



# Electricity and Useful Thermal Energy Production (Commercial and Institutional Consumption of Energy Survey, 2005)

**CONFIDENTIAL when completed**

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

*Français au verso*

Correct pre-printed information on label if necessary using the corresponding boxes below:

Institution name  
001

Number and street  
002

City  
003

Province  Postal code  
004  005

## The purpose of this survey

Statistics Canada, in partnership with Natural Resources Canada, is conducting this survey to collect detailed information on the energy demand and consumption patterns of Canadian businesses, organizations and institutions. This questionnaire collects data on the electricity production, steam generation and cogeneration activities of businesses, institutions and organizations across Canada. One of the principal goals of Natural Resources Canada is to continually improve energy efficiency in Canada through various measures. Improving energy efficiency reduces greenhouse gas emissions that contribute to climate change. Given the current energy situation, this survey will be used to assess how well Canada is fulfilling its commitment both to increasing energy efficiency and reducing greenhouse gas emissions.

## Your participation is important

This survey is conducted under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S19. Completion of this questionnaire is voluntary. However, your co-operation is essential to ensure the accuracy of the information collected.

## The data you report are confidential

Statistics Canada is prohibited by law from publishing or releasing any statistics which would divulge information obtained from this survey that relates to any identifiable business, organization or institution without the previous written consent of that business or institution. The data

reported on the questionnaire will be treated in strict confidence and used only for statistical purposes. The confidentiality provisions of the *Statistics Act* are not affected by either the *Access to Information Act* or any other legislation.

## Data sharing agreements

Statistics Canada has entered into a data sharing agreement under Section 12 of the *Statistics Act* with Natural Resources Canada for the sharing of information from this survey. The department will not be given your name, address or identifying information. They will keep the information confidential and use it only for statistical purposes. Under Section 12, you may refuse to share your information by writing to the Chief Statistician of Canada and returning your letter of objection along with your completed questionnaire.

## Completion and Return

Please complete and return within 20 days after receipt of this questionnaire. If you have any questions regarding this survey, or require assistance completing it, please call us toll-free:

**Small Business and  
Special Surveys Division**

Telephone (toll free): 1-866-888-0379

Please quote the nine digit reference number appearing on the address label.

## Please complete the following information

Name of Respondent 006

Title of Respondent 007

Telephone number 008 (  ) -  ext. 009

## CO-GENERATION

*Co-generation is defined as the simultaneous generation of electricity and useful thermal energy (e.g. steam) in one process and from the same fuel source. Types of co-generation units/systems include condensing steam turbines, combined cycle gas turbines, etc.*

**1. Does this business, organization or institution have a co-generation unit / system?**

- 010    1     **Yes**  
           3     **No**    → please go to question 4

**2. For all co-generation units/systems at your establishment, please complete the following table for the calendar year 2005, and indicate:**

- electrical and thermal capacity (as a total for all units)
- the amount of electricity and thermal energy produced (as a total for all units)
- the amounts of electricity and thermal energy that were either sold to another establishment or consumed by your establishment.

Co-generation Product	Unit of Measure	A	B	C	D
		Total Capacity	Total Amount Produced	Total Amount Sold to another establishment	Total Amount Consumed at your establishment (column B - column C)
Electricity	011 1 <input type="radio"/> KWh    2 <input type="radio"/> MWh    3 <input type="radio"/> GJ 4 <input type="radio"/> other (please specify) 012	013	014	015	016
Useful thermal energy (e.g. steam)	017 1 <input type="radio"/> KWh    2 <input type="radio"/> MWh    3 <input type="radio"/> GJ 4 <input type="radio"/> other (please specify) 018	019	020	021	022

**3. Please indicate the quantity and energy unit measure of each fuel used in your co-generation units/ systems in 2005 (as a total for all units in operation).**

Energy Form	Quantity	Energy Unit of Measure
Natural gas	023	024    1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify)    025
Propane	026	027    1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify)    028
Diesel	029	030    1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify)    031
Other middle distillates – light fuel oil, kerosene, etc.	032	033    1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify)    034
Heavy fuel oil	035	036    1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify)    037
Wood and wood by-products (e.g. hog fuel, wastewood, bark, pellets, etc.)	038	039    1 <input type="radio"/> tonnes (metric)    2 <input type="radio"/> lbs (pounds)    3 <input type="radio"/> cords 5 <input type="radio"/> other (please specify)    040
Other (please specify) 041	042	Please specify unit of measure 043

## ELECTRICITY PRODUCTION

4. Did your establishment produce electricity through a mechanism other than a co-generation unit/system, in 2005?

044 1  Yes

3  No → please go to question 7

5. For all electricity generation units (other than co-generation units) at your establishment, please complete the following table for the calendar year 2005, and indicate:

a. electrical capacity (as a total for all units)

b. the amount of electricity produced (as a total for all units)

c. the amounts of electricity that were sold or consumed by your establishment

Unit of Measure	A	B	C	D
	Total Electric Capacity	Total Electricity Produced	Total Electricity Sold to another establishment	Total Electricity Consumed at your establishment (column B - column C)
045 1 <input type="radio"/> KWh    2 <input type="radio"/> MWh    3 <input type="radio"/> GJ 4 <input type="radio"/> other (please specify) 046	047	048	049	050

**Electricity Generation Units (other than co-generation units)**

6. Please indicate the quantity and energy unit measure of each fuel used to produce electricity in 2005 (as a total for all electricity generation (other than co-generation) units at your establishment):

Energy Form	Quantity	Energy Unit of Measure
Natural gas	051	052 1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify) 053
Propane	054	055 1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify) 056
Diesel	057	058 1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify) 059
Other middle distillates – light fuel oil, kerosene, etc.	060	061 1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify) 062
Heavy fuel oil	063	064 1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify) 065
Wood and wood by-products (e.g. hog fuel, wastewood, bark, pellets, etc.)	066	067 1 <input type="radio"/> tonnes (metric)    2 <input type="radio"/> lbs (pounds)    3 <input type="radio"/> cords 5 <input type="radio"/> other (please specify) 068
Other (please specify) 069	070	Please specify unit of measure 071

## STEAM GENERATION

7. Did your establishment produce steam through a mechanism other than a co-generation unit/system, in 2005?

- 072    1  Yes  
       3  No    → please go to the end of the questionnaire.

8. For all steam production units (other than co-generation units) at your establishment, please complete the following table for the calendar year 2005, and indicate:

- a. thermal capacity (as a total for all units)
- b. the amount of steam produced (as a total for all units)
- c. the amounts of steam that were sold or consumed by your establishment

	A	B	C	D
	Total Thermal/Steam Capacity	Total Thermal/Steam Amount Produced	Total Thermal/Steam Sold to another establishment	Total Thermal/Steam Consumed at your establishment (column B - column C)
073 1 <input type="radio"/> KWh    2 <input type="radio"/> MWh    3 <input type="radio"/> GJ 4 <input type="radio"/> other (please specify) 074 <input style="width: 100%;" type="text"/>	075 <input style="width: 100%;" type="text"/>	076 <input style="width: 100%;" type="text"/>	077 <input style="width: 100%;" type="text"/>	078 <input style="width: 100%;" type="text"/>

9. Please indicate the quantity, including the energy unit measure, of each fuel used to produce steam at your establishment in 2005 (as a total for units other than co-generation units):

Energy Form	Quantity	Energy Unit of Measure
Natural gas	079 <input style="width: 100%;" type="text"/>	080    1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify) 081 <input style="width: 100%;" type="text"/>
Propane	082 <input style="width: 100%;" type="text"/>	083    1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify) 084 <input style="width: 100%;" type="text"/>
Diesel	085 <input style="width: 100%;" type="text"/>	086    1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify) 087 <input style="width: 100%;" type="text"/>
Other middle distillates – light fuel oil, kerosene, etc.	088 <input style="width: 100%;" type="text"/>	089    1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify) 090 <input style="width: 100%;" type="text"/>
Heavy fuel oil	091 <input style="width: 100%;" type="text"/>	092    1 <input type="radio"/> m <sup>3</sup> 2 <input type="radio"/> L    3 <input type="radio"/> ft <sup>3</sup> 4 <input type="radio"/> GJ 5 <input type="radio"/> other (please specify) 093 <input style="width: 100%;" type="text"/>
Wood and wood by-products (e.g. hog fuel, wastewood, bark, pellets, etc.)	094 <input style="width: 100%;" type="text"/>	095    1 <input type="radio"/> tonnes (metric)    2 <input type="radio"/> lbs (pounds)    3 <input type="radio"/> cords 5 <input type="radio"/> other (please specify) 096 <input style="width: 100%;" type="text"/>
Other (please specify) 097 <input style="width: 100%;" type="text"/>	098 <input style="width: 100%;" type="text"/>	Please specify unit of measure 099 <input style="width: 100%;" type="text"/>

