

Section 2: Electricity

Questions 5 and 6:

Total Purchased Electricity

- 5.** Enter the total quantity of electricity purchased from all sources by this establishment and delivered to this establishment site during 1998.

Census
use only
10061

Kilowatthours

- 6.** Enter total expenditures, including all applicable taxes and any delivery, management, transportation, and demand charges, for the purchased electricity reported in question 5.

10062

U.S. Dollars

Include all expenditures regardless of when payment was actually made.

Questions 7 through 9:

Electricity Purchased from Local Utility

- 7.** During 1998, did this establishment purchase any electricity from your local utility?

10011

1 Yes Go to question 8
2 No Go to question 10

By local utility, we mean the company in your local area that produces and/or delivers electricity and is legally obligated to provide service to the general public within its franchise area.

Exclude electricity purchased from companies such as independent power producers, small power producers, brokers, marketers, marketing subsidiaries of utilities, or cogenerators not located at this establishment site.

- 8.** Enter the quantity of electricity purchased from your local utility by this establishment and delivered to this establishment site during 1998.

Exclude quantities: 1) purchased centrally within your company, but outside of this establishment, 2) delivered from other establishments of your company, 3) for which payment was made in-kind, or 4) purchased from independent power producers, small power producers, brokers, marketers, marketing subsidiaries of utilities, or cogenerators not located at this establishment site.

10010

Kilowatthours

Note: the sum of the quantities reported in questions 8 and 11 should equal the quantity reported in question 5.

- 9.** Enter the total expenditures, including all applicable taxes and any delivery, management, transportation, and demand charges, for the purchased electricity reported in question 8.

10020

U.S. Dollars

Include all expenditures regardless of when payment was actually made.

Note: the sum of the expenditures reported in questions 9 and 12 should equal the total expenditures reported in question 6.

Continue to next page

Section 2: Electricity, cont.

Questions 10 through 12:

Electricity Purchased from Sources Other than Local Utilities Census use only

- 10.** During 1998, did this establishment purchase any electricity from sources other than the local utility?

10031

1 Yes Go to question 11
2 No Go to question 13

Sources other than local utilities include generators of electricity such as independent power producers, small power producers, brokers, marketers, marketing subsidiaries of utilities, or cogenerators not located at this establishment site.

- 11.** Enter the total quantity of electricity purchased from sources other than your local utility by this establishment and delivered to this establishment site during 1998.

10030

Kilowatthours

Include purchases from offsite nonutility power producers for any onsite use, e.g., production of heat and power, lighting or space conditioning, or electrolysis.

Note: the sum of the quantities reported in questions 8 and 11 should equal the quantity reported in question 5.

- 12.** Enter the total expenditures, including all applicable taxes and any delivery, management, transportation, and demand charges, for the purchased electricity reported in question 11.

10040

U.S. Dollars

Include all expenditures regardless of when payment was actually made.

Note: the sum of the expenditures reported in questions 9 and 12 should equal the total expenditures reported in question 6.

Question 13:

Electricity Transfers

- 13.** Enter the quantity of electricity transferred from outside establishments in your company and delivered to this establishment site during 1998.

10050

Kilowatthours

Include quantities: 1) delivered from any other establishment(s) in your company, 2) transferred from other establishments of your company for which payment was not made, 3) purchased centrally within your company, separate from this establishment, or 4) for which payment was made in-kind.

Exclude the purchases reported in questions 8 and 11.

- 14.** Total Quantities of Electricity Received Onsite:
< Enter the sum of the quantities reported in questions 5 and 13.

10060

Kilowatthours
Sum of questions 5 and 13

Continue to next page

Section 2: Electricity, cont.

Questions 15 through 18:

Electricity Generated Onsite

- 15.** Enter the quantity of electricity generated onsite by cogeneration at this establishment during 1998.

Cogeneration is the production of electric energy and another form of useful energy (such as heat or steam) through the sequential use of energy.

Include all cogeneration facilities at this establishment site.

Census
use only

10070

Kilowatthours

- 16.** Enter the quantity of electricity generated onsite during 1998 from each of the following:

a. Solar Power

10081 a.

Kilowatthours

b. Wind Power

10082 b.

Kilowatthours

c. Hydropower

10083 c.

Kilowatthours

d. Geothermal Power

10084 d.

Kilowatthours

Exclude any electricity produced as part of a cogeneration process, that is, electricity generated from geothermal steam before the steam itself is used. (This should be reported in question 15.)

- 17.** Enter the quantity of electricity generated onsite during 1998 by processes other than those reported in questions 15 and 16.

For example, electricity generated by diesel generators should be reported here.

10090

Kilowatthours

- 18.** Total Onsite Generation of Electricity:

< Enter the sum of the quantities reported in questions 15, 16, and 17.

10100

Kilowatthours

Sum of questions 15, 16 and 17

Continue to next page

Section 2: Electricity, cont.

Questions 19 through 21:

Electricity Sales and Transfers Offsite

Census
use only

- 19.** Enter the quantity of electricity sold or transferred to utilities during 1998.

10110

Kilowatthours

Include quantities exchanged for the same or any other energy source(s).

Exclude sales to independent power producers, small power producers, or cogenerators not located at this establishment.

- 20.** Enter the quantity of electricity sold or transferred to any establishments other than utilities during 1998.

10120

Kilowatthours

Include 1) sales to independent power producers, small power producers, brokers, marketers, marketing subsidiaries of utilities, or cogenerators not located at this establishment, and 2) quantities exchanged for the same or any other energy source(s).

- 21.** Total Electricity Sales and Transfers Offsite:
< Enter the sum of the quantities reported in questions 19 and 20.

10130

Kilowatthours

Sum of questions 19 and 20

Question 22:

Total Onsite Consumption of Electricity

- 22.** < Enter the sum of the quantities reported in questions 14 and 18 minus the quantity reported in question 21.

10140

Kilowatthours

**Copy this quantity to question 165,
column 1, page 40.**

P Copy this quantity to question 165, column 1, page 40.

- 23.** Is electricity the **ONLY** energy source used in this establishment for any fuel or nonfuel use?

10149

<p>1 9 Yes ^o Go to Section 17, page 40.</p> <p>2 9 No ^o Go to Section 3, next page.</p>

Go to question 24, Section 3, next page

Section 3: Steam and Industrial Hot Water

24. Report quantities in millions of British thermal units (Btu).

If you keep your records for steam in pounds, use a factor of 1,200 Btu per pound of steam to convert your data into Btu. Industrial hot water should be reported at 140 Btu per pound and 7.84 pounds per gallon.

If you have more accurate Btu conversion factors for your establishment, use them instead of the more general factors given in the Btu Conversion Factor Table on page 4 and indicate the factor(s) used in Section 22: Remarks, page 55.

Answer all appropriate questions for steam, before answering the questions for industrial hot water.

	Census use only	11 Steam —	12 Industrial Hot Water —
<p>25. Was this energy source (column) either purchased or consumed in this establishment during 1998?</p> <p>If neither source is used, go to question 34, Section 4, page 12.</p>	000	<p>1 9 Yes <input type="radio"/> Go to question 26</p> <p>2 9 No <input type="radio"/> Go to next column</p>	<p>1 9 Yes <input type="radio"/> Go to question 26</p> <p>2 9 No <input type="radio"/> Go to Section 4, page 12</p>
<p>26. Enter the quantity purchased from utilities by this establishment and delivered to this establishment site during 1998.</p>	010	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p style="text-align: center; font-size: small;">Million Btu</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p style="text-align: center; font-size: small;">Million Btu</p>
<p>27. Enter the total expenditures, including all applicable taxes, demand, and delivery charges, for the quantity reported in question 26.</p> <p>Include all expenditures regardless of when payment was actually made.</p>	020	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px; display: flex; align-items: center;"> \$ </div> <p style="text-align: center; font-size: small;">U.S. Dollars</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px; display: flex; align-items: center;"> \$ </div> <p style="text-align: center; font-size: small;">U.S. Dollars</p>
<p>28. Enter the quantity of steam that was purchased from sources other than utilities by this establishment and delivered to this establishment site during 1998.</p>	030	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p style="text-align: center; font-size: small;">Million Btu</p>	
<p>29. Enter the total expenditures, including all applicable taxes, demand, and delivery charges, for the purchased steam reported in question 28.</p>	040	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px; display: flex; align-items: center;"> \$ </div> <p style="text-align: center; font-size: small;">U.S. Dollars</p>	

Continue to next page

Section 3: Steam and Industrial Hot Water, cont.

	Census use only	11 Steam —	12 Industrial Hot Water —
30. Enter the total quantity transferred from outside establishments and delivered to this establishment site during 1998.	050	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
		Million Btu	Million Btu

Include quantities: 1) delivered from any other establishment(s) in your company, 2) transferred from other establishments of your company for which payment was not made, 3) purchased centrally within your company, separate from this establishment, or 4) for which payment was made in-kind.

Exclude the purchases reported in questions 26 and 28.

31. Enter the quantity of the energy source generated onsite during 1998, from each of the following:			
a. Solar Power	081 a.	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
		Million Btu	Million Btu
b. Wind Power	082 b.	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
		Million Btu	Million Btu
c. Hydropower	083 c.	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
		Million Btu	Million Btu
d. Geothermal Power	084 d.	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
		Million Btu	Million Btu

32. Enter the total quantity of the energy source sold or transferred to other establishments during 1998.	120	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
		Million Btu	Million Btu

Go to question 25, next column

Go to Section 4, next page.

33. < Answer questions 25 through 32 for both energy sources (columns).

< Then go to question 34, Section 4, next page.

Section 4: Natural Gas

34. Was natural gas either purchased or consumed in this establishment during 1998?

Natural gas refers to natural gas delivered to your establishment through a pipeline.

Excluded as natural gas are any bottled gases such as liquefied petroleum gas (LPG) or propane, which are reported in Sections 5 and 6 of this questionnaire.

Questions 35 through 40:

Total Natural Gas

35. Enter the total quantity of natural gas consumed as a fuel for the production of heat, steam, power, or generation of electricity onsite at this establishment in 1998.

Include all process uses such as process heating, process cooling, and machine drive and all nonprocess uses such as facility heating, ventilation and air conditioning.

Include natural gas consumed by vehicles intended primarily for use onsite, e.g., forklifts, intra-plant shuttles, loaders and other materials-handling equipment operated solely within the boundaries of the establishment site.

P Copy this quantity to question 165, column 2, page 40.

36. Enter the total quantity of natural gas consumed for any purpose other than fuel use in this establishment in 1998.

Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment.

Exclude all offsite dispositions such as sales and transfers to other establishments.

37. Enter the total quantity of natural gas purchased from all sources by this establishment for any use in 1998.

Include quantities that were purchased for any onsite use, e.g., process heating or cooling, building heating or cooling, machine drive, or as raw material input to any manufacturing operation (feedstock).

Exclude quantities: 1) purchased centrally within your company, 2) delivered from other establishments of your company, or 3) for which payment was made in-kind.

38. Enter total expenditures, including all applicable taxes, delivery, transportation, management, storage and demand charges, for the purchased natural gas reported in question 37.

Include all expenditures regardless of when payment was made.

Census
use only

30000

1 **9** Yes ^o Go to question 35

2 **9** No ^o Go to Section 5,
page 15

30060

1,000 cubic feet (mcf)

**Copy to question 165,
column 2, page 40**

30070

1,000 cubic feet (mcf)

30010

1,000 cubic feet (mcf)

30020

\$

U.S. Dollars

Continue to next page

Section 4: Natural Gas, cont.

- 39.** Enter total quantity of transfers in and central purchases received of natural gas in this establishment in 1998 not included in quantity reported in question 37.

Census
use only
30030

1,000 cubic feet (mcf)

Include quantities: 1) delivered from any other establishment(s) in your company, 2) transferred from other establishments of your company for which payment was not made, 3) purchased centrally within your company, separate from this establishment, or 4) for which payment was made in-kind.

- 40.** Enter the quantity of natural gas that was both produced onsite in 1998 as output from a captive (onsite) well, and was at least partially consumed onsite (as a fuel or nonfuel).

30040

1,000 cubic feet (mcf)

Questions 41 through 43:

Natural Gas Purchased from Local Utility

- 41.** During 1998, did this establishment purchase natural gas from your local utility?

31011

1 Yes ^o Go to question 42

2 No ^o Go to question 44,
next page

Local natural gas utilities produce and/or deliver natural gas and are legally obligated to provide service to the general public within their franchise area.

Exclude gas purchased from companies such as independent gas producers, gas brokers, marketers, and any marketing subsidiaries of utilities.

Answer "yes" if this establishment purchases natural gas from the local utility.

Answer "no" if this establishment does not purchase any natural gas from the local utility or if only fees to transport natural gas bought from others are paid to the local utility.

- 42.** Enter the total quantity of natural gas purchased from your local utility during 1998.

31010

1,000 cubic feet (mcf)

Exclude quantities: 1) purchased centrally within your company, 2) delivered from other establishments of your company, or 3) for which payment was made in-kind.

Note: The sum of the quantities reported in questions 42 and 45 should equal the total reported in question 37.

- 43.** Enter total expenditures, including all applicable taxes, delivery, transportation, management, storage and demand charges, for the purchased natural gas reported in question 42.

31020

U.S. Dollars

Include all expenditures regardless of when payment was made.

Note: The sum of the expenditures reported in questions 43 and 46 should equal the total expenditures reported in question 38.

Continue to next page

Section 4: Natural Gas, cont.

Questions 44 through 46:

Natural Gas Purchased from Sources Other than Local Utility

- 44.** During 1998, did this establishment purchase natural gas from sources other than your local utility?

Census
use only
51011

Sources other than your local utility include producers, brokers, marketers, and any marketing subsidiaries of utilities.

1 **9** Yes Go to question 45

2 **9** No Go to Section 5,
next page

- 45.** Enter the total quantity of natural gas purchased from sources other than your local utility during 1998.

51010

Note: The sum of the quantities reported in questions 42 and 45 should equal the total reported in question 37.

1,000 cubic feet (mcf)

- 46.** Enter total expenditures, including all applicable taxes, delivery, transportation, management, storage and demand charges, for the purchased natural gas reported in question 45.

51020

\$

U.S. Dollars

Some of these charges listed above may be found on the bill from your local utility. Include all expenditures regardless of when payment was made.

Note: The sum of the expenditures reported in questions 43 and 46 should equal the total expenditures reported in question 38.

Go to question 47, Section 5, next page