



## 2008 Survey of Service Industries: Engineering

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### Reporting Guide

This guide is designed to assist you as you complete the 2008 Survey of Service Industries. If you need more information, please call the Statistics Canada Help Line at the number below.

**Help Line: 1-888-881-3666**

#### Your answers are confidential.

Statistics Canada is prohibited by law from releasing any information from this survey which would identify a person, business, or organization, without their prior consent. The confidentiality provisions of the *Statistics Act* are not affected by either the *Access to Information Act* or any other legislation. **Therefore, for example, the Canada Revenue Agency cannot access identifiable survey data from Statistics Canada.**

These survey data will only be used for statistical purposes and will be published in an aggregate form only.

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## B - Main business activity

### 1. Please describe the nature of your business.

To ensure that you have received the appropriate questionnaire, you are asked to describe the nature of your business. The description should briefly state the main activities of your business unit.

### 2. Please check the one main activity which most accurately represents your main source of revenue.

Below is a description of each main activity.

#### Engineering services

This industry comprises business units primarily engaged in applying principles of engineering in the design, development and utilization of machines, materials, instruments, structures, processes and systems. The assignments undertaken by these establishments may involve any of the following activities: the provision of advice, the preparation of feasibility studies, the preparation of preliminary and final plans and designs, the provision of technical services during the construction or installation phase, the inspection and evaluation of engineering projects, and related services.

#### Include:

- acoustical engineering consulting services;
- boat engineering design services;
- chemical engineering services;
- civil engineering services;
- combustion and heating engineering consultants;
- construction engineering services;
- electrical and electronic engineering services;
- engineering consulting services;
- engineering design services;
- engineers, private practice;
- environmental engineering services;
- erosion control engineering services;
- geological engineering services;
- geophysical engineering services;
- industrial engineering services;
- logging engineering services;
- marine engineering services;
- mechanical engineering services;
- mining engineering services;
- office of engineers;
- petroleum engineering services;
- traffic consultants, engineering services.

#### Exclude:

- design and construction of buildings, highways and other structures;
- managing construction projects;
- gathering, interpreting and mapping geophysical data;
- providing engineering surveying services;
- creating and developing designs and specifications that optimize the function, value and appearance of products;
- planning and designing computer systems that integrate existing hardware, packaged or custom software and communication technologies;
- providing advice and assistance to others on environmental issues, such as the control of environmental contamination from pollutants, toxic substances and hazardous materials.

If none of the above activities describes your main source of revenue, please call **1-888-881-3666** for further instructions.

## C - Reporting period information

Please report information for your **fiscal year** (normal business year) **ending between** April 1, 2008 and March 31, 2009. Please indicate the reporting period covered by this questionnaire.

## F - Industry characteristics

### Sales by type of service

Please provide a breakdown of your sales. Please indicate if you are reporting in **either** Canadian dollars **or** percentage of total sales by ticking the appropriate box.

#### Engineering services

### 1. Residential building engineering projects

All engineering services related to new and existing homes, row housing, apartments, etc., and mixed-use buildings that are predominantly used for residential housing.

#### Include:

- the provision of designs, plans, and studies related to residential building projects;
- engineering advisory services that are related to a specific residential building project;
- engineering design services for residential building design-build projects that are provided on a subcontract basis.

#### Exclude:

- engineering advisory services that are not related to a specific project; please report this amount in this section, at question 15;

- design-build contracts, in which the contracts cover both the engineering design and construction elements; please report this amount in this section, at question 18.

## 2. Commercial, public and institutional building engineering projects

All engineering services related to new and existing commercial, public, and institutional buildings, including mixed-use buildings that are predominantly used for commercial, public, or institutional purposes.

### Include:

- office buildings, shopping centres, hotels, restaurants, service stations, warehouses, bus and truck terminals, hospitals, schools, churches, prisons, stadiums and arenas, libraries, and museums;
- the provision of designs, plans, and studies related to commercial, public, and institutional building projects;
- engineering advisory services that are related to a specific commercial, public, or institutional building project;
- engineering design services for commercial, public, or institutional building design-build projects that are provided on a subcontract basis.

### Exclude:

- engineering advisory services that are not related to a specific project; please report this amount in this section, at question 15;
- design-build contracts, in which the contracts cover both the engineering design and construction elements; please report this amount in this section, at question 18.

## Industrial and manufacturing engineering projects

### 3. Mining and metallurgical plant and process engineering projects

All engineering services related to mining and metallurgical facilities and processes.

### Include:

- integrated facility and process engineering projects;
- all engineering services related to mining and metallurgical processes, such as mineral extraction, smelting, refining and metal forming.

### 4. Petroleum and petrochemical plant and process engineering projects

All engineering services related to petroleum and petrochemical facilities and processes, such as oil and gas platforms, refineries, pipelines, and petrochemical plants.

### Include:

- integrated facility and process engineering projects;
- all engineering services related to processes for the production of petroleum and petrochemicals, such as extraction, refining, formulation and mixing.

### 5. Pulp and paper plant and process engineering projects

All engineering services related to pulp and paper facilities and processes, such as pulp and paper mills.

### Include:

- integrated facility and process engineering projects;
- pulp washing, screening, bleaching and drying.

### 6. Industrial machinery engineering design projects

All engineering services related to the design of industrial machinery.

**Include** machinery design for industries such as:

- agriculture;
- construction;
- mining;
- metalworking;
- commercial and service industries;
- heating, ventilating and air-conditioning;
- power transmission machinery.

### 7. Electronic and electrical equipment engineering design projects

All engineering services related to the design of electronic and electrical equipment.

### Include:

- computers and peripheral equipment;
- communications equipment;
- audio and video equipment;
- semiconductors and other electronic components;
- lighting;
- major and minor appliances, and components thereof.

### 8. Transportation equipment engineering design projects

All engineering services related to the design of transportation equipment.

**Include:**

- motor vehicles;
- aircraft;
- trains;
- marine vessels;
- space vehicles.

**9. Other industrial and manufacturing engineering projects**

All engineering services related to the design of industrial and manufactured products not elsewhere classified.

**10. Transportation engineering projects (e.g., road, rail, air, marine)**

All engineering services related to highways, roads, streets, bridges, tunnels, railways, subways, airports, harbours, canals and locks, and other transportation infrastructure.

**Include:**

- the provision of designs, plans, and studies related to transportation projects;
- engineering advisory services that are related to a specific transportation project;
- engineering design services for a transportation design-build project that are provided on a subcontract basis.

**Exclude:**

- engineering advisory services not related to a specific project; please report this amount in this section, at question 15;
- design-build contracts in which the contracts cover both the engineering design and construction elements; please report this amount in this section, at question 18.

**11. Municipal utility engineering projects**

All engineering services related to municipal utilities.

**Include:**

- the provision of designs, plans, and studies related to municipal utility projects;
- engineering advisory services that are related to a specific municipal utility project;
- engineering design services for a municipal utility design-build project that are provided on a subcontract basis.

**Exclude:**

- engineering advisory services that are not related to a specific project; please report this amount in this section, at question 15;

- design-build contracts, in which the contracts cover both the engineering design and construction elements; please report this amount in this section, at question 18.

**12. Power generation, transmission and distribution engineering projects**

All engineering services related to power generating units, power transmission and distribution lines, and related infrastructure.

**Include:**

- the provision of designs, plans, and studies related to power projects;
- engineering advisory services that are related to a specific power project;
- engineering design services for a power design-build project that are provided on a subcontract basis.

**Exclude:**

- engineering advisory services that are not related to a specific project; please report this amount in this section, at question 15;
- design-build contracts, in which the contracts cover both the engineering design and construction elements; please report this amount in this section, at question 18.

**13. Telecommunications and broadcasting engineering projects**

All engineering services related to systems for the transmission or distribution of voice, data, and programming.

**Include:**

- the provision of designs, plans, and studies related to telecommunications and broadcasting projects;
- engineering advisory services that are related to a specific telecommunications or broadcasting project;
- engineering design services for a telecommunications or broadcasting design-build project that are provided on a subcontract basis.

**Exclude:**

- engineering advisory services that are not related to a specific project; please report this amount in this section, at question 15;
- design-build contracts, in which the contracts cover both the engineering design and construction elements; please report this amount in this section, at question 18.

#### 14. Hazardous and industrial waste engineering projects

All engineering services related to systems for the collection, treatment, and disposal of hazardous and industrial waste and the control of pollution.

##### **Include:**

- the provision of designs, plans, and studies related to hazardous and industrial waste projects;
- engineering advisory services that are related to a specific hazardous or industrial waste project;
- engineering design services for a hazardous or industrial waste design-build project that are provided on a subcontract basis.

##### **Exclude:**

- engineering advisory services that are not related to a specific project; please report this amount in this section, at question 15;
- design-build contracts, in which the contracts cover both the engineering design and construction elements; please report this amount in this section, at question 18.

#### 15. Engineering advisory services (e.g., expert witness, forensic investigation, etc.)

The provision of advice, studies, and reports on engineering matters, except when the advice relates to a specific project. Advice, studies, and reports provided in conjunction with a project are classified based on the project type.

##### **Include:**

- policy analysis;
- regulatory studies;
- audits;
- forensic investigations;
- expert witness services.

#### 16. Other engineering projects or services

Other projects or services provided by engineering firms that are not classified elsewhere.

##### **Secondary activities**

#### 17. Project management services

Planning, supervising, and co-ordinating the activities involved in carrying out a project, with regard to time, cost, performance requirements, and other constraints. May also include the arrangement of finances for a project, and procurement of equipment and subcontractors. Project management services refer only to situations in which project management is offered as a stand-alone service.

#### 18. Construction services (including design-build contracts)

Constructing, repairing and renovating buildings and engineering works, as well as subdividing and developing land, through prime contracts or sub-contracts.

##### **Include:**

- construction of buildings;
- heavy and civil engineering construction;
- specialty trade contractors.

##### **Exclude:**

- manufacturing and installing building equipment such as power boilers and manufacturing pre-fabricated buildings;
- operating highways, streets and bridges;
- house moving (transportation only);
- project management services, when it is a primary activity;
- maintenance of rights of way for power, communication and pipe lines;
- cleaning building exteriors after construction.

#### 19. Environmental consulting services

The provision of objective information, advice, and guidance to clients concerning the preservation of air, water, and soil quality; natural resource development; waste management; pollution control; and other environmental issues.

##### **Include:**

- the sale or transfer of technology to a client, which often extends to assisting the client with the organization and monitoring of solution implementation.

##### **Exclude:**

- services that involve stand-alone implementation.

#### 20. Other sales

All other engineering services not defined above.

#### 21. Total sales

The sum of questions 1 to 20 above.

##### **Sales by type of revenue**

Please indicate if you are reporting in **either** Canadian dollars **or** percentage of total sales by ticking the appropriate box.

##### **1. Fee income**

Revenues collected by the company for professional service fees rendered.

**Exclude:**

- reimbursable expenses;
- sub-contract fees awarded to other companies.

**2. Sub-contracts**

Please report the value of sub-contracts awarded by you to other firms or consultants.

**3. Reimbursables**

**Include:**

- the cost of all contract-related materials used in a project that are billed to the client.

**Exclude:**

- sub-contract fees.

**5. Total sales**

The sum of questions 1 to 4 above.

**Environment – related projects**

This section collects data on sales of selected environmental engineering services:

- All engineering services related to facilities that generate electrical power from the following sources of renewable energy: sun, wind, water, earth's heat or biomass.**
- All engineering services related to systems for the treatment of municipal waste water.**
- All engineering services related to municipal garbage collection and disposal systems, including recycling facilities, composting facilities, transfer stations, resource recovery facilities, and landfill sites.**
- All engineering services related to remediation of contaminated site, including remediation of the air, soil, ground and/or surface water (fresh or salt).**
- All engineering services related to programs for the collection, treatment, recycling, and disposal of industrial air, water and solid wastes, generally to a level such that the remaining waste stream can be safely released to the natural environment or ordinary municipal systems.**

**Include:**

- sales of related machinery, equipment and products sold as part of a service delivered.

## G - Personnel

To fully measure the contribution of all human capital in this industry, we require information on the number of partners and proprietors as well as the number and classification of workers.

**1. Number of partners and proprietors, non-salaried (if salaried, report at question 2 below)**

For unincorporated businesses, please report the number of partners and proprietors for whom earnings will be the net income of the partnership or proprietorship.

**2. Paid employees**

**a) Average number of paid employees during the reporting period**

To calculate the average number employed, add the number of employees in the last pay period of each month of the reporting period and divide this sum by the number of months (usually 12).

**Exclude:**

- partners and proprietors, non-salaried reported at question 1 above.

**b) Percentage of paid employees (from question 2a) who worked full time**

Full-time employment consists of persons who usually work 30 hours or more per week. Please specify the percentage of paid employees who have been working full time by rounding the percentage to the nearest whole number.

**3. Number of contract workers for whom you did not issue a T4, such as freelancers and casual workers (estimates are acceptable)**

Contract workers are not employees, but workers contracted to perform a specific task or project in your organization for a specific duration, such as self-employed persons, freelancers and casual workers. These workers are not issued a T4 information slip. Please report the number of contract workers employed by your organization during the fiscal year.

**4. Number of volunteers during the reporting period (estimates are acceptable)**

Please report the number of unpaid workers employed by your organization during the fiscal year.

**5. Number of hours worked by all volunteers during the reporting period (estimates are acceptable)**

Please report the number of hours recorded by your organization for the work performed by volunteers during the fiscal year.

## H - Sales by type of client

This section is designed to measure which sector of the economy purchases your services.

Please provide a percentage breakdown of your sales by type of client.

Please ensure that the sum of percentages reported in this section equals 100%.

### 1. Clients in Canada

#### a) Businesses

Percentage of sales sold to the business sector should be reported here.

**Include:**

- sales to Crown corporations.

#### b) Individuals and households

Please report the percentage of sales to individuals and households who do not represent the business or government sector.

#### c) Governments, not-for-profit organizations and public institutions (e.g., hospitals, schools)

Percentage of sales to federal, provincial, territorial and municipal governments should be reported here.

**Include:**

- sales to hospitals, schools, universities and public utilities.

### 2. Clients outside Canada

Please report the share of total sales to customers or clients located outside Canada including foreign businesses, foreign individuals, foreign institutions and/or governments.

**Include:**

- sales to foreign subsidiaries and affiliates.

## I - Sales by client location

Please provide a percentage breakdown of your total sales by client location (first point of sale).

Please ensure that the sum of percentages reported in this section equals 100%.

The percentage in question 14 must equal question 2 in section H.

## J - International transactions

This section is intended to measure the value of international transactions on goods, services, and royalties and licences fees. It covers **imported services and goods** purchased outside Canada as well as the value of **exported services and goods** to clients/customers outside Canada. Please report also royalties, rights, licensing and franchise fees paid to and/or received from outside Canada. Services cover a variety of industrial, professional, trade and business services.

## General information

### Survey purpose

Statistics Canada conducts this survey to obtain detailed and accurate data on this industry, which is recognised as being an important contributor to the Canadian economy. Your responses are critically important to produce reliable statistics used by businesses, non-profit organizations and all levels of government to make informed decisions in many areas.

The information from this survey can be used by your business to benchmark your performance against an industry standard, to plan marketing strategies or to prepare business plans for investors. Governments use the data to develop national and regional economic policies and to develop programs to promote domestic and international competitiveness. The data are also used by trade associations, business analysts and investors to study the economic performance and characteristics of your industry.

### Data-sharing agreements

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

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

For this survey, there are **Section 11** agreements with the provincial and territorial statistical agencies of Newfoundland and Labrador, Nova Scotia, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, and the Yukon.

The shared data will be limited to business establishments located within the jurisdiction of the respective province or territory.

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

For this survey, there are **Section 12** agreements with the statistical agencies of Prince Edward Island, the Northwest Territories and Nunavut.

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

#### **Data Linkage**

To enhance the data from this survey, Statistics Canada may combine it with information from other surveys or from administrative sources.

**Please note that Statistics Canada does not share any individual survey information with the Canada Revenue Agency.**

For more information about these data-sharing agreements, please contact Statistics Canada at **1-888-881-3666** or visit our website at **[www.statcan.gc.ca](http://www.statcan.gc.ca)**.

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