

Industrial Water Survey: Fossil-Fuel and Nuclear Electric Power Generating Plants, 2015

This document is confidential when completed.

Version française disponible

Please provide your e-mail address.

0009 E-mail address

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

0001 Legal name

0002 Business name

0021 C/O

0028 Last name of contact

0008 First name of contact

0004 Address

0005 City 0006 Province/Territory or State

0053 Country 0007 Postal code/Zip code

Please read before completing

Authority

This survey is conducted under the authority of the *Statistics Act*, Revised Statutes of Canada, 1985, Chapter S-19.

COMPLETION OF THIS QUESTIONNAIRE IS A LEGAL REQUIREMENT UNDER THE ACT.

Survey Purpose

This survey collects detailed information on water use in Canada by the manufacturing, mining and electrical power generating industries. The survey asks information on who uses water, how much, where and at what cost. These data will be used in the development of environmental accounts and indicators.

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

Confidentiality

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

Return of Questionnaire(s)

Please return the completed questionnaire(s) to Statistics Canada within 30 days of receipt by mail, using the enclosed envelope, or fax it to 1-888-883-7999. **If you are unable to do so, call 1-866-445-4323** (toll free) to inform us of the expected completion date. Lost the return envelope, need help to complete your questionnaire(s)? Call us at **1-866-445-4323** (toll free).

Fax or E-mail Transmission Disclosure

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

Data-sharing Agreements

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

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

Person primarily responsible for completing this questionnaire, if different from above:

0026 1 Mr. 2 Mrs. 3 Miss 4 Ms 5 Dr.

0054 Last name

0013 First name

0014 Title

0017 Telephone number 0027 Extension

0016 Fax number

0020 Website address

0018 E-mail address



REPORTING YEAR: JANUARY 1, 2015 TO DECEMBER 31, 2015

NOTE i) Water volumes are to be reported in the units in use at this facility; please **mark only one selection** and use this unit of measure throughout the questionnaire.

Line
1

C0101

1 cubic metres

2 other – specify

C0102

IMPORTANT

If reporting in multiples of a unit of measure, please take care to enter the correct decimal values or number of zeros. (i.e., if *other*, above, is specified as *thousands* of litres, note that a reported quantity of 3 = 3,000 (*3 thousand*) litres, whereas a reported quantity of 3,000 = 3,000,000 (*3 million*) litres).

If reporting in gallons, please specify Imperial or U.S. gallons.

ii) Where data are not available, please estimate.

SECTION 1: MONTHLY AND ANNUAL TOTAL WATER INTAKE AND DISCHARGE

INSTRUCTIONS

- (i) In this section, under intake, please report by month the quantity of “new water” brought into your operation for **all** power plant uses. For the purpose of this questionnaire “new water” is defined as water introduced for the first time into this facility **regardless of source or quality** (including sanitary/domestic water intake). It also includes water diverted from a natural resource into storage ponds or outside holding facilities for later use.
- (ii) Where you supply water to adjacent or tenant industry(ies) or municipality(ies), please report estimated water intake for your establishment only.
- (iii) Under discharge, please report the quantity of water routed to its ultimate point of discharge (including sanitary/domestic discharge).
- (iv) Under discharge **do not report** the volume of water released to ponds, lagoons or basins and intended for recirculation or reuse until such water is actually discharged to a location beyond the control of the facility.
- (v) Under discharge **do not include** any water lost in production through evaporation, permanently held in open or closed storage, or otherwise consumed (e.g. included in a final product).

Month	Volume per month	
	Intake	Discharge
2 January	C1001	C1101
3 February	C1002	C1102
4 March	C1003	C1103
5 April	C1004	C1104
6 May	C1005	C1105
7 June	C1006	C1106
8 July	C1007	C1107
9 August	C1008	C1108
10 September	C1009	C1109
11 October	C1010	C1110
12 November	C1011	C1111
13 December	C1012	C1112
14 ANNUAL TOTAL	C1013	C1113

15 If total discharge volume (C1113) is greater than total intake volume (C1013), please indicate reason:

C1201

SECTION 4: WATER INTAKE BY PURPOSE

INSTRUCTIONS

- (i) Report the amount of water within your facility by **initial** use. This section should not include recirculated water (for a definition of "recirculated water", see section 5).
- (ii) In Line 40 "Other uses" should not include water pumped by the facility, and intended for initial use outside the facility.

Where data are not available, please estimate.

Purpose		Volume per year
37	Cooling, condensing and steam - defined as water which does not come in direct contact with the products, materials or by-products of the processing operation. It includes pass-through water used in the operation of cooling or process equipment (including air conditioning) and water introduced into boilers for the production of steam for either process operations or electric power.	C4102
38	Pollution control (e.g. wet flue gas desulphurization, etc.)	C4106
39	Sanitary service/Domestic use - This is water used for toilets, janitorial services, lawn watering, washing of vehicles, etc.	C4103
	C4000	C4104
40	Other uses (<i>specify</i>)	C4105
41	Total (Lines 37 to 40 should equal sum of figures reported in Line 14, C1013)	
42	What were the estimated water losses (including evaporation and seepage):	C4201
	(i) in cooling cycle?	C4202
	(ii) pollution control (e.g.wet flue gas desulphurization, etc.)?	C4203
	(iii) in ash control system (include evaporation losses from ponds)?	C4204
43	What was the amount of boiler make-up water required for power generation purpose (excluding production for steam sales or transfer)?	
44	Is there a water-cooled condenser in your plant?	C4205 1 <input type="radio"/> Yes 3 <input type="radio"/> No
	↓	
45	If yes, what was the actual temperature rise of the cooling water in your condenser cooling cycle?	C4206
	Minimum	C4207
	Maximum	
46	Please indicate the type of cooling system employed in your establishment:	C4208
	(i) Once-through	1 <input type="radio"/> Yes 3 <input type="radio"/> No
	(ii) Cooling ponds	C4213 1 <input type="radio"/> Yes 3 <input type="radio"/> No
	(iii) Cooling tower	C4214 1 <input type="radio"/> Yes 3 <input type="radio"/> No
	(iv) Other methods	C4211 1 <input type="radio"/> Yes 3 <input type="radio"/> No
47	Did this plant produce steam for purposes other than electric power generation (i.e. heating, process or for sale)?	C4212 1 <input type="radio"/> Yes 3 <input type="radio"/> No

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Temperature	
	°C
	°C

Comments

Approximately how long did it take to collect the data and complete this survey?

C9910

Hour(s)

C9909

Minutes

We invite your comments or suggestions on the following or any other topic related to the *Industrial Water Survey*. We appreciate your assistance.

- Questionnaire content
- New questions of interest to your industry
- Clarity of questions
- Order and flow of questions
- Timing of receipt of questionnaire and the period given for response
- Alternative sources of information to further reduce response burden

C9920

C9913

C9914

C9915

C9916

C9917

C9918

C9919

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General Information

Confidentiality

Your answers are confidential.

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

Data-sharing agreements

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

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

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

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

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

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

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

Record linkages

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

If you have questions, please contact us.

Telephone (toll free): 1-866-445-4323

Fax: 1-888-883-7999 (within Canada)

Please return this questionnaire in the envelope provided.
THANK YOU FOR YOUR PARTICIPATION IN THIS SURVEY!