

2014 Manufacturing Energy Consumption Survey

Sponsored by the Energy Information Administration
U.S. Department of Energy

Administered and Compiled by the Bureau of the Census
U.S. Department of Commerce

Form **EIA-846**
(mm-dd-yy)

OMB Approval
No. xxxx-xxxx

Expires: mm/dd/yyyy

Report

Electronically:
[www.census.gov/
econhelp/mecs](http://www.census.gov/econhelp/mecs)

Username:

Password:

Reporting electronically allows you to save your work as you go through the form and could save you time

If you need additional time or have questions about what to report on this questionnaire, please call our processing office at 1-800-528-3049. Return the completed questionnaire in the enclosed envelope. If the envelope has been misplaced, please mail to:

**Bureau Of The Census
1201 East 10th Street
Jeffersonville, IN 47132-0001**

Reporting Requirement: This survey is **mandatory** under the Federal Energy Administrative Act of 1974, Pub. Law No. 93-275, and under Title 3, Subtitle B, of the Omnibus Budget Reconciliation Act of 1986, Pub. Law No. 99-509, as amended by Title 1, Subtitle G, of the Energy Policy Act of 1992, Pub. Law No. 102-486.

Title 18 U.S.C. 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction. Public reporting burden for this collection of information is estimated to average 9.2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data, and completing and reviewing the collection of information.

Per the Paperwork Reduction Act of 1995, you are not required to respond to any Federally sponsored collection of information unless it displays a valid OMB Approval Number. The valid OMB Approval Number for this information collection (xxxx-xxxx) is displayed at the top left of this page.

Instructions and Frequently Asked Questions can be found at www.census.gov/econhelp/mecs.

Contact Information

Date (mm-dd-yyyy)

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Area Code

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Telephone

Number

Ext.

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Name of person to contact regarding this questionnaire

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Title of contact person (above)

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Address (number and street)

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City

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State

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Zip Code

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Zip + 4

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E-mail address

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Instructions for Completing Form EIA-846

General Instructions:

1. Individuals most familiar with the plant energy systems and operations, such as engineers, should complete the questionnaire especially for the end use and fuel switching sections.
2. Use the units specified on the questionnaire for reporting all quantities. See the Btu conversion factors on page 6 for a comprehensive list of various energy conversion factors. If your establishment uses more precise conversion values for your operations, use them, and indicate in the "Remarks" at the end of the form, the conversion factor(s) used.
3. Do **not** consolidate establishments. The reporting boundaries for your establishment should correspond to those used in the Economic Census - Manufacturing (EC-M).
 - To resolve any consolidation problems, match the 10-digit identification number, which is located on the Manufacturing Energy Consumption Survey (MECS) questionnaire mailing label, with the first 10-digits of the identification number appearing on the EC-M mailing label.
 - Responses to the MECS questions should be the same activities as those considered when responding to the matching EC-M.
4. Report dollar amounts rounded to the nearest dollar (e.g., report \$1,257.59 as \$1,258).
5. If you do not maintain book records for particular items, please use carefully prepared estimates.
6. Enter zeros in the data columns if the value is zero or none.
7. Complete all applicable sections of the questionnaire.
8. The sections of this questionnaire are designed so all questions associated with the particular energy source should be completed before going on to the next energy source. Therefore, within each section, the questionnaire should be answered from the top to the bottom of the same column, before moving on to the next energy source (column).
9. The energy sources that are preprinted on the questionnaire are considered the most frequently consumed, but they do not represent a complete list of applicable energy sources. If your establishment has energy sources that meet the criteria for reporting, but are not preprinted on the questionnaire, please specify those energy sources in the "Other Energy Sources" section and enter the data there.

Section-Specific Instructions:

Company Information

In this section, indicate any changes in the company name, address, or zip code.

Contact Information

Enter address and other contact information for the person most knowledgeable about completing this questionnaire, and the person whom we should contact if we have any questions concerning this filing.

Establishment Information

In this section, indicate any changes in the establishment ownership during 2014 and indicate the period covered by this filing, whether the calendar year or other period.

Instructions for Completing Form EIA-846, cont.

Energy Sources (Fuels)

Reporting Criteria

An energy source (fuel) should be reported on this questionnaire if:

- the energy source was consumed as a fuel, (that is, for heat, power, or electricity generation); **or**
- the energy source was consumed as a nonfuel (feedstock, raw material input); **or**
- for selected energy sources, the energy source was shipped offsite from this establishment. The energy sources for which you will be asked to supply shipments data are:
 - LPG
 - Coal coke
 - Petroleum coke
 - Breeze
 - Coke oven gas
 - Blast furnace gas
 - Acetylene
 - Hydrogen
 - Diesel or distillate fuel oil; and
 - Residual fuel oil.

If your only means of an energy source during 2014 was a byproduct (or product) of an energy source used as a feedstock (or raw material input) that byproduct energy source should be reported only if it was at least partially consumed onsite as a fuel or shipped offsite. If the byproduct (or product) energy source was only itself consumed as a nonfuel (feedstock), it should be excluded.

Estimated end-use percent consumption is also collected for selected energy sources. These questions are intended to provide information on the purposes for which the energy are used in the manufacturing sector. More specific instructions for completing these parts are included in the questionnaire.

Data are collected for the following energy sources (fuels):

Electricity

Natural Gas

Diesel Fuel Oil (excluding off-site highway use)

Distillate Fuel Oil (e.g., Numbers 1, 2, 4)

Residual Fuel Oil (e.g., Numbers 5, 6, Navy Special, Bunker C)

Liquefied Petroleum Gases (LPG) and Natural Gas Liquids (NGL)

- Butane
- Ethane
- Propane
- Mixtures of Butane, Ethane, and Propane
- Other LPG and NGL which includes butylenes, ethylene, and propylene

Coal

- Anthracite
- Bituminous and subbituminous
- Lignite

Breeze

Coal Coke

Petroleum Coke

- Marketable Petroleum Coke - Unrefined or green
- Marketable Petroleum Coke - Calcined

Instructions for Completing Form EIA-846, cont.

Kerosene
Motor Gasoline (excluding off-site highway use)
Acetylene
Hydrogen
Wood harvested directly from trees
Byproduct Energy Source

- Blast Furnace Gas
- Coke Oven Gas
- Waste Oils and Tars (excluding Coal Tar)
- Waste and Byproduct Gases (e.g., flue gas, off gas, plant gas, refinery gas, still gas, vent gas)
- Pulping and Black Liquor
- Agricultural Waste (e.g., bagasse, nut shells, orchard prunings, rice hulls)
- Wood Residues and Byproducts from mill processing (e.g., sawdust, shaving, slabs, bark)
- Wood/Paper-related Refuse (e.g., scrap, wastepaper, wood pallets, packing materials)

Steam (excluding steam generated in an onsite boiler from CHP or other fossil fuel, wood, or combustible source)
Industrial Hot Water
Other Energy Source

Energy Sources Reporting Examples

Example 1 – Your establishment depended entirely on electricity for heat and power, and no combustible energy sources were consumed. In this instance, complete the "Electricity" section. No data should be entered in any other energy source (fuel) section. Go to the "Fuel-Switching Capability" section and complete the remainder of the questionnaire.

Example 2 – Butane is used as a feedstock to produce butylenes onsite. The butylene is then used as a feedstock to produce butadiene which is shipped offsite. Report the butane used as a feedstock because it is not used as a fuel or shipped offsite. Butylene would not be reported because its only means of supply was as a byproduct and it was only used as a feedstock. Butadiene would not be reported as a shipment because it is not an identified energy source.

Fuel-Switching Capability

These questions are intended to measure the short-term capability of your establishment to use substitute energy sources in place of those actually consumed in 2014. These substitutions are limited to those that could actually have been introduced within 30 days without extensive modifications. More specific instructions for completing this section are included in the questionnaire.

Energy-Management Activities

In this section, indicate whether your establishment participated in the listed energy-management activities during 2014 and the source(s) of the financial support to implement the energy-management activity.

Technologies

Indicate any of the technologies present in this establishment. Listed technologies include general technologies which may be found in any manufacturing establishment and technologies related to cogeneration.

Establishment Size

This section asks for the number of buildings and total square footage associated with this establishment. See specific instructions in this section for the definition of what should be counted as a building.

Remarks

Please provide any explanations that may be helpful to us in understanding your reported data, including any Btu conversion factors used, if different from those provided in the enclosed table.

Conversion Factors Table

To the right are Btu conversion factors that should be used only if you do not know the actual Btu factor of the fuels consumed at your establishment site.

If your establishment uses more precise conversion values for your operations, use them in place of the approximations given below. However, please identify in the Remarks, the conversion factor(s) used, if different from those listed to the right.

General Definitions:

Btu = British thermal unit(s)
 One barrel = 42 gallons
 One short ton = 2,000 pounds

Examples of conversion from physical quantities to Btu include:

- Your establishment consumed 250 cubic feet of hydrogen in 2014.

The Btu equivalent is:
 (250 cubic feet) x (325.11 Btu/cubic foot)

$$= 81,277.5 \text{ Btu}$$

$$= 0.0813 \text{ million Btu}$$

- Your establishment consumed 300 pounds of hydrogen in 2014.

The Btu equivalent is:
 (300 pounds) x (61,084 Btu/pound)

$$= 18,325,200 \text{ Btu}$$

$$= 18.325 \text{ million Btu}$$

Energy Source	Conversion Factor(s)
Acetylene	21,600 Btu/pound 1,500 Btu/cubic feet
Bagasse	4,081 Btu/pound
Biomass	5,300 Btu/pound
Breeze	19.8 million Btu/short ton
Butane	4.326 million Btu/barrel 0.10300 million Btu/gallon
Coal	22.489 million Btu/short ton
Coal (use for coke plants only)	27.426 million Btu/short ton
Coal Coke	24.8 million Btu/short ton
Distillate Fuel Oil	5.825 million Btu/barrel
Electricity	3,412 Btu/kilowatthour
Ethane	3.082 million Btu/barrel 0.07338 million Btu/gallon
Hydrogen	61,084 Btu/pound 325.11 Btu/cubic feet 35,600 Btu/gallon
Industrial Hot Water	140 Btu/pound 7.84 pounds/gallon
Isobutane	3.974 million Btu/barrel 0.09462 million Btu/gallon
Liquefied Petroleum Gas (LPG)	3.616 million Btu/barrel 0.08610 million Btu/gallon 4.5 pounds/gallon
Natural Gas	1.027 million Btu/1,000 cubic feet 10.27 therms/1,000 cubic feet
Petroleum Coke	6.024 million Btu/barrel 30.12 million Btu/short ton 5 barrels/short ton
Propane	3.836 million Btu/barrel 0.09133 million Btu/gallon
Pulping and/or Black Liquor	11 million Btu/short ton
Residual Fuel Oil	6.287 million Btu/barrel
Roundwood	21.5 million Btu/cord 17.2 million Btu/short ton 0.014 million Btu/board foot
Sawdust (7% moisture)	8,000 Btu/pound
Steam	1,200 Btu/pound
Still, Refinery, and/or Waste Gas	6 million Btu/barrel 1,029 Btu/cubic feet
Waste Materials (Wastepaper)	7,500 Btu/pound
Waste Oils and Tars	6 million Btu/barrel
(Green) Wood Chips (50% moisture)	10 million Btu/short ton
Wood Waste (50% moisture)	9 million Btu/short ton

Establishment Information

<p>1. Did ownership of this establishment change during 2014?</p>	<p>"Census Use Only"</p> <p>00011</p>	<p><input type="checkbox"/> 1. No</p> <p><input type="checkbox"/> 2. Yes: Establishment was sold during the year. <i>Complete all sections of this questionnaire for activities that occurred in 2014 prior to the sale.</i></p> <p><input type="checkbox"/> 3. Yes: Establishment was bought during the year. <i>Complete all sections of this questionnaire for activities that occurred in 2014 after the sale.</i></p>
<p>2. What best describes this establishment at the end of 2014?</p>	<p>00010</p>	<p><input type="checkbox"/> 1. In operation: Skip to question 6.</p> <p><input type="checkbox"/> 2. Ceased operation: Answer question 3 then skip to question 6.</p> <p><input type="checkbox"/> 3. Sold or leased to another operator: Skip to question 4.</p>
<p>3. Enter the date in which your establishment ceased operation.</p>	<p>00013</p>	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> <p>Enter Date (mm-dd-yyyy)</p>
<p>4. Enter the date in which your establishment was either sold or leased to another operator.</p>	<p>00014</p>	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> <p>Enter Date (mm-dd-yyyy)</p>
<p>5. Enter the following information only if this establishment was sold or leased to another operator during 2014.</p> <p style="text-align: center;">Name of new owner or operator</p> <p>00015 <input style="width: 700px; height: 25px;" type="text"/></p> <p style="text-align: center;">Address City</p> <p>00017 <input style="width: 350px; height: 25px;" type="text"/> 00018 <input style="width: 250px; height: 25px;" type="text"/></p> <p style="text-align: center;">State Zip Code Zip + 4 Employer Identification Number</p> <p>00019 <input style="width: 40px; height: 25px;" type="text"/> 00020 <input style="width: 100px; height: 25px;" type="text"/> 00021 <input style="width: 80px; height: 25px;" type="text"/> 00016 <input style="width: 200px; height: 25px;" type="text"/></p>		
<p>6. Enter the reporting period for the information reported on this questionnaire. Unless there are special circumstances like those reported above, this reporting period should be from January 1, 2014 to December 31, 2014.</p>	<p>00022</p>	<p>From: <input style="width: 150px; height: 25px;" type="text"/></p> <p style="text-align: center;">(mm-dd-yyyy)</p>
	<p>00023</p>	<p>To: <input style="width: 150px; height: 25px;" type="text"/></p> <p style="text-align: center;">(mm-dd-yyyy)</p>

Electricity: Total Purchased

7. Enter the total quantity of electricity purchased by and delivered to this establishment during 2014, regardless of when payment was made.	"Census Use Only" 10061	<div style="border: 1px solid black; height: 25px; width: 100%; margin-bottom: 5px;"></div> <p style="text-align: center;">Kilowatthours</p>								
8. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the purchased electricity reported in question 7.	10062	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;">\$Bil.</td> <td style="text-align: center; border-bottom: 1px solid black;">Mil.</td> <td style="text-align: center; border-bottom: 1px solid black;">Thou.</td> <td style="text-align: center; border-bottom: 1px solid black;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> </tr> </table> <p style="text-align: center;">U.S. Dollars</p>	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.							

Electricity: Source of Purchase

9. During 2014, where did this establishment's purchased electricity come from? <p>Local utility: 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.</p> <p>Non-utility: includes generators of electricity such as independent power producers or small power producers. It also includes brokers, marketers, marketing subsidiaries of utilities, or cogenerators not owned by your company.</p>	10015	<input type="checkbox"/> 1. All local utility: Answer question 10 then skip to question 13. <input type="checkbox"/> 2. All non-utility: Answer question 10 then skip to question 13. <input type="checkbox"/> 3. Both								
10. Please specify the utility/non-utility provider from whom you purchased your electricity: If this establishment purchases from more than one provider, please provide the largest provider.										
10016 <div style="border: 1px solid black; width: 400px; height: 25px; display: inline-block;"></div>										
11. Enter the quantity of your total purchased electricity that was purchased from a local utility during 2014.	10010	<div style="border: 1px solid black; height: 25px; width: 100%; margin-bottom: 5px;"></div> <p style="text-align: center;">Kilowatthours</p>								
12. Enter the total expenditures of your purchased electricity that was paid to a local utility.	10020	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;">\$Bil.</td> <td style="text-align: center; border-bottom: 1px solid black;">Mil.</td> <td style="text-align: center; border-bottom: 1px solid black;">Thou.</td> <td style="text-align: center; border-bottom: 1px solid black;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> </tr> </table> <p style="text-align: center;">U.S. Dollars</p>	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.							

Electricity: Transfers In

13. Enter the total quantity of electricity transferred in or otherwise received on-site without a direct open market purchase. <p>Include quantities:</p> <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	10050	<div style="border: 1px solid black; height: 25px; width: 100%; margin-bottom: 5px;"></div> <p style="text-align: center;">Kilowatthours</p>
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Electricity: Generated On-Site

	"Census Use Only"	
14. Enter the quantity of electricity generated on-site from each of the following: <ul style="list-style-type: none"> • Combined Heat and Power (CHP)/Cogeneration <i>Cogeneration is the production of electric energy and another form of useful energy (such as heat or steam) through the sequential use of energy.</i> 	10070	Kilowatthours <input style="width: 100%; height: 20px;" type="text"/>
<ul style="list-style-type: none"> • Solar Power 	10081	<input style="width: 100%; height: 20px;" type="text"/>
<ul style="list-style-type: none"> • Wind Power 	10082	<input style="width: 100%; height: 20px;" type="text"/>
<ul style="list-style-type: none"> • Hydropower 	10083	<input style="width: 100%; height: 20px;" type="text"/>
<ul style="list-style-type: none"> • Geothermal Power 	10084	<input style="width: 100%; height: 20px;" type="text"/>
<ul style="list-style-type: none"> • Other (for example, electricity generated by diesel generators) 	10090	<input style="width: 100%; height: 20px;" type="text"/>

Electricity: Sales and Transfers Offsite

15. Enter the quantity of electricity sold or transferred out of this establishment to utilities during 2014. Include quantities exchanged for the same or any other energy source. Exclude sales to independent power producers, small power producers, or cogenerators not located at this establishment.	10110	<input style="width: 100%; height: 20px;" type="text"/> Kilowatthours
16. Enter the quantity of electricity sold or transferred out of this establishment to any non-utilities during 2014. Include: <ul style="list-style-type: none"> • Sales to independent power producers, small power producers, brokers, marketers, marketing subsidiaries of utilities, or cogenerators not located at this establishment. • Quantities exchanged for the same or any other energy source. 	10120	<input style="width: 100%; height: 20px;" type="text"/> Kilowatthours

Electricity: Estimated End-Use Percent Consumption

The following questions refer to how this establishment consumed the electricity that was previously reported (please enter as a percentage of total consumption for each end use performed). A plant engineer or someone who is familiar with energy flows at this establishment should report this data.

Total Consumption = Question 7 [Purchases] + Question 13 [Transfers] + Question 14 [Generated] - (Question 15 + 16) [Sales and Transfers Offsite]

17. Enter the percentage of total electricity that this establishment consumed for the following:

Indirect Uses – Boilers: indirect use is the transformation of energy to another usable energy source, as in a boiler, gas turbine, or combustion turbine.

	"Census Use Only"	Electricity
<ul style="list-style-type: none"> Boiler fuel (includes fuels used for thermal outputs) 	10705	<input type="text"/> %

Direct Uses – Process: direct process use includes usage in motors, ovens, kilns, and strip heaters.

<ul style="list-style-type: none"> Process heating (e.g., kilns, furnaces, ovens, strip heaters) 	10720	<input type="text"/> %
<ul style="list-style-type: none"> Process cooling and refrigeration 	10730	<input type="text"/> %
<ul style="list-style-type: none"> Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment) 	10740	<input type="text"/> %
<ul style="list-style-type: none"> Electrochemical processes (e.g., reduction process) 	10750	<input type="text"/> %
<ul style="list-style-type: none"> Other direct process use: Please specify: <input type="text"/> 10761 	10760	<input type="text"/> %

Direct Uses – Non-process: direct non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).

<ul style="list-style-type: none"> Facility heating, ventilation, and air conditioning 	10770	<input type="text"/> %
<ul style="list-style-type: none"> Facility lighting 	10780	<input type="text"/> %
<ul style="list-style-type: none"> Facility support other than that reported above (e.g., cooking, water heating, office equipment) 	10790	<input type="text"/> %
<ul style="list-style-type: none"> On-site transportation, excluding highway usage 	10800	<input type="text"/> %
<ul style="list-style-type: none"> Other direct non-process use: Please specify: <input type="text"/> 10821 	10820	<input type="text"/> %

TOTAL 100%

Natural Gas: Units

<p>18. Please indicate the units for the quantity that will be reported below.</p> <p>** Please use this unit for reporting the remainder of the Natural Gas quantity questions.</p>	<p>"Census Use Only"</p> <p>31111</p>	<p><input type="checkbox"/> 1. Therms</p> <p><input type="checkbox"/> 2. Decatherms (Dth)</p> <p><input type="checkbox"/> 3. 1,000 Cubic Feet (Mcf)</p> <p><input type="checkbox"/> 4. 100 Cubic Feet (Ccf)</p> <p><input type="checkbox"/> 5. Million British Thermal Units (MMBtu)</p>
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Natural Gas: Total Purchased

<p>19. Enter the total quantity of natural gas purchased by and delivered to this establishment during 2014, regardless of when payment was made.</p>	<p>30010</p>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p style="text-align: center;">Units</p>								
<p>20. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the purchased natural gas reported in question 19.</p>	<p>30020</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;">\$Bil.</td> <td style="text-align: center; border-bottom: 1px solid black;">Mil.</td> <td style="text-align: center; border-bottom: 1px solid black;">Thou.</td> <td style="text-align: center; border-bottom: 1px solid black;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25%;"></td> <td style="border: 1px solid black; width: 25%;"></td> <td style="border: 1px solid black; width: 25%;"></td> <td style="border: 1px solid black; width: 25%;"></td> </tr> </table> <p style="text-align: center;">U.S. Dollars</p>	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.							

Natural Gas: Source of Purchase

<p>21. During 2014, where did this establishment's purchased natural gas come from?</p> <p>Local utility: the company in your local area that produces and/or delivers natural gas and is legally obligated to provide service to the general public within its franchise area.</p> <p>Non-utility: include independent producers, brokers, marketers, and any marketing subsidiaries of utilities.</p>	<p>30015</p>	<p><input type="checkbox"/> 1. All local utility: Answer question 22 then skip to question 25.</p> <p><input type="checkbox"/> 2. All non-utility: Answer question 22 then skip to question 25.</p> <p><input type="checkbox"/> 3. Both</p>								
<p>22. Please specify the utility/non-utility provider from whom you purchased your natural gas:</p> <p>If this establishment purchases from more than one provider, please provide the largest provider.</p>										
<p>23. Enter the quantity of your total purchased natural gas that was purchased from a local utility during 2014.</p>	<p>31010</p>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p style="text-align: center;">Units</p>								
<p>24. Enter the total expenditures of your purchased natural gas that was paid to a local utility.</p>	<p>31020</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; border-bottom: 1px solid black;">\$Bil.</td> <td style="text-align: center; border-bottom: 1px solid black;">Mil.</td> <td style="text-align: center; border-bottom: 1px solid black;">Thou.</td> <td style="text-align: center; border-bottom: 1px solid black;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25%;"></td> <td style="border: 1px solid black; width: 25%;"></td> <td style="border: 1px solid black; width: 25%;"></td> <td style="border: 1px solid black; width: 25%;"></td> </tr> </table> <p style="text-align: center;">U.S. Dollars</p>	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.							

Natural Gas: Transferred In and Produced On-site

<p>25. Enter the total quantity of natural gas transferred in or otherwise received on-site without a direct open market purchase.</p> <p>Include quantities:</p> <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	<p>"Census Use Only"</p> <p>30030</p>	<div style="border: 1px solid black; height: 25px; width: 100%;"></div> <p style="text-align: center;">Units</p>
<p>26. Enter the quantity of natural gas that was both produced on-site during 2014 as output from a captive (onsite) well, and was at least partially consumed on-site (as a fuel or nonfuel).</p>	<p>30040</p>	<div style="border: 1px solid black; height: 25px; width: 100%;"></div> <p style="text-align: center;">Units</p>

Natural Gas: Consumption

<p>27. Enter the total quantity of natural gas consumed as a fuel at this establishment during 2014.</p> <p>Include all uses that were used for the heat, power, and electricity generation. Also, include fuel consumed by vehicles intended primarily for use on-site.</p>	<p>30060</p>	<div style="border: 1px solid black; height: 25px; width: 100%;"></div> <p style="text-align: center;">Units</p>
<p>28. Enter the total quantity of natural gas consumed for any purpose other than fuel use at this establishment during 2014.</p> <p>Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose.</p> <p>Exclude all off-site dispositions such as sales and transfers to other establishments.</p>	<p>30070</p>	<div style="border: 1px solid black; height: 25px; width: 100%;"></div> <p style="text-align: center;">Units</p>

Natural Gas: Estimated End-Use Percent Consumption

The following questions refer to how this establishment consumed the natural gas that was previously reported in question 27 (please enter as a percentage of total consumption for each end use performed). A plant engineer or someone who is familiar with energy flows at this establishment should report this data.

29. Enter the percentage of total natural gas (from question 27) that this establishment consumed as the following:

<i>Indirect Uses – Boilers: indirect use is the transformation of energy to another usable energy source, as in a boiler, gas turbine, or combustion turbine.</i>	"Census Use Only"	Natural Gas
<ul style="list-style-type: none"> • Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process 	30705	<input type="text"/> %
<ul style="list-style-type: none"> • Other boiler fuel (not included above) (includes fuels used for thermal outputs only) 	30710	<input type="text"/> %
<i>Direct Uses – Process: direct process use includes usage in motors, ovens, kilns, and strip heaters.</i>		
<ul style="list-style-type: none"> • Process heating (e.g., kilns, furnaces, ovens, strip heaters) 	30720	<input type="text"/> %
<ul style="list-style-type: none"> • Process cooling and refrigeration 	30730	<input type="text"/> %
<ul style="list-style-type: none"> • Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment) 	30740	<input type="text"/> %
<ul style="list-style-type: none"> • Other direct process use: <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Please specify:</div> <div style="border: 1px solid black; width: 200px; height: 20px; margin-left: 10px;"></div> </div> 	30761 30760	<input type="text"/> %
<i>Direct Uses – Non-process: direct non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).</i>		
<ul style="list-style-type: none"> • Facility heating, ventilation, and air conditioning 	30770	<input type="text"/> %
<ul style="list-style-type: none"> • Facility support other than that reported above (e.g., cooking, water heating, office equipment) 	30790	<input type="text"/> %
<ul style="list-style-type: none"> • On-site transportation, excluding highway usage 	30800	<input type="text"/> %
<ul style="list-style-type: none"> • Conventional electricity generation 	30810	<input type="text"/> %
<ul style="list-style-type: none"> • Other direct non-process use: <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Please specify:</div> <div style="border: 1px solid black; width: 200px; height: 20px; margin-left: 10px;"></div> </div> 	30821 30820	<input type="text"/> %

TOTAL 100%

Diesel or Distillate Fuel Oil: Total Purchased, Transferred, and Produced

	"Census Use Only"	(28)	(29)																
		Total Diesel Fuel (exclude off-site highway) ↓	Total Distillate Fuel (numbers 1, 2, & 4) ↓																
30. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<input style="width: 100%; height: 20px;" type="text"/> Barrels	<input style="width: 100%; height: 20px;" type="text"/> Barrels																
31. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 30.	020	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: small;">\$Bil.</td> <td style="text-align: center; font-size: small;">Mil.</td> <td style="text-align: center; font-size: small;">Thou.</td> <td style="text-align: center; font-size: small;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.					<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: small;">\$Bil.</td> <td style="text-align: center; font-size: small;">Mil.</td> <td style="text-align: center; font-size: small;">Thou.</td> <td style="text-align: center; font-size: small;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.																
\$Bil.	Mil.	Thou.	Dol.																
32. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<input style="width: 100%; height: 20px;" type="text"/> Barrels	<input style="width: 100%; height: 20px;" type="text"/> Barrels																
33. Enter the quantity of the energy source produced on-site during 2014.	040	<input style="width: 100%; height: 20px;" type="text"/> Barrels	<input style="width: 100%; height: 20px;" type="text"/> Barrels																

Diesel or Distillate Fuel Oil: Consumption

	"Census Use Only"	(28)	(29)
		Total Diesel Fuel (exclude off-site highway)	Total Distillate Fuel (numbers 1, 2, & 4)
		↓	↓
34. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation. Also, include fuel consumed by vehicles intended primarily for use on-site.	060	<input style="width: 100%; height: 20px;" type="text"/> Barrels	<input style="width: 100%; height: 20px;" type="text"/> Barrels
35. Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2014. Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose. Exclude all off-site dispositions such as sales and transfers to other establishments.	070	<input style="width: 100%; height: 20px;" type="text"/> Barrels	<input style="width: 100%; height: 20px;" type="text"/> Barrels

Diesel or Distillate Fuel Oil: Shipments

36. Enter the quantity of the energy source shipped off-site during 2014.	080	<input style="width: 100%; height: 20px;" type="text"/> Barrels	<input style="width: 100%; height: 20px;" type="text"/> Barrels
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Diesel or Distillate Fuel Oil: Storage Capacity

37. Enter the shell or design storage capacity of all the storage tanks located on-site as of 12/31/10.	090	<input style="width: 100%; height: 20px;" type="text"/> Barrels	<input style="width: 100%; height: 20px;" type="text"/> Barrels
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Diesel or Distillate Fuel Oil: Estimated End-Use Percent Consumption

The following questions refer to how this establishment consumed the energy source that was previously reported in question 34 (please enter as a percentage of total consumption for each end use performed). A plant engineer or someone who is familiar with energy flows at this establishment should report this data.

38. Enter the percentage of total energy source (question 34 column 1 + question 34 column 2) that this establishment consumed as the following:

<i>Indirect Uses – Boilers: indirect use is the transformation of energy to another usable energy source, as in a boiler, gas turbine, or combustion turbine.</i>	"Census Use Only"	Diesel and Distillate
<ul style="list-style-type: none"> • Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process 	22705	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Other boiler fuel (not included above) (includes fuels used for thermal outputs only) 	22710	<input style="width: 50px; height: 20px;" type="text"/> %
<i>Direct Uses – Process: direct process use includes usage in motors, ovens, kilns, and strip heaters.</i>		
<ul style="list-style-type: none"> • Process heating (e.g., kilns, furnaces, ovens, strip heaters) 	22720	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Process cooling and refrigeration 	22730	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment) 	22740	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Other direct process use: Please specify: 22762 <input style="width: 250px; height: 20px;" type="text"/> 	22760	<input style="width: 50px; height: 20px;" type="text"/> %
<i>Direct Uses – Non-process: direct non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).</i>		
<ul style="list-style-type: none"> • Facility heating, ventilation, and air conditioning 	22770	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Facility support other than that reported above (e.g., cooking, water heating, office equipment) 	22790	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • On-site transportation, excluding highway usage 	22800	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Conventional electricity generation 	22810	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Other direct non-process use: Please specify: 22822 <input style="width: 250px; height: 20px;" type="text"/> 	22820	<input style="width: 50px; height: 20px;" type="text"/> %
TOTAL		100%

Residual Fuel Oil: Total Purchased, Transferred, and Produced

	"Census Use Only"	Residual Fuel Oil (numbers 5, 6, Navy Special and Bunker C) ↓								
39. Enter the total quantity of residual fuel purchased by and delivered to this establishment during 2014, regardless of when payment was made.	21010	<input style="width: 100%; height: 20px;" type="text"/> Barrels								
40. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the purchased residual fuel reported in question 39.	21020	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 15%;">\$Bil.</td> <td style="text-align: center; width: 15%;">Mil.</td> <td style="text-align: center; width: 15%;">Thou.</td> <td style="text-align: center; width: 15%;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 15%;"></td> <td style="border: 1px solid black; width: 15%;"></td> <td style="border: 1px solid black; width: 15%; text-align: center;">Barrels</td> <td style="border: 1px solid black; width: 15%;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.			Barrels	
\$Bil.	Mil.	Thou.	Dol.							
		Barrels								
41. Enter the total quantity of residual fuel transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	21030	<input style="width: 100%; height: 20px;" type="text"/> Barrels								
42. Enter the quantity of residual fuel produced on-site during 2014.	21040	<input style="width: 100%; height: 20px;" type="text"/> Barrels								

Residual Fuel Oil: Consumption

43. Enter the total quantity of residual fuel consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation.	21060	<input style="width: 100%; height: 20px;" type="text"/> Barrels
44. Enter the total quantity of residual fuel consumed for any purpose other than fuel use at this establishment during 2014. Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose. Exclude all off-site dispositions such as sales and transfers to other establishments.	21070	<input style="width: 100%; height: 20px;" type="text"/> Barrels

Residual Fuel Oil: Shipments

45. Enter the quantity of residual fuel shipped off-site during 2014.	21080	<input style="width: 100%; height: 20px;" type="text"/> Barrels
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Residual Fuel Oil: Storage Capacity

46. Enter the shell or design storage capacity of all the storage tanks located on-site as of 12/31/10.	21090	<input style="width: 100%; height: 20px;" type="text"/> Barrels
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Residual Fuel Oil: Estimated End-Use Percent Consumption

The following questions refer to how this establishment consumed the residual fuel that was previously reported in question 43 (please enter as a percentage of total consumption for each end use performed). A plant engineer or someone who is familiar with energy flows at this establishment should report this data.

47. Enter the percentage of total residual fuel (from question 43) that this establishment consumed as the following:

<i>Indirect Uses – Boilers: indirect use is the transformation of energy to another usable energy source, as in a boiler, gas turbine, or combustion turbine.</i>	"Census Use Only"	Residual Fuel
<ul style="list-style-type: none"> • Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process 	21705	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Other boiler fuel (not included above) (includes fuels used for thermal outputs only) 	21710	<input style="width: 50px; height: 20px;" type="text"/> %
<i>Direct Uses – Process: direct process use includes usage in motors, ovens, kilns, and strip heaters.</i>		
<ul style="list-style-type: none"> • Process heating (e.g., kilns, furnaces, ovens, strip heaters) 	21720	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Process cooling and refrigeration 	21730	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment) 	21740	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Other direct process use: <div style="display: flex; align-items: center; margin-top: 5px;"> Please specify: <div style="display: flex; align-items: center;"> 21762 <input style="width: 200px; height: 20px; border: 1px solid black;" type="text"/> </div> </div> 	21760	<input style="width: 50px; height: 20px;" type="text"/> %
<i>Direct Uses – Non-process: direct non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).</i>		
<ul style="list-style-type: none"> • Facility heating, ventilation, and air conditioning 	21770	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Facility support other than that reported above (e.g., cooking, water heating, office equipment) 	21790	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Conventional electricity generation 	21810	<input style="width: 50px; height: 20px;" type="text"/> %
<ul style="list-style-type: none"> • Other direct non-process use: <div style="display: flex; align-items: center; margin-top: 5px;"> Please specify: <div style="display: flex; align-items: center;"> 21822 <input style="width: 200px; height: 20px; border: 1px solid black;" type="text"/> </div> </div> 	21820	<input style="width: 50px; height: 20px;" type="text"/> %

TOTAL 100%

LPG (Butane, Ethane, or Propane): Purchased, Transferred, and Produced

	"Census Use Only"	(36)	(37)	(38)
		Butane	Ethane	Propane
		↓	↓	↓
48. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons

49. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 48.

(36) Butane				(37) Ethane				(38) Propane			
020											
\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.	\$Bil.	Mil.	Thou.	Dol.
U.S. Dollars				U.S. Dollars				U.S. Dollars			

	"Census Use Only"	(36)	(37)	(38)
		Butane	Ethane	Propane
		↓	↓	↓
50. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase.	030	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons
<p>Include quantities:</p> <ul style="list-style-type: none"> For which payment, if any, does not represent an open-market transaction. For which payment was made in-kind (i.e., barter). Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 				
51. Enter the quantity of the energy source produced on-site during 2014.	040	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons

LPG (Butane, Ethane, or Propane): Consumption

	"Census Use Only"	(36)	(37)	(38)
		Butane ↓	Ethane ↓	Propane ↓
52. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation. Also, include fuel consumed by vehicles intended primarily for use on-site.	060	<input type="text"/> Gallons	<input type="text"/> Gallons	<input type="text"/> Gallons
53. Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2014. Include all quantities consumed as lubricants, solvents or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose. Exclude all off-site dispositions such as sales and transfers to other establishments.	070	<input type="text"/> Gallons	<input type="text"/> Gallons	<input type="text"/> Gallons

LPG (Butane, Ethane, or Propane): Shipments

54. Enter the quantity of the energy source shipped off-site during 2014.	080	<input type="text"/> Gallons	<input type="text"/> Gallons	<input type="text"/> Gallons
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Total Mixtures or Other LPG: Produced, Consumption, and Shipments

Total Mixtures or Other LPG: Produced, Consumption, and Shipments																			
	"Census Use Only"	(34)	(35)																
		Mixtures of Butane, Ethane and Propane ↓	Other Liquefied Petroleum Gases (LPG) and Natural Gas Liquids (NGL) (e.g., butylenes, ethylene, and propylene) ↓																
55. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<div style="border: 1px solid black; width: 150px; height: 20px; margin: 0 auto;"></div> Gallons	<div style="border: 1px solid black; width: 150px; height: 20px; margin: 0 auto;"></div> Gallons																
56. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 55.	020	<table style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">\$Bil.</td> <td style="text-align: center; padding: 2px;">Mil.</td> <td style="text-align: center; padding: 2px;">Thou.</td> <td style="text-align: center; padding: 2px;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.					<table style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">\$Bil.</td> <td style="text-align: center; padding: 2px;">Mil.</td> <td style="text-align: center; padding: 2px;">Thou.</td> <td style="text-align: center; padding: 2px;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.																
\$Bil.	Mil.	Thou.	Dol.																
57. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<div style="border: 1px solid black; width: 150px; height: 20px; margin: 0 auto;"></div> Gallons	<div style="border: 1px solid black; width: 150px; height: 20px; margin: 0 auto;"></div> Gallons																

Total Mixtures or Other LPG: Produced, Consumption, and Shipments

	"Census Use Only"	(34)	(35)
		Mixtures of Butane, Ethane and Propane	Other Liquefied Petroleum Gases (LPG) and Natural Gas Liquids (NGL) (e.g., butylenes, ethylene, and propylene)
		↓	↓
58. Enter the quantity of the energy source produced on-site during 2014.	040	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons
59. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation. Also, include fuel consumed by vehicles intended primarily for use on-site.	060	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons
60. Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2014. Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose. Exclude all off-site dispositions such as sales and transfers to other establishments.	070	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons
61. Enter the quantity of the energy source shipped off-site during 2014.	080	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons

Total LPG and NGL: Estimated End-Use Percent Consumption

The following questions refer to how this establishment consumed the energy source that was previously reported in question 52 + 59 (please enter as a percentage of total consumption for each end use performed). A plant engineer or someone who is familiar with energy flows at this establishment should report this data.

62. Enter the percentage of total energy source (question 52 column 1 + question 52 column 2 + question 52 column 3 + question 59 column 1 + question 59 column 2) that this establishment consumed as the following:

Indirect Uses – Boilers: indirect use is the transformation of energy to another usable energy source, as in a boiler, gas turbine, or combustion turbine.

	"Census Use Only"	Total LPG and NGL
<ul style="list-style-type: none"> • Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process 	24705	<input type="text"/> %
<ul style="list-style-type: none"> • Other boiler fuel (not included above) (includes fuels used for thermal outputs only) 	24710	<input type="text"/> %

Direct Uses – Process: direct process use includes usage in motors, ovens, kilns, and strip heaters.

<ul style="list-style-type: none"> • Process heating (e.g., kilns, furnaces, ovens, strip heaters) 	24720	<input type="text"/> %
<ul style="list-style-type: none"> • Process cooling and refrigeration 	24730	<input type="text"/> %
<ul style="list-style-type: none"> • Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment) 	24740	<input type="text"/> %
<ul style="list-style-type: none"> • Other direct process use: Please specify: <input type="text"/> ²⁴⁷⁶² 	24760	<input type="text"/> %

Direct Uses – Non-process: direct non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).

<ul style="list-style-type: none"> • Facility heating, ventilation, and air conditioning 	24770	<input type="text"/> %
<ul style="list-style-type: none"> • Facility support other than that reported above (e.g., cooking, water heating, office equipment) 	24790	<input type="text"/> %
<ul style="list-style-type: none"> • On-site transportation, excluding highway usage 	24800	<input type="text"/> %
<ul style="list-style-type: none"> • Conventional electricity generation 	24810	<input type="text"/> %
<ul style="list-style-type: none"> • Other direct non-process use: Please specify: <input type="text"/> ²⁴⁸²² 	24820	<input type="text"/> %

TOTAL 100%

Petrochemical Feedstocks or Asphalt: Produced, Consumption, and Shipments

	"Census Use Only"	(00)	(00)																
		Petrochemical Feedstocks (e.g., naphtha, refinery hydrocarbons) (exclude hydrocarbons already being reported on this form) ↓	Asphalt (e.g., bitumen, asphalt binder, liquid asphalt) (include blended or asphalt with additives) (exclude recycled/re-used asphalt) ↓																
63. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons																
64. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 63.	020	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: small;">\$Bil.</td> <td style="text-align: center; font-size: small;">Mil.</td> <td style="text-align: center; font-size: small;">Thou.</td> <td style="text-align: center; font-size: small;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.					<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: small;">\$Bil.</td> <td style="text-align: center; font-size: small;">Mil.</td> <td style="text-align: center; font-size: small;">Thou.</td> <td style="text-align: center; font-size: small;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.																
\$Bil.	Mil.	Thou.	Dol.																
65. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<input style="width: 100%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Gallons																

Petrochemical Feedstocks or Asphalt: Produced, Consumption, and Shipments

	"Census Use Only"	(00)	(00)
		Petrochemical Feedstocks (e.g., naphtha, refinery hydrocarbons) (exclude hydrocarbons already being reported on this form) ↓	Asphalt (e.g., bitumen, asphalt binder, liquid asphalt) (include blended or asphalt with additives) (exclude recycled/re-used asphalt) ↓
66. Enter the quantity of the energy source produced on-site during 2014.	040	<input style="width: 150px; height: 20px;" type="text"/> Gallons	<input style="width: 150px; height: 20px;" type="text"/> Gallons
67. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation. Also, include fuel consumed by vehicles intended primarily for use on-site.	060	<input style="width: 150px; height: 20px;" type="text"/> Gallons	<input style="width: 150px; height: 20px;" type="text"/> Gallons
68. Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2014. Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose. Exclude all off-site dispositions such as sales and transfers to other establishments.	070	<input style="width: 150px; height: 20px;" type="text"/> Gallons	<input style="width: 150px; height: 20px;" type="text"/> Gallons
69. Enter the quantity of the energy source shipped off-site during 2014.	080	<input style="width: 150px; height: 20px;" type="text"/> Gallons	<input style="width: 150px; height: 20px;" type="text"/> Gallons

Coal: Purchased, Transferred, and Produced

	"Census Use Only"	(40)	(41)	(42)
		Anthracite ↓	Bituminous and Subbituminous ↓	Lignite ↓
70. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<input style="width: 100%; height: 20px;" type="text"/> Short tons	<input style="width: 100%; height: 20px;" type="text"/> Short tons	<input style="width: 100%; height: 20px;" type="text"/> Short tons
71. Enter the total expenditures; including all applicable taxes and delivery, management, transportation, and demand charges, for the quantity reported in question 70.				
020		(40) Anthracite	(41) Bituminous and Subbituminous	(42) Lignite
		\$Bil. Mil. Thou. Dol.	\$Bil. Mil. Thou. Dol.	\$Bil. Mil. Thou. Dol.
		<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
		U.S. Dollars	U.S. Dollars	U.S. Dollars
	"Census Use Only"	(40)	(41)	(42)
		Anthracite ↓	Bituminous and Subbituminous ↓	Lignite ↓
72. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase.	030	<input style="width: 100%; height: 20px;" type="text"/> Short tons	<input style="width: 100%; height: 20px;" type="text"/> Short tons	<input style="width: 100%; height: 20px;" type="text"/> Short tons
Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 				
73. Enter the quantity of the energy source produced on-site during 2014.	040	<input style="width: 100%; height: 20px;" type="text"/> Short tons	<input style="width: 100%; height: 20px;" type="text"/> Short tons	<input style="width: 100%; height: 20px;" type="text"/> Short tons

Coal: Consumption

	"Census Use Only"	(40)	(41)	(42)
		Anthracite ↓	Bituminous and Subbituminous ↓	Lignite ↓
<p>74. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014.</p> <p>Include all uses that were used for the heat, power, and electricity generation.</p>	060	<input style="width: 100px; height: 20px;" type="text"/> Short tons	<input style="width: 100px; height: 20px;" type="text"/> Short tons	<input style="width: 100px; height: 20px;" type="text"/> Short tons
<p>75. Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2014.</p> <p>Include all quantities consumed as lubricants, solvents or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose.</p> <p>Exclude all off-site dispositions such as sales and transfers to other establishments.</p>	070	<input style="width: 100px; height: 20px;" type="text"/> Short tons	<input style="width: 100px; height: 20px;" type="text"/> Short tons	<input style="width: 100px; height: 20px;" type="text"/> Short tons

Coal: Estimated End-Use Percent Consumption

The following questions refer to how this establishment consumed the energy source that was previously reported in question 74 (please enter as a percentage of total consumption for each end use performed). A plant engineer or someone who is familiar with energy flows at this establishment should report this data.

76. Enter the percentage of total energy source (question 74 column 1 + question 74 column 2 + question 74 column 3) that this establishment consumed as the following:

<i>Indirect Uses – Boilers: indirect use is the transformation of energy to another usable energy source, as in a boiler, gas turbine, or combustion turbine.</i>	"Census Use Only"	Total Coal (exclude coal coke and breeze)
<ul style="list-style-type: none"> • Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process 	46705	<input type="text"/> %
<ul style="list-style-type: none"> • Other boiler fuel (not included above) (includes fuels used for thermal outputs only) 	46710	<input type="text"/> %
<i>Direct Uses – Process: direct process use includes usage in motors, ovens, kilns, and strip heaters.</i>		
<ul style="list-style-type: none"> • Process heating (e.g., kilns, furnaces, ovens, strip heaters) 	46720	<input type="text"/> %
<ul style="list-style-type: none"> • Process cooling and refrigeration 	46730	<input type="text"/> %
<ul style="list-style-type: none"> • Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment) 	46740	<input type="text"/> %
<ul style="list-style-type: none"> • Other direct process use: Please specify: 46761 <input style="width: 200px;" type="text"/> 	46760	<input type="text"/> %
<i>Direct Uses – Non-process: direct non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).</i>		
<ul style="list-style-type: none"> • Facility heating, ventilation, and air conditioning 	46770	<input type="text"/> %
<ul style="list-style-type: none"> • Facility support other than that reported above (e.g., cooking, water heating, office equipment) 	46790	<input type="text"/> %
<ul style="list-style-type: none"> • Conventional electricity generation 	46810	<input type="text"/> %
<ul style="list-style-type: none"> • Other direct non-process use: Please specify: 46821 <input style="width: 200px;" type="text"/> 	46820	<input type="text"/> %

TOTAL 100%

Breeze or Coal Coke: Purchased, Transferred, and Produced

	"Census Use Only"	(44)	(43)																								
		Breeze	Coal Coke																								
		↓	↓																								
77. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Short tons	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Short tons																								
78. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 77.	020	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: small;">\$Bil.</td> <td style="text-align: center; font-size: small;">Mil.</td> <td style="text-align: center; font-size: small;">Thou.</td> <td style="text-align: center; font-size: small;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25px; height: 20px;"></td> <td style="border: 1px solid black; width: 25px; height: 20px;"></td> <td style="border: 1px solid black; width: 25px; height: 20px;"></td> <td style="border: 1px solid black; width: 25px; height: 20px;"></td> </tr> <tr> <td colspan="4" style="text-align: center;">U.S. Dollars</td> </tr> </table>	\$Bil.	Mil.	Thou.	Dol.					U.S. Dollars				<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: small;">\$Bil.</td> <td style="text-align: center; font-size: small;">Mil.</td> <td style="text-align: center; font-size: small;">Thou.</td> <td style="text-align: center; font-size: small;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25px; height: 20px;"></td> <td style="border: 1px solid black; width: 25px; height: 20px;"></td> <td style="border: 1px solid black; width: 25px; height: 20px;"></td> <td style="border: 1px solid black; width: 25px; height: 20px;"></td> </tr> <tr> <td colspan="4" style="text-align: center;">U.S. Dollars</td> </tr> </table>	\$Bil.	Mil.	Thou.	Dol.					U.S. Dollars			
\$Bil.	Mil.	Thou.	Dol.																								
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\$Bil.	Mil.	Thou.	Dol.																								
U.S. Dollars																											
79. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Short tons	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Short tons																								
80. Enter the quantity of the energy source produced on-site during 2014.	040	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Short tons	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Short tons																								

Breeze or Coal Coke: Consumption

	"Census Use Only"	(44)	(43)
		Breeze	Coal Coke
		↓	↓
81. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation.	060	<input type="text"/> Short tons	<input type="text"/> Short tons
82. Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2014. Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose. Exclude all off-site dispositions such as sales and transfers to other establishments.	070	<input type="text"/> Short tons	<input type="text"/> Short tons

Breeze or Coal Coke: Shipments

83. Enter the quantity of the energy source shipped off-site during 2014.	080	<input type="text"/> Short tons	<input type="text"/> Short tons
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Petroleum Cokes: Purchased, Transferred, and Produced

	"Census Use Only"	(78)	(79)																
		Marketable Petroleum Coke - Unrefined or Green	Marketable Petroleum Coke - Calcined																
		↓	↓																
84. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<input type="text"/> Barrels	<input type="text"/> Barrels																
85. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 84.	020	<table border="1"> <tr> <td align="center">\$Bil.</td> <td align="center">Mil.</td> <td align="center">Thou.</td> <td align="center">Dol.</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<table border="1"> <tr> <td align="center">\$Bil.</td> <td align="center">Mil.</td> <td align="center">Thou.</td> <td align="center">Dol.</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
\$Bil.	Mil.	Thou.	Dol.																
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																
\$Bil.	Mil.	Thou.	Dol.																
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																
86. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<input type="text"/> Barrels	<input type="text"/> Barrels																
87. Enter the quantity of the energy source produced on-site during 2014.	040	<input type="text"/> Barrels	<input type="text"/> Barrels																

Petroleum Cokes: Consumption

	"Census Use Only"	(78)	(79)
		Marketable Petroleum Coke - Unrefined or Green	Marketable Petroleum Coke - Calcined
		↓	↓
88. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation.	060	<input type="text"/> Barrels	<input type="text"/> Barrels
89. Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2014. Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose. Exclude all off-site dispositions such as sales and transfers to other establishments.	070	<input type="text"/> Barrels	<input type="text"/> Barrels

Petroleum Cokes: Shipments

90. Enter the quantity of the energy source shipped off-site during 2014.	080	<input type="text"/> Barrels	<input type="text"/> Barrels
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Kerosene or Motor Gasoline: Total Purchased, Transferred, and Produced

	"Census Use Only"	(27)	(23)																
		Kerosene	Motor Gasoline (exclude off-site highway use)																
		↓	↓																
91. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Barrels	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Gallons																
92. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 91.	020	<table style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">\$Bil.</td> <td style="text-align: center; padding: 2px;">Mil.</td> <td style="text-align: center; padding: 2px;">Thou.</td> <td style="text-align: center; padding: 2px;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.					<table style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">\$Bil.</td> <td style="text-align: center; padding: 2px;">Mil.</td> <td style="text-align: center; padding: 2px;">Thou.</td> <td style="text-align: center; padding: 2px;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.																
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93. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Barrels	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Gallons																
94. Enter the quantity of the energy source produced on-site during 2014.	040	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Barrels	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Gallons																

Kerosene or Motor Gasoline: Consumption

Kerosene or Motor Gasoline: Consumption			
	"Census Use Only"	(27)	(23)
		Kerosene	Motor Gasoline (exclude off-site highway use)
		↓	↓
<p>95. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014.</p> <p>Include all uses that were used for the heat, power, and electricity generation. Also, include fuel consumed by vehicles intended primarily for use on-site.</p>	060	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Barrels	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Gallons
<p>96. Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2014.</p> <p>Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose.</p> <p>Exclude all off-site dispositions such as sales and transfers to other establishments.</p>	070	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Barrels	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Gallons

Kerosene or Motor Gasoline: Storage Capacity

<p>97. Enter the shell or design storage capacity of all the storage tanks located on-site as of 12/31/14.</p>	090		<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Gallons
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Acetylene or Hydrogen: Total Purchased

Acetylene or Hydrogen: Total Purchased																											
	"Census Use Only"	(64)	(63)																								
		Acetylene ↓	Hydrogen ↓																								
98. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Cubic Feet	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Million Btu																								
99. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 98.	020	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: small;">\$Bil.</td> <td style="text-align: center; font-size: small;">Mil.</td> <td style="text-align: center; font-size: small;">Thou.</td> <td style="text-align: center; font-size: small;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> </tr> <tr> <td colspan="4" style="text-align: center;">U.S. Dollars</td> </tr> </table>	\$Bil.	Mil.	Thou.	Dol.					U.S. Dollars				<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: small;">\$Bil.</td> <td style="text-align: center; font-size: small;">Mil.</td> <td style="text-align: center; font-size: small;">Thou.</td> <td style="text-align: center; font-size: small;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> </tr> <tr> <td colspan="4" style="text-align: center;">U.S. Dollars</td> </tr> </table>	\$Bil.	Mil.	Thou.	Dol.					U.S. Dollars			
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100. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> ▪ For which payment, if any, does not represent an open-market transaction. ▪ For which payment was made in-kind (i.e., barter). ▪ Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Cubic Feet	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Million Btu																								
101. Enter the quantity of the energy source produced on-site during 2014.	040	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Cubic Feet	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Million Btu																								
102. Does the quantity of hydrogen reported in produced on-site above represent the product or byproduct of another energy source consumed on-site?	050		<input type="checkbox"/> 1. Yes, product or byproduct <input type="checkbox"/> 2. No																								

Acetylene or Hydrogen: Consumption

	"Census Use Only"	(64) Acetylene ↓	(63) Hydrogen ↓
<p>103. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014.</p> <p>Include all uses that were used for the heat, power, and electricity generation. Also, include fuel consumed by vehicles intended primarily for use on-site.</p>	060	<input style="width: 100%; height: 20px;" type="text"/> Cubic Feet	<input style="width: 100%; height: 20px;" type="text"/> Million Btu
<p>104. Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2014.</p> <p>Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose.</p> <p>Exclude all off-site dispositions such as sales and transfers to other establishments.</p>	070	<input style="width: 100%; height: 20px;" type="text"/> Cubic Feet	<input style="width: 100%; height: 20px;" type="text"/> Million Btu

Acetylene or Hydrogen: Shipments

<p>105. Enter the quantity of the energy source shipped off-site during 2014.</p>	080	<input style="width: 100%; height: 20px;" type="text"/> Cubic Feet	<input style="width: 100%; height: 20px;" type="text"/> Million Btu
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Wood Harvested Directly from Trees: Total Purchased, Transferred, and Produced

<p>106. Enter the total quantity of wood harvested directly from trees purchased by and delivered to this establishment during 2014, for fuel uses only, regardless of when payment was made.</p>	<p>"Census Use Only" 83010</p>	<p><input type="text"/> Million Btu</p>
<p>107. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 106.</p>	<p>83020</p>	<p>\$Bil. Mil. Thou. Dol. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Barrels U.S. Dollars</p>
<p>108. Enter the total quantity of wood harvested directly from trees transferred in or otherwise received on-site without a direct open market purchase.</p> <p>Include quantities:</p> <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	<p>83030</p>	<p><input type="text"/> Million Btu</p>
<p>109. Enter the quantity of wood harvested directly from trees produced on-site during 2014.</p>	<p>83040</p>	<p><input type="text"/> Million Btu</p>

Wood Harvested Directly From Trees: Consumption

<p>110. Enter the total quantity of wood harvested directly from trees consumed as a fuel at this establishment during 2014.</p> <p>Include all uses that were used for the heat, power, and electricity generation.</p>	<p>83060</p>	<p><input type="text"/> Million Btu</p>
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Blast Furnace Gas or Coke Oven Gas: Purchased, Transferred, and Produced

	"Census Use Only"	(60)	(61)																
		Blast Furnace	Coke Oven Gas																
		↓	↓																
111. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Million Btu	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Million Btu																
112. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 111.	020	<table style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: small;">\$Bil.</td> <td style="text-align: center; font-size: small;">Mil.</td> <td style="text-align: center; font-size: small;">Thou.</td> <td style="text-align: center; font-size: small;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.					<table style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="text-align: center; font-size: small;">\$Bil.</td> <td style="text-align: center; font-size: small;">Mil.</td> <td style="text-align: center; font-size: small;">Thou.</td> <td style="text-align: center; font-size: small;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.																
\$Bil.	Mil.	Thou.	Dol.																
113. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Million Btu	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Million Btu																
114. Enter the quantity of the energy source produced on-site during 2014.	040	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Million Btu	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Million Btu																

Blast Furnace Gas or Coke Oven Gas: Consumption

	"Census Use Only"	(60)	(61)
		Blast Furnace	Coke Oven Gas
		↓	↓
115. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation.	060	<input type="text"/> Million Btu	<input type="text"/> Million Btu

Blast Furnace Gas or Coke Oven Gas: Shipments

116. Enter the quantity of the energy source shipped off-site during 2014.	080	<input type="text"/> Million Btu	<input type="text"/> Million Btu
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Waste Oils and Tars, or Waste Byproduct Gases: Purchased, Transferred, and Produced

	"Census Use Only"	(71)	(62)																
		Waste Oils and Tars (excluding Coal Tar) ↓	Waste and Byproduct Gases (e.g., refinery gas, off gas, vent gas, plant gas, still gas) ↓																
117. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<input type="text"/> Million Btu	<input type="text"/> Million Btu																
118. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 117.	020	<table border="1"> <thead> <tr> <th>\$Bil.</th> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> </tr> </thead> <tbody> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </tbody> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<table border="1"> <thead> <tr> <th>\$Bil.</th> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> </tr> </thead> <tbody> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </tbody> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
\$Bil.	Mil.	Thou.	Dol.																
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																
\$Bil.	Mil.	Thou.	Dol.																
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																
119. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<input type="text"/> Million Btu	<input type="text"/> Million Btu																
120. Enter the quantity of the energy source produced on-site during 2014.	040	<input type="text"/> Million Btu	<input type="text"/> Million Btu																

Waste Oils and Tars, or Waste Byproduct Gases: Consumption

	"Census Use Only"	(71)	(62)
		Waste Oils and Tars (excluding Coal Tar) ↓	Waste and Byproduct Gases (e.g., refinery gas, off gas, vent gas, plant gas, still gas) ↓
121. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation.	060	<input style="width: 100%; height: 20px;" type="text"/> Million Btu	<input style="width: 100%; height: 20px;" type="text"/> Million Btu
122. Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2014. Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose. Exclude all off-site dispositions such as sales and transfers to other establishments.	070	<input style="width: 100%; height: 20px;" type="text"/> Million Btu	<input style="width: 100%; height: 20px;" type="text"/> Million Btu

Pulping Black Liquor or Agricultural Waste: Purchased, Transferred, and Produced

	"Census Use Only"	(73)	(90)																
		Pulping Black Liquor	Agricultural Waste (e.g., bagasse, rice hulls, nut shells, orchard prunings)																
		↓	↓																
123. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<input type="text"/> Million Btu	<input type="text"/> Million Btu																
124. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 116.	020	<table border="1"> <thead> <tr> <th>\$Bil.</th> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> </tr> </thead> <tbody> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </tbody> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<table border="1"> <thead> <tr> <th>\$Bil.</th> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> </tr> </thead> <tbody> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </tbody> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
\$Bil.	Mil.	Thou.	Dol.																
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																
\$Bil.	Mil.	Thou.	Dol.																
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																
125. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<input type="text"/> Million Btu	<input type="text"/> Million Btu																
126. Enter the quantity of the energy source produced on-site during 2014.	040	<input type="text"/> Million Btu	<input type="text"/> Million Btu																

Pulping Black Liquor or Agricultural Waste: Consumption

127. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation.	060	<input type="text"/> Million Btu	<input type="text"/> Million Btu
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**Wood Residues and Byproducts from Mill Processing or Wood / Paper-Related Refuse:
Purchased, Transferred, and Produced**

	"Census Use Only"	(84)	(72)																
		Wood Residues and Byproducts from Mill Processing (e.g., sawdust, shavings, slabs, bark) ↓	Wood / Paper-Related Refuse (e.g., scrap, wastepaper, wood pallets, packing materials) ↓																
128. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<input type="text"/> Million Btu	<input type="text"/> Million Btu																
129. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 128.	020	<table border="1"> <tr> <td align="center">\$Bil.</td> <td align="center">Mil.</td> <td align="center">Thou.</td> <td align="center">Dol.</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<table border="1"> <tr> <td align="center">\$Bil.</td> <td align="center">Mil.</td> <td align="center">Thou.</td> <td align="center">Dol.</td> </tr> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
\$Bil.	Mil.	Thou.	Dol.																
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																
\$Bil.	Mil.	Thou.	Dol.																
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																
130. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<input type="text"/> Million Btu	<input type="text"/> Million Btu																
131. Enter the quantity of the energy source produced on-site during 2014.	040	<input type="text"/> Million Btu	<input type="text"/> Million Btu																

Wood Residues and Byproducts from Mill Processing or Wood / Paper-Related Refuse: Consumption

132. Enter the total quantity of the energy source consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation.	060	<input type="text"/> Million Btu	<input type="text"/> Million Btu
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Steam or Industrial Hot Water: Total Purchased

	"Census Use Only"	(11)	(12)																
		Steam ↓	Industrial Hot Water ↓																
133. Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	061	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Million Btu	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Million Btu																
134. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 133.	062	<table style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">\$Bil.</td> <td style="text-align: center; padding: 2px;">Mil.</td> <td style="text-align: center; padding: 2px;">Thou.</td> <td style="text-align: center; padding: 2px;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.					<table style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">\$Bil.</td> <td style="text-align: center; padding: 2px;">Mil.</td> <td style="text-align: center; padding: 2px;">Thou.</td> <td style="text-align: center; padding: 2px;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.																
\$Bil.	Mil.	Thou.	Dol.																

Steam, Industrial Hot Water: Purchased from Local Utility and Non-Utility Sources

135. During 2014, where did this establishment's purchased steam come from? Local utility means the company in your local area that produces and/or delivers steam and is legally obligated to provide service to the general public within its franchise area. The term "non-utility" includes generator of steam such as independent power producers, small power producers, brokers, marketers, marketing subsidiaries of utilities, or cogenerator not owned by your company.	015	<input type="checkbox"/> 1. All local utility: Answer question 136 then skip to question 139. <input type="checkbox"/> 2. All non-utility: Answer question 136 then skip to question 139. <input type="checkbox"/> 3. Both									
136. Please specify the utility/non-utility provider from whom you purchased your steam: If this establishment purchases from more than one provider, please provide the largest provider.	016	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div>									
137. Enter the quantity of your total purchased steam that was purchased from a local utility during 2014.	010	<div style="border: 1px solid black; width: 150px; height: 25px; margin: 0 auto;"></div> Million Btu									
138. Enter the total expenditures of your purchased steam that came from a local utility.	020	<table style="margin: 0 auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;">\$Bil.</td> <td style="text-align: center; padding: 2px;">Mil.</td> <td style="text-align: center; padding: 2px;">Thou.</td> <td style="text-align: center; padding: 2px;">Dol.</td> </tr> <tr> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.					
\$Bil.	Mil.	Thou.	Dol.								

Steam or Industrial Hot Water: Transfers

	"Census Use Only"	(11)	(12)
		Steam ↓	Industrial Hot Water ↓
<p>139. Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase.</p> <p>Include quantities:</p> <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	050	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Million Btu	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Million Btu

Steam or Industrial Hot Water: Generated On-site

<p>140. Enter the quantity of the energy source generated on-site from each of the following:</p>		Million Btu	Million Btu
<ul style="list-style-type: none"> • Solar Power 	081	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>
<ul style="list-style-type: none"> • Wind Power 	082	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>
<ul style="list-style-type: none"> • Hydropower 	083	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>
<ul style="list-style-type: none"> • Geothermal Power 	084	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>	<div style="border: 1px solid black; width: 100%; height: 20px;"></div>

Steam or Industrial Hot Water: Sales and Transfers Off-site

<p>141. Enter the quantity of the energy source transferred out of this establishment during 2014.</p> <p>Include quantities exchanged for the same or any other energy source.</p> <p>Exclude sales to independent power producers, small power producers, or cogenerators not located at this establishment.</p>	110	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Million Btu	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Million Btu
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Other Energy Sources: Total Purchased, Transferred, and Produced

	"Census Use Only"	(91)	(93)	(95)
		Other	Other	Other
		↓	↓	↓
142. Specify the name and units (e.g., gallons, million Btu, cubic feet, etc.) of any energy source purchased or consumed in this establishment that has not been previously asked. <i>*Do not include: oxygen, carbon dioxide, nitrogen, argon, or helium.</i>	980	<input style="width: 100%; height: 20px;" type="text"/> Energy source	<input style="width: 100%; height: 20px;" type="text"/> Energy source	<input style="width: 100%; height: 20px;" type="text"/> Energy source
	981	<input style="width: 100%; height: 20px;" type="text"/> Units	<input style="width: 100%; height: 20px;" type="text"/> Units	<input style="width: 100%; height: 20px;" type="text"/> Units
143. Enter the total quantity of the other energy source (column) purchased by and delivered to this establishment during 2014, regardless of when payment was made.	010	<input style="width: 100%; height: 20px;" type="text"/> Units	<input style="width: 100%; height: 20px;" type="text"/> Units	<input style="width: 100%; height: 20px;" type="text"/> Units
144. Enter total expenditures; including all applicable taxes and delivery, management, transportation, and demand charges, for the quantity reported in question 143.				
020		(91) Other	(93) Other	(95) Other
		\$Bil. Mil. Thou. Dol.	\$Bil. Mil. Thou. Dol.	\$Bil. Mil. Thou. Dol.
		<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
		U.S. Dollars	U.S. Dollars	U.S. Dollars
145. Enter the total quantity of the other energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: <ul style="list-style-type: none"> • For which payment, if any, does not represent an open-market transaction. • For which payment was made in-kind (i.e., barter). • Received from an entity in which your establishment or company has a share of ownership or special sharing of revenue (e.g., in a performance service contract). 	030	<input style="width: 100%; height: 20px;" type="text"/> Units	<input style="width: 100%; height: 20px;" type="text"/> Units	<input style="width: 100%; height: 20px;" type="text"/> Units
	146. Enter the quantity of the other energy source produced on-site during 2014.	040	<input style="width: 100%; height: 20px;" type="text"/> Units	<input style="width: 100%; height: 20px;" type="text"/> Units

Other Energy Source: Consumption

	"Census Use Only"	(91)	(93)	(95)
		Other	Other	Other
		↓	↓	↓
147. Does the quantity reported in produced on-site represent the product or byproduct of another energy source consumed on-site?	050	<input type="checkbox"/> 1. Yes, product or byproduct <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes, product or byproduct <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes, product or byproduct <input type="checkbox"/> 2. No
148. Enter the total quantity of the other energy source consumed as a fuel at this establishment during 2014. Include all uses that were used for the heat, power, and electricity generation. Also, include fuel consumed by vehicles intended primarily for use on-site.	060	<input style="width: 100px; height: 20px;" type="text"/> Units	<input style="width: 100px; height: 20px;" type="text"/> Units	<input style="width: 100px; height: 20px;" type="text"/> Units
149. Enter the total quantity of the other energy source consumed for any purpose other than fuel use at this establishment during 2014. Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment, or any other nonfuel purpose. Exclude all off-site dispositions such as sales and transfers to other establishments.	070	<input style="width: 100px; height: 20px;" type="text"/> Units	<input style="width: 100px; height: 20px;" type="text"/> Units	<input style="width: 100px; height: 20px;" type="text"/> Units

Fuel Switching Capability: Electricity, Natural Gas, and Total Coal

- Capability to use substitute energy sources means that this establishment's combustors (for example, boilers, furnaces, ovens, blast furnaces) had the equipment, either in place or available for installation in 2014, so that substitutions could actually have been introduced within 30 days without extensive modifications.
- Include switching capability that could have resulted from the use of redundant and/or standby combustors, and from combustors that were already equipped to fire alternative fuels.
- In addition to the capability of your equipment, when formulating your estimates:
 - Make sure to consider both the equipment limitations of your boilers, heaters, and combustors and any other practical reasons when determining the availability of supply during 2014.

Equipment limitations include:

- The boilers, heaters, or other fuel-consuming equipment are not capable of using anything other than specify fuel for at least part of the operations.
- Although the boilers, heaters, or combustors would allow using another fuel, doing so would adversely affect a product. (e.g., altering the pigment in a paint-drying application).

Practical reasons include:

- There is no ready supply of an alternative energy source.
- Environmental restrictions related to air quality limit the amount of the physically usable alternative fuel that could be used instead.
- A long-term contract in-place that requires the purchase of certain amounts of the energy source in any case.
- Storage of alternative fuels is not available due to potential environmental impact of storage tanks.

- Do not limit your estimated capability by differences in relative prices of energy sources.

- This section is intended to measure your capability to switch, not whether you would switch if you could.
- When estimating your capability to substitute other fuels for electricity receipts, please consider the fuels that could be used to generate electricity onsite, as well as those that could be directly substituted in combustors.
- If records of fuel-switching capability are not regularly maintained, reasonable approximations are acceptable.
- Enter a zero if the fuel could not be switched for the specific energy source.
- Please proceed through this section column-by-column.

Fuel Switching Capability: Electricity, Natural Gas, and Total Coal

The next four questions are designed as a worksheet. You will need to refer back to some sections of the form that you have already filled out to record the figures you have reported.

150. Referring back to the Electricity section, question 7 page 8. Please enter the quantity of reported purchased electricity.	<input style="width: 90%; height: 20px;" type="text"/>
151. Referring back to the Electricity section, question 13 page 8. Please enter the quantity of reported transferred electricity.	<input style="width: 90%; height: 20px;" type="text"/>
152. Add lines from question 150 and 151 (question 150 + question 151). Enter the total in the box.	10503 <input style="width: 90%; height: 20px;" type="text"/>
153. Referring back to the Natural Gas section, question 27 page 12. Please enter the quantity of reported natural gas consumed. Enter the figure in the box.	30503 <input style="width: 90%; height: 20px;" type="text"/>
154. Referring back to the Coal section, question 74 page 27. Please add the quantity of any reported anthracite, bituminous and subbituminous and lignite consumed. Enter the total in the box.	46503 <input style="width: 90%; height: 20px;" type="text"/>

	"Census Use Only"	(10)	(30)	(46)
		Total Electricity Received	Total Natural Gas	Total ALL Coal
		Transfers + purchase		(excluding Coal Coke & Breeze)
		↓	↓	↓
155. Enter the total quantity of the energy source (column) you reported as consumed during 2014. Copy this figure from the above worksheet questions.	500	<input style="width: 90%; height: 20px;" type="text"/> Kilowatthours Enter figure from question 152.	<input style="width: 90%; height: 20px;" type="text"/> Units Enter figure from question 153.	<input style="width: 90%; height: 20px;" type="text"/> Short tons Enter figure from question 154.
156. Is the total quantity reported in question 155 greater than zero?	501	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to question 155, next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to question 155, next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to next section.
157. Enter the amount of the total quantity you reported in question 148 that could NOT have been replaced within 30 days by another energy source during 2014. Consider both the equipment limitations of your boilers, heaters, and combustors and any other practical reason. Do not consider differences in energy prices when estimating the amount.	510	<input style="width: 90%; height: 20px;" type="text"/> Kilowatthours	<input style="width: 90%; height: 20px;" type="text"/> Units	<input style="width: 90%; height: 20px;" type="text"/> Short tons

Fuel Switching Capability: Electricity, Natural Gas, and Total Coal

	"Census Use Only"	(10)	(30)	(46)
		Total Electricity Received Transfers + purchase ↓	Total Natural Gas ↓	Total ALL Coal (excluding Coal Coke & Breeze) ↓
158. Is the total quantity in question 157 equal to zero?	511	<input type="checkbox"/> 1. Yes: Skip to question 160. <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 160. <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 160. <input type="checkbox"/> 2. No
159. Referring to the quantity shown in question 157, please check all the reasons that made this quantity unswitchable.				
The boilers, heaters, or other fuel-consuming equipment are NOT <u>capable</u> of using another fuel for at least part of the operations during the year.	526	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Switching to the usable alternatives would adversely affect the products.	528	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Although the heating equipment could use another fuel, there was no readily available supply of it during at least part of the year.	533	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Environmental restrictions related to air quality limit the amount of the physically usable alternative fuel that could be used instead.	534	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
A long-term contract is in-place that requires the purchase of certain amounts of this fuel in any case.	536	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Storage of usable alternative fuels is not available due to potential environmental impact of storage tanks.	537	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Other	999	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Please specify other:	998	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>

Fuel Switching Capability: Electricity, Natural Gas, and Total Coal

	"Census Use Only"	(10)	(30)	(46)
		Total Electricity Received Transfers + purchase ↓	Total Natural Gas ↓	Total ALL Coal (excluding Coal Coke & Breeze) ↓
<p>160. Enter the results of subtracting the quantity reported in question 157 from the quantity reported in question 155.</p> <p>This represents the total quantity of energy consumption that could have been replaced in 30 days by one or more alternative energy sources in 2014.</p> <p>Note: the sum of the quantities in question 162 through 169 should equal or exceed this quantity.</p>	520	<input style="width: 100px; height: 20px;" type="text"/> Kilowatthours	<input style="width: 100px; height: 20px;" type="text"/> Units	<input style="width: 100px; height: 20px;" type="text"/> Short tons
<p>161. Is the total quantity reported in question 160 greater than zero?</p>	521	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to next section.
<p>162. Of the quantity switchable in question 160 what is the maximum amount that could have been replaced by <u>electricity</u>?</p>	530		<input style="width: 100px; height: 20px;" type="text"/> Units	<input style="width: 100px; height: 20px;" type="text"/> Short tons
<p>163. Of the quantity reported as switchable in question 160 what is the maximum amount that could have been replaced by <u>total coal, excluding coal coke and breeze</u>?</p>	670	<input style="width: 100px; height: 20px;" type="text"/> Kilowatthours	<input style="width: 100px; height: 20px;" type="text"/> Units	
<p>164. Of the quantity reported as switchable in question 160 what is the maximum amount that could have been replaced by <u>total coal coke and breeze, excluding coal</u>?</p>	690	<input style="width: 100px; height: 20px;" type="text"/> Kilowatthours	<input style="width: 100px; height: 20px;" type="text"/> Units	
<p>165. Of the quantity reported as switchable in question 160 what is the maximum amount that could have been replaced by <u>natural gas</u>?</p>	570	<input style="width: 100px; height: 20px;" type="text"/> Kilowatthours		<input style="width: 100px; height: 20px;" type="text"/> Short tons

Fuel Switching Capability: Electricity, Natural Gas, and Total Coal

	"Census Use Only"	(10)	(30)	(46)
		Total Electricity Received Transfers + purchase ↓	Total Natural Gas ↓	Total ALL Coal (excluding Coal Coke & Breeze) ↓
166. Of the quantity reported as switchable in question 160 what is the maximum amount that could have been replaced by <u>total diesel fuel and distillate fuel oil</u> ?	590	<input type="text"/> Kilowatthours	<input type="text"/> Units	<input type="text"/> Short tons
167. Of the quantity reported as switchable in question 160 what is the maximum amount that could have been replaced by <u>liquefied petroleum gas (LPG)</u> ?	610	<input type="text"/> Kilowatthours	<input type="text"/> Units	<input type="text"/> Short tons
168. Of the quantity reported as switchable in question 160 what is the maximum amount that could have been replaced by <u>residual fuel oil</u> ?	630	<input type="text"/> Kilowatthours	<input type="text"/> Units	<input type="text"/> Short tons
169. Of the quantity reported as switchable in question 160 what is the maximum amount that could have been replaced by any other energy source not already asked about?	650	<input type="text"/> Kilowatthours	<input type="text"/> Units	<input type="text"/> Short tons
Please Specify:	990	<input type="text"/>	<input type="text"/>	<input type="text"/>

Fuel Switching Capability: Electricity, Natural Gas, and Total Coal

What is the lowest percentage of price difference of the less expensive substitute that would cause your establishment to switch from this fuel, regardless of whether or not your establishment actually switched energy sources during 2014 or did so because of a less expensive substitute? (If you have more than one possible alternative for the energy source, choose the fuel that would be your most preferred alternative.)

The formula for percentage of price difference is:

- Percent of Price Difference = $((PC-PA)/PC) * 100\%$
- Where PC = Price per British thermal unit of current fuel
- PA = Price per British thermal unit of alternative fuel

	"Census Use Only"	(10)	(30)	(46)
		Total Electricity Received	Total Natural Gas	Total ALL Coal
		Transfers + purchase		(excluding Coal Coke & Breeze)
	622	↓	↓	↓
Check one for each energy source (column) reported				
170. Would not switch regardless of price difference.		<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Would switch at price difference 1-10 percent.		<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
Would switch at price difference 11-25 percent.		<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
Would switch at price difference 26-50 percent.		<input type="checkbox"/> 4	<input type="checkbox"/> 4	<input type="checkbox"/> 4
Would switch at price difference over 50 percent.		<input type="checkbox"/> 5	<input type="checkbox"/> 5	<input type="checkbox"/> 5
Reasonable estimates cannot be provided.		<input type="checkbox"/> 6	<input type="checkbox"/> 6	<input type="checkbox"/> 6
Would switch to the more expensive substitute if price premium were reasonable.		<input type="checkbox"/> 7	<input type="checkbox"/> 7	<input type="checkbox"/> 7

Fuel Switching Capability: Total LPG & NGL, Diesel & Distillate and Residual

- Capability to use substitute energy sources means that this establishment's combustors (for example, boilers, furnaces, ovens, blast furnaces) had the equipment, either in place or available for installation in 2014, so that substitutions could actually have been introduced within 30 days without extensive modifications.
- Include switching capability that could have resulted from the use of redundant and/or standby combustors, and from combustors that were already equipped to fire alternative fuels.
- In addition to the capability of your equipment, when formulating your estimates:
 - Make sure to consider both the equipment limitations of your boilers, heaters, and combustors and any other practical reasons when determining the availability of supply during 2014.

Equipment limitations include:

- The boilers, heaters, or other fuel-consuming equipment are not capable of using anything other than specify fuel for at least part of the operations.
- Although the boilers, heaters, or combustors would allow using another fuel, doing so would adversely affect a product. (e.g., altering the pigment in a paint-drying application).

Practical reasons include:

- There is no ready supply of an alternative energy source.
- Environmental restrictions related to air quality limit the amount of the physically usable alternative fuel that could be used instead.
- A long-term contract in-place that requires the purchase of certain amounts of the energy source in any case.
- Storage of alternative fuels is not available due to potential environmental impact of storage tanks.

- Do not limit your estimated capability by differences in relative prices of energy sources.

- This section is intended to measure your capability to switch, not whether you would switch if you could.
- When estimating your capability to substitute other fuels for electricity receipts, please consider the fuels that could be used to generate electricity onsite, as well as those that could be directly substituted in combustors.
- If records of fuel-switching capability are not regularly maintained, reasonable approximations are acceptable.
- Enter a zero if the fuel could not be switched for the specific energy source.
- Please proceed through this section column-by-column.

Fuel Switching Capability: Total LPG & NGL, Diesel & Distillate and Residual

The next four questions are designed as a worksheet. You will need to refer back to some sections of the form that you have already filled out to record the figures you have reported.

171. Referring back to the LPG section, question 52 page 20. Please add the quantity of reported butane, ethane, and propane consumed.	<input style="width: 90%; height: 20px;" type="text"/>
172. Referring back to the LPG section, question 59 page 22. Please add the quantity of reported mixtures and other LPG &NGL consumed.	<input style="width: 90%; height: 20px;" type="text"/>
173. Add lines from question 171 and 172 (question 171 + question 172). Enter the total in the box.	24503 <input style="width: 90%; height: 20px;" type="text"/>
174. Referring back to the Diesel and Distillate Fuel section, question 34 page 15. Please add the reported quantity of diesel and distillate fuel consumed. Enter the figure in the box.	22503 <input style="width: 90%; height: 20px;" type="text"/>
175. Referring back to the Residual Fuel section, question 43 page 17. Please enter the reported quantity of residual fuel consumed. Enter the figure in the box.	21503 <input style="width: 90%; height: 20px;" type="text"/>

	"Census Use Only"	(24)	(22)	(21)
		Total LPG & NGL	Total Diesel Fuel & Distillate Fuel Oil	Residual Fuel Oil
		↓	↓	↓
176. Enter the total quantity of the energy source (column) you reported as consumed during 2014. Copy this figure from the above worksheet questions.	500	<input style="width: 90%; height: 20px;" type="text"/> Gallons Enter figure from question 173.	<input style="width: 90%; height: 20px;" type="text"/> Barrels Enter figure from question 174.	<input style="width: 90%; height: 20px;" type="text"/> Barrels Enter figure from question 175.
177. Is the total quantity reported in question 176 greater than zero?	501	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to question 176, next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to question 176, next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to next section.
178. Enter the amount of the total quantity you reported in question 176 that could NOT have been replaced within 30 days by another energy source during 2014. Consider both the equipment limitations of your boilers, heaters, and combustors and any other practical reason. Do not consider differences in energy prices when estimating the amount.	510	<input style="width: 90%; height: 20px;" type="text"/> Gallons	<input style="width: 90%; height: 20px;" type="text"/> Barrels	<input style="width: 90%; height: 20px;" type="text"/> Barrels

Fuel Switching Capability: Total LPG & NGL, Diesel & Distillate and Residual

	"Census Use Only"	(24)	(22)	(21)
		Total LPG & NGL	Total Diesel Fuel & Distillate Fuel Oil	Residual Fuel Oil
		↓	↓	↓
179. Is the total quantity in question 178 equal to zero?	511	<input type="checkbox"/> 1. Yes: Skip to question 181. <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 181. <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 181. <input type="checkbox"/> 2. No
180. Referring to the quantity shown in question 178, please check all the reasons that made this quantity unswitchable.				
The boilers, heaters, or other fuel-consuming equipment are NOT <u>capable</u> of using another fuel for at least part of the operations during the year.	526	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Switching to the usable alternatives would adversely affect the products.	528	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Although the heating equipment could use another fuel, there was no readily available supply of it during at least part of the year.	533	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Environmental restrictions related to air quality limit the amount of the physically usable alternative fuel that could be used instead.	534	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
A long-term contract is in-place that requires the purchase of certain amounts of this fuel in any case.	536	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Storage of usable alternative fuels is not available due to potential environmental impact of storage tanks.	537	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Other	999	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Please specify other:	998	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>

Fuel Switching Capability: Total LPG & NGL, Diesel & Distillate and Residual

	"Census Use Only"	(24)	(22)	(21)
		Total LPG & NGL	Total Diesel Fuel & Distillate Fuel Oil	Residual Fuel Oil
		↓	↓	↓
<p>181. Enter the results of subtracting the quantity reported in question 178 from the quantity reported in question 176.</p> <p>This represents the total quantity of energy consumption that could have been replaced in 30 days by one or more alternative energy sources in 2014.</p> <p>Note: the sum of the quantities in question 183 through 190 should equal or exceed this quantity.</p>	520	<input type="text"/> Gallons	<input type="text"/> Barrels	<input type="text"/> Barrels
<p>182. Is the total quantity reported in question 181 greater than zero?</p>	521	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to next section.
<p>183. Of the quantity switchable in question 181 what is the maximum amount that could have been replaced by <u>electricity</u>?</p>	530	<input type="text"/> Gallons	<input type="text"/> Barrels	<input type="text"/> Barrels
<p>184. Of the quantity reported as switchable in question 181 what is the maximum amount that could have been replaced by <u>total coal, excluding coal coke and breeze</u>?</p>	670	<input type="text"/> Gallons	<input type="text"/> Barrels	<input type="text"/> Barrels
<p>185. Of the quantity reported as switchable in question 181 what is the maximum amount that could have been replaced by <u>total coal coke and breeze, excluding coal</u>?</p>	690	<input type="text"/> Gallons	<input type="text"/> Barrels	<input type="text"/> Barrels
<p>186. Of the quantity reported as switchable in question 181 what is the maximum amount that could have been replaced by <u>natural gas</u>?</p>	570	<input type="text"/> Gallons	<input type="text"/> Barrels	<input type="text"/> Barrels

Fuel Switching Capability: Total LPG & NGL, Diesel & Distillate and Residual

	"Census Use Only"	(24)	(22)	(21)
		Total LPG & NGL	Total Diesel Fuel & Distillate Fuel Oil	Residual Fuel Oil
		↓	↓	↓
187. Of the quantity reported as switchable in question 181 what is the maximum amount that could have been replaced by <u>total diesel fuel and distillate fuel oil</u> ?	590	<input type="text"/> Gallons		<input type="text"/> Barrels
188. Of the quantity reported as switchable in question 181 what is the maximum amount that could have been replaced by <u>liquefied petroleum gas (LPG)</u> ?	610		<input type="text"/> Barrels	<input type="text"/> Barrels
189. Of the quantity reported as switchable in question 181 what is the maximum amount that could have been replaced by <u>residual fuel oil</u> ?	630	<input type="text"/> Gallons	<input type="text"/> Barrels	
190. Of the quantity reported as switchable in question 181 what is the maximum amount that could have been replaced by any other energy source not already asked about?	650	<input type="text"/> Gallons	<input type="text"/> Barrels	<input type="text"/> Barrels
Please Specify:	990	<input type="text"/>	<input type="text"/>	<input type="text"/>

Fuel Switching Capability: Total LPG & NGL, Diesel & Distillate and Residual

What is the lowest percentage of price difference of the less expensive substitute that would cause your establishment to switch from this fuel, regardless of whether or not your establishment actually switched energy sources during 2014 or did so because of a less expensive substitute? (If you have more than one possible alternative for the energy source, choose the fuel that would be your most preferred alternative.)

The formula for percentage of price difference is:

- Percent of Price Difference = $((PC-PA)/PC) * 100\%$
- Where PC = Price per British thermal unit of current fuel
- PA = Price per British thermal unit of alternative fuel

	"Census Use Only"	(24)	(22)	(21)
	622	Total LPG & NGL	Total Diesel Fuel & Distillate Fuel Oil	Residual Fuel Oil
		↓	↓	↓
Check one for each energy source (column) reported				
191. Would not switch regardless of price difference.		<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
Would switch at price difference 1-10 percent.		<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
Would switch at price difference 11-25 percent.		<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
Would switch at price difference 26-50 percent.		<input type="checkbox"/> 4	<input type="checkbox"/> 4	<input type="checkbox"/> 4
Would switch at price difference over 50 percent.		<input type="checkbox"/> 5	<input type="checkbox"/> 5	<input type="checkbox"/> 5
Reasonable estimates cannot be provided.		<input type="checkbox"/> 6	<input type="checkbox"/> 6	<input type="checkbox"/> 6
Would switch to the more expensive substitute if price premium were reasonable.		<input type="checkbox"/> 7	<input type="checkbox"/> 7	<input type="checkbox"/> 7

Energy-Management Activities

For questions 192 through 196:

Indicate with a “yes” or a “no” under the “Participate?” column whether your establishment participated in or used the specified type of energy-management assistance between January 1, 2014 and December 31, 2014.

For any assistance for which you marked “yes”, please mark the source(s) of assistance.

“In-house” means your establishment or company provided the energy-management assistance.

“Utility/Energy Supplier” refers to either your electricity, natural gas, or other energy supplier/provider.

“Product or Service Provider” includes any other third party product or service provider/supplier such as an equipment vendor, energy service company, or maintenance service company.

“Federal Program” includes assistance provided by federal government programs or agencies such as the Department of Energy (DOE), the Environmental Protection Agency (EPA), and the National Institute of Standards and Technology (NIST) Manufacturing Extension Partnership (MEP).

“State or Local Program” includes all assistance provided by a state, city, or county government program or agency.

Type of Energy-Management Assistance	Participate? (13)	Source of Assistance (check all that apply)				
		In-house (15)	Utility/ Energy Supplier (16)	Product or Service Provider (17)	Federal Program (18)	State or Local Program (19)
192. Energy audit or assessment	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (060)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
193. Technical assistance (e.g., consultation, demonstrations, engineering design or analysis)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (070)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
194. Technical information (e.g., software, reference material)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (072)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
195. Training (e.g., workshops, seminars, presentations)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (074)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
196. Financial assistance (e.g., loans, tax credits, rebates, subsidies)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (076)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>

Energy-Management Activities

For Questions 197 through 206:

Indicate with a “yes” or a “no” under the “Installed Equipment or Retrofit?” column whether your establishment installed equipment or any retrofits for the primary purpose of improving energy efficiency for the indicated system between January 1, 2014 and December 31, 2014. For any activity for which you marked “yes” please mark the source(s) of financial support for the activity. Please use sources defined above question 192.

System	Installed Equipment or Retrofit? (13)	Source of Assistance (check all that apply)				
		In-house (15)	Utility/ Energy Supplier (16)	Product or Service Provider (17)	Federal Program (18)	State or Local Program (19)
197. Steam systems (e.g., boilers, burners, insulation, piping, steam traps)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (120)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
198. Compressed air systems (e.g., compressor controls, drain traps, leak management, compressor or treatment equipment replacement)?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (450)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
199. Process heating systems (e.g., insulation repair, burner controls, furnace repair, refractory replacement)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (140)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
200. Process cooling and refrigeration systems (e.g., insulation repair, use of free cooling, implementation of VSDs, refrigerant pressure balancing)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (160)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
201. Pumping systems (e.g., adjustable speed drives, impeller trimming, leak repair, repair/replace seals, pump load staging)?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (180)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
202. Fan systems (e.g., replace belts, adjustable speed drives, bearing replacement and lubrication, upgrade to higher efficiency motor, fan load staging)?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (180)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
203. Other process motor driven systems (e.g., belts replaced, replacement with higher efficiency motor, shaft re-alignment, motor downsizing)?	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (180)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
204. Computing systems (e.g., increasing server operating temperatures, consolidating applications and server closets, power management, use of free cooling)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (180)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>

System	Installed Equipment or Retrofit? (13)	Source of Assistance (check all that apply)				
		In-house (15)	Utility/ Energy Supplier (16)	Product or Service Provider (17)	Federal Program (18)	State or Local Program (19)
205. Facility HVAC system (e.g., check filters, belts, duct maintenance, setback controls, equipment replacement and upgrade)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (200)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
206. Facility lighting (e.g., occupancy controls, daylight harvesting, efficient lamp upgrade)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (220)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>

Energy-Management Activities

For Questions 207 through 224:

These questions are intended to assess the awareness and implementation of energy management activities at your establishment. Please answer the following questions with respect to any activities implemented between January 1, 2014 and December 31, 2014.

<p>207. Which statement best describes this establishment's management decision making</p> <ul style="list-style-type: none"> a. <input type="checkbox"/> Energy use and consumption evaluated over its total life cycle b. <input type="checkbox"/> Energy use and consumption is increasingly becoming a higher priority for the company c. <input type="checkbox"/> Management from time to time has supported projects to improve energy use and consumption d. <input type="checkbox"/> Energy use and consumption are rarely a part of management decision making 	(xxxxx)
<p>208. Is establishment management aware of programs (i.e., public or utility) dedicated to improving energy use and consumption? (Check all that apply)</p> <ul style="list-style-type: none"> a. <input type="checkbox"/> Superior Energy Performance b. <input type="checkbox"/> Better Buildings, Better Plants c. <input type="checkbox"/> ENERGY STAR d. <input type="checkbox"/> State/regional industrial energy program(s) e. <input type="checkbox"/> Utility strategic energy management program(s) 	(xxxxx)
<p>209. Is the establishment aware of ISO 50001?</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No (xxxxx)</p>
<p>210. (If yes to 209) Is the establishment implementing ISO 50001?</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No (xxxxx)</p>
<p>211. (If yes to 209 and no to 210) Is the establishment planning to implement ISO 50001?</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No (xxxxx)</p> <p>3 <input type="checkbox"/> Don't Know</p>
<p>212. Does the establishment consider energy efficiency in procurement specification?</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No (xxxxx)</p> <p>3 <input type="checkbox"/> Don't Know</p>

<p>213. Does the establishment have an energy consumption baseline for comparing energy consumption in future years?</p>	<p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No (13470) 3 <input type="checkbox"/> Don't Know</p>
<p>214. Does the establishment set goals for improving energy use and consumption?</p>	<p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No (13470) 3 <input type="checkbox"/> Don't Know</p>
<p>215. If yes to question 214, are these goals quantitative (e.g., 10% improvement)?</p>	<p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No (13470) 3 <input type="checkbox"/> Don't Know</p>
<p>216. If yes to question 214, which of the following policies influenced energy use/consumption goals set for this establishment (check all that apply):</p> <p>a. <input type="checkbox"/> Legal requirements</p> <p>b. <input type="checkbox"/> Voluntary programs</p> <p>c. <input type="checkbox"/> Corporate policy</p> <p>d. <input type="checkbox"/> Customer requirements</p>	<p>(xxxxx)</p>
<p>217. Does the establishment develop key performance indicators and metrics relative to energy (metrics that can be track to better understand changes over time in energy consumption)?</p>	<p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No (xxxxx) 3 <input type="checkbox"/> Don't Know</p>
<p>218. Does management at this establishment assign a representative(s) to be responsible for energy management?</p>	<p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No (xxxxx) 3 <input type="checkbox"/> Don't Know</p>
<p>219. If yes to question 218, what percentage of the designated representative(s) job responsibilities are related to managing energy (if more than one person responsible, use average across all persons)?</p> <p>1. <input type="checkbox"/> <25%</p> <p>2. <input type="checkbox"/> 25%-49%</p> <p>3. <input type="checkbox"/> 50%-74%</p> <p>4. <input type="checkbox"/> 75%-99%</p> <p>5. <input type="checkbox"/> 100%</p>	<p>(xxxxx)</p>

<p>220. Does the establishment have submetering (metering beyond the main utility, revenue or supplier meter)?</p> <p>a. <input type="checkbox"/> Electric</p> <p>b. <input type="checkbox"/> Natural Gas</p> <p>c. <input type="checkbox"/> Other _____</p>	<p>(xxxxx)</p>
<p>221. Does the establishment have a methodology and criteria for prioritizing improvements to energy use/consumption?</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No (xxxxx)</p> <p>3 <input type="checkbox"/> Don't Know</p>
<p>222. Between Jan 1,2014 and December 31, 2014, has the establishment conducted an audit on any energy system to identify potential energy saving opportunities?</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No (xxxxx)</p> <p>3 <input type="checkbox"/> Don't Know</p>
<p>223. If yes, which systems (check all that apply)?</p> <p>a. <input type="checkbox"/> Pumping systems</p> <p>b. <input type="checkbox"/> Compressed air systems</p> <p>c. <input type="checkbox"/> Process heating systems</p> <p>d. <input type="checkbox"/> Steam systems</p> <p>e. <input type="checkbox"/> Fan systems</p> <p>f. <input type="checkbox"/> Process cooling and refrigeration systems</p> <p>g. <input type="checkbox"/> Computing systems</p> <p>h. <input type="checkbox"/> Facility HVAC</p> <p>i. <input type="checkbox"/> Facility lighting</p> <p>j. <input type="checkbox"/> Other direct machine drives</p> <p>k. <input type="checkbox"/> Plant wide</p>	<p>(xxxxx)</p>
<p>224. For capital investment projects, what is the establishment's maximum simple payback (time period in years typically calculated as implementation cost divided by annual cost savings) that is currently allowed?</p> <p>1. <input type="checkbox"/> 1 year</p> <p>2. <input type="checkbox"/> 1-2 years</p> <p>3. <input type="checkbox"/> 2-3 years</p> <p>4. <input type="checkbox"/> 3-4 years</p> <p>5. <input type="checkbox"/> > 4 years</p> <p>6. <input type="checkbox"/> Have no such requirement</p> <p>7. <input type="checkbox"/> Do no know</p>	<p>(xxxxx)</p>

Energy-Management Activities

225. Does your establishment measure oxygen and carbon dioxide (or combustible) levels in boiler and other fuel fired heating equipment flue gasses to “tune” the burners?

- 1 Yes
 2 No (13476)
 3 Don't Know

226. Does your establishment use the flue gases from fuel fired heating equipment to preheat combustion air, preheat charge equipment/material, or provide heat for other processes in your establishment?

- 1 Yes
 2 No (13477)
 3 Don't Know

227. Does your establishment's process heating system maintenance program include the following activities?

a. Furnace inspections to seal openings and repair cracks and damaged insulation in furnace walls, doors, etc.

- 1 Yes
 2 No (13478)
 3 Don't Know

b. Cleaning of heat transfer surfaces to avoid build up of soot, scale, or other material.

- 1 Yes
 2 No (13479)
 3 Don't Know

c. Inspecting, calibrating, and adjusting temperature/pressure sensors, controllers, valve operators, etc.

- 1 Yes
 2 No (13480)
 3 Don't Know

228. Do you keep an inventory of all motors in your establishment?

- 1 Yes
 2 No (13481)
 3 Don't Know

229. Does your establishment have staff or equipment dedicated to detecting and controlling compressed air system leaks?

- 1 Yes
 2 No (13483)
 3 Don't Know

230. Does your establishment track the amount of energy spent in compressed air systems?

- 1 Yes
 2 No (13484)
 3 Don't Know

<p>213. Does the establishment have an energy consumption baseline for comparing energy consumption in future years?</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No (13470)</p> <p>3 <input type="checkbox"/> Don't Know</p>
<p>214. Does the establishment set goals for improving energy use and consumption?</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No (13470)</p> <p>3 <input type="checkbox"/> Don't Know</p>
<p>215. If yes to question 214, are these goals quantitative (e.g., 10% improvement)?</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No (13470)</p> <p>3 <input type="checkbox"/> Don't Know</p>
<p>216. If yes to question 214, which of the following policies influenced energy use/consumption goals set for this establishment (check all that apply):</p> <p>e. <input type="checkbox"/> Legal requirements</p> <p>f. <input type="checkbox"/> Voluntary programs</p> <p>g. <input type="checkbox"/> Corporate policy</p> <p>h. <input type="checkbox"/> Customer requirements</p>	<p>(xxxxx)</p>
<p>217. Does the establishment develop key performance indicators and metrics relative to energy (metrics that can be track to better understand changes over time in energy consumption)?</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No (xxxxx)</p> <p>3 <input type="checkbox"/> Don't Know</p>
<p>218. Does management at this establishment assign a representative(s) to be responsible for energy management?</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No (xxxxx)</p> <p>3 <input type="checkbox"/> Don't Know</p>
<p>219. If yes to question 218, what percentage of the designated representative(s) job responsibilities are related to managing energy (if more than one person responsible, use average across all persons)?</p> <p>6. <input type="checkbox"/> <25%</p> <p>7. <input type="checkbox"/> 25%-49%</p> <p>8. <input type="checkbox"/> 50%-74%</p> <p>9. <input type="checkbox"/> 75%-99%</p> <p>10. <input type="checkbox"/> 100%</p>	<p>(xxxxx)</p>

Energy Technologies

231. Were any of the following technologies in use at your establishment anytime during 2014?	"Census Use Only"	
a. Computer control of building-wide environment (e.g., space-heating equipment, cooling equipment, lights).	14010	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
b. Computer control of processes or major energy-using equipment (e.g., boilers, furnaces, conveyors used in the manufacturing process).	14020	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
c. Waste heat recovery.	14030	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
d. Adjustable-speed motors.	14040	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
e. Oxy-fuel firing.	14950	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
232. Does your establishment have procedures in place to temporarily reduce electricity consumption in times of critical grid conditions (i.e., when the electric utility has indicated a need to reduce electric demand)?		<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
233. Are there controls in place to automate any procedures for reducing electricity demand in times of critical grid conditions (i.e., when the electric utility has indicated a need to reduce demand)?		<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know

Energy Technologies

234. Were any of the following technologies associated with cogeneration in use at your establishment anytime during 2014?	"Census Use Only"	
a. Steam turbines supplied by either conventional or fluidized bed boilers.	14042	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
b. Conventional combustion turbines with heat recovery.	14043	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
c. Combined-cycle combustion turbines.	14044	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
d. Internal combustion engines with heat recovery.	14045	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
e. Steam turbines supplied by heat recovered from high-temperature processes.	14046	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know

Establishment Size

235. How many buildings were on this establishment site as of December 31, 2014? Buildings include: structures enclosed by walls extending from the foundation to the roof, parking garages, even if not totally enclosed by walls and a roof, or structures erected on pillars to elevate the first fully enclosed level. Excluded buildings are: structures (other than the exceptions noted above) that are not totally enclosed by walls and a roof, mobile homes and trailers, even if they house manufacturing activity, structures not ordinarily intended to be entered by humans, such as storage tanks, or non-buildings that consume energy (such as pumps and constructions sites).	"Census Use Only" 17010	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p style="text-align: center;">Number of Buildings</p>
236. What was the approximate total enclosed square footage of the buildings located on this establishment site as of December 31, 2014?	13010	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p style="text-align: center;">Total square feet</p>

Remarks

237. Please use this space for any explanations that may be essential in understanding your reported data. If additional space is needed, attach a separate sheet, including the 10-digit Survey ID located on the mailing label on the front of this questionnaire.

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