

Cover Sheet

2010 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

OMB Approval
No. 1905-0169

Expires:
10/31/2013

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. **Please staple all sections and pages of your establishment's questionnaire to this cover sheet. Please include one cover sheet for each establishment that has a label.** 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 any Agency or Department of the United States 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 (1905-0169) 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

Contact Information			
Date	Telephone		
	Area Code	Number	Ext.
	<input type="text"/>	<input type="text" value="-"/>	<input type="text"/>
Name of person to contact regarding this questionnaire			
Title of contact person (above)			
Address (number and street)			
City	State	Zip Code + 4	
E-mail address			

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 PDF on the Census Bureau's Business Help Site 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 each section, 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 2010 and indicate the period covered by this filing, whether the calendar year or other period.

Instructions for Completing Form EIA-846, cont.

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.

Fuels Used

In this section, indicate which energy sources (fuels) are used at the establishment for:

- heat, power, electricity generation, and on-site transportation;
- material inputs, feedstock, and “nonfuel” use; and
- shipments offsite from this establishment when required.

If you are using PDF's to complete this questionnaire, this section will help you to determine which energy source PDF's need to be printed off from the Business Help Site and completed. However, if you are using Census Taker to complete this questionnaire, the programming will automatically take you to the energy sources which you have checked in this section.

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
 - Distillate fuel oil; and
 - Residual fuel oil.

If your only means of an energy source during 2010 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)
- Propane and Liquefied Petroleum Gases (LPG) and Natural Gas Liquids (NGL)
 - Butane

Instructions for Completing Form EIA-846, cont.

- Ethane
 - Propane
 - Mixtures of Butane, Ethane, and Propane
 - Other LPG and NGL which includes butylenes, ethylene, and propylene
- Coal
Breeze
Coal Coke
Petroleum Coke
Motor Gasoline (excluding off-site highway use)
Acetylene
Hydrogen
Kerosene
Wood Harvested directly from trees (e.g., roundwood, wood chips)
- 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)
 - Agricultural Waste (e.g., bagasse, nut shells, orchard prunings, rice hulls)
 - Pulping and Black Liquor
 - 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 2010. 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 2010 and the source(s) of the financial support to implement the energy-management activity.

Technologies

Indicate any of the general technologies and technologies related to cogeneration present in this establishment.

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.

If you are filing this questionnaire using the PDF's on the Business Help Site and additional space is needed, attach a separate sheet, including the 10-digit identification number located on the mailing label on the front page of this questionnaire.

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 Section: 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 2010.

The Btu equivalent is:
 (250 cubic feet) x (325.11 Btu/cubic foot)
 = 81,277.5 Btu
 = 0.0813 million Btu

- Your establishment consumed 300 pounds of hydrogen in 2010.

The Btu equivalent is:
 (300 pounds) x (61,084 Btu/pound)
 = 18,325,200 Btu
 = 18.325 million Btu

Energy Source	Conversion Factor(s)
Acetylene	21,600 Btu/pound 1,500 Btu/cubic foot
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/kilowatt-hour
Ethane	3.082 million Btu/barrel 0.07338 million Btu/gallon
Hydrogen	61,084 Btu/pound 325.11 Btu/cubic foot 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 foot
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

<i>Establishment Information</i>			
1.	Did ownership of this establishment change during 2010?	“Census Use Only” 00011	<input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes: Establishment was sold during the year. <i>Complete all sections of this questionnaire for activities that occurred in 2010 prior to the sale.</i> <input type="checkbox"/> 3. Yes: Establishment was bought during the year. <i>Complete all sections of this questionnaire for activities that occurred in 2010 after the sale.</i>
2.	What best describes this establishment at the end of 2010?	00010	<input type="checkbox"/> 1. In operation: Skip to question 6 <input type="checkbox"/> 2. Ceased operation: Answer question 3 then skip to question 6. <input type="checkbox"/> 3. Sold or leased to another operator: Skip to question 4.
3.	Enter the date in which your establishment ceased operation.	00013	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Enter Date (mm-dd-yyyy)
4.	Enter the date in which your establishment was either sold or leased to another operator.	00014	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Enter Date (mm-dd-yyyy)

Establishment Information

Establishment Information

5.	Enter the following information only if this establishment was sold or leased to another operator during 2010.		
00015	Name of new owner or operator		
00017	Address		
00018	City		
00019	State	Zip (Zip +4)	Employer Identification Number (9 Digit EIN)
	00020	00021	00016
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, 2010 to December 31, 2010.		00022
	From:		(mm-dd-yyyy)
	To:		(mm-dd-yyyy)

Electricity

Electricity: Total Purchased

1.	Enter the total quantity of electricity purchased by and delivered to this establishment during 2010, regardless of when payment was made.	"Census Use Only" 10061	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Kilowatthours
2.	Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the purchased electricity reported in question 1.	10062	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px; display: flex; align-items: center;"> \$ </div> U.S. Dollars

Electricity: Source of Purchase

3.	During 2010, where did this establishment's purchased electricity come from? 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. Non-utility: includes generators of electricity such as independent power producers, small power producers. It also includes brokers, marketers, marketing subsidiaries of utilities, or co-generators not owned by your company.	10015	<input type="checkbox"/> 1. All local utility: Answer question 4 then skip to question 7 <input type="checkbox"/> 2. All non-utility: Answer question 4 then skip to question 7 <input type="checkbox"/> 3. Both
4.	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.		
5.	Enter the quantity of your total purchased electricity that was purchased from a local utility during 2010.	10010	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Kilowatthours
6.	Enter the total expenditures of your purchased electricity that was paid to a local utility.	10020	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px; display: flex; align-items: center;"> \$ </div> U.S. Dollars

Electricity: Transfers In

7.	Enter the total quantity of electricity 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). 	10050	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> Kilowatthours
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Electricity

Electricity: Generated On-site

8.	Enter the quantity of electricity generated on-site from each of the following:		
		“Census Use Only”	Kilowatthours
	<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	
	<ul style="list-style-type: none"> • Solar Power 	10081	
	<ul style="list-style-type: none"> • Wind Power 	10082	
	<ul style="list-style-type: none"> • Hydropower 	10083	
	<ul style="list-style-type: none"> • Geothermal Power 	10084	
	<ul style="list-style-type: none"> • Other (for example, electricity generated by diesel generators) 	10090	

Electricity: Sales and Transfers Offsite

9.	<p>Enter the quantity of electricity sold or transferred out of this establishment to utilities during 2010.</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 co-generators not located at this establishment.</p>	10110	<div style="border: 1px solid black; height: 20px; width: 100%; margin-bottom: 5px;"></div> <p>Kilowatthours</p>
10.	<p>Enter the quantity of electricity sold or transferred out of this establishment to any non-utilities during 2010.</p> <p>Include:</p> <ul style="list-style-type: none"> • Sales to independent power producers, small power producers, brokers, marketers, marketing subsidiaries of utilities, or co-generators not located at this establishment. • Quantities exchanged for the same or any other energy source. 	10120	<div style="border: 1px solid black; height: 20px; width: 100%; margin-bottom: 5px;"></div> <p>Kilowatthours</p>

Electricity

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 1 [Purchases] + Question 7 [Transfers] + Question 8 [Generated] – (Question 9 + 10)[Sales and Transfers Offsite]

	Enter the percentage of total electricity that this establishment consumed for the following:		
11.	<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”	Electricity
	<ul style="list-style-type: none"> • Boiler fuel (includes fuels used for thermal outputs) 	10710	%
	<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) 	10720	%
	<ul style="list-style-type: none"> • Process cooling and refrigeration 	10730	%
	<ul style="list-style-type: none"> • Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment) 	10740	%
	<ul style="list-style-type: none"> • Electro-chemical processes (e.g., reduction process) 	10750	%
	<ul style="list-style-type: none"> • Other direct process use: <div style="display: flex; align-items: center; margin-top: 5px;"> 10761 Please specify: <input style="width: 200px; height: 15px;" type="text"/> </div> 	10760	%
	<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 	10770	%
	<ul style="list-style-type: none"> • Facility lighting 	10780	%
	<ul style="list-style-type: none"> • Facility support other than that reported above (e.g.: cooking, water heating, office equipment) 	10790	%
	<ul style="list-style-type: none"> • On-site transportation, excluding highway usage 	10800	%
	<ul style="list-style-type: none"> • Other direct non-process use: <div style="display: flex; align-items: center; margin-top: 5px;"> 10821 Please specify: <input style="width: 200px; height: 15px;" type="text"/> </div> 	10820	%
			TOTAL 100%

Natural Gas

Natural Gas: Units

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

2.	<p>Enter the total quantity of natural gas purchased by and delivered to this establishment during 2010, regardless of when payment was made.</p>	30010	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p style="text-align: center;">Units</p>
3.	<p>Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the purchased natural gas reported in question 2.</p>	30020	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p style="text-align: center;">U.S. Dollars</p>

Natural Gas: Source of Purchase

4.	<p>During 2010, 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>	30015	<input type="checkbox"/> 1. All local utility: Answer question 5 then skip to question 8 <input type="checkbox"/> 2. All non-utility: Answer question 5 then skip to question 8 <input type="checkbox"/> 3. Both
5.	<p>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>	30016	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>
6.	<p>Enter the quantity of your total purchased natural gas that was purchased from a local utility during 2010.</p>	31010	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p style="text-align: center;">Units</p>
7.	<p>Enter the total expenditures of your purchased natural gas that was paid to a local utility.</p>	31020	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p style="text-align: center;">U.S. Dollars</p>

Natural Gas

Natural Gas: Transferred In and Produced On-site

8.	<p>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; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>Units</p>
9.	<p>Enter the quantity of natural gas that was both produced on-site during 2010 as output from a captive (on-site) well, and was at least partially consumed on-site (as a fuel or nonfuel).</p>	<p>30040</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>Units</p>

Natural Gas: Consumption

10.	<p>Enter the total quantity of natural gas consumed as a fuel at this establishment during 2010.</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; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>Units</p>
11.	<p>Enter the total quantity of natural gas consumed for any purpose other than fuel use at this establishment during 2010.</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; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>Units</p>

Natural Gas

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 10 (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.

12.	Enter the percentage of total natural gas (from question 10) 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	%
	<ul style="list-style-type: none"> • Other boiler fuel (not included above) (includes fuels used for thermal outputs only) 	30710	%
	<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	%
	<ul style="list-style-type: none"> • Process cooling and refrigeration 	30730	%
	<ul style="list-style-type: none"> • Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment) 	30740	%
	<ul style="list-style-type: none"> • Other direct process use: <div style="text-align: right; margin-right: 20px;">30761 <input style="width: 150px; height: 15px;" type="text"/></div> Please specify: <input style="width: 200px; height: 15px;" type="text"/> 	30760	%
	<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	%
	<ul style="list-style-type: none"> • Facility support other than that reported above (e.g.: cooking, water heating, office equipment) 	30790	%
	<ul style="list-style-type: none"> • On-site transportation, excluding highway usage 	30800	%
	<ul style="list-style-type: none"> • Conventional electricity generation 	30810	%
	<ul style="list-style-type: none"> • Other direct non-process use: <div style="text-align: right; margin-right: 20px;">30821 <input style="width: 150px; height: 15px;" type="text"/></div> Please specify: <input style="width: 200px; height: 15px;" type="text"/> 	30820	%
			TOTAL 100%

Diesel or Distillate Fuel Oil

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) ↓
1.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	010	<input style="width: 90%; height: 20px;" type="text"/> Barrels	<input style="width: 90%; height: 20px;" type="text"/> Barrels
2.	Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 1.	020	\$ <input style="width: 90%; height: 20px;" type="text"/> U.S. Dollars	\$ <input style="width: 90%; height: 20px;" type="text"/> U.S. Dollars
3.	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: 90%; height: 20px;" type="text"/> Barrels	<input style="width: 90%; height: 20px;" type="text"/> Barrels
4.	Enter the quantity of the energy source produced on-site during 2010.	040	<input style="width: 90%; height: 20px;" type="text"/> Barrels	<input style="width: 90%; height: 20px;" type="text"/> Barrels

Diesel or Distillate Fuel Oil

Diesel or Distillate Fuel: Consumption

		“Census Use Only”	(28)	(29)
			Total Diesel Fuel (exclude off-site highway) ↓	Total Distillate Fuel (numbers 1, 2, & 4) ↓
5.	Enter the total quantity of the energy source consumed as a fuel at this establishment during 2010. 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
6.	Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2010. 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: Shipments

7.	Enter the quantity of the energy source shipped off-site during 2010.	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: Storage Capacity

8.	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

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 5 (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.

9.	Enter the percentage of the total energy source (question 5 column 1 + question 5 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
	● Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process	22705	%
	● Other boiler fuel (not included above) (includes fuels used for thermal outputs only)	22710	%
	<i>Direct Uses –Process: direct process use includes usage in motors, ovens, kilns, and strip heaters.</i>		
	● Process heating (e.g., kilns, furnaces, ovens, strip heaters)	22720	%
	● Process cooling and refrigeration	22730	%
	● Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment)	22740	%
	● Other direct process use: 22762 Please specify: <input style="width: 200px; height: 20px;" type="text"/>	22760	%
	<i>Direct Uses – Non-process: direct non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).</i>		
	● Facility heating, ventilation, and air conditioning	22770	%
	● Facility support other than that reported above (e.g.: cooking, water heating, office equipment)	22790	%
	● On-site transportation, excluding highway usage	22800	%
	● Conventional electricity generation	22810	%
	● Other direct non-process use: 22822 Please specify: <input style="width: 200px; height: 20px;" type="text"/>	22820	%
			TOTAL 100%

Residual Fuel Oil

Residual Fuel Oil: Total Purchased, Transferred and Produced

		“Census Use Only”	Residual Fuel Oil (numbers 5, 6, Navy Special and Bunker C) ↓
1.	Enter the total quantity of residual fuel purchased by and delivered to this establishment during 2010, regardless of when payment was made.	21010	<input style="width: 100%; height: 20px;" type="text"/> Barrels
2.	Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the purchased residual fuel reported in question 1.	21020	\$ <input style="width: 100%; height: 20px;" type="text"/> U.S. Dollars
3.	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
4.	Enter the quantity of residual fuel produced on-site during 2010.	21040	<input style="width: 100%; height: 20px;" type="text"/> Barrels

Residual Fuel Oil: Consumption

5.	Enter the total quantity of residual fuel consumed as a fuel at this establishment during 2010. 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.	21060	<input style="width: 100%; height: 20px;" type="text"/> Barrels
6.	Enter the total quantity of residual fuel consumed for any purpose other than fuel use at this establishment during 2010. 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

Residual Fuel Oil: Shipments

7.	Enter the quantity of residual fuel shipped off-site during 2010.	21080	<input style="width: 90%; height: 20px;" type="text"/> Barrels
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Residual Fuel Oil: Storage Capacity

8.	Enter the shell or design storage capacity of all the storage tanks located on-site as of 12/31/10.	21090	<input style="width: 90%; 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 5 (*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.

9.	Enter the percentage of total residual fuel (from question 5) 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
	•Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process	21705	%
	•Other boiler fuel (not included above) (<i>includes fuels used for thermal outputs</i>)	21710	%
	<i>Direct Uses – Process: direct process use includes usage in motors, ovens, kilns, and strip heaters.</i>		
	•Process heating (e.g., kilns, furnaces, ovens, strip heaters)	21720	%
	•Process cooling and refrigeration	21730	%
	•Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment)	21740	%
	•Other direct process use: <div style="display: flex; justify-content: space-between; align-items: center;"> 21762 Please specify: <input style="width: 150px; height: 15px;" type="text"/> </div>	21760	%

Residual Fuel Oil

	“Census use Only”	Residual Fuel
<i>Direct Uses – Non-process: direct non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).</i>		
•Facility heating, ventilation, and air conditioning	21770	%
•Facility support other than that reported above (e.g.: cooking, water heating, office equipment)	21790	%
•Conventional electricity generation	21810	%
•Other direct non-process use: <div style="text-align: right; margin-right: 20px;">21822 <input style="width: 200px; height: 15px;" type="text"/></div> Please specify:	21820	%
		TOTAL 100%

Liquefied Petroleum Gas

Butane, Ethane, or Propane: Purchased, Transferred and Produced

		“Census Use Only”	(36)	(37)	(38)
			Butane ↓	Ethane ↓	Propane ↓
1.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	010	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons
2.	Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 1.	020	\$ <input style="width: 100px; height: 20px;" type="text"/> U.S. Dollars	\$ <input style="width: 100px; height: 20px;" type="text"/> U.S. Dollars	\$ <input style="width: 100px; height: 20px;" type="text"/> U.S. Dollars
3.	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: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons
4.	Enter the quantity of the energy source produced on-site during 2010.	040	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons

Liquefied Petroleum Gas

Butane, Ethane or Propane: Consumption

		"Census Use Only"	(36)	(37)	(38)
			Butane ↓	Ethane ↓	Propane ↓
5.	<p>Enter the total quantity of the energy source consumed as a fuel at this establishment during 2010.</p> <p>Include all uses that were used for the heat, power, and electricity generation. Also, include fuel consumed by vehicles intended primary for use on-site.</p>	060	<input type="text"/> Gallons	<input type="text"/> Gallons	<input type="text"/> Gallons
6.	<p>Enter the total quantity of the energy source consumed for any purpose other than fuel use in this establishment during 2010.</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 type="text"/> Gallons	<input type="text"/> Gallons	<input type="text"/> Gallons

Butane, Ethane or Propane: Shipments

7.	<p>Enter the quantity of the energy source shipped off-site during 2010.</p>	080	<input type="text"/> Gallons	<input type="text"/> Gallons	<input type="text"/> Gallons
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Liquefied Petroleum Gas

Total Mixtures or Other LPG: Purchased, Transferred

		“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) ↓
8.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	010	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons
9.	Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 8.	020	\$ <input style="width: 100px; height: 20px;" type="text"/> U.S. Dollars	\$ <input style="width: 100px; height: 20px;" type="text"/> U.S. Dollars
10.	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: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons

Liquefied Petroleum Gas

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) ↓
11.	Enter the quantity of the energy source produced on-site during 2010.	040	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons
12.	Enter the total quantity of the energy source consumed as a fuel at this establishment during 2010. 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"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons
13.	Enter the total quantity of the energy source consumed for any purpose other than fuel use in this establishment during 2010. 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"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons
14.	Enter the quantity of the energy source shipped off-site during 2010.	080	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons

Liquefied Petroleum Gas

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 question 5 + 12 (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.

15.	Enter the percentage of total energy source (question 5 column 1 + question 5 column 2 + question 5 column 3 + question 12 column 1 + question 12 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”	Total LPG and NGL
	● Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process	24705	%
	● Other boiler fuel (not included above) (includes fuels used for thermal outputs only)	24710	%
	<i>Direct Uses- Process: direct process use includes usage in motors, ovens, kilns, and strip heaters.</i>		
	● Process heating (e.g., kilns, furnaces, ovens, strip heaters)	24720	%
	● Process cooling and refrigeration	24730	%
	● Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment)	24740	%
	● Other direct process use: 24762 <input style="width: 200px; height: 20px;" type="text"/> Please specify:	24760	%
	<i>Direct Uses- Non-process: direct non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).</i>		
	● Facility heating, ventilation, and air conditioning	24770	%
	● Facility support other than that reported above (e.g.: cooking, water heating, office equipment)	24790	%
	● On-site transportation, excluding highway usage	24800	%
	● Conventional electricity generation	24810	%
	● Other direct non-process use: 24822 <input style="width: 200px; height: 20px;" type="text"/> Please specify:	24820	%
			TOTAL 100%

Coal

Coal: Purchased, Transferred, and Produced

		"Census Use Only"	(40)	(41)	(42)
			Anthracite ↓	Bituminous and Subbituminous ↓	Lignite ↓
1.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	010	<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
2.	Enter the total expenditures; including all applicable taxes and delivery, management, transportation, and demand charges, for the quantity reported in question 1.	020	\$ <input style="width: 100px; height: 20px;" type="text"/> U.S. Dollars	\$ <input style="width: 100px; height: 20px;" type="text"/> U.S. Dollars	\$ <input style="width: 100px; height: 20px;" type="text"/> U.S. Dollars
3.	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: 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
4.	Enter the quantity of the energy source produced on-site during 2010.	040	<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

Coal: Consumption					
		“Census Use Only”	(40)	(41)	(42)
			Anthracite	Bituminous and Subbituminous	Lignite
			↓	↓	↓
5.	<p>Enter the total quantity of the energy source consumed as a fuel in this establishment during 2010.</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: 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
6.	<p>Enter the total quantity of the energy source consumed for any purpose other than fuel use in this establishment during 2010.</p> <p>Include all quantities consumed as lubricants, solvents or as raw materials, feedstocks, 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

Coal: Estimated End-Use Percent Consumption

The following questions refer to how this establishment consumed the energy source that was previously reported question 5 (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.

7.	Enter the percentage of the total energy source (question 5 column 1 + question 5 column 2 + question 5 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)
	Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process	46705	%
	Other boiler fuel (not included above) (includes fuels used for thermal outputs only)	46710	%
	<i>Direct Uses – Process: direct process use includes usage in motors, ovens, kilns, and strip heaters.</i>		
	• Process heating (e.g., kilns, furnaces, ovens, strip heaters)	46720	%
	• Process cooling and refrigeration	46730	%
	• Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment)	46740	%
	• Other direct process use: 46761 <input style="width: 150px; height: 20px;" type="text"/> Please specify:	46760	%
	<i>Direct Uses – Non-process: direct non process use includes usage for facility lighting and space-conditioning equipment (HVAC).</i>		
	• Facility heating, ventilation, and air conditioning	46770	%
	• Facility support other than that reported above (e.g.: cooking, water heating, office equipment)	46790	%
	• Conventional electricity generation	46810	%
	• Other direct non-process use: 46821 <input style="width: 150px; height: 20px;" type="text"/> Please specify:	46820	%
			TOTAL 100%

Breeze or Coal Coke

Breeze or Coal Coke: Purchased, Transferred, and Produced

		"Census Use Only"	(44)	(43)
			Breeze ↓	Coal Coke ↓
1.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	010	<input type="text"/> Short tons	<input type="text"/> Short tons
2.	Enter the total expenditures; including all applicable taxes and delivery, management, transportation, and demand charges, for the quantity reported in question 1.	020	\$ <input type="text"/> U.S. Dollars	\$ <input type="text"/> U.S. Dollars
3.	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"/> Short tons	<input type="text"/> Short tons
4.	Enter the quantity of the energy source produced on-site during 2010.	040	<input type="text"/> Short tons	<input type="text"/> Short tons

Breeze or Coal Coke

Breeze or Coal Coke: Consumption				
		<small>"Census Use Only"</small>	(44)	(43)
			Breeze ↓	Coal Coke ↓
5.	<p>Enter the total quantity of the energy source consumed as a fuel in this establishment during 2010.</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 type="text"/> Short tons	<input type="text"/> Short tons
6.	<p>Enter the total quantity of the energy source consumed for any purpose other than fuel use in this establishment during 2010.</p> <p>Include all quantities consumed as lubricants, solvents or as raw materials, feedstocks, 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 type="text"/> Short tons	<input type="text"/> Short tons

Petroleum Cokes

Petroleum Cokes: Purchased, Transferred, and Produced

		“Census Use Only”	(78)	(79)
			Marketable Petroleum Coke- Unrefined or Green ↓	Marketable Petroleum Coke- Calcined ↓
1.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	010	<input style="width: 100%;" type="text"/> Barrels	<input style="width: 100%;" type="text"/> Barrels
2.	Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 1.	020	\$ <input style="width: 100%;" type="text"/> U.S. Dollars	\$ <input style="width: 100%;" type="text"/> U.S. Dollars
3.	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 (i.e., in a performance service contract). 	030	<input style="width: 100%;" type="text"/> Barrels	<input style="width: 100%;" type="text"/> Barrels
4.	Enter the quantity of the energy source produced on-site during 2010.	040	<input style="width: 100%;" type="text"/> Barrels	<input style="width: 100%;" type="text"/> Barrels
<i>Petroleum Cokes: Consumption</i>				
5.	Enter the total quantity of the energy source consumed as a fuel at this establishment during 2010. 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%;" type="text"/> Barrels	<input style="width: 100%;" type="text"/> Barrels

Petroleum Cokes

		“Census Use Only”	(78)	(79)
			Petroleum Coke- Unrefined or Green ↓	Marketable Petroleum Coke- Calcined ↓
6.	<p>Enter the total quantity the energy source consumed for any purpose other than fuel use at this establishment during 2010.</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"/> Barrels	<input style="width: 100px; height: 20px;" type="text"/> Barrels
<i>Petroleum Cokes: Shipments</i>				
7.	<p>Enter the quantity of the energy source shipped off-site during 2010.</p>	080	<input style="width: 100px; height: 20px;" type="text"/> Barrels	<input style="width: 100px; height: 20px;" type="text"/> Barrels

Kerosene or Motor Gasoline

Kerosene, or Motor Gasoline: Total Purchased, Transferred and Produced

		"Census Use Only"	(27)	(23)
			Kerosene ↓	Motor Gasoline (exclude off-site highway use) ↓
1.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	010	<input type="text"/> Barrels	<input type="text"/> Gallons
2.	Enter the total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 1.	020	\$ <input type="text"/> U.S. Dollars	\$ <input type="text"/> U.S. Dollars
3.	Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: •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"/> Gallons
4.	Enter the quantity of the energy source produced on-site during 2010.	040	<input type="text"/> Barrels	<input type="text"/> Gallons

Kerosene or Motor Gasoline

Kerosene, or Motor Gasoline: Consumption

		"Census Use Only"	(27)	(23)
			Kerosene ↓	Motor Gasoline (exclude off-site highway use) ↓
5.	<p>Enter the total quantity of the energy source consumed as a fuel at this establishment during 2010.</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 type="text"/> Barrels	<input type="text"/> Gallons
6.	<p>Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2010.</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 type="text"/> Barrels	<input type="text"/> Gallons
<i>Kerosene, or Motor Gasoline: Storage Capacity</i>				
7.	<p>Enter the shell or design storage capacity of all the storage tanks located on-site as of 12/31/10.</p>	090		<input type="text"/> Gallons

Acetylene or Hydrogen

Acetylene or Hydrogen: Total Purchased				
		“Census Use Only”	(64)	(63)
			Acetylene ↓	Hydrogen ↓
1.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, 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
2.	Enter the total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 1.	020	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px; display: flex; align-items: center;">\$</div> U.S. Dollars	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px; display: flex; align-items: center;">\$</div> U.S. Dollars
3.	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 (i.e., 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
4.	Enter the quantity of the energy source produced on-site during 2010.	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
5.	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

Acetylene or Hydrogen: Consumption

		"Census Use Only"	(64)	(63)
			Acetylene ↓	Hydrogen ↓
6.	<p>Enter the total quantity of the energy source consumed as a fuel at this establishment during 2010.</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: 100px; height: 20px;" type="text"/> Cubic Feet	<input style="width: 100px; height: 20px;" type="text"/> Million Btu
7.	<p>Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2010.</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"/> Cubic Feet	<input style="width: 100px; height: 20px;" type="text"/> Million Btu

Acetylene or Hydrogen: Shipments

8.	<p>Enter the quantity of the energy source shipped off-site during 2010.</p>	080	<input style="width: 100px; height: 20px;" type="text"/> Cubic Feet	<input style="width: 100px; height: 20px;" type="text"/> Million Btu
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Wood Harvested Directly from Trees (e.g. roundwood, wood chips)

Wood Harvested Directly from Trees: Total Purchased, Transferred and Produced

1.	<p>Enter the total quantity of wood harvested directly from trees purchased by and delivered to this establishment during 2010, for fuel uses only, regardless of when payment was made.</p>	<p>“Census Use Only” 83010</p>	<p align="center"><input type="text"/> Million Btu</p>
2.	<p>Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 1.</p>	83020	<p align="center">\$ <input type="text"/> U.S. Dollars</p>
3.	<p>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.) 	83030	<p align="center"><input type="text"/> Million Btu</p>
4.	<p>Enter the quantity of wood harvested directly from trees produced on-site during 2010.</p>	83040	<p align="center"><input type="text"/> Million Btu</p>

Wood Harvested Directly From Trees: Consumption

5.	<p>Enter the total quantity of wood harvested directly from trees consumed as a fuel at this establishment during 2010.</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>	83060	<p align="center"><input type="text"/> Million Btu</p>
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Blast Furnace Gas or Coke Oven Gas

Blast Furnace Gas or Coke Oven Gas: Purchased, Transferred and Produced

		"Census Use Only"	(60)	(61)
			Blast Furnace ↓	Coke Oven Gas ↓
1.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	010	<input type="text"/> Million Btu	<input type="text"/> Million Btu
2.	Enter the total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 1.	020	\$ <input type="text"/> U.S. Dollars	\$ <input type="text"/> U.S. Dollars
3.	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
4.	Enter the quantity of the energy source produced on-site during 2010.	040	<input type="text"/> Million Btu	<input type="text"/> Million Btu

Blast Furnace Gas or Coke Oven Gas

Blast Furnace Gas or Coke Oven Gas: Consumption

		"Census Use Only"	(60)	(61)
			Blast Furnace ↓	Coke Oven Gas ↓
5.	<p>Enter the total quantity of the energy source consumed as a fuel at this establishment during 2010.</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 type="text"/> Million Btu	<input type="text"/> Million Btu

Blast Furnace Gas or Coke Oven Gas: Shipments

6.	<p>Enter the quantity of the energy source shipped off-site during 2010.</p>	080	<input type="text"/> Million Btu	<input type="text"/> Million Btu
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Waste Oils, Tars or Waste Byproduct Gases

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) ↓
1.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	010	<input type="text"/> Million Btu	<input type="text"/> Million Btu
2.	Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 1.	020	\$ <input type="text"/> U.S. Dollars	\$ <input type="text"/> U.S. Dollars
3.	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
4.	Enter the quantity of the energy source produced on-site during 2010.	040	<input type="text"/> Million Btu	<input type="text"/> Million Btu

Waste Oils, Tars or Waste Byproduct Gases

Waste Oils and Tars, or Waste Byproduct Gases: Consumption

		"Census Use Only"	(71)	(62)
			Waste Oils and Tars ↓	Waste and Byproduct Gases (e.g. refinery gas, off gas, vent gas, plant gas, still gas) ↓
5.	<p>Enter the total quantity of the energy source consumed as a fuel at this establishment during 2010.</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 type="text"/> Million Btu	<input type="text"/> Million Btu
6.	<p>Enter the total quantity of the energy source consumed for any purpose other than fuel use at this establishment during 2010.</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 type="text"/> Million Btu	<input type="text"/> Million Btu

Pulping Black Liquor or Agricultural Waste

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) ↓
1.	Enter the total quantity of the energy source (column) purchased by, and delivered to this establishment during 2010, regardless of when payment was made.	010	<input type="text"/> Million Btu	<input type="text"/> Million Btu
2.	Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 1.	020	\$ <input type="text"/> U.S. Dollars	\$ <input type="text"/> U.S. Dollars
3.	Enter the total quantity of the energy source transferred in or otherwise received on-site without a direct open market purchase. Include quantities: •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
4.	Enter the quantity of the energy source produced on-site during 2010.	040	<input type="text"/> Million Btu	<input type="text"/> Million Btu

Pulping Black Liquor or Agricultural Waste

Pulping Black Liquor or Agricultural Waste: Consumption

		"Census Use Only"	(73)	(90)
			Pulping Black Liquor ↓	Agricultural Waste ↓
5.	<p>Enter the total quantity of the energy source consumed as a fuel at this establishment during 2010.</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 type="text"/> Million Btu	<input type="text"/> Million Btu

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

**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) ↓
1.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	010	<input type="text"/> Million Btu	<input type="text"/> Million Btu
2.	Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 1.	020	\$ <input type="text"/> U.S. Dollars	\$ <input type="text"/> U.S. Dollars
3.	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
4.	Enter the quantity of the energy source produced on-site during 2010.	040	<input type="text"/> Million Btu	<input type="text"/> Million Btu

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

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

		"Census Use Only"	(84)	(72)
			Wood Residues and Byproducts from Mill Processing ↓	Wood / Paper-Related Refuse ↓
5.	<p>Enter the total quantity of the energy source consumed as a fuel at this establishment during 2010.</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 type="text"/> Million Btu	<input type="text"/> Million Btu

Steam or Industrial Hot Water

Steam or Industrial Hot Water: Total Purchased

		"Census Use Only"	(11)	(12)
			Steam ↓	Industrial Hot Water ↓
1.	Enter the total quantity of the energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	061	<input type="text"/> Million Btu	<input type="text"/> Million Btu
2.	Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 1.	062	\$ <input type="text"/> U.S. Dollars	\$ <input type="text"/> U.S. Dollars

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

3.	During 2010, 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 producer, small power producers, brokers, marketers, marketing subsidiaries of utilities, or co-generator not owned by your company.	015	<input type="checkbox"/> 1. All local utility: Answer question 4 then skip to question 7 <input type="checkbox"/> 2. All non-utility: Answer question 4 then skip to question 7 <input type="checkbox"/> 3. Both:	
4.	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	<input type="text"/>	
5.	Enter the quantity of your total purchased steam that was purchased from a local utility during 2010.	010	<input type="text"/> Million Btu	

Steam or Industrial Hot Water

		"Census Use Only"	(11)	(12)
			Steam ↓	Industrial Hot Water ↓
6.	Enter the total expenditures of your purchased steam that came from a local utility.	020	<input type="text"/> U.S. Dollars	

Steam or Industrial Hot Water: Transfers

7.	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) 	050	<input type="text"/> Million Btu	<input type="text"/> Million Btu
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Steam or Industrial Hot Water: Generated On-site

8.	Enter the quantity of steam or hot water generated on-site from each of the following:			
	•Solar Power	081	<input type="text"/> Million Btu	<input type="text"/> Million Btu
	•Wind Power	082	<input type="text"/> Million Btu	<input type="text"/> Million Btu
	•Hydropower	083	<input type="text"/> Million Btu	<input type="text"/> Million Btu
	•Geothermal Power	084	<input type="text"/> Million Btu	<input type="text"/> Million Btu

Steam or Industrial Hot Water

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

		"Census Use Only"	(11)	(12)
			Steam ↓	Industrial Hot Water ↓
9.	<p>Enter the quantity of the energy source transferred out of this establishment during 2010.</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 co-generators not located at this establishment.</p>	110	<input type="text"/> Million Btu	<input type="text"/> Million Btu

Other Energy Sources

Other Energy Sources: Total Purchased, Transferred and Produced

	“Census Use Only”	(91)	(93)	(95)
		Other ↓	Other ↓	Other ↓
1. 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. *Do not include: oxygen, carbon dioxide, nitrogen, argon, or helium.	980	<input style="width: 100px; height: 20px;" type="text"/> Energy source	<input style="width: 100px; height: 20px;" type="text"/> Energy source	<input style="width: 100px; height: 20px;" type="text"/> Energy source
	981	<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
2. Enter the total quantity of the other energy source (column) purchased by and delivered to this establishment during 2010, regardless of when payment was made.	010	<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
3. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 2.	020	\$ <input style="width: 100px; height: 20px;" type="text"/> U.S. Dollars	\$ <input style="width: 100px; height: 20px;" type="text"/> U.S. Dollars	\$ <input style="width: 100px; height: 20px;" type="text"/> U.S. Dollars
4. 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 or ownership or special sharing of revenue (e.g., in a performance service contract.)	030	<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
5. Enter the quantity of the other energy source produced on-site during 2010.	040	<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

Other Energy Sources

Other Energy Source: Consumption

		“Census Use Only”	(91)	(93)	(95)
			Other ↓	Other ↓	Other ↓
6.	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
7.	Enter the total quantity of the other energy source consumed as a fuel at this establishment during 2010. 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
8.	Enter the total quantity of the other energy source consumed for any purpose other than fuel use at this establishment during 2010. 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 2010, 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 2010.

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. Ex. 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.

1.	Referring back to the Electricity section, question 1 page 1. Please enter the quantity of reported purchased electricity.				
2.	Referring back to the Electricity section, question 7 page 1. Please enter the quantity of reported transferred electricity.				
3.	Add lines from question 1 and 2 (question 1 + question 2). Enter the total in the box.	10503	<input style="width: 100%;" type="text"/>		
4.	Referring back to the Natural Gas section, question 10 page 2. Please enter the quantity of reported natural gas consumed. Enter the figure in the box.	30503	<input style="width: 100%;" type="text"/>		
5.	Referring back to the Coal section, question 5 page 2. Please add the quantity of reported anthracite, bituminous and subbituminous and lignite consumed. Enter the total in the box.	46503	<input style="width: 100%;" type="text"/>		
		“Census Use Only”	(10)	(30)	(46)
			Total Electricity Received Transfers + purchase ↓	Total Natural Gas ↓	Total ALL Coal (excluding Coal Coke & Breeze) ↓
6.	Enter the total quantity of the energy source (column) you reported as consumed during 2010. Copy this figure from the above worksheet questions.	500	<input style="width: 100%;" type="text"/> Kilowatthours Enter figure from question 3.	<input style="width: 100%;" type="text"/> 1,000 cubic feet Enter figure from question 4.	<input style="width: 100%;" type="text"/> Short tons Enter figure from question 5.
7.	Is the total quantity reported in question 6 greater than zero?	501	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to question 6, next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to question 6, next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to next section.
8.	Enter the amount of the total quantity you reported in question 6 that could NOT have been replaced within 30 days by another energy source during 2010. 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: 100%;" type="text"/> Kilowatthours	<input style="width: 100%;" type="text"/> 1,000 cubic feet	<input style="width: 100%;" type="text"/> Short tons

Fuel Switching Capability: Electricity, Natural Gas and Total Coal

		“Census Use Only”	(10) Total Electricity Received Transfers + purchase ↓	(30) Total Natural Gas ↓	(46) Total ALL Coal (excluding Coal Coke & Breeze) ↓
9.	Is the total quantity in question 8 equal to zero?	511	<input type="checkbox"/> 1. Yes: Skip to question 11. <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 11. <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 11. <input type="checkbox"/> 2. No
10.	Referring to the quantity shown in question 8, 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	999	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>	<input style="width: 100px;" type="text"/>
	Don't know	539	<input type="checkbox"/> ₁	<input type="checkbox"/> ₁	<input type="checkbox"/> ₁

Fuel Switching Capability: Electricity, Natural Gas and Total Coal

		“Census Use Only”	(10)	(30)	(46)
			Total Electricity Received <small>Transfers + purchase</small> ↓	Total Natural Gas ↓	Total ALL Coal (excluding Coal Coke & Breeze) ↓
11.	<p>Enter the results of subtracting the quantity reported in question 8 from the quantity reported in question 6.</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 2010.</p> <p>Note: the sum of the quantities in question 13 through 20 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"/> 1,000 cubic feet	<input style="width: 100px; height: 20px;" type="text"/> Short tons
12.	<p>Is the total quantity reported in question 11 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 next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to next section.
13.	<p>Of the quantity switchable in question 11 what is the maximum amount that could have been replaced by <u>electricity</u>?</p>	530		<input style="width: 100px; height: 20px;" type="text"/> 1,000 cubic feet	<input style="width: 100px; height: 20px;" type="text"/> Short tons
14.	<p>Of the quantity reported as switchable in question 11 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"/> 1,000 cubic feet	
15.	<p>Of the quantity reported as switchable in question 11 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"/> 1,000 cubic feet	
16.	<p>Of the quantity reported as switchable in question 11 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

			(10)	(30)	(46)
		"Census Use Only"	Total Electricity Received Transfers + purchase ↓	Total Natural Gas ↓	Total ALL Coal (excluding Coal Coke & Breeze) ↓
17.	Of the quantity reported as switchable in question 11 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"/> 1,000 cubic feet	<input type="text"/> Short tons
18.	Of the quantity reported as switchable in question 11 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"/> 1,000 cubic feet	<input type="text"/> Short tons
19.	Of the quantity reported as switchable in question 11 what is the maximum amount that could have been replaced by <u>residual fuel oil</u>?	630	<input type="text"/> Kilowatthours	<input type="text"/> 1,000 cubic feet	<input type="text"/> Short tons
20.	Of the quantity reported as switchable in question 11 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"/> 1,000 cubic feet	<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 2010 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)
		622	Total Electricity Received Transfers + purchase ↓	Total Natural Gas ↓	Total ALL Coal (excluding Coal Coke & Breeze) ↓
		Check one for each energy source (column) reported			
21.	Would not switch regardless of price difference.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Would switch at price difference 1-10 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Would switch at price difference 11-25 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Would switch at price difference 26-50 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Would switch at price difference over 50 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reasonable estimates cannot be provided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Would switch to the more expensive substitute if price premium were reasonable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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 2010, 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 2010.

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. Ex. 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.

1.	Referring back to the LPG section, question 5 page 2. Please add the quantity of reported butane, ethane and propane consumed.		_____	
2.	Referring back to the LPG section, question 12 page 4. Please add the quantity of reported mixtures and other LPG & NGL consumed.		_____	
3.	Add lines from question 1 and 2. (question 1 + question 2) Enter the total in the box.	24503	<input style="width: 100px; height: 20px;" type="text"/>	
4.	Referring back to the Diesel and Distillate Fuel section, question 5 page 2. Please add the reported quantity of diesel and distillate fuel consumed. Enter the figure in the box.	22503	<input style="width: 100px; height: 20px;" type="text"/>	
5.	Referring back to the Residual Fuel section, question 5 page 1. Please enter the reported quantity of residual fuel consumed. Enter the figure in the box.	21503	<input style="width: 100px; height: 20px;" type="text"/>	
		“Census Use Only”	(24)	(22)
			Total LPG & NGL	Total Diesel Fuel & Distillate Fuel Oil
			↓	↓
6.	Enter the total quantity of the energy source you reported as consumed during 2010. Copy this figure from above worksheet questions.	500	<input style="width: 100px; height: 20px;" type="text"/> Gallons Enter figure from question 3.	<input style="width: 100px; height: 20px;" type="text"/> Barrels Enter figure from question 4.
7.	Is the total quantity reported in question 6 greater than zero?	501	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to question 6, next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to question 6, next column.
8.	Enter the amount of the total quantity you reported in question 6 that could NOT have been replaced within 30 days by another energy source during 2010. 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: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; 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 ↓
9.	Is the total quantity in question 8 equal to zero?	511	<input type="checkbox"/> 1. Yes: Skip to question 11. <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 11. <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 11. <input type="checkbox"/> 2. No
10.	Referring to the quantity shown in question 8, please check all the reasons that made this quantity unswitchable.				
	The boilers, heaters, or other fuel-consuming equipment are NOT capable of using another fuel other than this 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	999	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Don't know	539	<input type="checkbox"/> ₁	<input type="checkbox"/> ₁	<input type="checkbox"/> ₁

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
			↓	↓	↓
11.	<p>Enter the results of subtracting the quantity reported in question 8 from the quantity reported in question 6.</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 2010.</p> <p>Note: the sum of the quantities in question 13 through 20 should equal or exceed this quantity.</p>	520	<input type="text"/> Gallons	<input type="text"/> Barrels	<input type="text"/> Barrels
12.	<p>Is the total quantity reported in question 11 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.
13.	<p>Of the quantity switchable in question 11 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
14.	<p>Of the quantity reported as switchable in question 11 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
15.	<p>Of the quantity reported as switchable in question 11 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

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 ↓
16.	Of the quantity reported as switchable in question 11 what is the maximum amount that could have been replaced by <u>natural gas</u> ?	570	<input type="text"/> Gallons	<input type="text"/> Barrels	<input type="text"/> Barrels
17.	Of the quantity reported as switchable in question 11 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
18.	Of the quantity reported as switchable in question 11 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
19.	Of the quantity reported as switchable in question 11 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	
20.	Of the quantity reported as switchable in question 11 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 2010 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			
21.	Would not switch regardless of price difference.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Would switch at price difference 1-10 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Would switch at price difference 11-25 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Would switch at price difference 26-50 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Would switch at price difference over 50 percent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Reasonable estimates cannot be provided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Would switch to the more expensive substitute if price premium were reasonable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Energy-Management Activities

Energy-Management Activities

For questions 1 through 8:

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, 2010 and December 31, 2010.

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}	Don't Know {32}
1.	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"/>	6 <input type="checkbox"/>
2.	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"/>	6 <input type="checkbox"/>
3.	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"/>	6 <input type="checkbox"/>
4.	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"/>	6 <input type="checkbox"/>
5.	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"/>	6 <input type="checkbox"/>
6.	Electricity load control	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No {080}	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	6 <input type="checkbox"/>
7.	Power factor correction or improvement	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No {380}	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	6 <input type="checkbox"/>
8.	Equipment installation or retrofit for the primary purpose of using a different energy source (e.g., electrification) Exclude modifications made primarily for energy efficiency; those should be included in questions 12 – 18.	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No {240}	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	6 <input type="checkbox"/>

Energy-Management Activities

	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}	Don't Know {32}
9.	Standby generation program	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No {260}	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>	6 <input type="checkbox"/>
10.	Special rate schedule (e.g., interruptible or time-of-use)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No {100}		4 <input type="checkbox"/>	7 <input type="checkbox"/>			6 <input type="checkbox"/>
11.	Interval metering needed to manage energy use for programs such as real-time pricing	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No {250}		4 <input type="checkbox"/>	7 <input type="checkbox"/>			6 <input type="checkbox"/>

For Questions 12 through 18:

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, 2010 and December 31, 2010. For any activity for which you marked “yes” please mark the source (s) of financial support for the activity. Please use the sources defined above question 1.

	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}	Don't Know {32}
12.	Steam production/system (e.g., boilers, burners, insulation, piping)	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"/>	6 <input type="checkbox"/>
13.	Compressed air systems (e.g., compressors, sizing, leak reduction)	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"/>	6 <input type="checkbox"/>
14.	Direct/indirect process heating	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"/>	6 <input type="checkbox"/>
15.	Direct process cooling, refrigeration	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"/>	6 <input type="checkbox"/>
16.	Direct machine drive (e.g., adjustable-speed drives, motors, pumps, fans)	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"/>	6 <input type="checkbox"/>
17.	Facility heating, ventilation, and air conditioning	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"/>	6 <input type="checkbox"/>
18.	Facility lighting	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"/>	6 <input type="checkbox"/>

Energy-Management Activities

For Questions 19 through 30: Please mark only one answer for each energy-management question.								
19.	Does this establishment have an energy manager? (i.e., a person whose major function is to direct or plan energy strategies relating to energy use and energy-efficient technology within the establishment)	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13460} <input type="checkbox"/> Don't Know						
20.	Does your establishment set goals for improving energy efficiency?	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13470} <input type="checkbox"/> Don't Know						
21.	Does your establishment measure and monitor how much steam is used to produce a unit of product? (i.e. lbs of steam needed per unit of product produced)	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13471} <input type="checkbox"/> Don't Know <input type="checkbox"/> Not Applicable (NA)						
22.	Does your establishment have dedicated staff that performs insulation inspections to monitor and maintain the condition of steam system insulation?	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13472} <input type="checkbox"/> Don't Know <input type="checkbox"/> Not Applicable (NA)						
23.	Does your establishment have a formal steam system maintenance program that includes the following activities:	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; padding: 5px; vertical-align: top;">a. At least annual testing of all steam traps</td> <td style="padding: 5px;"> <input type="checkbox"/> Yes → <input type="checkbox"/> No {13473} <input type="checkbox"/> Don't Know <input type="checkbox"/> Not Applicable (NA) </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;">b. Maintaining a steam trap database</td> <td style="padding: 5px;"> <input type="checkbox"/> Yes → <input type="checkbox"/> No {13474} <input type="checkbox"/> Don't Know <input type="checkbox"/> Not Applicable (NA) </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;">c. At least annual inspections and repairs of steam leaks</td> <td style="padding: 5px;"> <input type="checkbox"/> Yes → <input type="checkbox"/> No {13475} <input type="checkbox"/> Don't Know <input type="checkbox"/> Not Applicable (NA) </td> </tr> </table>	a. At least annual testing of all steam traps	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13473} <input type="checkbox"/> Don't Know <input type="checkbox"/> Not Applicable (NA)	b. Maintaining a steam trap database	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13474} <input type="checkbox"/> Don't Know <input type="checkbox"/> Not Applicable (NA)	c. At least annual inspections and repairs of steam leaks	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13475} <input type="checkbox"/> Don't Know <input type="checkbox"/> Not Applicable (NA)
a. At least annual testing of all steam traps	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13473} <input type="checkbox"/> Don't Know <input type="checkbox"/> Not Applicable (NA)							
b. Maintaining a steam trap database	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13474} <input type="checkbox"/> Don't Know <input type="checkbox"/> Not Applicable (NA)							
c. At least annual inspections and repairs of steam leaks	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13475} <input type="checkbox"/> Don't Know <input type="checkbox"/> Not Applicable (NA)							
24.	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?	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13476} <input type="checkbox"/> Don't Know						
25.	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?	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13477} <input type="checkbox"/> Don't Know						
26.	Does your establishment's process heating system maintenance program include the following activities?	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; padding: 5px; vertical-align: top;">a. Furnace inspections to seal openings and repair cracks and damaged insulation in furnace walls, doors, etc.</td> <td style="padding: 5px;"> <input type="checkbox"/> Yes → <input type="checkbox"/> No {13478} <input type="checkbox"/> Don't Know </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;">b. Cleaning of heat transfer surfaces to avoid build up of soot, scale, or other material.</td> <td style="padding: 5px;"> <input type="checkbox"/> Yes → <input type="checkbox"/> No {13479} <input type="checkbox"/> Don't Know </td> </tr> <tr> <td style="padding: 5px; vertical-align: top;">c. Inspecting, calibrating, and adjusting temperature/pressure sensors, controllers, valve operators, etc.</td> <td style="padding: 5px;"> <input type="checkbox"/> Yes → <input type="checkbox"/> No {13480} <input type="checkbox"/> Don't Know </td> </tr> </table>	a. Furnace inspections to seal openings and repair cracks and damaged insulation in furnace walls, doors, etc.	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13478} <input type="checkbox"/> Don't Know	b. Cleaning of heat transfer surfaces to avoid build up of soot, scale, or other material.	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13479} <input type="checkbox"/> Don't Know	c. Inspecting, calibrating, and adjusting temperature/pressure sensors, controllers, valve operators, etc.	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13480} <input type="checkbox"/> Don't Know
a. Furnace inspections to seal openings and repair cracks and damaged insulation in furnace walls, doors, etc.	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13478} <input type="checkbox"/> Don't Know							
b. Cleaning of heat transfer surfaces to avoid build up of soot, scale, or other material.	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13479} <input type="checkbox"/> Don't Know							
c. Inspecting, calibrating, and adjusting temperature/pressure sensors, controllers, valve operators, etc.	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13480} <input type="checkbox"/> Don't Know							
27.	Do you keep an inventory of all motors in your establishment?	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13481} <input type="checkbox"/> Don't Know						
28.	Have you conducted a plant-wide study to identify the major energy consuming pump systems in your establishment?	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13482} <input type="checkbox"/> Don't Know						
29.	Does your establishment have staff or equipment dedicated to detecting and controlling compressed air system leaks?	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13483} <input type="checkbox"/> Don't Know						
30.	Does your establishment track the amount of energy spent in compressed air systems?	<input type="checkbox"/> Yes → <input type="checkbox"/> No {13484} <input type="checkbox"/> Don't Know						

Energy Technologies

Energy Technologies

1. Were any of the following technologies in use at your establishment anytime during 2010?			
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
2. Were any of the following technologies associated with cogeneration in use at your establishment anytime during 2010?			
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

Energy Technologies

e.	Steam turbines supplied by heat recovered from high-temperatures processes.	14046	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't Know
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Establishment Size and Remarks

<i>Establishment Size</i>			
1.	How many buildings were on this establishment site as of December 31, 2010? 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”	<div style="border: 1px solid black; height: 20px; width: 100%; margin-bottom: 5px;"></div> Number of Buildings
		17010	<input type="checkbox"/> 1 Don't Know.
2.	What was the approximate total enclosed square footage of the buildings located on this establishment site as of December 31, 2010?	13010	<div style="border: 1px solid black; height: 20px; width: 100%; margin-bottom: 5px;"></div> Total square feet
		13011	<input type="checkbox"/> 1 Don't Know.

Remarks

3.	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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