

Item 16F0008XIE

# Environment Statistics Program Environment Industry Business Sector 1995





Éconnexions
Pour lier l'environnement et l'économie







# **Environment Industry: Business Sector, 1995**

Statistics Canada - Item 16F0008XIE

November 1998 Ottawa

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# **Symbols**

The following are standard symbols used in Statistics Canada publications:

- .. figures not available
- ... figures not appropriate or applicable
- nil or zero
- -- amount too small to be expressed
- x confidential to meet secrecy requirement of the Statistics Act

# **Preface**

In an effort to measure the size of the environment industry in Canada in terms of employment and economic output, the federal government, through Industry Canada, provided funding to Statistics Canada to develop a national statistical database on the environment industry.

This report presents data pertaining to businesses in the environment industry, obtained from the *Environment Industry Survey, 1995* as well as a number of other surveys carried out by Statistics Canada. These data have been combined in order to depict businesses that, in 1995, produced environmental goods or supplied environmental services or environment-related construction services in Canada.

This is the first time that Statistics Canada has specifically targeted companies that are environmental goods or services providers. The data obtained from this survey and upcoming surveys will provide a more complete picture of the environment industry in Canada.

# **Acknowledgements**

The contributions of the respondents and industry groups were critical to the successful completion of this project and are gratefully acknowledged.

This report was prepared by the Environment Statistics Program, under the direction of Claude Simard. Data collection for the survey was conducted by the Operations and Integration Division (Louis Boucher, Director) and the Environment Statistics Program. Other data were supplied by Services Division (Janice McMechan, Director). Murray Cameron, Senior Analyst, Environment Statistics Program, managed the project.

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# 1 The Environment Industry<sup>1</sup>, 1995

# 1.1 Highlights and introduction

# 1.1.1 Highlights

In 1995, businesses belonging to the environment industry in Canada employed 150 000 persons. Their total revenues amounted to \$19.4 billion of which \$10.2 billion (or 53%) comprised environmental revenues. Environmental goods accounted for \$4.2 billion of the total while environmental services generated \$3.9 billion and environment-related construction services, \$2.1 billion.

Provincially, Ontario led the way with environmental revenues of \$4.3 billion and Quebec followed with \$2.7 billion. Small (under 100 employees) firms accounted for 67% of these revenues, while medium (100 to 499 employees) and large (500 and more employees) earned 23% and 10% respectively.

These environmental revenues should not be confused with the total supply of environmental goods and services. The total supply of environmental goods and services is equal to the production of these goods and services by businesses for sale as well as for in-house purposes, plus government production and imports of environmental goods and services. A first estimate of the total supply, amounting to \$16.7 billion, was released in *Environment Industry*, 1995, Preliminary Data<sup>2</sup>. Business sales constituted \$9.2 billion of this supply, business own account, \$1.5 billion, government, \$4.8 billion, and \$1.2 billion of the total supply was imported. These totals will be updated in the future using revised figures.

# 1.1.2 Introduction

Recently, governments and groups such as the Organisation for Economic Co-operation and Development (OECD) have undertaken to assess the importance of environment industry within national economies. In Canada, environmentalists and policy makers alike have looked for ways to link the environment with the economy and to measure the environment industry's contribution to the economic well being of Canada.

There is a perception in some quarters that improving the state of the environment can be sometimes costly to industries in their efforts to adopt environmentally friendly production processes and consequently more costly to the Canadian consumer. However, there are economic benefits that are realised through environmentally sound practises and the purchase of the goods and services that these practises require. How significant are these economic benefits? More directly, what is the size of the industry that provides these environmental goods, services and related jobs?

The size of the environment industry can be expressed in terms of its direct economic output as well as the number of direct jobs that it creates. Until now, there were no reliable estimates of these variables in the absence of statistical information on providers of environmental goods and services.

In an effort to remedy the situation, the federal government, through Industry Canada, provided funding to Statistics Canada to develop a national statistical database on the environment industry. Statistics Canada established a program consisting of new surveys, modifications of existing ones and integration of various statistics.

This report presents the combined results from the various sources. The most important of these is the *Environment Industry Survey*, carried out by the Environment Statistics Program. Since this is the first survey of its kind, some refinements can be expected in the future. However, these first estimates already constitute a solid benchmark against which results of future surveys can be compared.

The reader should be aware that the report does not cover the whole environment industry. It deals exclusively with businesses operating in Canada that were classified as belonging to the environment industry in 1995 (see Section 1.2). Businesses<sup>3</sup> were included in the universe if they produced a) an environmental good, b) an environmental service, or c) an environment-related construction service.

# 1.2 Defining the environment industry

A major challenge to the development of a database on the environment industry is the identification of the industry itself. An industry is defined as a group of operating units (known as establishments) engaged in similar economic activities and characterised by a similar production function. According to this definition, the "environment industry" does not exist. Indeed, it is not mentioned in the 1980 Standard Industrial Classification (SIC) or in the North American Industrial Classification System (NAICS) that replaced it. The establishments involved in the production of environmental goods and services are found in many different industries.

Although the environment industry does not exist as a formal industry within the Standard Industrial Classification (SIC) system or the North American Industrial Classification System (NAICS), for the purposes of this report, the term is used to denote those businesses that produce or supply environmental goods or services or engage in an environment-related construction activity.

<sup>2.</sup> Item 16F0007XPE, 1997.

The survey questionnaire was sent to establishments and to a limited number of enterprises.

However, when an industry is defined by the use of its products rather than by its production process, it then becomes possible to identify an environment industry. For the purposes of this report and others in the same series, the environment industry is defined as that which produces goods or provides services (including construction services) that contribute to the prevention, measurement, abatement or remediation of degradation to the air, land or soil. It also includes the services related to the collection, transportation, storage and refinement of materials that may be harmful to the environment. On the basis of this definition, 27 different industries (at the two-digit level of the 1980 SIC) were identified as carrying out some activity related to protecting the environment.

Another difficulty inherent in the above definition is that of identifying goods or services related to the environment. In other words, what distinguishes an "environmental" good or services from a "non-environmental" one? Certain products have several uses. Furthermore, many businesses do not know whether their products are used for environmental purposes.

To help respondents in identifying their "environmental" production, detailed lists of environmental goods, environmental services and environment-related construction services were developed, using a number of Canadian and international sources.<sup>4</sup> These lists are shown in Text Boxes 1.1, 1.2 and 1.3.

The detailed lists were condensed into the major categories presented in the statistical tables contained in Annex A, six for goods, six for services and one for construction. Establishments were then assigned to these categories and the data classified accordingly. Some industries (e.g. Waste Management Services) are characterised by a single category, while others offer a wide range of goods or services.

# 1.3 Data limitations

Some problems may have affected the estimates of revenues and employment contained in this report. The major one was undercoverage.

First, since the frame for the *Environment Industry Survey, 1995* was drawn largely from industry directories, it is likely that some undercoverage of the universe has occurred. Businesses may or may not choose to become members of these industry organisations that produced these directories or may choose to omit their name from such lists. In addition, a firm may not consider themselves to be a producer of a good or a service that they consider being environmental. Therefore, these directories are likely incomplete.

Although most respondents were able to reasonably estimate their environmental revenues, many had considerable difficulty in distinguishing environmental employment from other types of employment. For this reason, this report presents total employment, rather than employment linked to the production of environmental goods and services. Therefore, a labour productivity analysis for this industry is not possible.

Data on engineering construction were estimated indirectly from information provided by purchasers of environmental goods and services. Consequently, it is impossible to reliably estimate the number of firms providing this type of service.

As a rule, revenues will be double counted to the extent that goods and services produced by an establishment in the environment industry are purchased by another one in the same industry. For this reason, it would be incorrect to compare the aggregate environmental revenues to gross domestic product (GDP) which is the sum of the unduplicated production of all industries. Thus, readers should not express the revenues presented in this report as percentages of GDP. At this stage of the project however, it would be difficult to estimate the unduplicated value of production (known as *value added*) without placing excessive burden on environmental businesses.

Despite these problems and cautions however, overall results are believed to be of reasonably good quality and will improve even more with each iteration of the survey.

In the event that businesses do see themselves as producers of environmental goods, they do not always know the end use of their products. And they may not bother to trace it since this is not an accounting or tax requirement. For example, a fluid volume control valve may have many end uses, including some environmental. On the other hand, businesses may have a very good knowledge of their market. And some products, such as scrubbers used to remove particulate from gases emitted at the end of a manufacturing or production process are clearly intended for an environmental end use.

See Interim Definition and Classification of the Environment Industry, OECD/Eurostat Informal Working Group on the Environment Industry, 1996.

#### Text Box 1.1

# **Environmental Goods**

**Air Pollution Control** – air handling equipment; catalytic converters; chemical recovery systems; dust collectors; separators / precipitators; incinerators; scrubbers; odour control equipment.

Water Supply and Conservation – potable water; water handing goods and equipment (pumps, pipes, valves); water conservation products (low flow toilets, showerheads).

Wastewater Treatment – aeration systems; chemical recovery systems; biological recovery systems; gravity sediment systems; oil / water separation systems; screens/strainers; sewage treatment; water pollution control; wastewater reuse equipment; water treatment chemicals; water treatment equipment; clarifiers, filters and filter media; water purification equipment.

**Solid and Hazardous Waste Management** – hazardous waste storage / treatment equipment; waste collection equipment; waste disposal equipment; waste handling equipment; waste separation equipment; recycling equipment; incineration equipment.

**Remediation / Treatment of Soil and Groundwater** – absorbents; bioremediation equipment; soil vapour extraction equipment; spill equipment; containment systems.

**Noise / Vibration Abatement** – mufflers / silencers; noise deadening equipment; vibration control systems; highway barriers.

**Environmental Monitoring, Analysis and Assessment** – measuring and monitoring equipment; sampling systems; process and control equipment; data acquisition equipment; other instruments / machines; software.

**Energy Efficient Products** – energy management equipment; energy recovery equipment; alternate energy systems and equipment; insulation and sealing products; energy efficient lighting, motors, etc.

**Renewable Energy and Alternative Fuel Systems** – renewable energy systems and equipment (solar, wind, tidal, geothermal); alternative fuel systems and equipment.

Other Products - components of cleaner technologies.

Other - specified by respondent.

# Text Box 1.2

# **Environmental Services**

**Air Pollution Control** – emission monitoring; assessment / evaluation, planning.

**Water Supply and Conservation** – water purification; water delivery; water handing systems.

**Wastewater Management** – sewage treatment systems; wastewater reuse systems; operation of water treatment facilities; storm water management; water and wastewater system assessment and design consulting.

**Solid and Hazardous Waste Management** - emergency response and spills cleanup; water handling, collection, transport, transfer stations, and disposal; operation of sites; ownership / management of sites; recycling (sorting, baling, cleaning); operation of recycling plants (material recovery facilities); hazardous waste management; medical waste management; nuclear waste management.

Remediation / Treatment of Soil and Groundwater – cleanup; industrial services (cleaning for facilities and tanks); groundwater monitoring and remediation services; soil remediation services; hydrogeological services; site reclamation and remedial action services.

Noise / Vibration Abatement - assessment / monitoring.

**Environmental Contracting and Engineering** – engineering design, specifications, project management; biological and ecosystems studies; environmental impact assessment, audits; water treatment; environmental management planning; risk and hazard assessment; laboratory and field services; environmental economics.

Environmental Research and Development – clean processes; end of pipe pollution abatement control.

**Analytical Services, Data Collection and Analysis** - measuring and monitoring; sampling; process and control; data acquisition.

**Environmental Education and Training, Information** – environmental education and training; environmental information searching services; environmental data management and analysis; ISO 9000/14000 support services.

**Energy Efficiency and Renewable Energy** – energy audit; energy resource management; energy service companies; alternative energy system design; renewable energy services; (site assessment, project development, installation); renewable energy production; (solar, wind, tidal geothermal, other).

Other Services – conservation and resource management; environmental public relations; environmental law; environmental risk management and liability insurance; marketing and advertising; business development services; emergency response planning; full-cost accounting services; public/private partnership development.

Other - specified by respondents.

# Text Box 1.3

# **Environment-Related Construction Services**

# **Air Pollution Control**

Water Supply and Conservation

Wastewater Management – sewer systems; water treatment plants.

**Solid and Hazardous Waste Management** – hazardous waste management; solid waste treatment, storage and disposal; recycling

# Remediation / Cleanup of Soil and Water

Noise/Vibration Abatement - highway barriers.

Other Services – renewable energy (solar, wind, tidal thermal, other); conservation (soil, water, wildlife, habitat); environment management systems (forest management, etc.)

Other - specified by respondents

# 2 Survey Results

# 2.1 Summary

Tables A.1 to A.12 present a profile of the environment industry in Canada, showing the revenues and employment characteristics of the businesses by category of environmental goods and services, industry group, province/territory and firm size.

Businesses in the industry earned \$19.4 billion in 1995. Of that total, 53% or \$10.2 billion came from environment-related production. Sales of environmental goods amounted to \$4.2 billion, receipts from environmental services, to \$3.9 billion, and those from construction services, to \$2.1 billion. Four different industry groups earned the bulk (81%) of these revenues. Overall, environmental businesses employed 149 957 persons of which about 75% worked in service-producing industries (Tables A.1 and A.3).

# 2.2 Environmental revenues by major categories of goods and services

Sources of revenue were almost evenly split between sale of environmental goods (41%) and sales of environmental services (39%), with the remainder accounted for by environment-related construction services (20%).

Within environmental goods, there was a high proportion (62% of the total) from the "other" category. This is due to the high revenues generated by the Wholesale: other (scrap metals) industry. The next most important category after scrap metal was "goods used for water supply and conservation or wastewater treatment", which accounted for almost 15% of the total. The remaining revenues were almost evenly divided amongst the other goods categories (Tables A.1 and A.2).

Within environmental services, one category alone, "waste management", generated 69% of total revenues. Engineering services came in second with 21% of the total.

# 2.3 Environmental revenues by industry

Four industry groups account for 81% of total environmental revenues, at the 2-digit level of the SIC (Table A.1). The *Waste Management* industry was the largest earner, by a slight margin with 26% of total environmental revenues. It was followed by the *Wholesale: other (scrap metal)* industry at 25% and the *Construction: Engineering* and *Business Services* industries at 20% and 11%, respectively.

Other goods producing industries each contributed from 1% to 4% of environmental revenues: *Machinery* (4%), *Wholesale Machinery and Equipment* (2%), *Plastics* (2%), *Transportation Equipment* (2%), *Other Manufacturing* (2%) and *Fabricated Metals* (1%) All other industries combined for the remaining 6%.

Most of the major environment industries derived the bulk of their revenues from a single broad category of goods or services. Few industries had revenues from the sale of both environmental goods and services. The higher the environmental revenues the more specific was the good or service from which they originated. This was notably the case in *Wholesale: other (scrap metal)*, *Waste Management*, and *Construction: Engineering*. Among the major industries, only *Business Services*, itself an aggregate of several industries, earned revenues from a wide range of services.

# 2.4 Environmental revenues by province/territory

Ontario had the highest number of environmental businesses, 32% of the total against 26% in Quebec, 13% in British Columbia and 9% in Alberta. Ontario firms also generated the highest environmental revenues, \$4.3 billion, followed by those from Quebec, \$2.7 billion, British Columbia, \$1.2 billion, and Alberta, \$1.1 billion. (Tables A.5, A.6, A.7 and A.8).

Ontario businesses accounted for 49% of the revenue from environmental goods and 42% of that from environmental services. They were also the leading providers of construction services related to the environment, generating 27% of the total revenue in this category followed closely by Quebec with 24% and Alberta with 20%.

Although, in the country as a whole, the revenue shares of goods, service and construction were respectively 41%, 39%, and 20%, the pattern was very different by province. Revenues from the sale of goods exceeded service revenues in only four provinces, including the two most industrialised ones, Quebec and Ontario. The share of service revenues was highest in Prince Edward Island and Nova Scotia, while construction accounted for over 50% of revenues in Newfoundland and the territories.

# 2.5 Environmental revenues by firm size

Large firms (500 and more employees) made up less than 1% of the total number of businesses, medium-sized firms (100 to 499 employees), 4% and small ones (under 100 employees), the remaining 95%. In terms of

environmental revenues, small firms accounted for 67% of the total, while the medium and large firms generated 23% and 10% respectively (Tables A.9, A.10, A.11 and A.12).

This dominance of the smaller firms was prevalent throughout all of the groups with these businesses earning 59% of services revenues, 60% of construction and 78% of environmental goods receipts. Medium-sized businesses realised the second highest receipts in the goods and services groups, while large firms were second in the environment-related construction group.

# 2.6 Employment

As explained in Section 1.3, all the figures quoted below represent the total number of jobs, and not the jobs that contributed to the generation of environmental revenue, in the surveyed businesses. Most respondents were unable to distinguish "environmental" employment from other types of employment.

The same four industries which earned 81% of environmental revenues accounted for 77% of the 149 957 jobs generated by businesses belonging to the Environment Industry: *Business Services*, 32%, *Waste Management*, 26%, *Wholesale: other (scrap metal)*,10% and *Construction: Engineering*, 9%. Within the broad group of *Business Services*, *Consulting Engineering* firms alone accounted for about 60% of jobs (Table A.1).

Ontario businesses accounted for 47% of the total employment. Quebec firms employed 20% while those in British Columbia and Alberta followed with 12% and 11%, respectively (Table A.5).

The small firms provided the bulk of jobs in the industry. They employed 41% of the total while medium-sized firms employed 23% and large ones 35%.

# 3 Methodology

This section describes the design and methodology of the *Environment Industry Survey 1995*. It also addresses the processes used to integrate the other survey data that have been presented in this report. It addresses the following areas: the survey universe; the procedures used in data collection, editing, imputation and quality assurance.

# 3.1 Survey universe

# 3.1.1 Environment Industry questionnaire

For the *Environment Industry Survey 1995*, a questionnaire was mailed to companies that, through research, the help of industry directories and consultation with several public and private groups, met predetermined inclusion criteria. These criteria classified companies as providers of environmental goods, services or environmentally related construction services. The firms were then stratified by employment size and those firms with more than 50 employees were mailed a detailed version of the questionnaire, and the remainder were mailed a less detailed version.

Both versions asked questions about the total value of revenues realised by the sale of environmental goods or services as well as the specific types of environmental activities in which the company was involved. There were also questions that asked the respondent to indicate the percentage of its environmental sales by client type. The more detailed version asked further questions about the companies expenses and capital expenditures and also asked the respondents to indicate the values of environmental sales that were exported out of the firm's home province or out of Canada. Furthermore, a section was included to ask about the company's growth potential within and outside of Canada (Annex B).

The first mail out took place in November, 1996 and, a second mail out occurred in February, 1997. Including the second mail out, 780 firms were sent the detailed questionnaire and 3 421 were mailed the shorter version. This resulted in a total initial mailing of 4 201 survey units.

# 3.1.2 Other surveys

Because environmental firms are represented in many of the industries of the Standard Industrial Classification, this report draws upon the results of a number of existing Statistics Canada surveys in addition to the one which was designed expressly to cover environmental companies. These surveys included: Waste Management Industry Survey: Business Sector, 1995, Survey of Consulting Engineers, 1995, Survey of

Scientific and Technical Services, 1995, Survey of Management Consultants, 1995.

Except for the *Waste Management Industry Survey: Business Sector*, 1995, only a small proportion of the firms from the above surveys fell within the criteria defining producers of environmental goods or services. From the above survey, those firms whose revenues were derived mainly from the resale of recycled goods were excluded. These companies were considered to be wholesalers for which information was derived separately from administrative data.

From the other surveys, financial, employment and other data were integrated into the combined data set for firms that provided environmental goods and services. It was possible to identify the firms with environmental activities since these surveys contained at least one question that asked respondents to provide information about whether they supplied an environmental good or service. These data were combined with data from the *Environment Industry Survey*, 1995 to ensure that a high degree of coverage of the universe was achieved.

For the *Construction: Engineering* Industry, the total revenue and employment values were based on those gathered through the *Survey of Environmental Protection Expenditures, 1995.* These demand side data were used due to the absence of consistent data on the supply side of this industry. The total environmental revenues were imputed for the provincial/territorial and employment size perspectives by using ratios calculated using administrative data obtained from Statistics Canada's Business Register.

# 3.2 Data collection and processing

Data collection took place during 1996 and early 1997. Survey questionnaires were mailed to the businesses and the responses were returned by mail. The surveys were addressed to a contact person who was either responsible for, or had knowledge of, the environmental product or services operations of the company. In the case of enterprises that had operations in more than one province or territory, the provincial head office in each province was mailed a questionnaire. If the establishment could not provide the information that was needed, the enterprise's head office was contacted and the questionnaire was forwarded to the appropriate establishment.

Follow-ups by fax and/or telephone were carried out after the return due date to remind respondents to return their surveys.

Questionnaires were edited in two steps. First, validity edits were applied to ensure that responses to particular questions fell within a limited range of possible values. This type of editing was applied mostly to the questions

on quantities but was also used to identify unusual values. A second step, consistency edits, were then applied. These identified occasions where the responses in one section of the questionnaire were logically inconsistent with those given in other sections. These edits were applied on an ongoing basis as data were being collected.

Additional follow-ups with the businesses were carried out to collect missing data and to correct inconsistencies.

Nine hundred and thirty-six of the questionnaires were returned, completely in full and did not require imputation. Imputation was carried out on a further 326 questionnaires that were returned with missing or no data but were deemed to be in the scope of the survey frame. Thus, 1 262 of the surveyed firms were considered to be in scope for the purposes of this survey. This translated into a valid response rate of 74%. The number of questionnaires that were not returned or returned with missing data can be attributed to many of the firms declaring themselves out of scope for the purposes of the survey as well as a survey frame that was still in its developmental stages. Table 3.1 illustrates the response rates for this and some of the other surveys whose data are used in this report.

# 3.3 Data quality

Many factors affect the quality of data produced in a survey. For example, respondents may have made errors in interpreting questions, answers may have been incorrectly entered on the questionnaires, and errors may have been introduced during the data capture or tabulation process. Every effort was made to reduce the occurrence of such errors in the survey. These efforts included a complete verification of keyed data, validity and consistency edits and extensive follow-up with the large businesses.

In general, errors such as incomplete coverage of the universe, incorrect classification of business activity and inconsistencies in working definitions can be reduced if the survey is repeated at regular intervals and with sufficient frequency so that the mailing list is well maintained and the respondents are familiar with the definitions used and the type of information required. The definitional issue was important for the Environment Industry Survey 1995 due to the many unique and previously untested product and service classifications that were used.

Incomplete coverage of the industry universe occurs when a firm in the industry is overlooked. If the reason for not including the firm is that it has been incorrectly included in another industry, this is termed a classification error. Such errors have an impact upon estimates. This was the first iteration of the *Environment Industry Survey* and it is assumed that there was some undercoverage of the industry. It is expected that the frame for the *Environment Industry* 

Survey, 1996 and 1997 will be significantly more complete.

In cases where values were missing from survey cells after follow-up, information was imputed. For the large firms, the imputed values were carefully scrutinised and compared with values from other surveys, the Business Register and other sources (e.g., annual reports) to ensure that the quality of the imputed values were high. The rates of imputations for selected questions are shown in Table 3.2.

The tables presented in this report cover the data that were determined to be of sufficient quality for publication at a disaggregated level. Data confidentiality considerations as well as imputation rates play a role in this assessment. Data must be released at a level where the disclosure of the identity of any respondent in any cell is not possible. In addition, the levels of imputation must remain within reasonable limits.

It is expected that data quality and the degree of detail released will increase with each iteration of the survey. First, the survey frame will be tightened and refined as more data becomes available. Second, as companies become used to the survey form and process and adjust internal accounting systems to track some of the information that the *Environment Industry Survey* requests, more accurate and detailed data will be available. Third, as the questionnaire is fine-tuned in response to user needs and respondent reactions, the overall quality of results is expected to increase.

Table 3.1 **Survey Response Rates** 

Survey	Response rate <sup>1</sup>
	percent
1995 Environment Industry Survey	74
1995 Survey of Environmental Protection Expenditures	68
1995 Waste Management Industry Survey: Business Sector	70
1995 Survey of Consulting Engineers	
1995 Survey of Scientific and Technical Services	
1995 Survey of Management Consultants	

#### Note

 The proportion (%) of the total returned surveys from in scope respondents compared to the total surveys mailed out based on the number of respondents reporting.

#### Source:

Statistics Canada, Environment Statistics Program.

Table 3.2 Imputation Rates for Selected Categories

	_
Category	Imputation rate <sup>1</sup>
	percent
Total environmental revenues	7.7
Total employment	26.8
Total environmental goods	13.2
Total environmental services	5.8
Total environment-related construction	0.1

#### Note:

Statistics Canada, Environment Statistics Program.

# References

Statistics Canada, 1997, Environment Industry, 1995, Preliminary Data, Item 16F0007XPE, Ottawa.

Statistics Canada, 1998, **Waste Management Industry Survey: Business Sector, 1995,** Item 16F0003XPE, Ottawa.

Statistics Canada, 1998, Environmental Protection Expenditures in the Business Sector, 1995, Item 16F0006XPE, Ottawa.

Statistics Canada, 1998, **Architectural, Engineering and Scientific Services in Canada**, Catalogue No. 63-234-XPB, Ottawa.

<sup>1.</sup> The proportion of the total value of the category that is imputed. **Source**:

**Annex A: Statistical Tables** 

Table A.1

Total and Environmental Revenues and Employment<sup>1</sup> by Industry<sup>2</sup>, 1995

Industry	Companies	Total employment	Total revenues	Environmental goods	Environmental services	Environment- related construction	Total environmental revenues	
	nun	nber		million dollars	ars			
Services to agriculture and to mining	22	1 412	154.6	51.3	17.6	_	68.9	
Other primary industries	12	807	64.0	22.0	18.0	_	40.0	
Rubber	8	146	18.0	12.5	-	_	12.5	
Plastics	35	2 177	373.1	153.3	2.3	0.7	156.3	
Textile products	8	212	25.0	12.2	0.9	-	13.1	
Wood	5	715	153.7	10.2	x	x	10.5	
Primary metals	11	1 087	237.9	24.4	x	x	47.6	
Fabricated metals	35	4 136	859.2	107.4	0.1	-	107.5	
Machinery	83	3 176	552.9	364.3	25.2	4.1	393.6	
Transportation equipment	12	1 442	229.6	134.2	19.5	-	153.7	
Electrical and electronic products	18	942	176.5	27.2	16.3	2.5	46.1	
Non-metallic minerals	11	537	80.6	56.9	-	2.0	57.0	
Chemical	35	2 607	550.4	80.2	15.2	_	95.4	
Other manufacturing	38	1 888	345.5	147.5	4.9	_	152.4	
Other goods	12	424	64.1	14.2	15.7	-	29.9	
Construction: building	12	327	49.4	14.1	5.2	8.8	28.2	
Construction: engineering <sup>3</sup>	n/a	12 969	1 990.3	1.3	8.0	1 981.1	1 990.3	
Construction: Trade contracting	30	1 597	232.3	27.8	19.0	9.1	55.9	
Transportation	4	249	16.3	2.2	1.3		3.5	
Waste management industry	1 540	39 568	2 903.4	2.7	2 635.0		2 638.3	
Wholesale: hardware, plumbing, heating	13	333	66.2	26.4	2 300.0 X	х	28.3	
Wholesale: machinery and equipment	62	1 434	384.6	169.0	28.4	8.9	206.3	
Wholesale: other (including scrap metal)	1 511	14 102	2 668.9	2 606.5	0.8	-	2 607.3	
Holding and investment companies	8	4 554	859.8	29.4	2.6	_	32.0	
Business services:	895	48 483	5 240.2	85.5	969.8	18.9	1 074.2	
Computer services	24	433	39.1	14.1	5.5	-	19.6	
Consulting engineering	492	28 617	3 175.4	36.4	592.0	6.2	634.6	
Scientific and technical services	256	7 103	650.4	23.6	304.8	3.0	331.4	
Lawyers	29	5 105	614.6	-	14.0	-	14.0	
Management consulting	57	1 413	148.2	6.7	29.9	5.7	42.3	
Other business services	37	5 812	612.5	4.7	23.6	4.1	32.4	
Health and social services	16	300	17.9	-	23.0 X	x	5.5	
Other services <sup>4</sup>	15	240	22.9	4.8	7.4	1.3	13.4	
Services not classified to other services	28	1 776	131.7	9.3	21.5	0.1	30.7	
Not classified	194	2 317	939.4	27.5	58.4	8.9	94.7	
Canada	4 673 <sup>5</sup>	149 957	19 409.1	4 223.9	3 920.2	2 049.0	10 193.1	

Figures may not add due to rounding.

- 1. Represents all employment related to both the production of environmental and non-environmental goods.
- 2. Only those firms that reported revenues from the sale of environmental goods, services or environment-related construction activities are included in these data.
- 3. These data were derived from demand-side estimates of total environmental revenue. The total number of firms were not included in these estimates.
- 4. Includes rental of machinery and equipment.
- 5. The total number of companies in this table does not include Construction: Engineering firms due to the methodology used to derive the estimates.

## Source:

Table A.2

Revenues of Environmental Goods by Industry<sup>1</sup>, 1995

	-								
Industry	Total environmental revenues	Water	Air	Waste	Energy	Instruments	Other	Total environmental goods revenues	Environmental goods share of total environmental revenues
	-			millio	on dollars				percent
Services to agriculture and to mining	68.9	0.1	-	0.1	1.1	50.0	-	51.3	74.5
Other primary industries	40.0	0.3	-	0.2	21.5	-	-	22.0	55.0
Rubber	12.5	1.7	x	3.4	7.1	-	x	12.5	100.0
Plastics	156.3	54.8	3.2	80.1	14.7	-	0.5	153.3	98.1
Textile products	13.1	x	7.3	4.6	x	-	-	12.2	93.0
Wood	10.5	-	-	-	10.2	-	-	10.2	97.1
Primary metals	47.6	7.3	-	17.1		-	-	24.4	51.3
Fabricated metals	107.5	16.4	33.7	34.3	18.3	3.3	1.4	107.4	99.9
Machinery	393.6	220.2	61.3	42.8	26.9	6.1	7.0	364.3	92.6
Transportation equipment	153.7	-	78.1	52.2	-	-	3.8	134.2	87.3
Electrical and electronic products	46.1	6.6	-	x	4.0	15.1	х	27.2	59.1
Non-metallic minerals	57.0	50.5	0.2	-	x	-	х	56.9	99.8
Chemical	95.4	41.9	10.0	5.4	20.0	2.0		80.2	84.1
Other manufacturing	152.4	1.7	10.3	1.4	19.9	111.5	2.6	147.5	96.8
Other goods	29.9	0.2	-	2.6	11.1	-	0.2	14.2	47.4
Construction: building	28.2	2.0	12.2	-	-	-	-	14.1	50.1
Construction: engineering <sup>2</sup>	1 990.3	1.1	-	-	0.2	-	-	1.3	0.1
Construction: trade contracting	55.9	23.8	1.6		0.9	х	х	27.8	49.7
Transportation	3.5	-	x	x	-	-	-	2.2	62.9
Waste management industry	2 638.3	x	x	-	x	-	х	2.7	0.1
Wholesale: hardware, plumbing, heating	28.3	15.8	3.2	6.2	x	х		26.1	92.4
Wholesale: machinery and equipment	206.3	82.7	22.0	3.5	1.7	51.9	7.3	169.0	81.9
Wholesale: other (including scrap metal)	2 607.3	21.3	x	9.4	x	-	2 570.2	2 606.5	99.9
Holding and investment companies	32.0	26.2	2.5	x	-	х	-	29.4	91.9
Business services:	1 074.2	44.4	5.5	5.3	14.5	8.1	7.9	85.7	8.0
Computer services	19.6	X	x	2.3	8.1	3.2	0.2	14.1	71.9
Consulting engineering	634.6	23.3	2.2	2.9	5.6	1.6	0.9	36.4	5.7
Scientific and technical services	331.4	20.0	0.9	x	x	1.0	x	23.6	7.1
Lawyers	14.0	-	-	-	-	-	-	-	-
Management consulting	42.3	x	х	-	x		5.6	6.7	15.7
Other business services	32.4	x	х	-	-	x	x	4.7	14.4
Health and social services	5.5	-	-	-	-	-	-	-	-
Other services <sup>3</sup>	13.4	1.9	х	x	x	x	-	4.8	35.7
Services not classified to other services	30.7	1.0	0.9	4.3	3.2	-	-	9.3	30.2
Not classified	94.7	7.3	4.6	7.1	2.7	5.4		27.5	29.0
Canada	10 193.1	635.8	258.2	286.1	185.6	254.1	2 604.2	4 223.9	41.4

Figures may not add due to rounding.

## Source:

<sup>1.</sup> Only those firms that reported revenues from the sale of environmental goods, services or environment-related construction activities are included in these data.

<sup>2.</sup> These data were derived from demand-side estimates of total environmental revenue. The total number of firms were not included in these estimates.

<sup>3.</sup> Includes rental of machinery and equipment.

Table A.3

Revenues of Environmental Services by Industry<sup>1</sup>, 1995

		Environmental services							
Industry	Total environmental revenues	Waste management	Engineering	Remediation	Water	Analytical	Other	Total environmental services revenues	Environmenta services' share of tota environmenta revenues
				million dollars	s				percent
Services to agriculture and to mining	68.9	1.9	2.9	3.1		8.4	1.1	17.6	25.5
Other primary industries	40.0		2.3	0.2	-	-	15.5	18.0	45.0
Rubber	12.5	-	-	-	-	-	-	-	-
Plastics	156.3	х	x	-	-	-	-	2.3	1.5
Textile products	13.1	-	х	х	-		-	0.9	7.0
Wood	10.5	-	-	-	-	-			
Primary metals	47.6	19.1	-	-	х	-	х	21.3	44.7
Fabricated metals	107.5		-	-		-		0.1	0.1
Machinery	393.6	1.5	14.0		9.4		0.2	25.2	6.4
Transportation equipment	153.7	15.7	3.8	-	-	-	-	19.5	12.7
Electrical and electronic products	46.1	х	10.2	-	2.0	2.2	х	16.3	35.5
Non-metallic minerals	57.0	-	-	-	-	-	-	-	-
Chemical	95.4	5.9	6.1	-	3.1			15.2	16.0
Other manufacturing	152.4	-	2.4	0.1	1.3	0.6	0.5	4.9	3.2
Other goods	29.9	8.1	-	-		-	7.6	15.7	52.6
Construction: building	28.2	x	2.7	x	х			5.2	18.6
Construction: engineering <sup>2</sup>	1 990.3	1.2	2.3	2.5	0.7		1.2	8.0	0.4
Construction: trade contracting	55.9	11.6	2.7	0.3	0.1	1.8	2.5	19.0	34.0
Transportation	3.5		-	-	-	-			
Waste management industry	2 638.3	2 581.2	2.0	8.9	х	x	42.3	2 635.0	99.9
Wholesale: hardware, plumbing, heating	28.3	-	-	-		-		x	x
Wholesale: machinery and equipment	206.3		9.0	6.7	6.0	4.7	1.9	28.4	13.8
Wholesale: other (including scrap metal)	2 607.3		0.4		х	x		0.8	
Holding and investment companies	32.0	х	1.2	-	х	х	х	2.6	8.1
Business services:	1 074.2	37.3	738.1	29.2	35.3	65.0	64.7	969.6	90.3
Computer services	19.6		0.8	-	-	2.0	2.0	5.5	28.0
Consulting engineering	634.6	18.2	504.9	14.9	16.8	13.7	23.5	592.0	93.3
Scientific and technical services	331.4	13.8	199.0	8.9	17.6	44.7	20.8	306.6	92.5
Lawyers	14.0	-	6.2	-	-	-	7.8	14.0	100.0
Management consulting	42.3	1.6	15.1	3.6	0.8	3.4	5.5	30.0	70.9
Other business services	32.4	3.1	8.5	1.7		1.2	2.9	17.6	54.4
Health and social services	5.5	x	1.9	0.9	х	1.3	0.5	x	x
Other services <sup>3</sup>	13.4	х	2.1	1.5	x		2.0	7.4	54.9
Services not classified to other services	30.7	1.7	7.6	1.3	0.7	0.9	9.3	21.5	70.0
Not classified	94.7	13.0	25.3	3.4	4.9	5.4	6.4	58.4	61.6
Canada	10 193.1	2 704.9	840.0	58.7	68.9	91.1	156.8	3 920.2	38.5

Figures may not add due to rounding.

## Source:

<sup>1.</sup> Only those firms that reported revenues from the sale of environmental goods, services or environment-related construction activities are included in these data.

<sup>2.</sup> These data were derived from demand-side estimates of total environmental revenue. The total number of firms were not included in these estimates.

<sup>3.</sup> Includes rental of machinery and equipment.

Table A.4

Revenues of Environment-related Construction Services by Industry<sup>1</sup>, 1995

		Environment-related construction services			
Industry	Total environmental revenues	Total environment-related construction services revenues	Environment-related construction services' share of total environmental revenues		
	million	dollars	percent		
Services to agriculture and to mining	68.9		-		
Other primary industries	40.0		-		
Rubber	12.5	-	-		
Plastics	156.3	0.7	0.5		
Textile products	13.1	-	-		
Wood	10.5	x	х		
Primary metals	47.6	x	х		
Fabricated metals	107.5		-		
Machinery	393.6	4.1	1.0		
Transportation equipment	153.7	-	-		
Electrical and electronic products	46.1	2.5	5.4		
Non-metallic minerals	57.0		-		
Chemical	95.4		-		
Other manufacturing	152.4		-		
Other goods	29.9		-		
Construction: building	28.2	8.8	31.3		
Construction: engineering <sup>2</sup>	1 990.3	1 981.0	99.5		
Construction: trade contracting	55.9	9.1	16.3		
Transportation	3.5				
Waste management industry	2 638.3				
Wholesale: hardware, plumbing, heating	28.3	x	х		
Wholesale: machinery and equipment	206.3	8.9	4.3		
Wholesale: other (including scrap metal)	2 607.3	-	-		
Holding and investment companies	32.0		-		
Business services:	1 074.2	18.9	1.8		
Computer services	19.6		-		
Consulting engineering	634.6	6.2	1.0		
Scientific and technical services	331.4	3.0	0.9		
Lawyers	14.0		-		
Management consulting	42.3	5.7	13.5		
Other business services	32.4	4.1	12.7		
Health and social services	5.5	x	х		
Other services <sup>3</sup>	13.4	1.3	9.4		
Services not classified to other services	30.7	0.1	0.3		
Not classified	94.7	8.9	9.4		
Canada	10 193.1	2 049.0	20.1		

Figures may not add due to rounding.

## Source:

<sup>1.</sup> Only those firms that reported revenues from the sale of environmental goods, services or environment-related construction activities are included in these data.

<sup>2.</sup> These data were derived from demand-side estimates of total environmental revenue. The total number of firms were not included in these estimates.

<sup>3.</sup> Includes rental of machinery and equipment.

Table A.5

Total and Environmental Revenues and Employment<sup>1</sup> by Province or Territory, 1995

Province/Territory	Companies	Total employment	Total revenues	Environmental goods	Environmental services	Environment- related construction	Total environmental revenues
	numbe	er			million dollars		
Newfoundland	98	1 640	162.8	13.1	32.5	63.3	108.8
Prince Edward Island	23	341	26.1	3.3	12.0	8.5	23.8
Nova Scotia	214	3 120	352.3	50.8	97.8	50.9	199.4
New Brunswick	168	2 428	263.2	75.1	65.9	53.1	194.1
Quebec	1 240	30 197	4 443.3	1 236.0	930.6	487.8	2 654.4
Ontario	1 515	70 382	8 926.7	2 082.6	1 660.1	555.9	4 298.6
Manitoba	152	4 679	536.6	97.3	116.6	42.3	256.2
Saskatchewan	187	2 339	237.8	68.7	40.8	48.8	158.3
Alberta	424	16 783	1 921.6	195.0	442.5	411.7	1 049.1
British Columbia	634	17 806	2 511.3	401.8	511.3	314.9	1 228.0
Yukon and Northwest Territories	18	242	27.4	0.3	10.3	11.9	22.5
Canada	4 673 <sup>2</sup>	149 957	19 409.1	4 223.9	3 920.2	2 049.0	10 193.1

Figures may not add due to rounding.

#### Source

Statistics Canada, Environment Statistics Program.

Table A.6

Revenues of Environmental Goods by Province or Territory, 1995

	-	Engles and all and date							
Province/Territory	Total environmental revenues	nental				Other	Total environmental goods revenues	Environmental goods' share of total environmental revenues	
				million	dollars				percent
Newfoundland	108.8	x	-	-	0.1	x	12.7	13.1	12.0
Prince Edward Island	23.8	x	-	-	-	-	x	3.3	13.7
Nova Scotia	199.4	4.4	x	x	7.5	x	35.2	50.8	25.5
New Brunswick	194.1	2.3	-	x	12.4	x	53.1	75.1	38.7
Quebec	2 654.4	182.7	46.3	142.7	45.8	83.6	734.9	1 236.0	46.6
Ontario	4 298.6	354.9	164.8	107.6	76.9	142.0	1 236.3	2 082.6	48.5
Manitoba	256.2	7.7	3.4	17.6	6.1	0.8	61.8	97.3	38.0
Saskatchewan	158.3	27.9	-	0.2	2.1	3.1	35.3	68.7	43.4
Alberta	1 049.1	15.8	40.9	6.8	7.7	6.1	117.7	195.0	18.6
British Columbia	1 228.0	39.6	2.3	5.0	26.9	14.1	313.9	401.8	32.8
Yukon and Northwest Territories	22.5	х	x	-	-	-	x	0.3	1.3
Canada	10 193.1	635.8	258.1	286.1	185.5	254.1	2 604.2	4 223.9	41.4

Note:

Figures may not add due to rounding.

Source:

<sup>1.</sup> Represents all employment related to both the production of environmental and non-environmental goods.

<sup>2.</sup> The total number of companies in this table does not include Construction: Engineering firms due to the methodology used to derive the estimates.

Table A.7

Revenues of Environmental Services by Province or Territory, 1995

					Environm	ental services			
Province/Territory	Total environmental revenues	Waste management	Engineering	Remediation	Water	Analytical	Other	Total environmental services revenues	Environmental services' share of total environmental revenues
				million dollars					percent
Newfoundland	108.8	24.1	4.6	1.1	0.7	1.0	1.0	32.5	29.8
Prince Edward Island	23.8	10.6	1.0	0.2	0.1		0.1	12.0	50.5
Nova Scotia	199.4	51.7	33.6	2.8	2.9	3.3	3.4	97.8	49.0
New Brunswick	194.1	32.1	25.0	6.4	0.5	0.7	1.2	65.9	33.9
Quebec	2 654.4	735.5	118.7	18.3	21.9	16.4	19.8	930.6	35.1
Ontario	4 298.6	1 148.5	363.3	18.1	25.3	39.3	65.6	1 660.1	38.6
Manitoba	256.2	62.4	38.5	2.1	8.2	0.9	4.7	116.6	45.5
Saskatchewan	158.3	22.8	15.9	0.9	0.4	0.4	0.4	40.8	25.7
Alberta	1 049.1	294.2	118.1	4.4	4.5	9.9	11.3	442.5	42.2
British Columbia	1 228.0	317.5	117.3	4.0	4.2	19.2	49.1	511.3	41.6
Yukon and Northwest Territories	22.5	5.5	3.9	0.5	0.1		0.2	10.3	45.6
Canada	10 193.1	2 704.9	840.0	58.7	68.9	91.1	156.7	3 920.2	38.5

Figures may not add due to rounding.

Source:

Statistics Canada, Environment Statistics Program.

Table A.8

Revenues of Environment-related Construction Services by Province or Territory, 1995

		Environment-relat	elated construction services		
Province/Territory	Total environmental revenues	Total environment-related construction services revenues	Environment-related construction services' share of total environmental revenues		
	mil	lion dollars	percent		
Newfoundland	108.8	63.3	58.2		
Prince Edward Island	23.8	8.5	35.6		
Nova Scotia	199.4	50.9	25.5		
New Brunswick	194.1	53.1	27.4		
Quebec	2 654.4	487.8	18.4		
Ontario	4 298.6	555.9	12.9		
Manitoba	256.2	42.2	16.5		
Saskatchewan	158.3	48.8	30.9		
Alberta	1 049.1	411.7	39.2		
British Columbia	1 228.0	314.9	25.6		
Yukon and Northwest Territories	22.5	11.9	53.1		
Canada	10 193.1	2 049.0	20.1		

Note:

Figures may not add due to rounding.

Source:

Table A.9

Total and Environmental Revenues and Employment by Employment Class, 1995

Company size	Companies	Total employment	Total revenues	Environmental goods	Environmental services	Environment- related construction	Total environmental revenues
	number				million dollars		
0-4	2 171	5 238	638.4	261.7	218.5	110.3	590.5
5-9	762	5 801	818.3	312.8	250.5	145.4	708.6
10-24	792	12 965	1 805.0	715.4	588.1	172.8	1 476.4
25-49	504	19 020	2 843.9	1 319.4	553.2	387.9	2 260.5
50-99	239	19 043	2 689.3	714.5	690.6	416.0	1 821.1
100-499	176	34 912	5 298.0	721.9	1 271.7	290.3	2 283.8
500-999	21	15 748	2 060.8	156.4	340.4	252.3	749.1
>999	8	37 229	3 255.4	21.8	7.3	274.0	303.2
Canada	4 673 <sup>2</sup>	149 957	19 409.1	4 223.9	3 920.2	2 049.0	10 193.1

Figures may not add due to rounding.

# Source:

Statistics Canada, Environment Statistics Program.

Table A.10

Revenues of Environmental Goods by Employment Class, 1995

	_				Envir	onmental goods			
Company size	Total environmental revenues	Water	Air	Waste	Energy	Instruments	Other	Total environmental goods revenues	Environmental goods' share of total environmental revenues
				million dol	lars				percent
0-4	590.5	13.2	5.5	6.1	1.9	9.2	225.8	261.7	44.3
5-9	708.6	17.7	4.0	8.1	8.9	10.4	263.7	312.8	44.1
10-24	1 476.4	85.9	30.1	10.5	26.5	40.2	522.3	715.4	48.5
25-49	2 260.5	80.0	45.2	77.0	52.3	36.9	1 028.0	1 319.4	58.4
50-99	1 821.1	170.8	35.8	63.4	29.9	5.5	409.1	714.5	39.2
100-499	2 283.8	259.5	52.4	111.9	51.8	90.9	155.4	721.9	31.6
500-999	749.1	6.2	х	x	х	х	-	156.4	20.9
>999	303.2	2.4	х	х	х	х	-	21.8	7.2
Canada	10 193.1	635.7	258.1	286.1	185.5	254.1	2 604.2	4 224.2	41.4

Note:

Figures may not add due to rounding.

Source:

<sup>1.</sup> Represents all employment related to both the production of environmental and non-environmental goods.

<sup>2.</sup> The total number of companies in this table does not include Construction: Engineering firms due to the methodology used to derive the estimates.

Table A.11

Revenues of Environmental Services by Employment Class, 1995

	•				Environm	ental services			
Company size	Total environmental revenues	Waste management	Engineering	Remediation	Water	Analytical	Other	Total environmental services revenues	Environmental services' share of total environmental revenues
				million dollars					percent
0.4	500 5	450.0	20.2	0.0	2.4	7.0	44.0	040.5	27.0
0-4	590.5	158.0	29.2	9.8	2.4	7.8	11.2	218.5	37.0
5-9	708.6	173.1	51.3	5.2	2.1	8.3	10.5	250.5	35.3
10-24	1 476.4	390.1	126.2	16.4	19.0	19.2	17.3	588.1	39.8
25-49	2 260.5	348.2	135.7	14.1	16.5	10.5	28.3	553.2	24.5
50-99	1 821.1	435.5	200.8	1.6	9.0	19.9	23.8	690.2	37.9
100-499	2 283.8	908.8	267.7	8.4	16.2	23.3	47.3	1 271.7	55.7
500-999	749.1	291.1	23.5	2.8	3.6	2.1	17.3	340.4	45.4
>999	303.2	0.2	5.6	0.3	0.1		1.2	7.3	2.4
Canada	10 193.1	2 704.9	840.0	58.6	68.9	91.1	156.8	3 920.2	38.5

Figures may not add due to rounding.

Source:

Statistics Canada, Environment Statistics Program.

Table A.12

Revenues of Environment-related Construction Services by Employment Class, 1995

		Environment-related	construction services
Company size	Total environmental revenues	Total environment-related construction services revenues	Environment-related construction services' share of total environmental revenues
		million dollars	percent
0-4	590.5	110.3	19.1
5-9	708.6	145.4	20.7
10-24	1 476.4	172.8	11.7
25-49	2 260.5	387.9	17.2
50-99	1 821.1	416.0	23.1
100-499	2 283.8	290.3	12.8
500-999	749.1	252.3	34.3
>999	303.2	274.0	90.4
Canada	10 193.1	2 049.0	20.1

Note:

Figures may not add due to rounding.

Source:

**Annex B: Questionnaires** 



# Environment Industry Survey, 1995

Confidential when completed

Collected under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S19.

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#### Please read before completing

#### SURVEY OBJECTIVE

This survey measures the size of the Canadian Environment Industry and the types of products and services provided by the industry.

The results of this survey will be combined with other government surveys to form a complete picture of the Canadian Environment Industry.

#### CONFIDENTIALITY

Statistics Canada is prohibited by law from publishing any statistics which would divulge information obtained from this survey that relates to any identifiable business, without the previous written consent of that business. The data reported will be treated in strict confidence, used for statistical purposes and published in aggregate form only. The confidentiality provisions of the Statistics Act are not affected by either the Access to Information Act or any other legislation.

## INFORMATION

Important: please read the definitions and instructions listed below before answering.

If you require assistance in completing this questionnaire or if you have any questions or comments regarding this survey, please contact:

> Operations and Integration Division Statistics Canada Ottawa, Canada K1A 0T6

Telephone (toll-free): 1-800-387-0479 Fax: 1-613-951-0709

In all correspondence concerning this questionnaire, please quote the identification number that appears on the address label.

# Please return this questionnaire within 20 days of receipt.

If you are unable to do so, kindly inform the Operations and Integration Division of the expected completion date.

## Definitions

# What is the Environment Industry?

For the purposes of this survey, the Environment Industry includes all companies operating in Canada that are involved in whole or in part in the production of environmental products, the provision of environmental services and the undertaking of environment-related construction activities.

The Environment Industry consists of activities which produce goods and services that are used or can potentially be used, to measure, prevent, limit or correct environmental damage (both natural and man-made) to water, air, soil as well as problems related to waste, noise and ecosystems. The Industry also includes clean technologies and related components which reduce environmental risk, and minimise pollution, material use and energy.

# General Instructions

- Please complete and return this form in the envelope provided.
- If your company is involved in a combination of environmental activities (producing environmental goods, providing environmental services or undertaking environment-related construction), please ensure that the relevant portion(s) of Section A are completed.
- Reasonably accurate estimates are acceptable.
- 4. This questionnaire should be completed for your company's operation in one province/territory only. If you operate in more than one province/territory, you should file separate reports for the other provinces/territories in which you operate. You may wish to photocopy this questionnaire or you may call us toll-free at 1-800-387-0479 to request additional questionnaires.

P	rov	inc	e/te	errit	ory	/ fo	rw	hic	h ti	his	гер	ort	app	lies	5
1															

- 1		1				L	1		l	1
401										

If this company operated in more than one province/territory in 1995, please indicate the other provinces/territories in which you operate and for which you will be returning reports.

402	

# 1a. Reporting year.

Report must cover your most recent financial year ending between April 1, 1995 and March 31, 1996.

031	Day	Month	Year
	010	020	030
From			

002	Day	Month	Year
	040	050	060
to			1 .

4-2200-51: 1996-10-15 STC / NAD - 291-75084



Statistics Canada

es Statistique L Canada



Section A	Company Revenues and Classification	
A1 - What ar	re your company's total revenues for 1995?	\$000's
	company's total revenues reported in A1, indicate the environmental portion for 1995	\$000's
Note: If you pleas	r company provides a combination of environs environs environs of A4, A6	onmental goods, services and construction activities, 5 and A8 are completed.
A3 – Did this	company ship environmental goods in 1995?	O05 Yes O06 No → Go to Question A5
A4 - Please i	indicate the value of your company's 1995 shipm	ents of environmental goods including installation, where
applicat compan	ble. Exclude goods purchased for resale. For the ny's shipments do not fall in any stated category,	ne sub-categories please check all appropriate circles. If your please use the 'other specify' category.
	mental Goods: includes the production of nt, technology and specific materials for;	Environmental Goods: includes the production of equipment, technology and specific materials for;
1. Air Pollutio	n Control \$000's	4. Remediation/Treatment
008 🔾 1.1	air-handling equipment	or soil and water \$000's
	2 catalytic converters	~ ~
010	3 chemical recovery systems	O 4.2 dealing-up
011 0 1.4	4 dust collectors	043 4.3 water treatment equipment
012 0 1.5	separators/precipitators	044 4.4 other, specify
013 () 1.6	incinerators, scrubbers	045
014 () 1.7	odour control equipment	
015 0 1.8	other, specify	Noise/Vibration Abatement \$000's 046
	016	047
		048 5.1 mufflers/silencers
	er Management \$000's	5.2 noise deadening equipment
_	aeration systems	5.3 vibration control systems
019 🔾 2.2	chemical recovery systems	050 5.4 highway barriers
020 🔾 2.3	biological recovery systems	osi 5.5 other, specify
021 🔾 2.4	gravity sedimentation systems	062
022 🔾 2.5	oil/water separation systems	
023 🔾 2.6	screens/strainers	6. Environmental Monitoring, Analysis and Assessment S000's
024 () 2.7	sewage treatment	054
025 2.8	water pollution control, wastewater reuse equipment	6.1 measuring and monitoring equipment
026 🔾 2.9	water handling goods and equipment	U.2 sampling systems
027 🔾 2.1	(pumps, pipes, valves).  0 water treatment chemicals	osc 6.3 process and control equipment
028 🔾 2.1	1 other, specify	058 6.5 other instruments/machines
	029	069 6.6 software
		O O.O SORWAIE
Manageme	dazardous Waste \$000's 000	6.7 other, specify
_	hazardous waste storage /treatment equipment	
ŏ	waste collection equipment	7. Other Products \$000's
034 🔿	waste disposal equipment	7.1 components of cleaner technologies
***	waste handling equipment waste separation equipment	7.2 renewable energy related equipment (solar, wind, tidal, geothermal, other)
0.00	recycling equipment	065 7.3 other, specify
007	incineration equipment	066
000	other, specify	
[03		

Section A Company Revenues and Classification	
A5 – Did this company provide environmental services in 19	995? <sup>067</sup>
	venues from environmental services where applicable. For i. If your company's activities do not fall in any stated
Environmental Services: provision of services for;	Environmental Services: provision of services for;
8. Air Pollution Control \$000's   070 8.1 emission monitoring  071 8.2 assessment/evaluation/planning	103 13.2 biological and ecosystems studies  104 13.3 environment impact assessments/audits  105 13.4 water treatment
072 8.3 other, specify	106 13.5 environmental management planning 107 13.6 risk and hazard assessment 108 13.7 laboratory and field services
9. Waste Water Management \$000's   075 9.1 sewage treatment systems  076 9.2 wastewater reuse systems  077 9.3 water handling systems	109 13.8 environmental economics 110 13.9 legal services (environmental law) 111 13.10 other, specify
9.4 other, specify	14. Environmental Research and Development
10. Solid and Hazardous Waste Management	115 14.2 end of pipe pollution abatement control 116 14.3 other, specify 117
10.3 operation of sites, ownership/management      10.4 recycling (sorting, baleing, cleaning)      10.5 operation of recycling plants (materials	15. Analytical Services, Data Collection and Analysis \$000's
10.5 operation of recycling plants (materials recovery facilities)  10.6 hazardous waste management  10.7 medical waste management  10.8 nuclear waste management  10.9 other, specify	119 15.1 measuring and monitoring 120 15.2 sampling 121 15.3 process and control 122 15.4 data acquisition 123 15.5 other, specify
11. Remediation/Treatment of Soil and Water	16., Environmental Education and Training, Information \$000's 125  126 16.1 environmental education and training 127 16.2 environmental information searching service 128 16.3 environmental data management and analysis 129 16.4 other, specify
12. Noise/Vibration Abatement \$000's  COSE 12.1 assessment/monitoring  COSE 12.2 other, specify	17. Other services \$000's 131  182 17.1 renewable energy production (solar, wind, tidal, geothermal, other)  183 17.2 conservation and resource management  184 17.3 environmental public relations
13. Environmental Contracting and Engineering	125 17.4 other, specify

Section A Company Revenues and Classific							
	ation						
A7 – Did this company provide environment-related construction in 1995?							
A8 – Please indicate your company's 1995 environs including repair and maintenance. For the su activities do not fail in any stated category, please.	b-categor	ies please c	heck all appropriate ci	onstruction services, roles. If your company's			
Environment-related Construction Service provision of construction for;	es:	Env	rironment-related Cor provision of con				
		of Soil and Water					
following breakdown:		Er	nvironmental Sales (\$	000's)			
Sales to:	Pro	oducts					
			Services	Construction			
Individuals (households)	167		Services	Construction			
Individuals (households)			178	190			
Municipal Government	167		178	190			
Municipal Government	167	79	178 179 190	190			
Municipal Government	167 168		178 179 190	190 191 192			
Municipal Government  Provincial/State Government  Federal Government  International Financing Institutions (IFI's)	167 168 169	7	178 179 190 181	190 191 192 193			
Municipal Government  Provincial/State Government  Federal Government  International Financing Institutions (IFI's)  Fish and Fish Products Industry 1	167 168 169 170 171 172		178 179 180 181 182 183 184	190 191 192 193 194 195 196			
Municipal Government  Provincial/State Government  Federal Government  International Financing Institutions (IFI's)  Fish and Fish Products Industry 1  Forestry and Forest Products Industry 1	167 168 168 170 171 172 173	79	178 179 180 181 182 183 184 185	190 191 192 193 194 195 196 197			
Municipal Government  Provincial/State Government  Federal Government  International Financing Institutions (IFI's)  Fish and Fish Products Industry  Forestry and Forest Products Industry  Agriculture and Agricultural Products Industry	167 168 168 170 171 172 173 174		178 179 190 181 182 183 184 185	190 191 192 193 194 195 196 197 198			
Municipal Government  Provincial/State Government  Federal Government  International Financing Institutions (IFI's)  Fish and Fish Products Industry   Forestry and Forest Products Industry   Agriculture and Agricultural Products Industry   Mining, Energy and related Products Industry	167 168 168 170 171 172 173 174 175		178 179 180 181 182 183 184 185 186	190 191 192 193 194 195 196 197 198			
Municipal Government  Provincial/State Government  Federal Government  International Financing Institutions (IFI's)  Fish and Fish Products Industry   Forestry and Forest Products Industry   Agriculture and Agricultural Products Industry   Mining, Energy and related Products Industry   Chemical Industry	167 168 168 170 171 172 173 174		178 179 190 181 182 183 184 185	190 191 192 193 194 195 196 197 198			

Section B	Environmental Revenues					
<b>B2</b> - In 1995	, for the type of environmental activ	ities conducted by your co	ompany, where were your	main customers located?		
		En	vironmental Sales (\$ 0	00's)		
		Products	Services	Construction		
		202	212	222		
Own prov	ince	203	213	223		
Rest of C	anada	204	214	224		
U.S.A	············	205	215	225		
Mexico						
South Am	erica	206	216	226		
Pacific Ri	m¹	207	217	227		
Asia		208	218	228		
		209	219	229		
·		210	220	230		
		211	221	231		
	eign	nesis torre Materia Circ				
	Pacific Rim includes: Hong Kong, Indo	nesia, Japan, Malaysia, Sing	japore, South Korea, Taiwan	and Thailand.		
B3 - Please	estimate your company's growth po	tential in environmental s	ales for the next three yes	ars.		
		Environr	nental Sales Growth Pe	otential (%)		
		1996	1997	1998		
Own provi	ince	232	242	252		
	anada	233	243	253		
		234	254			
		235	245	255		
	erica	296	246	256		
	untries of the Pacific Rim1	237	247	257		
		238	248	258		
		239	249	259		
		240	250	260		
Other fore	ign	241	251	261		
1 Pacific l	- Rim includes: Hong Kong, Indonesia, Ja	nan Malausia Singanore Si	outh Korea, Taiwan and Tha	iland		
		por, maryon, origapore, or	The state of the s	norma.		
Section C	Expenses					
C1 - Please	report this company's 1995 operatin	g expenses		\$ 000's		
Wages.	salaries and employee benefits		262			
	• •	263				
	Other operating expenses, including depreciation					
rotarop	orating experiorates					
C2 - In 1995	, what were this company's capital e aw and used).	expenditures? Include nev	w assets purchased in Ca	anada and all imported assets		
(0001111	on and doed).			\$ 000's		
Duitdings			265			
, ,			266			
Vehicles			267			
All other ma	chinery and equipment		259			
Construction	n of facilitities (excluding residences)	)				
Maintenano	Maintenance and repairs of new and used assets					

Other, specify . . . .

270

Total Number of Employees in Company  Full time Part time 272 279    279   280   287   288   295	in Company  Environmental Goods and Ser  Full time   Part time   286   289   289   287   284   285   2	dministration (senior management, accounting, ception, clerical staff, etc.)  arketing and Sales Representatives irect Labour involved in manufacturing or providing process, casemblers, operators, lab technicians,	in Col Full time 272 273	Part time	Environm Fu 286	ental Goods an	d Ser
in Company  Environmental Goods and Se Full time Part time 272 279  Full time Part time 273 280 286 296 287 294 287 294 288 296 287 294 288 295 288 29	in Company  Environmental Goods and Ser  Full time Part time  272 279  Administration (senior management, accounting, eception, clerical staff, efc.)  Advicting and Sales Representatives  Direct Labour involved in manufacturing or providing envirole davelopment and maintenance, clerical staff, efc.)  279 289  279 280  279 280  279 280  270 291  270 291  270 291  270 291  270 291  270 291  270 291  270 291  270 292  270 292  270 292  270 292  270 292  270 293  270 297  270 294  271 294  272 299  273 299  274 291  275 292  276 293  277 284  277 284  277 284  277 284  277 284  278 285  279 290 297  279 290  270 297  270 297  270 297  271 284  272 299  273 299  274 291  275 292  276 293  277 284  277 284  277 284  278 285  279 290 297  279 290  270 297  270 297  270 298  271 299  272 299  273 290  274 291  275 284  277 284  277 284  277 284  278 285  279 290 297  279 290  270 297  270 291  270 291  271 292  272 299  273 290  274 291  275 292  276 292  277 284  277 284  277 284  277 284  278 285  279 290 297  279 290  270 290	dministration (senior management, accounting, ception, clerical staff, etc.)	in Col Full time 272 273	Part time	Environm Fu 286	ental Goods an	d Ser
Full time Part time    Part time   Part ti	Administration (senior management, accounting, eception, cierical staff, etc.)  Arakeling and Sales Representatives  Direct Labour involved in manufacturing or providing envices (assemblers, operators, lab technicians, eld workers etc.)  Eupport personnel (shipping, receiving, stores, malary functuding inspectors)  Elesearch and product/service development  Direct Labour involved in manufacturing or providing envices (assemblers, operators, lab technicians, eld workers etc.)  East 228  229  229  229  229  229  229  229	arketing and Sales Representatives  irect Labour involved in manufacturing or providing process (assemblers, operators, lab technicians,	Full time 272 273	Part time	Fu 286	II time Part	-
inistration (senior management, accounting, ption, clerical staff, etc.).  272 279 280 287 294 287 294 287 294 287 294 287 294 287 294 287 294 287 294 287 294 287 294 287 294 287 294 287 295 288 295 295 295 295 295 296 297 297 297 298 297 297 298 297 297 298 297 298 297 298 297 298 297 298 297 298 298 299 297 297 298 298 299 297 297 298 298 299 297 297 298 298 299 297 298 298 299 298 298 298 299 298 298 298	Administration (senior management, accounting, ecception, clerical staff, etc.)	arketing and Sales Representatives  irect Labour involved in manufacturing or providing process (assemblers, operators, lab technicians,	272 273	279	286	293	time
inistration (senior management, accounting, ption, clerical staff, etc.).  273 280 287 294  287 294  288 295  288 295  288 295  288 295  288 295  288 295  288 295  289 296  289 296  289 296  289 296  289 297  289 297  289 297  289 298  289 296  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  280 289 296  289 297  289 297  289 297  289 297  280 289 296  280 297  280 289 296  280 297  281 298  281 298  281 298  281 298  290 297  291 298  292 299  293 296  294 297  295 297  296 297  297 298  298 299  299 299  290 297  290 297  291 298  292 299  299  290 297  291 298  291 298  292 299  293 299  294 296  295 297  296 297  297 298  298 299  299 299  290 297  290 297  291 298  291 298  292 299  299  290 297  290 297  291 298  292 299  293 299  294 296  297 298  297 298  298 299  299 299  290 297  290 297  290 297  290 297  290 297  290 297  291 298  292 299  299  290 299  290 316  290 317  290 318  2	Administration (senior management, accounting, eception, cierical staff, etc.).  273 289 287 294  Aarketing and Sales Representatives  274 281 288 295  275 282 289 296  287 294  287 294  288 295  288 295  288 295  288 296  288 296  289 296  289 297  289 297  289 289 297  289 289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  289 297  291 299  291 299  291 299  292 299  293  294 285  295  296  297  298 285  299 297  299  291 299  291 299  292 299  293  294 285  295  296  297  298 285  297  299  299  291 298  291 298  291 298  292 299  293  294  295  297  298  299  297  298  299  299  299	arketing and Sales Representatives  irect Labour involved in manufacturing or providing process (assemblers, operators, lab technicians,	273				
ption, clerical staff, etc.)  xeting and Sales Representatives  ct Labour involved in manufacturing or providing cos (assemblers, operators, lab technicians, workers etc.)  port personnel (shipping, receiving, stores, and handling, repair and maintenance, first-line rivision, etc.)  276  281  288  295  288  296  289  296  289  297  289  289  296  287  289  297  289  289  297  287  284  291  293  287  289  296  287  289  289  297  287  288  297  288  298  29	Advisinstration (senior management, accounting, reception, clerical staff, etc.).  Adviseting and Sales Representatives  273 280 287 294  287 294  288 295  288 296  288 296  289 296  289 296  289 297  280 297  280 297  281 290 297  281 290 297  281 290 297  282 299  289 297  280 297  280 297  281 290 297  281 290 297  281 290 297  282 299  285 290 297  286 285  286 290 297  287 284  290 297  290	arketing and Sales Representatives  irect Labour involved in manufacturing or providing process (assemblers, operators, lab technicians,		280	287	504	
keting and Sales Representatives ct Labour involved in manufacturing or providing cos (assemblers, operators, lab technicians, workers etc.).  274 281 288 295  288 296  289 296  289 297  280 287  289 297  280 297  280 297  281 290 297  281 290 297  282 299  283 290 297  284 291 298  289 296  290 297  281 290 297  284 291 298  289 296  289 297  280 297  281 290 297  281 290 297  282 299  283 290 297  284 291 298  285 299  286 290 297  287 288  289 296  290 297  290 297  291 298  292 299  293 299  294 295  295 296  296 297  297 298  298 299  299 297  290 297  290 297  291 298  290 297  291 298  291 299  292 299  293 299  294 295  295 296  296 297  297 298  298 299  299 297  290 290 297  290 290 297  290 290 297  290 290 297  290 290 297  290 290 290 2	farketing and Sales Representatives  Direct Labour involved in manufacturing or providing envices (assemblers, operators, lab technicians, eld workers etc.).  Proport personnel (shipping, receiving, stores, naterial handling, repair and maintenance, first-line upervision, etc.).  Presearch and product/service development and warranty (including inspectors).  Presearch and product/service development end warranty (including inspectors).  Presearch and product/service development end warranty (including inspectors).  Presearch and product/service development growth potential of your company for the next three years.  Estimated employment growth potential (%)  1996 1997 1998  300 307 314  Administration (senior menagement, accounting, reception, clerical staff, etc.).  301 308 315  Marketing and Sales Representatives  Direct Labour involved in manufacturing or providing services (assemblers, operators, lab technicians, field workers etc.).  302 309 316  302 307 314  Research and product/service development  304 311 318  Research and product/service development  306 312 319  Quality assurance, quality control, customer service and warranty (including inspectors)  306 313 220	irect Labour involved in manufacturing or providing process (assemblers, operators, lab technicians,		280	287	204	
cet Labour involved in manufacturing or providing (cos (assemblers, operators, lab technicians, workers etc.)  port personnel (shipping, receiving, stores, enal handling, repair and maintenance, first-line envision, etc.)  parch and product/service development  city assurance, quality control, customer service warranty (including inspectors)  city assurance, quality control, customer service warranty (including inspectors)  city assurance assurance, quality control, customer service warranty (including inspectors)  city assurance assurance assurance, quality control, customer service warranty (including inspectors)  city assurance assuran	Direct Labour involved in manufacturing or providing envices (assemblers, operators, lab technicians, elid workers etc.).  Support personnel (shipping, receiving, stores, material handling, repair and maintenance, first-line upervision, etc.).  Please estimate the environment-specific employment growth potential of your company for the next three years.  Estimated employment growth potential (%)  Please estimate the environment-specific employment growth potential of your company for the next three years.  Estimated employment growth potential (%)  Administration (senior management, accounting, reception, clerical staff, etc.).  Direct Labour involved in manufacturing or providing services (assemblers, operators, lab technicians, field workers etc.).  Support personnel (shipping, receiving, stores, material handling, repair and maintenance, first-line supervision, etc.).  Guality assurance, quality control, customer service and warranty (including inspectors).  276  282  289  290  297  289  290  297  284  291  292  293  293  295  296  297  289  290  297  289  290  297  284  291  298  299  297  299  297  299  297  299  297  299  297  290  297  299  297  299  297  299  297  299  297  290  297  298  299  299  299  299  290  297  290  297  290  297  290  297  297	irect Labour involved in manufacturing or providing process (assemblers, operators, lab technicians,	274	1	1 1	234	
execution in manufacturing or providing (cos) (assemblers, operators, lab technicians, workers etc.)  275 282 289 296  289 296  289 296  289 296  289 296  280 287  280 289 290 287  281 290 287  281 281 290 287  281 282 290 287  281 283 290 287  281 283 290 287  281 283 290 287  282 290 287  283 290 287  284 281 298  285 290 287  286 285 290 287  287 288 281 298  289 390 287  280 281 282 299  280 290 287  281 298 290 287  281 298 290 287  282 299 290  283 290 287  284 285 290 287  285 290 287  286 285 290 297  287 288 281 298  289 390 287  280 281 298  281 298 390 287  281 298 390 287  282 299 390  282 299 390  283 390 397 398  284 391 298  285 390 390 391  286 390 390 391  287 390 390 391  288 390 390 391  290 287  290 287  290 287  290 287  290 287  290 287  290 287  290 287  290 287  290 287  290 287  290 287  290 290 297  290 290 297  290 290 297  290 290 297  290 290 290  290 290 290  290 290 29	Direct Labour involved in manufacturing or providing envices (assemblers, operators, lab technicians, led workers etc.).  Administration (senior menagement, accountling, reception, clerical staff, etc.)  Direct Labour involved in manufacturing or providing envirosing seniors (shipping, receiving, stores, material handling, repair and maintenance, first-line upervision, etc.)  Administration (senior menagement, accountling, reception, clerical staff, etc.)  Direct Labour involved in manufacturing or providing services (assemblers, operators, lab technicians, lield workers etc.)  Support personnel (shipping, receiving, stores, material handling, repair and maintenance, first-line supervision, etc.)  Guality assurance, quality control, customer service and warranty (including inspectors)  277  284  281  282  289  290  297  284  281  291  292  293  294  295  297  284  297  284  291  293  297  298  299  297  298  299  297  298  299  297  299  297  299  297  290  297  298  299  298  299  296  297  299  297  299  297  299  297  299  297  299  297  290  297  290  297  290  297  290  297  290  297  298  299  297  299  297  299  290  297  290  297  298  299  297  299  297  299  297  290  297  298  299  297  299  297  299  297  299  297  299  297  299  297  299  297  298  299  297  298  299  297  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  297  298  299  298  299  297  298  299  297  298  299  297  299  297  298  299  297  299  297  284  291  299  299  297  299  297  284  299  297  284  299  297  284  290  297  284  291  299  297  284  299  297  284  291  299  297  284  299  297  284  299  297  298  299  297  298  299  297  298  299  297  299  297  299  297  299  297  299  297  299  297  299  299  297  299  297  299  297  299  299  297  299  297  299  299  297  299  297  299  299  297  299  297  299  299  297	ervices (assemblers, operators, lab technicians,	274				
workers etc.)  port personnel (shipping, receiving, stores, and handling, repair and maintenance, first-line envision, etc.)  parch and product/service development  product/service development  277	Administration (senior management, accounting, reception, clerical staff, etc.)  Administration (senior management, accounting, reception, clerical staff, etc.)  Direct Labour involved in manufacturing or providing services (assemblers, operators, lab technicians, lield workers etc.)  Support personnel (shipping, receiving, stores, material handling, repair and maintenance, first-line supervision, etc.)  275  282  289  290  287  281  290  287  284  291  292  293  292  293  294  295  296  297  284  291  292  299  297  298  297  298  298  298	ervices (assemblers, operators, lab technicians,	214	281	288	295	
poort personnel (shipping, repair and maintenance, first-line provision, etc.)  276 283 290 287  284 290 287  285 290 287  286 283 290 287  287 284 289 289  287 288 289 299  288 289 299  288 299 299  299 299  290 287  290 288 299  290 287  290 298  290 297  290 290 297  290 290 297  290 290 290  290 290 290  290 290 290  290 290 290  290 290 290  290 290 290  290 290 290  290 290 290  290 290 290  290 290 290  290 290 290	support personnel (shipping, receiving, stores, material handling, repair and maintenance, first-line upervision, etc.)  276 283 290 287  288 290 287  288 290 287  288 290 287  288 290 287  289 288 290 287  280 288 290 287  280 288 290 287  281 238 290 287  281 238 290 287  281 238 290 287  281 238 290 287  281 238 290 287  281 282 299  282 299  283 290 287  284 285 290 287  286 283 290 287  287 284 285  281 288 290 287  280 285 290  281 285 290  281 285 290  282 299  283 290 287  284 285 290  287 288 290  287 288 290  287 288 290  288 290 287  288 290 287  288 290 287  288 290 287  288 290 287  288 290 287  288 290 287  289 290  280 287  280 288 290  280 287  280 288 290  281 288 290  281 288 290  281 288 290  282 290  283 290  287 288 290  288 290  289 290  290 314  301 308 315  302 309 316  303 317  304 311 318  290 287  288 290  290 287  288 290  290 287  288 290  290 287  288 290  290 287  288 290  290 287  288 290  290 287  288 290  290 287  288 290  290 287  288 290  290 287  288 290  290 287  290						
Please astimate the environment-specific employment growth potential of your company for the next three years.  Estimated employment growth potential (%)  1996 1997 1998  300 307 114  1998 300 307 315  Indicates the first and Sales Representatives ect Labour involved in manufacturing or viding services (assemblers, operators, lab Incicans, field workers etc.)  277 284 285 299 299  288 285 299  290 297  291 298  292 299  293 297  294 395  295 296  297  298 398  299 316  290 399  300 307  301 308 315  302 309 316  303 307 316  304 311 318  305 307  306 317  307  308 315  309 316  300 307  309 316  300 307  300 307  301 308 315  302 309 316  303 307  304 311 318  305 307	tesearch and product/service development	upport personnel (shipping, receiving, stores,	275	282	289	296	
parch and product/service development	Administration (senior management, accounting, reception, clerical staff, etc.)  Direct Labour involved in manufacturing or providing services (assemblers, operators, lab technicians, field workers etc.)  Support personnel (shipping, receiving, stores, material handling, repair and maintenance, first-line supervision, etc.)  Cluality assurance, quality control, customer service and warranty (including inspectors)  277	.pervision, etc.)			↓ ∟		
lity assurance, quality control, customer service warranty (including inspectors)	Administration (senior menagement, accounting, reception, cerical staff, etc.)  Direct Labour involved in manufacturing or providing services (assemblers, operators, lab technicians, field workers etc.)  Support personnel (shipping, receiving, stores, material handling, repair and maintenance, first-line supervision, etc.)  Administration (senior menagement, accounting, reception, cerical staff, etc.)  Direct Labour involved in manufacturing or providing services (assemblers, operators, lab technicians, field workers etc.)  Support personnel (shipping, receiving, stores, material handling, repair and maintenance, first-line supervision, etc.)  Administration (senior menagement, accounting, reception, cerical staff, etc.)  301  302  309  316  300  317  318  304  319  319  Quality assurance, quality control, customer service and warranty (including inspectors)  306  319  320  3310  3311  3312  3319		276	283	290	297	
Please astimate the environment-specific employment growth potential of your company for the next three years.  Estimated employment growth potential (%)  1996 1997 1998  300 307 114  Ininistration (senior management, accounting, eption, cierical staff, etc.).  act Labour involved in manufacturing or viding services (assemblers, operators, lab hinicians, field workers etc.).  act Labour involved in manufacturing or viding services (assemblers, operators, lab hinicians, field workers etc.).  301 308 315  302 309 316  303 310 317  304 311 318  search and product/service development.	Administration (senior management, accounting, reception, clerical staff, etc.).  Direct Labour involved in manufacturing or providing services (assemblers, operators, lab technicians, field workers etc.).  Direct Labour involved in manufacturing or providing services (assemblers, operators, lab technicians, field workers etc.).  Support personnel (shipping, receiving, stores, material handling, repair and maintenance, first-line supervision, etc.)  Research and product/service development  Guality assurance, quality control, customer service and warranty (including inspectors  228  232  239  230  231  307  1996  1997  1998  300  301  306  315  307  316  307  308  317  318  309  310  317  319  300  310  311  311  312  313				<b>↓</b>		
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ect Labour involved in manufacturing or viding services (assemblers, operators, lab hinicians, field workers etc.)  poort personnel (shipping, receiving, stores, terial handling, repair and maintenance, first-line lervision, etc.)  303  310  317  318  304  311  318	Direct Labour involved in manufacturing or providing services (assemblers, operators, lab technicians, field workers etc.)  Support personnel (shipping, receiving, stores, material handling, repair and maintenance, first-line supervision, etc.)  303  310  317  304  311  318  Research and product/service development  305  312  319  Quality assurance, quality control, customer service and warranty (including inspectors  306  313  320	Marketing and Sales Representatives					
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	306 313 320						
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306 313 320		, in the second					
ality assurance, quality control, customer service	306 313	Direct Labour involved in manufacturing or providing services (assemblers, operators, lab echnicians, field workers etc.)  Support personnel (shipping, receiving, stores, naterial handling, repair and maintenance, first-line supervision, etc.)	303	310			317
warranty (including inspectors	'otal	, , , , , , , , , , , , , , , , , , , ,	306	313		320	
		Total					

E-mail Address

Ownership Content: Canadian Ownership (%)

Section F	Comments
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	**
All the second second	Thank you for your cooperation
	Please return this questionnaire in the envelope provided
	If you have any questions please contact us.
*	Telephone (toll free): 1-800-387-0479 Fax: 1-613-951-0709
For Statistics	Canada use only
Rec.	Ed. Kyd. Bat. Cot. FSC

# Environment Industry Survey, 1995

Confidential when completed

Collected under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S19.

SHORTFORM

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Correct as required

# Please read before completing

#### SURVEY OBJECTIVE

This survey measures the size of the Canadian Environment Industry and the types of products and services provided by the industry.

The results of this survey will be combined with other government surveys to form a complete picture of the Canadian Environment Industry.

#### CONFIDENTIALITY

Statistics Canada is prohibited by law from publishing any statistics which would divulge information obtained from this survey that relates to any identifiable business, without the previous written consent of that business. The data reported will be treated in strict confidence, used for statistical purposes and published in aggregate form only. The confidentiality provisions of the Statistics Act are not affected by either the Access to Information Act or any other legislation.

## INFORMATION

Important: please read the definitions and instructions listed below before answering.

If you require assistance in completing this questionnaire or if you have any questions or comments regarding this survey, please contact:

> Operations and Integration Division Statistics Canada Ottawa, Canada K1A 0T6

Telephone (toll-free): 1-800-387-0479
Fax: 1-613-951-0709

In all correspondence concerning this questionnaire, please quote the identification number that appears on the address label.

# Please return this questionnaire within 20 days of receipt.

If you are unable to do so, kindly inform the Operations and Integration Division of the expected completion date.

## Definitions

# What is the Environment Industry?

For the purposes of this survey, the Environment Industry Includes all companies operating in Canada that are involved in whole or in part in the production of environmental products, the provision of environmental services and the undertaking of environment-related construction activities.

The Environment Industry consists of activities which produce goods and services that are used or can potentially be used, to measure, prevent, limit or correct environmental damage (both natural and man-made) to water, air, soil as well as problems related to waste, noise and ecosystems. The Industry also includes clean technologies and related components which reduce environmental risk, and minimise pollution, material use and energy.

## General Instructions

- Please complete and return this form in the envelope provided.
- If your company is involved in a combination of environmental activities (producing environmental goods, providing environmental services or undertaking environment-related construction), please ensure that the relevant portion(s) of Section A are completed.
- Reasonably accurate estimates are acceptable.
- 4. This questionnaire should be completed for your company's operation in one province/territory only. If you operate in more than one province/territory, you should file separate reports for the other provinces/territories in which you operate. You may wish to photocopy this questionnaire or you may call us toll-free at 1-800-387-0479 to request additional questionnaires.

Province/territory for which	ch this report applies
------------------------------	------------------------

401

If this company operated in more than one province/territory in 1995, please indicate the other provinces/territories in which you operate and for which you will be returning reports.

402

# Reporting year.

Report must cover your most recent financial year ending between April 1, 1995 and March 31, 1996.

001	Day	Month	Year
	010	020	030
From			

002	Day	Month	Year
	040	050	060
to			

4-2200-60: 1996-10-15 STC / CDN - 291-75084



Statistics Statistique Canada Canada



Section A	Company Revenues and Classification	
A1 - What ar	e your company's total revenues for 1995?	\$000's
	company's total revenues reported in A1, indicate the environmental portion for 1995	\$000's
Note: If you pleas	r company provides a combination of environ e ensure that the relevant portions of A4, Af	onmental goods, services and construction activities, 5 and A8 are completed.
A3 - Did this	company ship environmental goods in 1995?	005 Yes 006 No → Go to Question A5
applicat	ndicate the value of your company's 1995 shipm ble. Exclude goods purchased for resale . For the y's shipments do not fall in any stated category,	ents of environmental goods including installation, where as sub-categories please check all appropriate circles. If your please use the 'other specify' category.
	nental Goods: includes the production of nt, technology and specific materials for;	Environmental Goods: includes the production of equipment, technology and specific materials for;
008	air-handling equipment catalytic converters chemical recovery systems dust collectors separators/precipitators incinerators, scrubbers	4. Remediation/Treatment of Soil and Water
015 1.8	odour control equipment other, specify  116  er Management \$000's	5. Noise/Vibration Abatement \$000's 046 047 5.1 mulflers/silencers 048 5.2 noise deadening equipment 049 5.3 vibration control systems
019 O 2.2 020 O 2.3 021 O 2.4	aeration systems chemical recovery systems biological recovery systems gravity sedimentation systems oil/water separation systems	050 5.4 highway barriers 051 5.5 other, specify
024 \ 2.7 025 \ 2.8 026 \ 2.9	screens/strainers sewage treatment water pollution control, wastewater reuse equipment water handling goods and equipment (pumps, pipes, valves).  0 water treatment chemicals	6. Environmental Monitoring, Analysis and Assessment \$000's  054 6.1 measuring and monitoring equipment  055 6.2 sampling systems  056 6.3 process and control equipment  057 6.4 data acquisition equipment
3. Solid and H Manageme	1 other, specify 029  lazardous Waste nt	058 6.5 other instruments/machines 059 6.6 software 060 6.5 other, specify
033 \( \) 3.3 034 \( \) 3.4 035 \( \) 3.5 036 \( \) 3.6 037 \( \) 3.7	waste collection equipment waste disposal equipment waste handling equipment waste separation equipment recycling equipment incineration equipment other, specify	7. Other Products \$000's 062  063 7.1 components of cleaner technologies  064 7.2 renewable energy related equipment (solar, wind, tidal, geothermal, other)  065 7.3 other, specify 066

Section A Company Revenues and Classification						
A5 -	- Did this company provide environmental services in 1995? OFF OFF Yes OFF OFF NO → Go to Question A7					
A6 -	<ul> <li>Please indicate your company's 1995 environmental revenues from environmental services where applicable. For the sub-categories please check all appropriate circles. If your company's activities do not fall in any stated category, please use the 'other specify' category.</li> </ul>					
Env	vironmental Services; provision of services for;	Environmental Services; provision of services for;				
9. W	ir Pollution Control \$000's    70	103 13.2 biological and ecosystems studies  104 13.3 environment impact assessments/audits  105 13.4 water treatment  106 13.5 environmental management planning  107 13.6 risk and hazard assessment  108 13.7 laboratory and field services  109 13.8 environmental economics  110 13.9 legal services (environmental law)  111 13.10 other, specify  112  14. Environmental Research and Development \$000's 113  114 14.1 clean processess  115 14.2 end of pipe pollution abatement control				
06 06 06 06 06 06	10.1 emergency response and spills cleanup  10.2 waste handling - collection, transport, transfer stations and disposal  10.3 operation of sites, ownership/management  10.4 recycling (sorting, baleing, cleaning)  10.5 operation of recycling plants (materials recovery facilities)  10.6 hazardous waste management  10.7 medical waste management  10.8 nuclear waste management  10.9 other, specify  10.9	14.3 other, specify  15. Analytical Services, Data Collection and Analysis \$000's  19 15.1 measuring and monitoring  120 15.2 sampling  121 15.3 process and control  122 15.4 data acquisition  123 15.5 other, specify				
06 06 06 05	Remediation/Treatment of Soil and Water\$000's  92 11.1 cleaning-up  93 11.2 operation of water treatment facilities  94 11.3 industrial services (cleaning for facilities and tanks)  95 11.4 other, specify  1096  Noise/Vibration Abatement \$000's  12.1 assessment/monitoring  12.2 other, specify	16: Environmental Education and Training, Information \$000's  126 16.1 environmental education and training 127 16.2 environmental information searching service 128 16.3 environmental data management and analysis 129 16.4 other, specify 130  17. Other services				
а	Environmental Contracting and Engineering	134 17.3 environmental public relations 135 17.4 other, specify				

Section A Company Revenues and Classifica	ation			
A7 - Did this company provide environment-related construction in 1995?	I	<sup>137</sup>	<sup>138</sup> ○ No → Go to	Section B
A8 - Please indicate your company's 1995 environm including repair and maintenance. For the sub- activities do not fall in any stated category, ple	-categor	les please check all a	appropriate circles. If:	ion services, your company's
Environment-related Construction Services provision of construction for;	s;		t-related Construction construction for;	n Services;
a. Air Pollution Control \$000's 139 140 18.1 specify 141  19. Waste Water Management \$000's 142 143 19.1 sewer systems 144 19.2 water treatment plants 145 19.3 other, specify 146  20. Solid and Hazardous Waste Management \$000's 147 148 20.1 hazardous waste management 149 20.2 solid waste treatment, storage and display 150 20.3 recycling 151 20.4 other, specify 152  Section 8 Employment	sposal	22. Noise/Vibration  157	ter \$000's	wind, tidal, wildlife, habitat) ent systems
B1 - What is the distribution of staff in your company?		mber of Employees n Company		loyees Providing oods and Services
	Full ti	me Part time	Full time	Part time
Administration (senior management, accounting, reception, clerical staff, etc.)	272	279	286	293
Marketing and Sales Representatives	278	280	287	294
Direct Labour involved in manufacturing or providing services (assemblers, operators, lab technicians, field workers etc.)	274	281	288	295
Support personnel (shipping, receiving, stores, material handling, repair and meintenence, first-line supervision, etc.)	275	282	289	296
	276	283	290	297
Research and product/service development	277	284	291	296
and warranty (including inspectors)	278	285	292	299
Total				

	Signature	Date
·		
Name of person completing	this questionnaire (type or print)	
Title		A
Telephone	Fax	Year Company was Established
( , , , )	Fax ( )	
E-mail Address		Ownership Content: Canadian Ownership (%)
		Caradian Ownership (18)
ion D Comments		
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	Thank you for you	cooperation
	Please return this questionnaire	in the envelope provided
	If you have any questions	
	Telephone (toll free): 1-800-387-0479	Fax: 1-613-951-0709