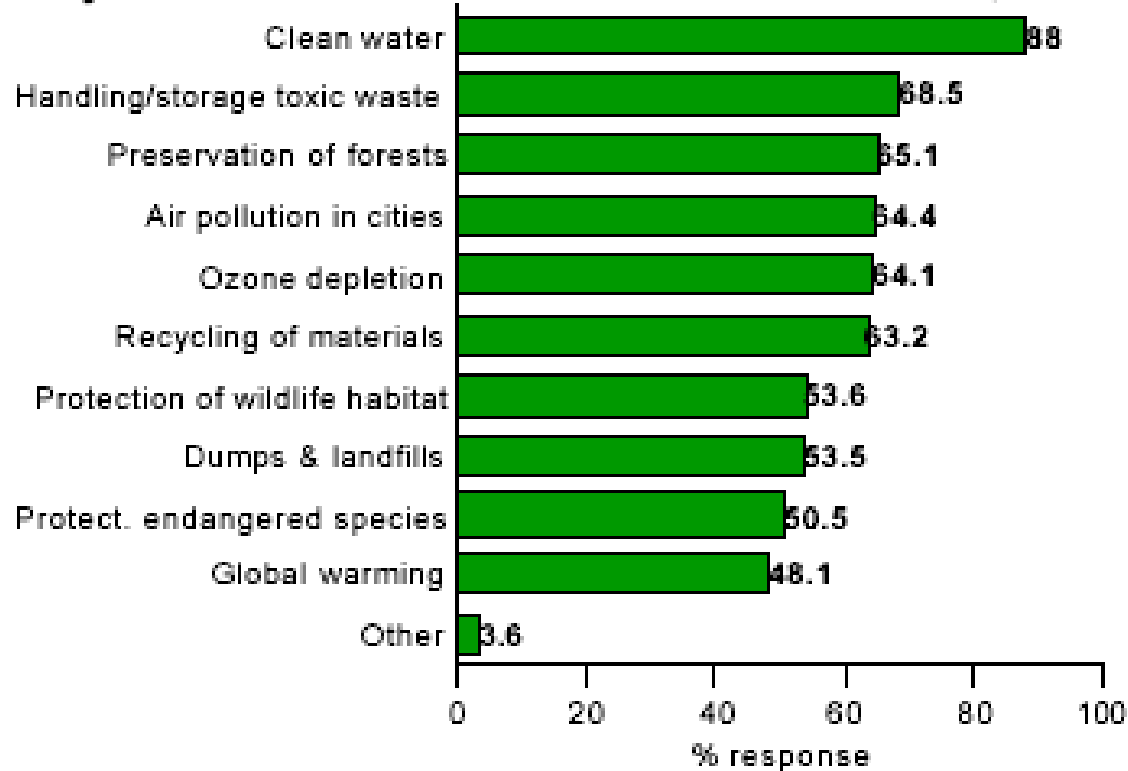
0 - 9 employees	28%
10 - 49 employees	51%
50 - 250 employees	77%



Source: UK NetRegs Benchmarking Survey of Env. Awareness (2002)

# Concerns of Canadian SMEs

## Major Environmental Concerns of SMEs, 2000



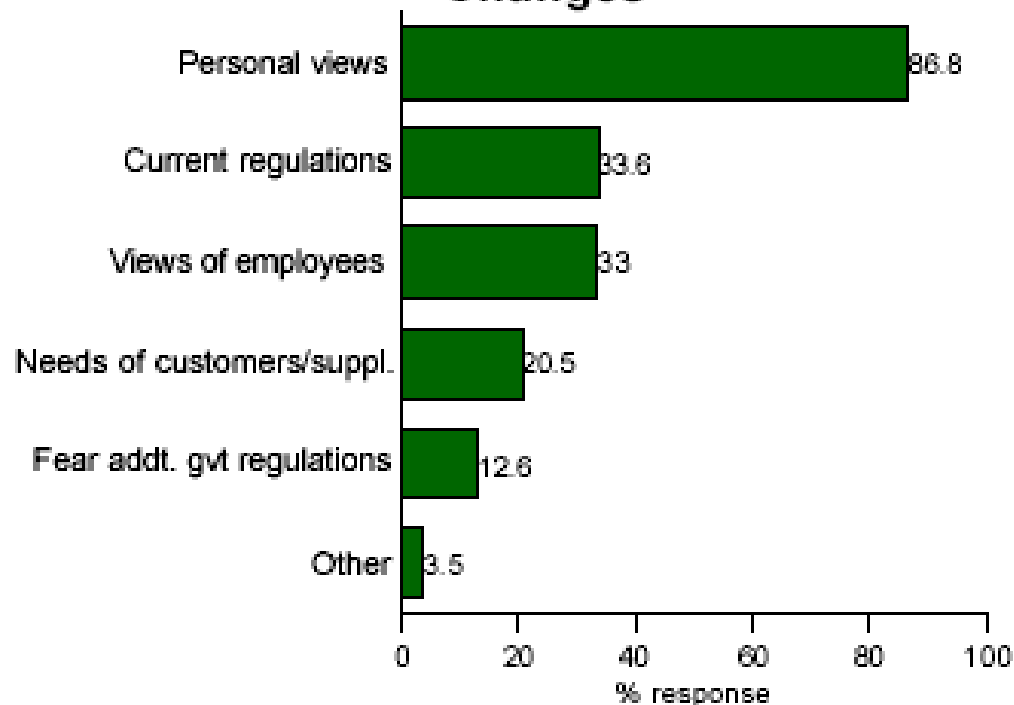
Source: Canadian Federation of Independent Business, results of *Environment Survey*, Sept.-Nov. 2000

# SME Profile

- Generate less environmental data
- Have less environmental expertise and/or experience
- Have fewer resources
- Differ in organizational structure

# Motivational Factors for SMEs Environmental Changes

## Motivational Factors for Environmental Changes



Source: Canadian Federation of Independent Business, results of *Environment Survey*, Sept.-Nov. 2000

- **SME Workgroup**
- **Website DEMO**
- **Survey**
- **Promotion**
- **Online Training DEMO**

## Pollution Prevention for Small Business

*delivers access to information, tools and networks for the purposes of improving the environmental performance of small businesses*

### Background and Contacts

Support Programs

Environmental Management

Industry Specific Resources

Online Training

Pollution Prevention Techniques

Small Business Success Stories



SME Workgroup  
(members only)

[Disclaimer](#) • [SME Survey](#) • [Feedback](#)

*Pollution Prevention for Small Business services are possible through the generous support of:*



Environment  
Canada

Environnement  
Canada

• Ontario Region

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# Support Programs

- National / Regional
- Industry Specific
- Funding
- Recognition
- Leading U.S. Programs

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# Industry Specific Resources

- BMPs
- Programs
- Key Contacts
- Information Databases
- Success Stories




## Ski Resorts

### Resources

- [Clean Snowmobile Facts - Yellowstone National Park](#)  
*Information:* Contains a useful checklist for how to maintain a more environmentally friendly snow machine.
- [Greening Your Ski Area - A Pollution Prevention Handbook](#)  
*Information:* This handbook demonstrates that practical, proven techniques and technologies exist for reducing the environmental impacts of ski area operations.
- [The National Ski Areas Association's Green Room](#)  
*Information:* contains a database of environmental programs and practices on water, energy and waste.

### Programs

- [Energy Innovators Initiative](#)   
*Information:* offers businesses access to tools, services and financial incentives to pursue energy management planning and retrofits.
- [Keep Winter Cool: Help Stop Climate Change](#)  
*Role:* to highlight the impact of global warming on winter recreation and the opportunities both resort operators and their guests have to start solving the problem.

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# Other Industry Specific Pages

Automotive

Food Processing

Boat/Ship Building

Metal Finishing

Construction

Restaurants

Dry Cleaning

Textiles

Financial

**... and growing**

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# Environmental Management and Compliance

- Definitions
- Resources
- Guides
- How to Get Started
- SME examples

## Environmental Management and Compliance

*Access information on environmental compliance and improve your environmental performance through the use of management tools.*

### Environmental Compliance:

- Environmental Regulations
- Pollution Prevention Planning
- Certificates of Approval
- National Pollutant Release Inventory

### Management Tools:

- Environmental Management Systems / ISO 14000
- Environment, Health and Safety Integration
- Emergency Response Plans
- Green Purchasing
- Measurement/Performance Tools
- Water and Energy Conservation
- Employee Awareness Tools

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# Pollution Prevention Planning

- Definitions
- Resources
- Guides
- How to Get Started
- SME examples

## Pollution Prevention Planning

### What is Pollution Prevention Planning?

[Pollution prevention](#) has evolved over the last ten years to become the focal point of regulatory initiatives such as the new Canadian Environmental Protection Act (CEPA-1999). It is generally agreed that [pollution prevention planning \(P3\)](#) is an essential component of a pollution prevention framework.

### Where do we start?

» Explore the C2P2 library under the following headings:

- Overview of Pollution Prevention
- Managing Substances of Concern and Risk
- Initiating Pollution Prevention Planning
- Facility Assessment
- Analysis and Implementation
- Implementing and Improving the P2 Plan

### Pollution Prevention Resources for Small Business

- [Developing a P2 Plan](#) - published by University of Missouri Outreach and Extension, this document provides recommendations for developing a pollution prevention plan.
- [Waste at Work: Prevention Strategies and the Bottom Line](#) - published by Inform Inc., this handbook explains how businesses can reduce waste while bringing down their disposal, purchasing, and operational costs.

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# Environmental Regulations

## •Overview

## •Starting Point

### Environmental Regulations

Federal	Provincial/Territorial	Municipal
<ul style="list-style-type: none"><li>• Environmental Protection - Acts and Regulations</li><li>• Transportation of Dangerous Goods Act</li><li>• Recent enforcement actions</li></ul>	<ul style="list-style-type: none"><li>• Water Legislation and Regulations</li><li>• Airborne Contaminant Discharge-Monitoring and Reporting</li><li>• Liquid Industrial and Hazardous Waste</li><li>• Environmental Protection - Acts and Regulations</li><li>• Occupational Health and Safety</li><li>• Recent enforcement actions in Ontario</li><li>• Municipal Act allocates authority to local governments</li></ul>	<ul style="list-style-type: none"><li>• City of Toronto Sewer use Bylaw</li><li>• check your local municipality for sewer use bylaw</li></ul>

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# Emergency Response Plans

- Definitions
- Importance
- Resources
- SME examples

## Emergency Response Plans

It is a reasonable assumption that every business or industry will, at some point, experience some type of crisis or emergency. Emergency preparedness and planning activities will help to minimize human, property, environmental and economic losses due to any hazardous event. Below are some helpful resources:

- [CANUTEC - Emergency Response Guidebook - 2000](#) 🍁
- [Emergency Preparedness Canada](#) 🍁
- [Environmental Emergency Plans \(E2\) - Environment Canada](#) 🍁
- [Environmental Emergencies](#) 🍁

Written by Sarah Gilbert, Torys LLP

Hazardous Materials Management Magazine, October/November 2002

Proposed federal regulations require industrial facilities to prepare emergency response plans to address any one of 174 toxic substances. Environment Canada (EC) estimates 1,500 smaller companies will be affected. Larger companies most likely already have an emergency response plan in place. EC expects to have this in place sometime in 2003.

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# Information Sharing Area for SME Workgroup Members

- Minutes of Meetings
- List Serv and Archives
- Document Sharing Area
- SME Completed Surveys and Contact List

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# Online Training Overview

What is the purpose of this Online Training?

Why Environmental Accounting?

Who will use it? & How will it help?

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# Online Training

## Four Lessons:

- [1] Introduction to Environmental Accounting
- [2] Collecting and Identifying Costs and Savings
- [3] Methods to Calculate Profitability
- [4] Selling Your Project to Management

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# Online Training

Each lesson has the following steps:

- [1] Slide Show
- [2] Tutorial
- [3] Quiz
- [4] Applied exercises and discussion

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## Learner

## Customization

- **Company name**
- **Other criteria**



**Canadian Centre  
for Pollution Prevention**  
*Canada's Foremost Pollution Prevention Resource*

Please enter the Organization Name you work for and select the appropriate number of employees.

**Company Name:**

**Number of employees:**

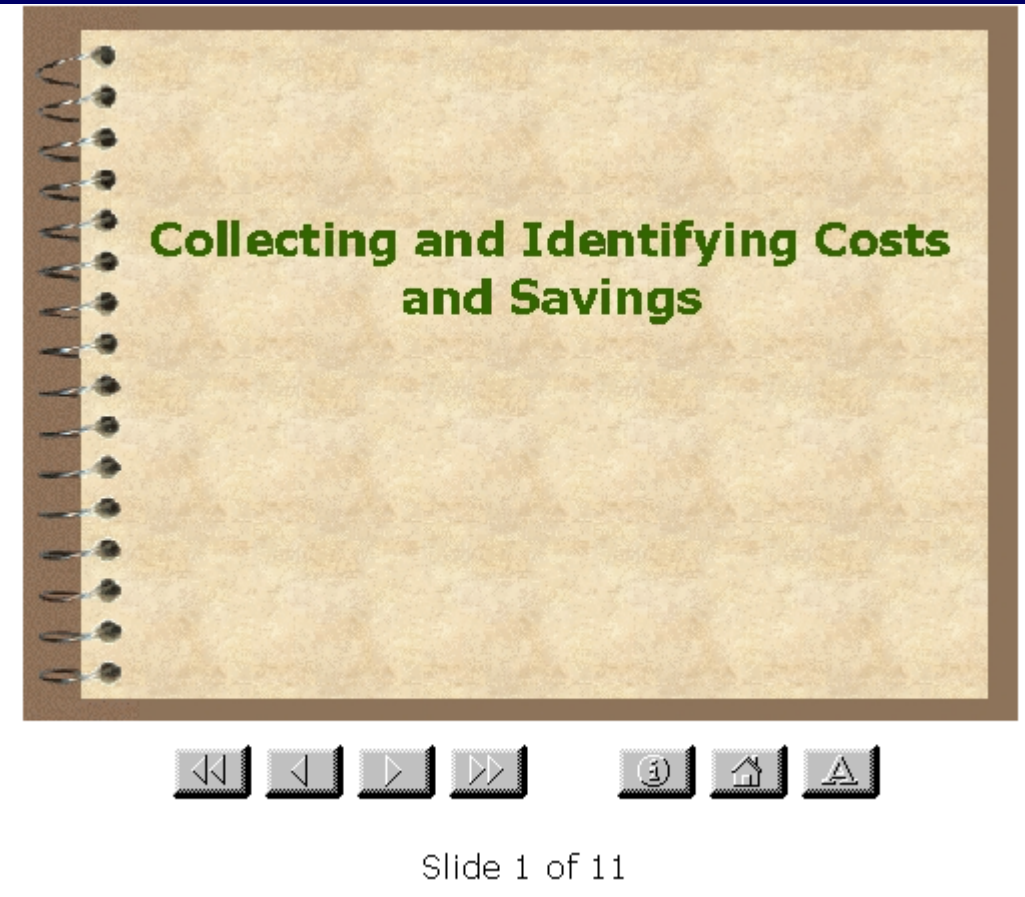
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## Slide Show

- Overview of main ideas
- Can be facilitated or self-directed



The slide features a background of a spiral-bound notebook with a light brown, textured cover. The title "Collecting and Identifying Costs and Savings" is written in a bold, green, sans-serif font in the center of the page. Below the notebook image is a navigation bar with several icons: a double left arrow, a single left arrow, a single right arrow, a double right arrow, a refresh/circular arrow icon, a home icon, and a search icon. Below the navigation bar, the text "Slide 1 of 11" is displayed.

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## Tutorial

- Goes more in depth on main concepts
- Self-directed
- Use of examples, links throughout

### Tutorial 1: Introduction to Environmental Accounting (page 1 of 4)

#### Why should Tim Hortons do Environmental Accounting?

As a small business, when Tim Hortons delivers good and services to their customers, environmental costs are one of the many types of costs that Tim Hortons incurs.

Environmental performance is an important measure of business success for the following reasons:

**(1)** Many environmental costs can be significantly reduced or eliminated as a result of business decisions, ranging from operational and housekeeping changes, to investment in "greener" process technology, to redesign of processes/products.

#### ===== Example =====

The bicycle manufacturer [Cycles DeVinci](#) from Quebec used to paint their bicycle frames the regular way – spray painting. Over-spraying results in a lot of wasted paint which then had to be disposed of as hazardous waste. DeVinci owners investigated other more environmentally friendly ways to paint and selected electrostatic painting. Following an \$80,000 investment, DeVinci was able to save on new products purchased, reduced hazardous waste disposal costs, and also increased production of bicycle frames. The return on the investment was eight months and recurring annual savings total \$82 000.

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## Quiz

- Demonstrate what you learned
- Multiple Choice
- Correct answer elaborated upon

### Quiz 1: Introduction to Environmental Accounting

Correct answers are highlighted gray

Quiz Results are: You answered 1 question(s) correctly.

1) When is Environmental Accounting used?

- A) For internal purposes only, to plan and direct management attention.
- B) For external purposes only, to audiences that require the information such as lenders.
- C) For assessing environmental costs and performance in business decisions and operations.
- D) All of the above  Environmental Accounting stems from both financial and management accounting and can be used in all described circumstances. It can also be used to inform decisions such as purchasing and as a way to motivate behavior to improve business results.

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## Additional Tools & Resources

- Complementary training
- More in-depth tools on Environmental Accounting
- Case Studies

### Tools and Resources

*Try other training packages on pollution prevention planning and access tools on financial analysis and performance measurement.*

**Complementary P2 training packages:**

- **Pollution Prevention Planning Tutorial** - Environment Canada

**Tools on financial analysis and performance measurement:**

- **Environmental Accounting Project** - U.S. Environmental Protection Agency

- **P2 Finance Software** - Tellus

- **Environmental Management Accounting Topic Hub** - Northeast Waste Management Officials' Association (NEWMOA)

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# Online Training Next Steps

- Finalize Remaining Content
- Development of Applied Exercises
- Discussion Board (Live component?)
- Testing and Engaging Participants

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# How to Become Involved

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