

# 2024 Annual Environmental Protection Expenditure Survey

**CONFIDENTIAL once completed.**

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This information is collected under the authority of the *Statistics Act*, Revised Statutes of Canada, 1985, Chapter S-19. COMPLETION OF THIS QUESTIONNAIRE IS A LEGAL REQUIREMENT UNDER THIS ACT.

## Introduction

### Survey purpose

The purpose of this survey is to obtain information on the expenditures made by industry to protect the environment in Canada. This information serves as an important indicator of Canadian investment in environmental protection.

Data from this survey are used by all levels of government in establishing informed environmental policies. The private sector also uses this information in the corporate decision-making process.

Your information may also be used by Statistics Canada for other statistical and research purposes.

### Security of emails and faxes

Statistics Canada advises you that there could be a risk of disclosure during facsimile or email. However upon receipt, Statistics Canada will provide the guaranteed level of protection afforded all information collected under the authority of the *Statistics Act*.

**Note:** As online questionnaires are secure, there is no risk of data interception when responding to Statistics Canada online surveys.

### Confidentiality

The *Statistics Act* protects the confidentiality of information collected by Statistics Canada.

### Data-sharing agreements

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes.

Information on confidentiality, data-sharing agreements and record linkages can be found on the last page of this questionnaire.

**Please return the questionnaire within 21 days.**

Please mail the completed questionnaire in the enclosed envelope or fax it to Statistics Canada at 1-888-883-7999.

If you are unable to complete within 21 days OR if you need help, call us at 1-877-949-9492 or TTY 1-800-363-7629.

Statistics Canada  
Operations and Integration Division  
150 Tunney's Pasture Driveway  
Ottawa, Ontario K1A 0T6

Visit our website, [www.statcan.gc.ca](http://www.statcan.gc.ca)

## Reporting instructions

- Please print in ink.
- This survey collects information on **environmental protection expenditures and investments**. For example, purchase of machinery or technology outlays, hiring of clean technology specialists, expenditures on solid waste, water and air pollution management activities or purchase of permits.
- Enter all your operating expenses and capital expenditures, **whether or not they are in response to current or anticipated Canadian or international regulations, conventions or voluntary agreements**.
- Please report **expenditures made by the establishment listed above**.
- **Report** all dollar amounts in **Canadian dollars (CAN\$)**, rounded to the nearest dollar.
- Percentages should be rounded to whole numbers.
- When precise figures are not available, provide your best estimates.
- Enter '0' if there is no value to report.

## Business or organization and contact information

1. **Verify or provide** the business or organization's **legal and operating name** and correct where needed.

**Note:** Legal name modifications should only be done to correct a spelling error or typo.

Legal name

Operating name (if applicable)

2. **Verify or provide the contact information** of the designated business or organization **contact person** for this questionnaire and correct where needed.

**Note:** The designated contact person is the person who should receive this questionnaire. The designated contact person may not always be the one who actually completes the questionnaire.

First name

Last name

Title

Preferred language of communication

☐ English ☐ French

Mailing address (number and street)

City

Province, territory or state

Postal code or ZIP code

Example: A9A 9A9 or 12345-1234

Country

Email address

Example: user@example.gov.ca

Telephone number (including area code)

Example: 123-123-1234

Extension number  
(if applicable)

Fax number (including area code)

Example: 123-123-1234

3. **Verify or provide the current operational status** of the business or organization identified by the legal and operating name above.

B00323

1 ☐ Operational ➤ **Go to question 4**

2 ☐ Not currently operational  
e.g., temporarily or permanently closed, change of ownership

➔ Why is this business or organization not currently operational?

B00309

2 ☐ Seasonal operations ➤ **Go to question 3a**

3 ☐ Ceased operations ➤ **Go to question 3b**

4 ☐ Sold operations ➤ **Go to question 3c**

5 ☐ Amalgamated with other businesses or organizations ➤ **Go to question 3d**

6 ☐ Temporarily inactive but will re-open ➤ **Go to question 3e**

7 ☐ No longer operating due to other reasons ➤ **Go to question 3f**

### 3a. Seasonal operations

When did this business or organization close for the season?

YYYY MM DD  
B00217  
Date

When does this business or organization expect to resume operation?

YYYY MM DD  
B00218  
Date ➤ **Go to question 4**

### 3b. Ceased operations

When did this business or organization cease operations?

YYYY MM DD  
B00211  
Date

Why did this business or organization cease operations?

B00311

1 ☐ Bankruptcy

2 ☐ Liquidation

3 ☐ Dissolution

4 ☐ Other  
Specify the other reasons why the operations ceased

➤ **Go to question 4**

### 3c. Sold operations

When was this business or organization sold?

Date B00212

YYYY				MM		DD	

What is the legal name of the buyer?

➤ Go to question 4

B00406

### 3d. Amalgamated with other businesses or organizations

When did this business or organization amalgamate?

Date B00213

YYYY				MM		DD	

What is the legal name of the resulting or continuing business or organization?

B00407

What are the legal names of the other amalgamated businesses or organizations?

➤ Go to question 4

B00408

### 3e. Temporarily inactive but will re-open

When did this business or organization become temporarily inactive?

Date B00214

YYYY				MM		DD	

When does this business or organization expect to resume operations?

Date B00215

YYYY				MM		DD	

Why is this business or organization temporarily inactive?

➤ Go to question 4

B00313

### 3f. No longer operating due to other reasons

When did this business or organization cease operations?

Date B00216

YYYY				MM		DD	

Why did this business or organization cease operations?

B00314

4. **Verify or provide the current main activity** of the business or organization identified by the legal and operating name.

**Note:** The described activity was assigned using the North American Industry Classification System (NAICS).

B05002

1 ☐ This is the current main activity ➤ **Go to next section**

2 ☐ This **is not** the current main activity  
Provide a **brief but precise description** of this business or organization's **main activity**,  
e.g., breakfast cereal manufacturing, shoe store, software development

B05003

5. Was this business or organization's main activity ever classified as:

B05111

1 ☐ Yes

2 ☐ No ➤ **Go to next section**

6. When did the main activity change?

B00219

Date

YYYY

MM

DD

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## Reporting period information

1. What are the start and end dates of this organization's fiscal year for this survey?

**Note:** For this survey, the end date should fall between April 1, 2024 and March 31, 2025.

Fiscal Year  
Start date

B00205

YYYY MM DD

Fiscal Year  
End date

B00206

YYYY MM DD

2. If the reporting period **does not cover a full year**, please check the reason(s) below (mark all that apply):

B00301\_r1

☐ Seasonal operations

B00301\_r2

☐ New business

B00301\_r3

☐ Change of ownership

B00301\_r4

☐ Temporarily inactive

B00301\_r5

☐ Change of fiscal year

B00301\_r6

☐ Ceased operations

B00301\_r7

☐ Other reason — please specify:

B00301\_r8

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## Solid waste management

1. Report this establishment's capital expenditures and operating expenses for non-hazardous and hazardous **solid waste management** during the 2024 fiscal year.

**Report \$0 for the two categories of expenditures if your establishment is located on a rental property, and that those expenditures are included in the rent paid to the owner of the building.**

**If your establishment is responsible to pay the municipal taxes report the amount towards solid waste management in operating expenses.**

**Include** expenditures related to:

- non-hazardous and hazardous solid waste collection, transport, treatment, storage, disposal, recycling, and composting
- on-site preparation of materials for recycling at an off-site facility done by your establishment's employees and services provided by a private contractor or a federal, provincial or local government body
- assessments and audits
- activities related to measurement, control, laboratories
- municipal services (e.g., municipal taxes paid by your establishment)
- both own-account expenses (e.g., employee wages and salaries) and purchased goods and services.

**Exclude** expenditures on:

- on-site recycling
- sewage or wastewater management (to be reported in question 5)
- treatment of high-level radioactive waste (to be reported in question 5)

**To report operating expenses:**

**Include** all expenses related to environmental protection incurred for labour, materials and supplies, maintenance and repair, and purchased services (include fuel and electricity expenses for machinery and equipment whose sole purpose is to protect the environment).

**Exclude** depreciation on machinery and equipment.

**To report capital expenditures:**

**Include** all relevant outlays for machinery and equipment and their installation and repair that have been capitalized, as well as for the construction of non-residential facilities (contractors or own employees). For construction **include** all costs associated with demolition, planning and design (such as engineering and consulting fees), any materials supplied to construction contractors for installation and any costs associated with the purchase of land that are neither amortized nor depreciated.

**Exclude** any provisions for future environmental liability (i.e., obligations to clean up or pay for the cleanup of contamination).

If the expenditure is zero or if not applicable, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

	CAN\$
a. Capital expenditures	\$ <input type="text"/> .00 F80132_y9
b. Operating expenses	\$ <input type="text"/> .00 F61078_y9
<b>Total expenditures</b>	\$ <input type="text"/> .00 F60007_y9

2. Of the **total expenditures** reported in question 1, report the **proportion spent externally on purchased goods, technologies and services.**

Purchased goods, technologies and services are goods, technologies and services provided by an outside company or service provider. They **exclude** in-house or own-account expenditures, such as employee wages and salaries.

When precise figures are not available, provide your best estimate.

Percentage  
spent

%

F61336\_y9

3. Which of the following **goods and technologies related to solid waste management** were purchased by this establishment during the 2024 fiscal year?

Mark all that apply.

- 1 ☐ Collection vehicles for waste, recycling and organics  
B05349\_y9\_p351
- 1 ☐ Containers for collection of waste, recycling and organics  
B05349\_y9\_p352
- 1 ☐ Other recycling equipment used in collection  
B05349\_y9\_p353
- 1 ☐ Separating and sorting-related goods and technologies  
**e.g.**, air classifiers, magnetic separators, eddy current separators  
B05349\_y9\_p354
- 1 ☐ Compaction-related goods and technologies  
**e.g.**, balers, densifiers, compactors, shredders, granulators  
B05349\_y9\_p355
- 1 ☐ Centralized biological reprocessing technologies  
**e.g.**, centralized composters  
B05349\_y9\_p356
- 1 ☐ Equipment for landfill leachate collection and containment  
B05349\_y9\_p23
- 1 ☐ Equipment for landfill gas management  
B05349\_y9\_p24
- 1 ☐ Equipment for thermal treatment  
**e.g.**, rotary kiln incinerator, mass burning, fluidized bed incinerator, fluidized bed  
B05349\_y9\_p25
- 1 ☐ Other  
B05349\_y9\_p357

Specify other solid waste management goods or technologies purchased

B05349\_y9\_p358

OR

- 1 ☐ No purchases  
B05349\_y9\_p359



4. Which of the following **services related to solid waste management** (i.e., waste, recycling and organics) were used by this establishment during the 2024 fiscal year?

Mark all that apply.

- 1 ☐ Solid waste collection and treatment services included in the rent (paid by the owner of the building)  
B05351\_y9\_p344
- 1 ☐ Solid waste collection and treatment services provided by a government body (paid in taxes and municipal taxes)  
If selected, go back to question 1 and enter the dollar figure from the municipal tax into the operating expenses field.  
**Include** services offered by government bodies (e.g., municipal waste collection) or by a private company **hired by a government body** to collect and manage solid waste.  
B05351\_y9\_p342

- 1 ☐ Solid waste collection and treatment services provided by a private contractor  
If selected, go back to question 1 and enter the dollar figure from the invoice into the operating expenses field.  
**Include** services provided by a private contractor **hired by your establishment** to collect and manage solid waste.  
e.g., GFL (Green for life), Wasteco  
B05351\_y9\_p343

- 1 ☐ Other  
B05351\_y9\_p345  
Specify other solid waste management services

B05351\_y9\_p346

OR

- 1 ☐ No services used  
B05351\_y9\_p347

## Wastewater management

5. Report this establishment's capital expenditures and operating expenses for **wastewater management** during the 2024 fiscal year.

**Report \$0 for the two categories of expenditures if your establishment is located on a rental property, and that these expenditures are included in the rent paid to the owner of the building.**

**If your establishment is responsible to pay the municipal taxes report the amount towards wastewater management in operating expenses.**

**Include** expenditures related to:

- prevention of wastewater through in-process modifications
- wastewater treatment, **including** pollution abatement and control (end-of-pipe) processes
- management of substances released to surface waters, municipal sewer systems, soil or underground
- treatment of cooling water for disposal
- the installation of sewage infrastructure and expenditures related to the use, collection, treatment and disposal of sewage, **including** septic tanks
- sewage services provided by a federal, provincial or local government body (e.g., municipal taxes paid by your establishment)
- handling and treatment of mine tailings
- assessments and audits
- activities related to measurement, control, laboratories
- both own-account expenses (e.g., employee wages and salaries) and purchased goods and services.

**Exclude** expenditures on the protection of groundwater from pollutant infiltration and the cleaning up of soil and water bodies after pollution (to be reported in question 18).

If the expenditure is zero or if not applicable, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

CAN\$

a. Capital expenditures

\$  .00

F80132\_y10

b. Operating expenses

\$  .00

F61078\_y10

**Total expenditures**

\$  .00

F60007\_y10

6. Of the **total expenditures** reported in question 5, report the **proportion spent externally on purchased goods, technologies and services.**

Purchased goods, technologies and services are goods, technologies and services provided by an outside company or service provider. They **exclude** in-house or own-account expenditures, such as employee wages and salaries.

When precise figures are not available, provide your best estimate.

Percentage  
spent

%

F61336\_y10

**i Wastewater pollution abatement and control (end-of-pipe processes)** is any method, technique, or process designed to manage and treat pollution **after it is generated** during the production activities.

**For example:**

- biological and chemical systems to treat water (such as water treatment plants)
- filtration systems
- cyclones
- septic tanks, portable toilets
- other barrier systems
- treatment of cooling water before release
- municipal, provincial or federal sewage services.

**Wastewater pollution prevention (integrated processes)** is any method, technique, or process that **reduces or eliminates** the amount of pollution generated during the production process, **i.e., before pollution is created**. Pollution prevention activities can **include** equipment and technology modifications.

**For example:**

- product design or reformulation to be less toxic upon use, release or disposal
- equipment or process modifications (integrated processes)
- recirculation, on-site recycling or reuse or recovery of polluting substances
- materials or feedstock substitution, solvent reduction, elimination or substitution
- improved inventory management or purchasing techniques
- prevention of leaks and spills of polluting substances
- improved operating practices or pollution prevention training
- **exclude** expenditures related to research and development (not covered in this survey).

7. Of the **capital expenditures** reported for **wastewater management** (question 5a), what proportion was spent on each of the following?

If the proportion is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

a. **Pollution abatement and control** (end-of-pipe)  
i.e., manage or treat pollution after it has been created

Percentage

%

F80132\_y10\_m1

b. **Pollution prevention** (integrated processes)  
i.e., reduce or eliminate pollution before it is created

%

F80132\_y10\_m2

**Total percentage**

Should be equal to 100%

**100** %

F80132\_y10\_m3

8. Of the **operating expenses** reported for **wastewater management** (question 5b), what proportion was spent on each of the following?

If the proportion is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

a. **Pollution abatement and control** (end-of-pipe)  
i.e., manage or treat pollution after it has been created

Percentage

%

F61078\_y10\_m1

b. **Pollution prevention** (integrated processes)  
i.e., reduce or eliminate pollution before it is created

%

F61078\_y10\_m2

**Total percentage**

Should be equal to 100%

**100** %

F61078\_y10\_m3

9. Which of the following **goods and technologies related to wastewater management** were purchased by this establishment during the 2024 fiscal year?

Mark all that apply.

- 1 ☐ Tanks and related components for dilution or equalization, neutralization, sedimentation, chemical precipitation  
B05349\_y10\_p53
- 1 ☐ Oil separators, skimmers used in industrial wastewater  
B05349\_y10\_p54
- 1 ☐ Oil separators, skimmers in sewage treatment  
B05349\_y10\_p64
- 1 ☐ Ion exchange beds  
B05349\_y10\_p55
- 1 ☐ Air stripping tanks or columns  
B05349\_y10\_p56
- 1 ☐ Liquid extraction columns  
B05349\_y10\_p57
- 1 ☐ Micro-porous membrane adsorbers  
B05349\_y10\_p58
- 1 ☐ Equipment for advanced chemical oxidation or UV radiation  
B05349\_y10\_p84
- 1 ☐ Pre-treatment filters  
B05349\_y10\_p60
- 1 ☐ Chemicals used in industrial wastewater treatment  
B05349\_y10\_p61
- 1 ☐ Chemicals used in sewage treatment  
B05349\_y10\_p69
- 1 ☐ Intake screens  
B05349\_y10\_p62
- 1 ☐ Air sparging grit chambers  
B05349\_y10\_p63
- 1 ☐ Tanks and related components for sedimentation, chemical precipitation or flocculation, aerobic biological treatment, aeration, clarification, disinfection  
B05349\_y10\_p65
- 1 ☐ Membrane bioreactors  
B05349\_y10\_p66
- 1 ☐ Trickling filters  
B05349\_y10\_p67
- 1 ☐ Anaerobic digesters  
B05349\_y10\_p68
- 1 ☐ Other  
B05349\_y10\_p360
- Specify other goods or technologies purchased for wastewater management
- B05349\_y10\_p361

OR

- 1 ☐ No purchases  
B05349\_y10\_p362

10. Which of the following **services related to wastewater management** were used by this establishment during the 2024 fiscal year?

Mark all that apply.

1

☐

Wastewater management services included in the rent (paid by the owner of the building)

B05351\_y10\_p344

1

☐

Wastewater management services provided by a government body (paid in taxes, like municipal taxes).  
If selected, go back to question 5 and enter the dollar figure from the municipal tax into the operating expenses field.  
**Include** services offered by government bodies (e.g., municipal sewage) or by a private company **hired by a government body** to manage and treat wastewater.

B05351\_y10\_p342

1

☐

Wastewater management services provided by a private contractor.  
If selected, go back to question 5 and enter the dollar figure from the municipal tax into the operating expenses field.  
**Include** services provided by a private contractor **hired by your establishment** to manage wastewater, e.g., private company contracted to empty the septic tank.

B05351\_y10\_p343

1

☐

Other

B05351\_y10\_p348

Specify other wastewater management services

B05351\_y10\_p349

OR

1

☐

No services used

B05351\_y10\_p350

## Environmental protection

11. During the 2024 fiscal year, did this establishment have environmental protection expenditures in any of the following categories?

**Include capital expenditures and operating expenses.**

Report both **own-account** expenses (e.g., employee wages and salaries) and purchases of goods and services.

	Yes	No
<p><b>a. Air pollution management</b> Expenditures related to <b>air pollution prevention</b> (i.e., integrated processes) and <b>air pollution abatement and control</b> (i.e., end-of-pipe processes), <b>including</b> monitoring and related environmental assessments and audits. <b>e.g.</b>, scrubbers, air and off-gas treatments, low emitting burners, leak detection technologies <b>Exclude</b> heat or energy savings and management (to be reported in question 31a), the purchase of clean vehicle and transportation equipment (to be reported in question 31b), the production of renewable or clean energy (to be reported in questions 31c and 31e), the purchase of biofuels, biochemical products or biomaterials (to be reported in question 31d), and the purchase of carbon offset credits (to be reported in part f, below).</p> <p>B05203_y11</p>	1 <input type="radio"/>	2 <input type="radio"/>
<p><b>b. Protection and remediation of soil, groundwater and surface water</b> Expenditures for the prevention of pollution infiltration, cleaning up of soil and water bodies, protection of soil from erosion, salinization and physical degradation, related environmental assessments and audits, monitoring, site reclamation and decommissioning. <b>Include</b> decommissioning expenditures incurred in the 2024 fiscal year even if the site closed before this period. <b>Exclude</b> wastewater management (to be included in question 5)</p> <p>B05203_y12</p>	1 <input type="radio"/>	2 <input type="radio"/>
<p><b>c. Protection of biodiversity and habitat</b> Expenditures related to protecting wildlife and habitat from the effects of economic activity and to restoring wildlife or habitat that has been adversely affected by such activity, <b>including</b> monitoring and related environmental assessments and audits. Logging activities: <b>exclude</b> foregone revenues resulting from regulations or conventions that reduce the allowable harvest.</p> <p>B05203_y13</p>	1 <input type="radio"/>	2 <input type="radio"/>
<p><b>d. Noise and vibration abatement</b> Expenditures related to the control, reduction and abatement of industrial and transport noise and vibration related to the activities of this establishment, <b>including</b> related environmental assessments and audits. <b>Exclude</b> the abatement of noise and vibration for the purpose of workplace protection.</p> <p>B05203_y14</p>	1 <input type="radio"/>	2 <input type="radio"/>
<p><b>e. Protection against radiation</b> Expenditures for the reduction or elimination of the negative consequences of high-level radiation, <b>including</b> the handling, transportation and treatment of high-level radioactive waste – that is, waste that requires shielding during normal handling and transportation because of its high radionuclide content. <b>Exclude</b> management of low-level radioactive waste (to be included in question 1).</p> <p>B05203_y15</p>	1 <input type="radio"/>	2 <input type="radio"/>
<p><b>f. Environmental charges</b> Expenditures for permits, approvals, fees, service assessments and related fees, carbon offset credits, fines, penalties or damage awards paid to government agencies or to individuals and other charges paid to regulating bodies in order to allow operations to take place at this establishment.</p> <p>B05203_y8</p>	1 <input type="radio"/>	2 <input type="radio"/>
<p><b>g. Other environmental protection activities</b> Expenditures related to the general administration of environmental programs, training, assessments and audits that could not be separated into any of the categories listed above, and other initiatives not already reported. Report imputed interest on funds held in trust against future environmental liabilities. <b>Exclude</b> research and development (not covered in this survey); heat or energy savings and management (to be reported in question 31a), the purchase of clean vehicles and transportation goods (to be reported in question 31b), the production of renewable or clean energy (to be reported in questions 31c and 31e), and the purchase of biofuels, biochemicals or biomaterials (to be reported in question 31d).</p> <p>B05203_y90</p>	1 <input type="radio"/>	2 <input type="radio"/>

## Air pollution management

12. Report this establishment's capital expenditures and operating expenses for **air pollution management** during the 2024 fiscal year.

**Include** expenditures related to:

- the management of pollutant emissions to the atmosphere, **including** greenhouse gas emissions
- both pollution prevention (integrated processes) and pollution abatement and control (end-of-pipe processes)
- assessments and audits
- activities related to measurement, control, laboratories
- both own-account expenses (e.g., employee wages and salaries) and purchased goods and services.

**Exclude** expenditures related to:

- workers' health and safety (e.g., maintenance of indoor air quality)
- measures undertaken for cost-saving reasons, such as heat or energy savings (to be reported in question 31a)
- the purchase of electric or hybrid vehicles (to be reported in question 31b)
- the production of renewable or clean energy (to be reported in questions 31c and 31d)
- the purchase of biofuels (to be reported in question 31d)
- the purchase of renewable energy (not included in this survey).

If the expenditure is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

	CAN\$
a. Capital expenditures	\$ <input type="text"/> .00 F80132_y11
b. Operating expenses	\$ <input type="text"/> .00 F61078_y11
<b>Total expenditures</b>	\$ <input type="text"/> .00 F60007_y11

13. Of the **total expenditures** reported in question 12, report the **proportion spent externally on purchased goods, technologies and services**.

Purchased goods, technologies and services are goods, technologies and services provided by an outside company or service provider. They **exclude** in-house or own-account expenditures, such as employee wages and salaries.

When precise figures are not available, provide your best estimate.

Percentage  
spent

%

F61336\_y11

**i** **Air pollution abatement and control (end-of-pipe processes)** is any method, technique, or process designed to manage and treat pollution **after it is generated** during the production activities.

**For example:**

- scrubbers at the end of emission stacks
- filtration systems
- cyclones
- other barrier systems.

**Air pollution prevention (integrated processes)** is any method, technique, or process that reduces or eliminates the amount of pollution generated during the production process - **i.e., before pollution is created**. Pollution prevention activities can include equipment and technology modifications.

**For example:**

- product design or reformulation to be less toxic upon use, release or disposal
- equipment or process modifications (integrated processes)
- recirculation, on-site recycling or reuse/recovery of air polluting substances
- materials or feedstock substitution, solvent reduction, elimination or substitution
- improved inventory management or purchasing techniques
- prevention of leaks of polluting substances
- improved operating practices or pollution prevention training
- **exclude** expenditures related to research and development (not covered in this survey).

14. Of the **capital expenditures** reported for **air pollution management** (question 12a), what proportion was spent on each of the following?

If the proportion is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

Percentage

- a. **Pollution abatement and control** (end-of-pipe)  
i.e., manage or treat pollution after it has been created

%  
F80132\_y11\_m1

- b. **Pollution prevention** (integrated processes)  
i.e., reduce or eliminate pollution before it is created

%  
F80132\_y11\_m2

**Total percentage**  
Should be equal to 100%

**100** %  
F80132\_y11\_m3

15. Of the **operating expenses** reported for **air pollution management** (question 12b), what proportion was spent on each of the following?

If the proportion is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

Percentage

- a. **Pollution abatement and control** (end-of-pipe)  
i.e., manage or treat pollution after it has been created

%  
F61078\_y11\_m1

- b. **Pollution prevention** (integrated processes)  
i.e., reduce or eliminate pollution before it is created

%  
F61078\_y11\_m2

**Total percentage**  
Should be equal to 100%

**100** %  
F61078\_y11\_m3



16. Which of the following **goods and technologies related to air pollution management** were purchased by this establishment during the 2024 fiscal year?

Mark all that apply.

➤ **Physical or chemical treatment technologies**

- 1 ☐ Filters and cyclones  
e.g., membrane, baghouse, granular bed  
B05349\_y11\_p29
- 1 ☐ Electrostatic precipitators  
B05349\_y11\_p30
- 1 ☐ Scrubbers  
e.g., venturi, spray tower, mechanical, plate tower, packed tower  
B05349\_y11\_p31
- 1 ☐ Waste gas absorbers and waste gas flare or incinerators  
B05349\_y11\_p32
- 1 ☐ Industrial catalytic converters  
B05349\_y11\_p33
- 1 ☐ Pollutant recovery condensers  
B05349\_y11\_p34
- 1 ☐ Adsorbers  
B05349\_y11\_p35
- 1 ☐ Other  
B05349\_y11\_p364

Specify other physical or chemical treatment technologies purchased

B05349\_y11\_p365

OR

- 1 ☐ No purchases  
B05349\_y11\_p366

➤ **Greenhouse gas control technologies**

- 1 ☐ Clean coal processing technologies  
B05349\_y11\_p39
- 1 ☐ Carbon capture and sequestration technologies and storage  
B05349\_y11\_p40
- 1 ☐ Air and off-gas treatments  
e.g., oxidation, scrubbing, vapour phase carbon adsorption  
B05349\_y11\_p102
- 1 ☐ Other  
B05349\_y11\_p41

Specify other greenhouse gas control technologies purchased

B05349\_y11\_p42

OR

- 1 ☐ No purchases  
B05349\_y11\_p367

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► **Air quality and air pollution technologies**

- 1 ☐ Low emitting burners  
e.g., low NOx, low SOx  
B05349\_y11\_p43

- 1 ☐ Other  
B05349\_y11\_p44

Specify other air quality and air pollution technologies purchased

B05349\_y11\_p45

OR

- 1 ☐ No purchases  
B05349\_y11\_p368

► **Monitoring and compliance technologies**

- 1 ☐ Leak detection technologies  
B05349\_y11\_p46

- 1 ☐ Environmental measurement apparatus  
B05349\_y11\_p47

- 1 ☐ Other  
B05349\_y11\_p48

Specify other monitoring and compliance technologies purchased

B05349\_y11\_p49

OR

- 1 ☐ No purchases  
B05349\_y11\_p370

17. Which of the following **services related to air pollution management** were purchased by this establishment during the 2024 fiscal year?

Mark all that apply.

► **Greenhouse gas management services**

- 1 ☐ Services for carbon credit trading, generation of compliance units, surplus allowances, emissions performance credits, and offset credits  
B05351\_y11\_p282

- 1 ☐ Preparation of emissions reports and verification services  
B05351\_y11\_p283

- 1 ☐ Allowance auctioning and exchange platform services  
B05351\_y11\_p284

- 1 ☐ Market monitoring services  
B05351\_y11\_p285

- 1 ☐ Offset protocol development and validation services  
B05351\_y11\_p286

- 1 ☐ Services for the development of compliance systems and electronic emissions reporting systems  
B05351\_y11\_p287

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...continued from previous page

1

☐

Other

B05351\_y11\_p371

Specify other greenhouse gas management services purchased

B05351\_y11\_p372

OR

1

☐

No purchases

B05351\_y11\_p373

➤ Air pollution management services

1

☐

Measuring and monitoring services

B05351\_y11\_p288

1

☐

Modelling and mapping services

B05351\_y11\_p289

1

☐

Risk assessment and management services

B05351\_y11\_p290

1

☐

Services for the development of compliance and electronic emissions reporting systems

B05351\_y11\_p291

1

☐

Other

B05351\_y11\_p44

Specify other air pollution management services purchased

B05351\_y11\_p45

OR

1

☐

No purchases

B05351\_y11\_p368

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## Protection and remediation of soil, groundwater and surface water

18. Report this establishment's capital expenditures and operating expenses for the **protection and remediation of soil, groundwater and surface water** during the 2024 fiscal year.

**Include** expenditures related to:

- prevention of pollutant infiltration
- remediation or cleaning up of soil and water bodies
- site reclamation and decommissioning (**include** decommissioning costs incurred in the 2024 fiscal year, even if the site was closed before this period)
- protection of soil from erosion and other physical degradation
- prevention and remediation of soil salinity
- assessments and audits
- activities related to measurement, control, laboratories
- both own-account expenses (e.g., employee wages and salaries) and purchased goods and services

**Exclude** expenditures related to:

- wastewater management activities (to be reported in question 5)
- protection of biodiversity and habitat (to be reported in question 21).

If the expenditure is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

CAN\$

a. Capital expenditures

\$  .00

F80132\_y12

b. Operating expenses

\$  .00

F61078\_y12

**Total expenditures**

\$  .00

F60007\_y12

19. Of the **total expenditures** reported in question 18, report the **proportion spent externally on purchased goods, technologies and services**.

Purchased goods, technologies and services are goods, technologies and services provided by an outside company or service provider. They **exclude** in-house or own-account expenditures, such as employee wages and salaries.

When precise figures are not available, provide your best estimate.

Percentage  
spent

%

F61336\_y12

20. Which of the following **goods and technologies related to protection and remediation of soil, groundwater and surface water** were purchased by this establishment during the 2024 fiscal year?

**Include** machinery, equipment, products, and technologies.

Mark all that apply.

1 ☐ In situ biological treatments  
**e.g.**, enhanced bioremediation, phytoremediation, bioventing  
B05349\_y12\_p377

1 ☐ Ex situ biological treatments  
**e.g.**, bioreaction, biopiles, landfarming, slurry phase biological treatment  
B05349\_y12\_p378

1 ☐ In situ physical and chemical treatments  
**Include** the purchase of chemicals for remediation of soil, sediment, sludge, ground water, surface water or leachate.  
**e.g.**, biochar, chemical oxidation, fracturing, soil flushing, soil vapour extraction, solidification, stabilization, air sparging, bioslurping, chemical oxidation, directional wells, dual phase extraction, thermal treatment, hydrofracturing enhancements, in-well air stripping, passive and reactive treatment walls  
B05349\_y12\_p379

1 ☐ Ex situ physical and chemical treatments  
**Include** the purchase of chemicals for remediation of soil, sediment, sludge, ground water, surface water and leachate.  
**e.g.**, chemical extraction, chemical reduction and oxidation, dehalogenation, separation, soil washing, solidification, stabilization, adsorption and absorption, advanced oxidation, air stripping, ion exchange, precipitation, flocculation, coagulation, separation, sprinkler irrigation  
B05349\_y12\_p380

1 ☐ In situ thermal treatments  
**e.g.**, hot air injection, electrical resistance  
B05349\_y12\_p111

1 ☐ Ex situ thermal treatments  
**e.g.**, incineration, pyrolysis, thermal desorption  
B05349\_y12\_p112

1 ☐ Containment  
B05349\_y12\_p381

1 ☐ Other  
B05349\_y12\_p382

Specify other goods or technologies purchased for the protection and remediation of soil, groundwater and surface water

B05349\_y12\_p383

OR

1 ☐ No purchases  
B05349\_y12\_p384

## Protection of biodiversity and habitat

21. Report this establishment's capital expenditures and operating expenses for the protection of biodiversity and habitat during the 2024 fiscal year.

**Include** expenditures related to:

- the protection, restoration and rehabilitation of wildlife and habitat
- purchase of land for protection of species and habitat
- assessments and audits
- activities related to measurement, control, laboratories
- both own-account expenses (e.g., employee wages and salaries) and purchased goods and services.

**Exclude** expenditures related to:

- site reclamation and decommissioning (to be reported in question 18)
- landscaping for decorative purposes, the rehabilitation of predominantly built-up landscapes, or other activities undertaken for predominantly aesthetic reasons
- weed control, maintenance of game or timber stocks, or other activities undertaken for predominant economic reasons
- protection and rehabilitation of historic monuments or predominantly built-up or urban landscapes (unless the purpose is the protection of biodiversity and habitat)
- foregone revenues resulting from regulations or conventions that reduce the allowable harvest (e.g., for logging activities).

If the expenditure is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

	CAN\$
a. Capital expenditures	\$ <input type="text"/> .00 F80132_y13
b. Operating expenses	\$ <input type="text"/> .00 F61078_y13
<b>Total expenditures</b>	\$ <input type="text"/> .00 F60007_y13

22. Of the **total expenditures** reported in question 21, report the **proportion spent externally on purchased goods, technologies and services**.

Purchased goods, technologies and services are goods, technologies and services provided by an outside company or service provider. They **exclude** in-house or own-account expenditures, such as employee wages and salaries.

When precise figures are not available, provide your best estimate.

Percentage  
spent

%

F61336\_y13

## Noise and vibration abatement

23. Report this establishment's capital expenditures and operating expenses for **noise and vibration abatement** during the 2024 fiscal year.

**Include** expenditures related to:

- the control, reduction and abatement of noise and vibration, **including** preventive inspection, modifications at the source and the construction of anti-noise or anti-vibration facilities, or any other related activities
- assessments and audits
- activities related to measurement, control, laboratories
- both own-account expenses (e.g., employee wages and salaries) and purchased goods and services.

**Exclude** expenditures related to workers' health and safety.

If the expenditure is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

CAN\$

a. Capital expenditures

\$  .00  
F80132\_y14

b. Operating expenses

\$  .00  
F61078\_y14

**Total expenditures**

\$  .00  
F60007\_y14

24. Of the **total expenditures** reported in question 23, report the **proportion spent externally on purchased goods, technologies and services**.

Purchased goods, technologies and services are goods, technologies and services provided by an outside company or service provider. They **exclude** in-house or own-account expenditures, such as employee wages and salaries.

When precise figures are not available, provide your best estimate.

Percentage  
spent

%  
F61336\_y14

## Protection against radiation

25. Report this establishment's capital expenditures and operating expenses for the **protection against radiation** during the 2024 fiscal year.

**Include** expenditures related to:

- protection of ambient media
- the transport and treatment of high-level radioactive waste
- assessments and audits
- activities related to measurement, control, laboratories
- both own-account expenses (e.g., employee wages and salaries) and purchased goods and services.

**Exclude** expenditures related to:

- the prevention of technological hazards (e.g., external safety of nuclear power plants)
- workers' health and safety
- management of low-level radioactive waste (reported in question 1).

If the expenditure is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

CAN\$

a. Capital expenditures

\$  .00  
F80132\_y15

b. Operating expenses

\$  .00  
F61078\_y15

**Total expenditures**

\$  .00  
F60007\_y15

26. Of the **total expenditures** reported in question 25, report the **proportion spent externally on purchased goods, technologies and services**.

Purchased goods, technologies and services are goods, technologies and services provided by an outside company or service provider. They **exclude** in-house or own-account expenditures, such as employee wages and salaries. When precise figures are not available, provide your best estimate.

Percentage  
spent

%

F61336\_y15

## Environmental charges

27. Report the amount this establishment paid in **environmental charges** during the 2024 fiscal year.

**Exclude** expenditures related to:

- environmental charges already reported in another question
- carbon taxes.

If the expenditure is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

CAN\$

- a. Permits, approvals, fees, special assessments and related fees

\$  .00

F61078\_y8\_sr1

- b. Carbon offset credits

**Exclude** carbon taxes.

\$  .00

F61078\_y8\_sr2

- c. Fines, penalties or damage awards paid to government agencies or individuals, or other charges paid to regulating bodies in order to allow operations to take place at this establishment

\$  .00

F61078\_y8\_sr3

- d. Other environmental charges

Specify all other environmental charges:

\$  .00

F61078\_y8\_sr5

F61078\_y8\_sr4

**Total environmental charges**

\$  .00

F61078\_y8\_sr6



## Other environmental protection activities

28. Report this establishment's capital expenditures and operating expenses for environmental protection during the 2024 fiscal year that were not already reported.

**Include** expenditures related to:

- the general administration of your environmental program
- environmental training and information programs not already reported
- assessments or audits not already reported
- any other environmental protection expenditures not already reported
- both own-account expenses (e.g., employee wages and salaries) and purchased goods and services.

**Exclude** expenditures related to:

- research and development (not covered in this survey)
- heat or energy savings and management (to be reported in question 31a)
- change to clean vehicles and transportation equipment (to be reported in question 31b)
- the production of renewable or clean energy (to be reported in questions 31c and 31e)
- the purchase of biofuels, biochemicals or biomaterials (to be reported in question 31d).

If the expenditure is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

CAN\$

a. Capital expenditures

\$  .00

F80132\_y90

b. Operating expenses

\$  .00

F61078\_y90

**Total expenditures**

\$  .00

F60007\_y90

29. Of the **total expenditures** reported in question 28, report the **proportion spent externally on purchased goods, technologies and services**.

Purchased goods, technologies and services are goods, technologies and services provided by an outside company or service provider. They **exclude** in-house or own-account expenditures, such as employee wages and salaries.

When precise figures are not available, provide your best estimate.

**Percentage  
spent**

%

F61336\_y90

## Reporting changes and events that affected the business

30. Describe any changes or events that may have affected the reported environmental protection values for this establishment compared to the last reporting period.

**e.g.,** We installed low-NOx burners in 2024 for air pollution management

Comment box


B00376

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## Environmental technologies and processes

31. During the 2024 fiscal year, did this establishment have expenditures in any of the following categories?

**Include** both operating and capital expenditures.

**a. Heat or energy savings and management**

Expenditures related to minimizing the intake of energy through in-process modifications as well as the minimization of heat and energy losses. This **includes** in-process modifications, insulation activities, energy recovery, monitoring, assessments and audits related to energy saving, and lighting upgrades.

B05203\_y16

**b. Clean vehicles and transportation equipment**

Expenditures related to the purchase of electric and hybrid vehicles, vehicles using alternative fuels, alternative fuel retrofits on existing vehicles, and low-rolling resistance tires.

B05203\_y17

**c. Production of energy from renewable sources, whether for sale or own use**

Expenditures related to the installation, operation and maintenance of equipment as well as operating and maintenance costs for existing equipment used to produce electricity or heat from renewable sources.

**e.g.**, wind, geothermal, hydroelectricity, solar, bioenergy and waste to energy

**Exclude** the costs of any feedstock used to produce energy, such as biofuel, to be included in (d), below.

B05203\_y18

**d. Purchase of biofuels, biochemical products or materials**

B05203\_y19

**e. Production of nuclear energy**

Expenditures related to the production of nuclear power.

**Exclude** the costs of any feedstock used to produce energy such as uranium.

B05203\_y20

Yes	No
1 <input type="radio"/>	2 <input type="radio"/>
1 <input type="radio"/>	2 <input type="radio"/>
1 <input type="radio"/>	2 <input type="radio"/>
1 <input type="radio"/>	2 <input type="radio"/>
1 <input type="radio"/>	2 <input type="radio"/>

## Heat or energy savings and management

32. Report this establishment's capital expenditures and operating expenses related to the **management of energy resources through heat or energy savings and management** during the 2024 fiscal year.

**Include** expenditures related to:

- energy savings through in-process modifications
- purchase of efficient industrial or commercial equipment, demand management technologies, or energy storage technologies
- purchase of energy efficiency services or smart grid services
- building and fleet energy audits
- thermal insulation activities
- energy recovery activities
- assessments and audits
- activities related to measurement, control, laboratories
- more efficient furnace
- lighting upgrades
- both own-account expenses (e.g., employee wages and salaries) and purchased goods, technologies and services.

**Exclude** expenditures related to:

- pollution abatement and control or prevention for air pollution (to be reported in question 12)
- the purchase of energy-efficient vehicles (to be reported in question 37)
- renewable/clean energy production (to be reported in questions 39 and 43)
- the purchase of biofuels (to be reported in question 41).

If the expenditure is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

CAN\$

a. Capital expenditures

\$  .00  
F80132\_y16

b. Operating expenses

\$  .00  
F61078\_y16

**Total expenditures**

\$  .00  
F60007\_y16

33. Of the **total expenditures** reported in question 32, report the **proportion spent externally on purchased goods, technologies and services**.

Purchased goods, technologies and services are goods, technologies and services provided by an outside company or service provider. They **exclude** in-house or own-account expenditures, such as employee wages and salaries.

When precise figures are not available, provide your best estimate.

Percentage  
spent

%

F61336\_y16

34. Which of the following **goods and technologies related to heat or energy savings and management** were purchased by this establishment during the 2024 fiscal year?

**Include** machinery, equipment, products, and technologies.

Mark all that apply.

► **Efficient industrial or commercial equipment**

- 1 ☐ High efficiency burners and boilers  
e.g., Energy Star  
B05349\_y16\_p197

- 1 ☐ High efficiency pumps and motors  
e.g., Energy Star, NEMA PremiumTM  
B05349\_y16\_p198

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- 1 ☐ High efficiency industrial or commercial HVAC  
e.g., Energy Star  
B05349\_y16\_p199
- 1 ☐ Combined heat and power generation (CHP/cogeneration)  
B05349\_y16\_p200
- 1 ☐ High efficiency industrial or commercial lighting systems  
e.g., Energy Star  
B05349\_y16\_p209
- 1 ☐ Automation and control technologies  
B05349\_y16\_p203
- 1 ☐ Energy efficient filters and processes  
B05349\_y16\_p385
- 1 ☐ Advanced insulation  
e.g., super insulating materials (SIMs), vacuum insulation panels (VIP), gas-filled panels (GIP) and aerogel-based products (ABP)  
B05349\_y16\_p210
- 1 ☐ Predictive maintenance technologies  
e.g., twinning, sensors, related software  
B05349\_y16\_p386
- 1 ☐ Other  
B05349\_y16\_p387
- Specify other efficient industrial or commercial equipment purchased

B05349\_y16\_p388

OR

- 1 ☐ No purchases  
B05349\_y16\_p389

► Demand management technologies

- 1 ☐ Smart inverters  
B05349\_y16\_p118
- 1 ☐ Smart meters and devices  
B05349\_y16\_p119
- 1 ☐ Phasor measurement unit  
B05349\_y16\_p120
- 1 ☐ Management systems  
e.g., software  
B05349\_y16\_p390
- 1 ☐ Other  
B05349\_y16\_p122
- Specify other demand management technologies purchased

B05349\_y16\_p123

OR

- 1 ☐ No purchases  
B05349\_y16\_p391

► Energy storage technologies

- 1 ☐ Flywheels  
B05349\_y16\_p124

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- 1 ☐ Equipment for pumped hydro systems  
B05349\_y16\_p125
- 1 ☐ Equipment for compressed air systems  
B05349\_y16\_p126
- 1 ☐ Advanced batteries  
e.g., NiCd, NiMH, Li-ion, NaS, NaNiCl, hybrid flow, redox flow, hydrogen storage, synthetic natural gas  
B05349\_y16\_p127
- 1 ☐ Fuel cells  
B05349\_y16\_p128
- 1 ☐ Thermal storage systems  
B05349\_y16\_p129
- 1 ☐ Double-layer capacitors (DLC)  
B05349\_y16\_p130
- 1 ☐ Superconducting magnetic energy storage (SMES)  
B05349\_y16\_p131
- 1 ☐ Other  
B05349\_y16\_p132  
Specify other energy storage technologies purchased:
- B05349\_y16\_p133

OR

- 1 ☐ No purchases  
B05349\_y16\_p392

35. Which of the following **services related to net-zero energy savings and management** were purchased by this establishment during the 2024 fiscal year?  
Mark all that apply

► **Energy efficiency services**

- 1 ☐ Green building certification services  
B05351\_y16\_p264
- 1 ☐ Building or fleet energy audit and air leakage testing services  
B05351\_y16\_p266
- 1 ☐ Energy management system services  
B05351\_y16\_p393
- 1 ☐ Energy monitoring services  
B05351\_y16\_p267
- 1 ☐ Energy demand control services  
B05351\_y16\_p268
- 1 ☐ Data analysis and modelling services  
B05351\_y16\_p269
- 1 ☐ Process integration services  
B05351\_y16\_p270
- 1 ☐ Services for advanced insulation activities  
B05351\_y16\_p271

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1 ☐ Energy efficiency consulting  
B05351\_y16\_p272

1 ☐ Predictive maintenance services  
B05351\_y16\_p386

1 ☐ Other  
B05351\_y16\_p214

Specify other energy efficiency services purchased

B05351\_y16\_p213

OR

1 ☐ No purchases  
B05351\_y16\_p394

➤ Smart grid services

1 ☐ Energy storage solutions  
B05351\_y16\_p317

1 ☐ Microgrid solutions  
B05351\_y16\_p318

1 ☐ Cyber security services  
B05351\_y16\_p319

1 ☐ Data management and communication solutions  
B05351\_y16\_p320

1 ☐ Demand management services  
e.g., peak load management and load following  
B05351\_y16\_p321

1 ☐ Monitoring solutions services  
e.g., self-healing grids  
B05351\_y16\_p322

1 ☐ Other  
B05351\_y16\_p323

Specify other smart grid services purchased

B05351\_y16\_p324

OR

1 ☐ No purchases  
B05351\_y16\_p395

36. Report this establishment's expenditures for **goods, technologies and services related to the management** of energy resources through **heat, energy saving and management** during the 2024 fiscal year in each of the following categories. The listed goods and services below are components of the total expenditures reported at question 32. Therefore, the total expenditures reported in this question should be equal to or lower than the total expenditures reported in question 32.

CAN\$

a. **Efficient industrial or commercial equipment**  
e.g., high efficiency burners and boilers (Energy Star), high efficiency pumps (Energy Star) and motors (NEMA PremiumTM), high efficiency light systems (Energy Star)  
\$  .00  
F61336\_y16\_p396

b. **Demand management technologies**  
e.g., smart inverters, smart meters and devices, phasor measurement units, management systems (software)  
\$  .00  
F61336\_y16\_p321

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c. **Energy storage technologies**

e.g., flywheels, equipment for pumped hydro systems and compressed air systems, advanced batteries, fuel cells, thermal storage systems

\$  ,00  
F61336\_y16\_p317

d. **Energy efficiency services**

e.g., green building certification services, building or fleet energy audit and air leakage testing services, energy management system services

\$  .00  
F61336\_y16\_p398

e. **Smart grid services**

e.g., energy storage solutions, microgrid solutions, cyber security systems, demand management services (i.e., peak load management and load following)

\$  .00  
F61336\_y16\_p399

**Total**

\$  .00  
F61336\_y16\_p401

## Clean vehicles and transportation equipment

37. Report the amount this establishment spent on the purchase of **clean vehicles and transportation equipment** during the 2024 fiscal year.

**Include:**

- electric, hybrid, and fuel cell vehicles (all-types)
- fuel efficient aircraft
- electric vehicle infrastructure
- alternative fuel and refuelling infrastructure
- low rolling resistance tires
- vehicle emissions monitoring technologies
- alternative fuel retrofit technologies
- equipment or software for vehicle fleet management and logistics.

**Exclude:**

- operating and maintenance costs for running clean vehicles
- expenses for fleet energy audits (to be reported in question 32)
- any equipment or vehicles for sale.

If the expenditure is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

**Total expenditures**

\$  .00  
F61336\_y17

38. Which of the following **clean vehicles and transportation equipment** were purchased by this establishment during the 2024 fiscal year?  
Mark all that apply.

► **Clean vehicles**

1 ☐ **Electric vehicles**  
**Include** all vehicle-types.  
B05349\_y17\_p402

1 ☐ **Hybrid vehicles**  
**Include** all vehicle-types.  
B05349\_y17\_p403

1 ☐ **Fuel cell vehicles**  
**Include** all vehicle-types.  
B05349\_y17\_p128

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- 1 ☐ Fuel efficient aircraft  
B05349\_y17\_p404

- 1 ☐ Other  
B05349\_y17\_p405

Specify other clean vehicles purchased

B05349\_y17\_p406

OR

- 1 ☐ No purchases  
B05349\_y17\_p407

➤ Clean transportation equipment

- 1 ☐ Electric vehicle infrastructure  
**Include** charging stations.  
B05349\_y17\_p222

- 1 ☐ Alternative fuel and refuelling infrastructure  
**Include** hydrogen and natural gas.  
B05349\_y17\_p223

- 1 ☐ Low rolling resistance tires  
B05349\_y17\_p230

- 1 ☐ Vehicle emission monitoring  
B05349\_y17\_p231

- 1 ☐ Alternative fuel retrofit technologies  
B05349\_y17\_p316

- 1 ☐ Equipment or software for vehicle fleet management and logistics  
B05349\_y17\_p313

- 1 ☐ Other  
B05349\_y17\_p408

Specify other clean transportation equipment purchases

B05349\_y17\_p409

OR

- 1 ☐ No purchases  
B05349\_y17\_p410

## Production of energy from renewable sources

39. Report this establishment's capital expenditures and operating expenses related to the **production of energy from renewable sources** during the 2024 fiscal year, **including** both electricity and heat.

Report also the proportion of energy produced from renewable sources for **own use**.

**Include** expenditures related to:

- the production of energy from renewable sources, whether for sale or own use
- the installation, operation, and maintenance of equipment, **including** infrastructure to support the production of renewable energy (e.g., costs for approvals and planning, transmission and distribution lines and other infrastructure)
- the operating and maintenance expenses of existing equipment.

**Exclude** expenditures related to:

- the purchase of the feedstock used to produce energy, such as biofuels (to be reported in question 42)
- the production of nuclear energy (to be reported in question 43)
- electricity purchased from the grid.

When precise figures are not available, provide your best estimate.

	Capital expenditures CAN\$	Operating expenses CAN\$	Percentage of energy production for OWN use
a. Wind energy	\$ .00	\$ .00	%
b. Geothermal energy	\$ .00	\$ .00	%
c. Energy produced from small hydroelectric facilities	\$ .00	\$ .00	%
d. Energy produced from large hydroelectric facilities	\$ .00	\$ .00	%
e. Solar energy	\$ .00	\$ .00	%
f. Bioenergy Excluding feedstock (to be reported in question 29).	\$ .00	\$ .00	%
g. Energy from waste	\$ .00	\$ .00	%
h. Other energy production from renewable resources 1 Specify other energy production from renewable resources 1	\$ .00	\$ .00	%
i. Other energy production from renewable resources 2 Specify other energy production from renewable resources 2	\$ .00	\$ .00	%
j. Other energy production from renewable resources 3 Specify other energy production from renewable resources 3	\$ .00	\$ .00	%
<b>Total expenditures for the production of renewable energy</b>	\$ .00	\$ .00	

40. Which of the following **goods or technologies used for the production of renewable energy** were purchased by this establishment during the 2024 fiscal year?

Mark all that apply.

➤ Wind energy

- 1 ☐ Wind turbine equipment, nacelle, blades, towers

B05352\_e3\_p1

- 1 ☐ Switchgear, transformers

B05352\_e3\_p2

- 1 ☐ Other

B05352\_e3\_p411

Specify all other goods or technologies purchased for the production of wind energy

B05352\_e3\_p412

OR

- 1 ☐ No purchases

B05352\_e3\_p413

➤ Geothermal energy

- 1 ☐ Heat pumps

B05352\_e5\_p414

- 1 ☐ Other

B05352\_e5\_p415

Specify all other goods or technologies purchased for the production of geothermal energy

B05352\_e5\_p416

OR

- 1 ☐ No purchases

B05352\_e5\_p417

Energy produced from small hydroelectric facilities

- 1 ☐ Turbines and related components

**Exclude** wave and tidal energy.

B05352\_e1\_p4

- 1 ☐ Turbines and related components for wave or tidal energy

B05352\_e1\_p5

- 1 ☐ Generators, valves, gates, transformers, switchgear

**Include** components.

B05352\_e1\_p6

- 1 ☐ Other

B05352\_e1\_p418

Specify all other goods or technologies purchased for the production of energy from small hydroelectric facilities

B05352\_e1\_p419

OR

- 1 ☐ No purchases

B05352\_e1\_p420

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► **Energy produced from large hydroelectric facilities**

- 1 ☐ Turbines and related components  
**Exclude** wave and tidal energy.  
B05352\_e6\_p4
- 1 ☐ Turbines and related components for wave or tidal energy  
B05352\_e6\_p5
- 1 ☐ Generators, valves, gates, transformers, switchgear  
**Include** components.  
B05352\_e6\_p6
- 1 ☐ Other  
B05352\_e6\_p421

Specify all other goods or technologies purchased for the production of energy from large hydroelectric facilities

B05352\_e6\_p422

OR

- 1 ☐ No purchases  
B05352\_e6\_p423

► **Solar energy**

- 1 ☐ Active solar heating equipment  
**e.g.**, glazed flat plate collectors, glazed evacuated tubes and collectors, glazed panels and collectors for heating pools, perforated cladding for solar air heating  
B05352\_e2\_p7
- 1 ☐ Active solar-power generation equipment  
**e.g.**, concentrating mirrors, receivers  
B05352\_e2\_p8
- 1 ☐ Photovoltaic energy equipment  
**e.g.**, photovoltaic cells, modules, panels and arrays, inverters for solar photovoltaic systems  
B05352\_e2\_p9
- 1 ☐ Other  
B05352\_e2\_p424

Specify all other goods or technologies purchased for the production of solar energy

B05352\_e2\_p425

OR

- 1 ☐ No purchases  
B05352\_e2\_p426

► **Production of bioenergy**

- 1 ☐ Mixers and centrifuges  
B05352\_e4\_p137
- 1 ☐ Filtration systems  
B05352\_e4\_p138
- 1 ☐ Biofuel reactors  
**e.g.**, distillation towers, pyrolyzers, catalyst beds, gasifiers, heat digesters  
B05352\_e4\_p139
- 1 ☐ Washers  
B05352\_e4\_p140

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1

☐

Dryers

B05352\_e4\_p141

1

☐

Heaters

B05352\_e4\_p142

1

☐

Storage systems related to bioenergy production

B05352\_e4\_p143

1

☐

Shredders and chippers

B05352\_e4\_p144

1

☐

Combined heat and power bioenergy systems

B05352\_e4\_p145

1

☐

Domestic woodstoves

B05352\_e4\_p146

1

☐

Biomass-fired industrial boilers

B05352\_e4\_p147

1

☐

Anaerobic digesters

B05352\_e4\_p148

1

☐

Other

**Exclude** purchased biofuels. To be reported in question 41.

B05352\_e4\_p149

Specify all other goods or technologies purchased for the production of bioenergy

**Exclude** purchased biofuels. To be reported in question 41.

B05352\_e4\_p150

OR

1

☐

No purchases

B05352\_e4\_p430

► Energy from waste

1

☐

Liquid organic waste to energy equipment

B05352\_e7\_p12

1

☐

Solid organic waste to energy equipment

B05352\_e7\_p13

1

☐

Other

B05352\_e7\_p427

Specify all other goods or technologies purchased for the production of energy from waste

B05352\_e7\_p428

OR

1

☐

No purchases

B05352\_e7\_p429

## Purchase of biofuels, biochemical products and biomaterials

41. Which of the following **biofuels, biochemical products and biomaterials** were purchased by this establishment during the 2024 fiscal year?

Mark all that apply.

### ► Biofuels

- 1 ☐ Pellets, chips, cubes, briquettes  
B05349\_y19\_p152
- 1 ☐ Black pellets  
B05349\_y19\_p431
- 1 ☐ Energy logs  
B05349\_y19\_p153
- 1 ☐ Biocoal  
B05349\_y19\_p154
- 1 ☐ Biochar  
B05349\_y19\_p432
- 1 ☐ Ethanol, cellulosic ethanol  
B05349\_y19\_p155
- 1 ☐ Biodiesel  
B05349\_y19\_p156
- 1 ☐ Renewable diesel  
B05349\_y19\_p157
- 1 ☐ Pyrolysis oil  
B05349\_y19\_p433
- 1 ☐ Synthetic fuels  
e.g., DME, Fisher Tropsch fuels, Biojet fuels  
B05349\_y19\_p158
- 1 ☐ Bio-oil, pyrolytic oil, biomethanol  
B05349\_y19\_p434
- 1 ☐ Biobutanol  
B05349\_y19\_p160
- 1 ☐ Biogas  
B05349\_y19\_p161
- 1 ☐ Renewable natural gas  
e.g., biomethane  
B05349\_y19\_p162
- 1 ☐ Syngas  
B05349\_y19\_p163
- 1 ☐ Biohydrogen  
B05349\_y19\_p164
- 1 ☐ Other  
B05349\_y19\_p165  
Specify other biofuels purchased

B05349\_y19\_p165

OR

- 1 ☐ No purchases  
B05349\_y19\_p435

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► **Biochemical products**

1 ☐ Aromatics, amino and organic acids, phenols, polyols  
B05349\_y19\_p167

1 ☐ Cellulose, hemicellulose, lignin  
B05349\_y19\_p168

1 ☐ Biochar  
B05349\_y19\_p436

1 ☐ Bio-oils, lubricants  
B05349\_y19\_p170

1 ☐ Solvents, adhesives, paints, coatings  
B05349\_y19\_p171

1 ☐ Biopolymers and resins  
B05349\_y19\_p172

1 ☐ Biopesticides  
B05349\_y19\_p173

1 ☐ Biostimulants  
B05349\_y19\_p174

1 ☐ Additives and catalysts  
e.g., enzymes  
B05349\_y19\_p175

1 ☐ Other  
B05349\_y19\_p177

Specify other biochemical products purchased

B05349\_y19\_p176

OR

1 ☐ No purchases  
B05349\_y19\_p437

► **Biomaterials**

1 ☐ Mats, cellulose products  
B05349\_y19\_p178

1 ☐ Bio-based auto parts, building materials, panels, cross laminated timber  
B05349\_y19\_p179

1 ☐ Plastics, films, foams, hydrogels  
B05349\_y19\_p180

1 ☐ Nanomaterials and nanocomposites  
B05349\_y19\_p181

1 ☐ Nanocrystalline cellulose  
B05349\_y19\_p182

1 ☐ Other  
B05349\_y19\_p184

Specify other biomaterials purchased

B05349\_y19\_p183

OR

1 ☐ No purchases  
B05349\_y19\_p438

42. During the 2024 fiscal year, how much did this establishment spend on purchases in each of the following categories?

a. **Biofuels**

e.g., pellets, chips, cubes, briquettes, black pellets, energy logs, biocoal, biochar, cellulosic ethanol, biodiesel, renewable diesel, pyrolysis oil, synthetic fuels, bio-oil, pyrolytic oil, biomethanol, biobutanol, biogas, renewable natural gas, syngas, biohydrogen

CAN\$  
F61336\_y19\_p439 .00

b. **Biochemical products**

e.g., aromatics, amino and organic acids, phenols, polyols, cellulose, hemicellulose, lignin, biochar, bio-oils, lubricants, solvents, adhesives, paints, coatings, biopolymers and resins, biopesticides, biostimulants, additives and catalysts

\$  
F61336\_y19\_p440 .00

c. **Biomaterials**

e.g., mats, cellulose products, bio-based auto parts, building materials, panels, cross-laminated timber, plastics, films, foams, hydrogels, nanomaterials and nanocomposites, nanocrystalline cellulose

\$  
F61336\_y19\_p441 .00

**Total expenditures**

\$  
F61336\_y19\_p401 .00

## Production of nuclear energy

43. Report this establishment's capital expenditures and operating expenses related to the **production of nuclear energy** during the 2024 fiscal year.

**Exclude** the costs of any feedstock used to produce energy such as uranium.

If the expenditure is zero, enter '0' in the corresponding box. When precise figures are not available, provide your best estimate.

CAN\$

a. Capital expenditures

\$  
F80132\_y20 .00

b. Operating expenses

\$  
F61078\_y20 .00

**Total expenditures**

\$  
F60007\_y20 .00

44. Which of the following **goods and technologies** related to the **production of nuclear energy** were purchased during the 2024 fiscal year?

Mark all that apply.

1 ☐ Nuclear reactors or nuclear island components

B05349\_y20\_p10

1 ☐ Nuclear fuel handling, processing, and fabrication equipment

B05349\_y20\_p11

1 ☐ Other

B05349\_y20\_p442

Specify all other goods or technologies purchased for the production of nuclear energy

B05349\_y20\_p443

OR

1 ☐ No purchases

B05349\_y20\_p444



## Reporting changes and events that affected the business

45. Describe any changes or events that may have affected the reported environmental technologies and processes values for this establishment compared to the last reporting period.  
**e.g.**, We bought two electric vehicles in 2024.

Comment box


B00377

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## Drivers and obstacles

46. Which of the following were **drivers** to the adoption of new or significantly improved clean technologies, systems or equipment for this establishment during the 2024 fiscal year?

Mark all that apply.

1 ☐ Sufficient return on investment  
i.e., sufficient business case

B05353\_r1

1 ☐ Regulations

B05353\_r2

1 ☐ Government incentives

B05353\_r3

1 ☐ Carbon pricing

B05353\_r4

1 ☐ Voluntary agreement

B05353\_r5

1 ☐ Public image

B05353\_r6

1 ☐ Corporate policy

B05353\_r7

1 ☐ Part of regular capital turnover

B05353\_r8

1 ☐ Other

B05353\_r9

Specify all other drivers to the adoption of new or significantly improved clean technologies, systems or equipment

B05353\_r10

OR

1 ☐ There were **no drivers** during the 2024 fiscal year

B05353\_r11

47. Which of the following were **obstacles** to the adoption of new or significantly improved clean technologies, systems or equipment for this establishment during the 2024 fiscal year?

Mark all that apply,

1 ☐ Lack of regulations

B05353\_r12

1 ☐ Changing regulations

B05353\_r13

1 ☐ Insufficient return on investment  
i.e., no business case

B05353\_r14

1 ☐ Difficulty in obtaining financing  
e.g., internal, private or government

B05353\_r15

1 ☐ Compelling capital investments

B05353\_r29

1 ☐ Lack of information or knowledge related to systems or equipment (new or significantly improved)

B05353\_r16

1 ☐ Lack of available systems or equipment (new or significantly improved)

B05353\_r17

1 ☐ Lack of technical skills required to support this type of investment

B05353\_r18

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- 1 ☐ Lack of technical support or services  
e.g., from consultants or vendors  
B05353\_r19
- 1 ☐ Regulatory or policy barriers  
B05353\_r20
- 1 ☐ Organizational structure too inflexible  
B05353\_r21
- 1 ☐ Decisions made by parent, affiliate or subsidiary businesses  
B05353\_r22
- 1 ☐ Difficulty in integrating new technologies with existing infrastructure, systems, standards and processes  
B05353\_r23
- 1 ☐ Other  
B05353\_r24
- Specify all other obstacles to the adoption of new or significantly improved clean technologies, systems or equipment  
B05353\_r25
- OR
- 1 ☐ There were **no obstacles** during the 2024 fiscal year  
B05353\_r26

## Environmental management practices

48. Did this establishment use an **environmental management system** during the 2024 fiscal year?

- B05354\_pd1
- 1 ☐ Yes
- 2 ☐ No
- 9 ☐ Don't know

49. Did this establishment develop and/or follow a **pollution prevention plan** during the 2024 fiscal year?

- B05354\_pd2
- 1 ☐ Yes
- 2 ☐ No
- 9 ☐ Don't know

50. Did this establishment use **Life Cycle Management, Life Cycle Assessment, Design for Environment (DfE) or Ecodesign** principles for decision-making during the 2024 fiscal year?

- B05354\_pd3
- 1 ☐ Yes
- 2 ☐ No
- 9 ☐ Don't know

51. Was this establishment certified under the **ISO 14000** family of environmental management standards during the 2024 fiscal year?

- B05354\_pd4
- 1 ☐ Yes
- 2 ☐ No
- 9 ☐ Don't know

52. Did this establishment participate in any **environmental voluntary agreements** or **voluntary environmental programs** during the 2024 fiscal year?  
**e.g.**, Environmental Performance Agreements (EPAs), Canadian GHG Reduction Registry, Canadian Industry Program for Energy Conservation (CIPEC), Forestry Stewardship Council (FSC), etc.

B05354\_pd5

1 ☐ Yes



Specify the **programs, accords or agreements**:

B05354\_pd6

2 ☐ No

9 ☐ Don't know

53. Did this establishment have a '**green**' **procurement policy or guideline** during the 2024 fiscal year?

B05354\_pd7

1 ☐ Yes

2 ☐ No

9 ☐ Don't know

54. Did this establishment have an **environmental supply chain management policy** during the 2024 fiscal year?

B05354\_pd8

1 ☐ Yes

2 ☐ No

9 ☐ Don't know

55. Did this establishment implement any **new or improved** environmental processes and practices in response to an **environmental supply chain management policy** in place at a supplier or client business during the 2024 fiscal year?

B05354\_pd9

1 ☐ Yes

2 ☐ No

9 ☐ Don't know

56. Did this establishment take advantage of any Canadian federal, provincial/territorial, or local government **environmental incentive programs, grants, loans, or tax credits** during the 2024 fiscal year?

**e.g.**, ecoENERGY Initiative, Industrial Research Assistance Program (IRAP), SD Tech Fund, or Accelerated Capital Cost Allowance or Scientific Research and Experimental Development (SR&ED) for energy efficiency and renewable energy sources

B05354\_pd10

1 ☐ Yes



Specify the **incentive programs, grants, loans or tax credits**:

B05354\_pd11

2 ☐ No

9 ☐ Don't know

57. Did this establishment perform a **greenhouse gas emissions inventory** during the 2024 fiscal year?

B05354\_pd12

- 1 ☐ Yes  
2 ☐ No  
9 ☐ Don't know

58. Did this establishment participate in any form of **carbon-trading, either by purchasing or selling carbon offset credits** in the 2024 fiscal year?

B05354\_pd13

- 1 ☐ Yes, purchased carbon offset credits only OR purchased more than sold  
3 ☐ Yes, sold carbon offset credits only OR sold more than purchased  
2 ☐ No, did not participate in any of the above  
9 ☐ Don't know

59. Did this establishment participate in **any other environmental management practices** during the 2024 fiscal year?

B05354\_pd14

- 1 ☐ Yes



Specify the **other environmental management practices**:

B05354\_pd15

- 2 ☐ No  
9 ☐ Don't know

## Contact person

60. Statistics Canada may need to contact the person who completed this questionnaire for further information.

If the contact person is the same as on cover page, please check ☐ > [Go to "Feedback"](#)

Otherwise, who is the **best person to contact** about this questionnaire?

First name

Last name

Title

Email address (Example: user@example.gov.ca)

Telephone number (including area code)  
Example: 123-123-1234

Extension number  
(if applicable)

Fax number (including area code)  
Example: 123-123-1234

## Feedback

61. How long did it take to complete this questionnaire?

**Include** the time spent gathering the necessary information

Hours

Minutes

62. We invite your comments about this questionnaire.

B00002

## General information

### Confidentiality

#### Your answers are confidential.

By law, Statistics Canada is prohibited from releasing any information it collects that could identify any person, business, or organization, unless consent has been given by the respondent, or as permitted by the *Statistics Act*. Statistics Canada will use the information from this survey for statistical purposes only.

### Data-sharing agreements

To reduce respondent burden, Statistics Canada has entered into data-sharing agreements with provincial and territorial statistical agencies and other government organizations, which have agreed to keep the data confidential and use them only for statistical purposes. Statistics Canada will only share data from this survey with those organizations that have demonstrated a requirement to use the data.

**Section 11** of the *Statistics Act* provides for the sharing of information with provincial and territorial statistical agencies that meet certain conditions. These agencies must have the legislative authority to collect the same information, on a mandatory basis, and the legislation must provide substantially the same provisions for confidentiality and penalties for disclosure of confidential information as the *Statistics Act*. Because these agencies have the legal authority to compel businesses to provide the same information, consent is not requested and businesses may not object to the sharing of the data.

For this survey, there are **Section 11** agreements with the provincial and territorial statistical agencies of Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and the Yukon. The shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

**Section 12** of the *Statistics Act* provides for the sharing of information with federal, provincial or territorial government organizations. Under **Section 12**, you may refuse to share your information with any of these organizations by writing a letter of objection to the Chief Statistician and returning it with the completed questionnaire. Please specify the organizations with which you do not want to share your data.

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, Northwest Territories and Nunavut, as well as with the British Columbia Ministry of Agriculture and Food, Natural Resources Canada and Innovation, Science and Economic Development Canada, and the Department of Finance Canada.

For agreements with provincial and territorial government organizations, the shared data will be limited to information pertaining to business establishments located within the jurisdiction of the respective province or territory.

### Record linkages

To enhance the data from this survey and to reduce the reporting burden, Statistics Canada may combine the acquired data with information from other surveys or from administrative sources.

Thank you for completing this questionnaire.

Please retain a copy for your records.

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