

**2022 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**  
(05-15-23)

**Report Electronically:**  
<https://portal.census.gov>

Authentication Code:

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

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

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

**Reporting Requirement:** This survey is **mandatory** under the Federal Energy Administrative Act of 1974, 15 U.S.C. 772(b), and under Title 3, Subtitle B, of the Omnibus Budget Reconciliation Act of 1986, 42 U.S.C. 7135 as amended by Title 1, Subtitle G, of the Energy Policy Act of 1992, 42 U.S.C. 7135(i)(1).

Title 18 U.S.C. 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

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 <https://portal.census.gov>



## *Contact Information*

**Date (mm-dd-yyyy)**

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**Area Code**

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**Telephone**

**Number**

**Ext.**

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**Name of person to contact regarding this questionnaire**

**Title of contact person (above)**

**Address (number and street)**

**City**

**State**

**Zip Code**

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**Zip + 4**

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**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 on page 6 for a comprehensive list of various energy conversion factors. If your establishment uses more precise conversion values for your operations, use them, and indicate in the "Remarks" at the end of the form, the conversion factor(s) used.
3. Do **not** consolidate establishments. The reporting boundaries for your establishment should correspond to those used in the Economic Census - Manufacturing (EC- M). 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 section, before moving on to the next section.
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 Types Used as Energy" 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 2022 and indicate the period covered by this filing, whether the calendar year or other period.



## *Instructions for Completing Form EIA-846, cont.*

### **Energy Sources**

#### Reporting Criteria

An energy source 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 (Butane, Ethane, Propane, Mixtures, and Other LPG/NGL)
  - Coal coke
  - Petroleum coke (Unrefined, green or calcined)
  - Breeze
  - Coke oven gas
  - Blast furnace gas
  - Acetylene
  - Hydrogen
  - Diesel or distillate fuel oil
  - Residual fuel oil
  - Naptha; and
  - Bitumen.

If your only means of an energy source during 2022 was a byproduct (or product) of an energy source used as a feedstock (or raw material input) that byproduct energy source should be reported only if it was at least partially consumed onsite as a fuel or shipped offsite. If the byproduct (or product) energy source was only itself consumed as a nonfuel (feedstock), it should be excluded.

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

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

Electricity

Natural Gas

Diesel Fuel Oil (excluding off-site highway use)

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

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

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

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

Coal

- Anthracite
- Bituminous and Subbituminous
- Lignite

Breeze

Coal Coke

Petroleum Coke

- Marketable Petroleum Coke - Unrefined or Green
- Marketable Petroleum Coke - Calcined



## *Instructions for Completing Form EIA-846, cont.*

Kerosene  
 Motor Gasoline (excluding off-site highway use)  
 Naphtha and Heavier Gas Oils  
 Bitumen  
 Acetylene  
 Hydrogen  
 Wood harvested directly from trees  
 Byproduct Energy Source

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

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

### **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 2022. 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 2022 and the source(s) of the financial support to implement the energy-management activity.

### **Technologies**

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

### **Establishment Size**

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

### **Remarks**

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



## Conversion Factors Table

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

If your establishment uses more precise conversion values for your operations, such as the conversion factors used for the Green House Gas (GHG) Reporting Rule, use them in place of the approximations given below. However, please identify in the Remarks section (page 63), 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 2022.

The Btu equivalent is:

(250 cubic feet) x (323.6 Btu/cubic foot)

= 80,900 Btu

= 0.0809 million Btu

- Your establishment consumed 300 pounds of hydrogen in 2022.

The Btu equivalent is:

(300 pounds) x (253,395 Btu/pound)

= 76,018,500 Btu

= 76.019 million Btu

Energy Source	Conversion Factor(s)
Acetylene	21,600 Btu/pound 1,500 Btu/cubic feet
Bagasse	4,081 Btu/pound
Biomass	5,300 Btu/pound
Breeze	19.8 million Btu/short ton
Butane	4.353 million Btu/barrel 0.1036 million Btu/gallon
Coal	20.578 million Btu/short ton
Coal (use for coke plants only)	28.666 million Btu/short ton
Coal Coke	24.8 million Btu/short ton
Distillate Fuel Oil	5.770 million Btu/barrel
Electricity	3,412 Btu/kilowatthour
Ethane	2.783 million Btu/barrel 0.06626 million Btu/gallon
Hydrogen	253,395 Btu/pound 323.6 Btu/cubic feet 149,690 Btu/gallon
Industrial Hot Water	140 Btu/pound 7.84 pounds/gallon
Isobutane	4.183 million Btu/barrel 0.09960 million Btu/gallon
Liquefied Petroleum Gas (LPG)	3.369 million Btu/barrel 0.08021 million Btu/gallon 4.5 pounds/gallon
Natural Gas	1.039 million Btu/1,000 cubic feet 10.39 therms/1,000 cubic feet
Petroleum Coke	6.135 million Btu/barrel 30.675 million Btu/short ton 5 barrels/short ton
Propane	3.841 million Btu/barrel 0.09145 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	6.287 million Btu/barrel 1,039 Btu/cubic feet
Waste Materials (Wastepaper)	7,500 Btu/pound
Waste Oils and Tars	6 million Btu/barrel
(Green) Wood Chips (50% moisture)	10 million Btu/short ton
Wood Waste (50% moisture)	9 million Btu/short ton



## Establishment Information

<p><b>1. Did ownership of this establishment change during 2022?</b></p>	Census Use Only  00011	<input type="checkbox"/> <b>1. No</b> <input type="checkbox"/> <b>2. Yes: Establishment was sold during the year.</b> <i>Complete all sections of this questionnaire for activities that occurred in 2022 prior to the sale.</i> <input type="checkbox"/> <b>3. Yes: Establishment was bought during the year.</b> <i>Complete all sections of this questionnaire for activities that occurred in 2022 after the sale.</i>
<p><b>2. What best describes this establishment at the end of 2022?</b></p>	00010	<input type="checkbox"/> <b>1. In operation: Skip to question 6.</b> <input type="checkbox"/> <b>2. Ceased operation: Answer question 3 then skip to question 6.</b> <input type="checkbox"/> <b>3. Sold or leased to another operator: Skip to question 4.</b>
<p><b>3. Enter the date in which your establishment ceased operation.</b></p>	00013	<div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto;"></div> Enter Date (mm-dd-yyyy)
<p><b>4. Enter the date in which your establishment was either sold or leased to another operator.</b></p>	00014	<div style="border: 1px solid black; width: 100px; height: 20px; margin: 0 auto;"></div> Enter Date (mm-dd-yyyy)
<p><b>5. Enter the following information only if this establishment was sold or leased to another operator during 2022.</b></p> <p style="text-align: center;">Name of new owner or operator</p> <p>00015 <input style="width: 70%; border: 1px solid black;" type="text"/></p> <p style="text-align: center;">Address <span style="float: right;">City</span></p> <p>00017 <input style="width: 40%; border: 1px solid black;" type="text"/> 00018 <input style="width: 40%; border: 1px solid black;" type="text"/></p> <p style="text-align: center;">State <span style="margin-left: 50px;">Zip Code</span> <span style="margin-left: 50px;">Zip + 4</span> <span style="float: right;">Employer Identification Number (9 Digit EIN)</span></p> <p>00019 <input style="width: 30px; border: 1px solid black;" type="text"/> 00020 <input style="width: 60px; border: 1px solid black;" type="text"/> 00021 <input style="width: 60px; border: 1px solid black;" type="text"/> 00016 <input style="width: 100px; border: 1px solid black;" type="text"/></p>		
<p><b>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, 2022 to December 31, 2022.</b></p>	00022	<p><b>From:</b> <input style="width: 100px; border: 1px solid black;" type="text"/></p> <p style="text-align: center;">(mm-dd-yyyy)</p>
	00023	<p><b>To:</b> <input style="width: 100px; border: 1px solid black;" type="text"/></p> <p style="text-align: center;">(mm-dd-yyyy)</p>



**Electricity: Total Purchased**

<p>7. Enter the total quantity of electricity purchased by and delivered to this establishment during 2022, regardless of when payment was made.</p>	<p>Census Use Only 10061</p>	<p><input type="text"/></p> <p>Kilowatthours</p>
<p>8. Enter total expenditures; including all applicable taxes and any delivery, management, and demand charges, for the purchased electricity reported in question 7.</p>	<p>10062</p>	<p>\$Bil. Mil. Thou. Dol.</p> <p><input type="text"/></p> <p>U.S. Dollars</p>

**Electricity: Source of Purchase**

<p>9. During 2022, where did this establishment's purchased electricity come from?</p> <p><b>Local utility:</b> the company in your local area that produces and/or delivers electricity and is legally obligated to provide service to the general public within its franchise area.</p> <p><b>Non-utility:</b> includes generators of electricity such as independent power producers or small power producers. It also includes brokers, marketers, marketing subsidiaries of utilities, or cogenerators not owned by your company.</p>	<p>10015</p>	<p><input type="checkbox"/> 1. All local utility: Answer question 10 then skip to question 13.</p> <p><input type="checkbox"/> 2. All non-utility: Answer question 10 then skip to question 13.</p> <p><input type="checkbox"/> 3. Both</p>
<p>10. Please specify the utility/non-utility provider from whom you purchased your electricity:</p> <p>If this establishment purchases from more than one provider, please provide the largest provider. <span style="float: right;">10016</span> <input type="text"/></p>		
<p>11. Enter the quantity of your total purchased electricity that was purchased from a local utility during 2022.</p>	<p>10010</p>	<p><input type="text"/></p> <p>Kilowatthours</p>
<p>12. Enter the total expenditures of your purchased electricity that was paid to a local utility.</p>	<p>10020</p>	<p>\$Bil. Mil. Thou. Dol.</p> <p><input type="text"/></p> <p>U.S. Dollars</p>

**Electricity: Transfers In**

<p>13. Excluding the quantity reported in question 7, did this establishment receive any additional electricity from another establishment that was not purchased?</p>	<p>10052</p>	<p><input type="checkbox"/> 1. Yes</p> <p><input type="checkbox"/> 2. No, skip to question 15.</p>
<p>14. How much of this additional electricity was received from the other establishment?</p>	<p>10050</p>	<p><input type="text"/></p> <p>Kilowatthours</p>





### Electricity: Generated On-Site

	Census Use Only	Kilowatthours
<b>15. Enter the quantity of electricity generated on-site from each of the following:</b> <ul style="list-style-type: none"> <li>• <b>Combined Heat and Power (CHP)/Cogeneration</b> <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></li> </ul>	10070	<input style="width: 100%; height: 20px;" type="text"/>
<ul style="list-style-type: none"> <li>• <b>Solar Power</b></li> </ul>	10081	<input style="width: 100%; height: 20px;" type="text"/>
<ul style="list-style-type: none"> <li>• <b>Wind Power</b></li> </ul>	10082	<input style="width: 100%; height: 20px;" type="text"/>
<ul style="list-style-type: none"> <li>• <b>Hydropower</b></li> </ul>	10083	<input style="width: 100%; height: 20px;" type="text"/>
<ul style="list-style-type: none"> <li>• <b>Geothermal Power</b></li> </ul>	10084	<input style="width: 100%; height: 20px;" type="text"/>
<ul style="list-style-type: none"> <li>• <b>Other (for example, electricity generated by diesel generators)</b></li> </ul>	10090	<input style="width: 100%; height: 20px;" type="text"/>
<b>16. Did this establishment purchase electricity that was produced from any renewable sources (solar, wind, hydropower, or geothermal power)?</b>  <i>Include electricity that was purchased with renewable energy credits.</i>	10054	<input type="checkbox"/> <b>1. Yes</b> <input type="checkbox"/> <b>2. No</b> <input type="checkbox"/> <b>3. Don't know</b>
<b>17. Does your establishment's generators together have a total nameplate capacity of less than one megawatt?</b>	10053	<input type="checkbox"/> <b>1. Yes</b> <input type="checkbox"/> <b>2. No</b> <input type="checkbox"/> <b>3. Don't know</b>

### Electricity: Sales and Transfers Offsite

<b>18. Enter the quantity of electricity sold or transferred out of this establishment to utilities during 2022.</b>  Include quantities exchanged for the same or any other energy source.  Exclude sales to independent power producers, small power producers, or cogenerators not located at this establishment.	10110	<input style="width: 100%; height: 20px;" type="text"/>  Kilowatthours
<b>19. Enter the quantity of electricity sold or transferred out of this establishment to any non-utilities during 2022.</b>  <b>Include:</b> <ul style="list-style-type: none"> <li>• Sales to independent power producers, small power producers, brokers, marketers, marketing subsidiaries of utilities, or cogenerators not located at this establishment.</li> <li>• Quantities exchanged for the same or any other energy source.</li> </ul>	10120	<input style="width: 100%; height: 20px;" type="text"/>  Kilowatthours



## *Electricity: Estimated End-Use Percent Consumption*

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

*Total Consumption = Question 7 [Purchases] + Question 14 [Transfers] + Question 15 [Generated] - (Question 18 + 19) [Sales and Transfers Offsite]*

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

*Boilers: Boiler use includes the transformation of energy to another usable energy source, as in a boiler, gas turbine, or combustion turbine.*

Census Use Only	Electricity
10705	<input type="text"/> %

- **Boiler fuel** (includes fuels used for thermal outputs)

*Process: Process use includes usage in motors, ovens, kilns, and strip heaters.*

10720	<input type="text"/> %
10730	<input type="text"/> %
10740	<input type="text"/> %
10750	<input type="text"/> %
10761	<input type="text"/> %

- **Process heating** (e.g., kilns, furnaces, ovens, strip heaters)

- **Process cooling and refrigeration**

- **Machine drive** (e.g., motors, pumps, etc. associated with manufacturing process equipment)

- **Electrochemical processes** (e.g., reduction process)

- **Other process use:**

Please specify:

10761

10760

%

*Non-process: Non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).*

10770	<input type="text"/> %
10780	<input type="text"/> %
10790	<input type="text"/> %
10800	<input type="text"/> %
10821	<input type="text"/> %

- **Facility heating, ventilation, and air conditioning**

- **Facility lighting**

- **Facility support other than that reported above** (e.g., cooking, water heating, office equipment)

- **On-site transportation, excluding highway usage** (e.g., forklifts)

- **Other non-process use:**

Please specify:

10821

10820

%

**TOTAL 100%**



### Natural Gas: Units

21. Please indicate the units for the quantity that will be reported below.

**\*\* Please use this unit for reporting the remainder of the Natural Gas quantity questions.**

Census  
Use Only

31111

1. Therms
2. Decatherms (Dth)
3. 1,000 Cubic Feet (Mcf)
4. 100 Cubic Feet (Ccf)
5. Million British Thermal Units (MMBtu)

### Natural Gas: Total Purchased

22. Enter the total quantity of natural gas purchased by and delivered to this establishment during 2022, regardless of when payment was made.

30010

Units

23. Enter total expenditures; including all applicable taxes and any delivery, management, and demand charges, for the purchased natural gas reported in question 22.

30020

\$Bil.      Mil.      Thou.      Dol.

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U.S. Dollars

### Natural Gas: Source of Purchase

24. During 2022, where did this establishment's purchased natural gas come from?

**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.

**Non-utility:** include independent producers, brokers, marketers, and any marketing subsidiaries of utilities.

30015

1. All local utility: Answer question 25 then skip to question 28.
2. All non-utility: Answer question 25 then skip to question 28.
3. Both

25. Please specify the utility/non-utility provider from whom you purchased your natural gas:

If this establishment purchases from more than one provider, please provide the largest provider.

30016

26. Enter the quantity of your total purchased natural gas that was purchased from a local utility during 2022.

31010

Units

27. Enter the total expenditures of your purchased natural gas that was paid to a local utility.

31020

\$Bil.      Mil.      Thou.      Dol.

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U.S. Dollars



### *Natural Gas: Transferred In and Produced On-site*

<p><b>28. Excluding the quantity reported in question 22, did this establishment receive any additional natural gas from another establishment that was not purchased?</b></p>	<p>Census Use Only 30031</p>	<p><input type="checkbox"/> <b>1. Yes</b> <input type="checkbox"/> <b>2. No, skip to question 30.</b></p>
<p><b>29. How much of this additional natural gas was received from the other establishment.</b></p>	<p>30030</p>	<p><input style="width: 100%; height: 20px;" type="text"/> Units</p>
<p><b>30. Enter the quantity of natural gas that was both produced on-site during 2022 as output from a captive (onsite) well, and was at least partially consumed on-site (as a fuel or nonfuel).</b></p>	<p>30040</p>	<p><input style="width: 100%; height: 20px;" type="text"/> Units</p>

### *Natural Gas: Consumption*

<p><b>31. Enter the total quantity of natural gas consumed as a fuel at this establishment during 2022.</b></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 <b>on-site</b>.</p>	<p>30060</p>	<p><input style="width: 100%; height: 20px;" type="text"/> Units</p>
<p><b>32. Enter the total quantity of natural gas consumed for any purpose other than fuel use at this establishment during 2022.</b></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>	<p><input style="width: 100%; height: 20px;" type="text"/> Units</p>



## Natural Gas: Estimated End-Use Percent Consumption

The following questions refer to how this establishment consumed the natural gas that was previously reported in question 31 (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.

**33. Enter the percentage of total natural gas (from question 31) that this establishment consumed as the following:**

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

	Census Use Only	Natural Gas
<ul style="list-style-type: none"> <li><b>Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process</b></li> </ul>	30705	<input type="text"/> %
<ul style="list-style-type: none"> <li><b>Other boiler fuel (not included above)</b> (includes fuels used for thermal outputs only)</li> </ul>	30710	<input type="text"/> %

*Process: process use includes usage in motors, ovens, kilns, and strip heaters.*

<ul style="list-style-type: none"> <li><b>Process heating</b> (e.g., kilns, furnaces, ovens, strip heaters)</li> </ul>	30720	<input type="text"/> %
<ul style="list-style-type: none"> <li><b>Process cooling and refrigeration</b></li> </ul>	30730	<input type="text"/> %
<ul style="list-style-type: none"> <li><b>Machine drive</b> (e.g., motors, pumps, etc. associated with manufacturing process equipment)</li> </ul>	30740	<input type="text"/> %
<ul style="list-style-type: none"> <li><b>Other process use:</b> Please specify: 30761 <input type="text"/></li> </ul>	30760	<input type="text"/> %

*Non-process: non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).*

<ul style="list-style-type: none"> <li><b>Facility heating, ventilation, and air conditioning</b></li> </ul>	30770	<input type="text"/> %
<ul style="list-style-type: none"> <li><b>Facility support other than that reported above</b> (e.g., cooking, water heating, office equipment)</li> </ul>	30790	<input type="text"/> %
<ul style="list-style-type: none"> <li><b>On-site transportation, excluding highway usage</b> (e.g., forklifts)</li> </ul>	30800	<input type="text"/> %
<ul style="list-style-type: none"> <li><b>Conventional electricity generation</b></li> </ul>	30810	<input type="text"/> %
<ul style="list-style-type: none"> <li><b>Other non-process use:</b> Please specify: 30821 <input type="text"/></li> </ul>	30820	<input type="text"/> %

**TOTAL 100%**



## Diesel and Distillate Fuel Oil

**34. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 Diesel (exclude off-site highway use) (28)

Barrels

Distillate (numbers 1, 2, & 4) (29)

Barrels

**35. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 34.**

020 Diesel (exclude off-site highway use) (28)

\$Bil.	Mil.	Thou.	Dol.

U.S. Dollars

Distillate (numbers 1, 2, & 4) (29)

\$Bil.	Mil.	Thou.	Dol.

U.S. Dollars

**36. Excluding the quantity reported in question 34, did this establishment receive any additional material from another establishment that was not purchased?** (If you answer "Yes" to any of the alternatives below, please answer question 37. Otherwise, skip to question 38.)

031 Diesel (exclude off-site highway use) (28)

Yes

No

Distillate (numbers 1, 2, & 4) (29)

Yes

No

**37. How much of this additional material was received from the other establishment?**

030 Diesel (exclude off-site highway use) (28)

Barrels

Distillate (numbers 1, 2, & 4) (29)

Barrels

**38. Enter the quantity produced on-site during 2022.**

040 Diesel (exclude off-site highway use) (28)

Barrels

Distillate (numbers 1, 2, & 4) (29)

Barrels

**39. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 Diesel (exclude off-site highway use) (28)

Barrels

Distillate (numbers 1, 2, & 4) (29)

Barrels

**40. Enter the total quantity consumed for any purpose other than fuel use at this establishment during 2022.**

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 Diesel (exclude off-site highway use) (28)

Barrels

Distillate (numbers 1, 2, & 4) (29)

Barrels



***Diesel and Distillate Fuel Oil*****41. Enter the quantity shipped off-site during 2022.**080 **Diesel (exclude off-site highway use) (28)**

Barrels

**Distillate (numbers 1, 2, & 4) (29)**

Barrels

**42. Enter the shell or design storage capacity of all the storage tanks located on-site as of 12/31/2022.**090 **Diesel (exclude off-site highway use) (28)**

Barrels

**Distillate (numbers 1, 2, & 4) (29)**

Barrels



### Diesel or Distillate Fuel Oil: Estimated End-Use Percent Consumption

The following questions refer to how this establishment consumed diesel and/or distillate fuel oil that was previously reported in question 39 (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.

43. Enter the percentage of total diesel and distillate (question 39, Diesel + question 39, Distillate) that this establishment consumed as the following:

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

	Census Use Only	Diesel and Distillate
<ul style="list-style-type: none"> <li>Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process</li> </ul>	22705	<input type="text"/> %
<ul style="list-style-type: none"> <li>Other boiler fuel (not included above) (includes fuels used for thermal outputs only)</li> </ul>	22710	<input type="text"/> %

*Process: process use includes usage in motors, ovens, kilns, and strip heaters.*

<ul style="list-style-type: none"> <li>Process heating (e.g., kilns, furnaces, ovens, strip heaters)</li> </ul>	22720	<input type="text"/> %
<ul style="list-style-type: none"> <li>Process cooling and refrigeration</li> </ul>	22730	<input type="text"/> %
<ul style="list-style-type: none"> <li>Machine drive (e.g., motors, pumps, etc. associated with manufacturing process equipment)</li> </ul>	22740	<input type="text"/> %
<ul style="list-style-type: none"> <li>Other process use: Please specify: <input type="text"/> 22762</li> </ul>	22760	<input type="text"/> %

*Non-process: non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).*

<ul style="list-style-type: none"> <li>Facility heating, ventilation, and air conditioning</li> </ul>	22770	<input type="text"/> %
<ul style="list-style-type: none"> <li>Facility support other than that reported above (e.g., cooking, water heating, office equipment)</li> </ul>	22790	<input type="text"/> %
<ul style="list-style-type: none"> <li>On-site transportation, excluding highway usage (e.g., forklifts)</li> </ul>	22800	<input type="text"/> %
<ul style="list-style-type: none"> <li>Conventional electricity generation</li> </ul>	22810	<input type="text"/> %
<ul style="list-style-type: none"> <li>Other non-process use: Please specify: <input type="text"/> 22822</li> </ul>	22820	<input type="text"/> %

**TOTAL 100%**





### Residual Fuel Oil: Total Purchased, Transferred, and Produced

	Census Use Only	<b>Residual Fuel Oil</b> <b>(numbers 5, 6, Navy Special and Bunker C)</b> ↓								
<b>44. Enter the total quantity of residual fuel purchased by and delivered to this establishment during 2022, regardless of when payment was made.</b>	21010	<div style="border: 1px solid black; height: 20px; width: 100%; margin-bottom: 5px;"></div> Barrels								
<b>45. Enter total expenditures; including all applicable taxes and fees for the purchased residual fuel reported in question 44.</b>	21020	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%; text-align: center;">\$Bil.</th> <th style="width: 25%; text-align: center;">Mil.</th> <th style="width: 25%; text-align: center;">Thou.</th> <th style="width: 25%; text-align: center;">Dol.</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; text-align: center;"> </td> <td style="border: 1px solid black; text-align: center;"> </td> <td style="border: 1px solid black; text-align: center;"> </td> <td style="border: 1px solid black; text-align: center;"> </td> </tr> </tbody> </table> U.S. Dollars	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.							
<b>46. Excluding the quantity reported in question 44, did this establishment receive any additional residual fuel oil from another establishment that was not purchased?</b>	21031	<input type="checkbox"/> <b>1. Yes</b> <input type="checkbox"/> <b>2. No, skip to question 48.</b>								
<b>47. How much of this additional residual fuel oil was received from the other establishment?</b>	21030	<div style="border: 1px solid black; height: 20px; width: 100%; margin-bottom: 5px;"></div> Barrels								
<b>48. Enter the quantity of residual fuel produced on-site during 2022.</b>	21040	<div style="border: 1px solid black; height: 20px; width: 100%; margin-bottom: 5px;"></div> Barrels								

### Residual Fuel Oil: Consumption, Shipments, and Storage Capacity

<b>49. Enter the total quantity of residual fuel consumed as a fuel at this establishment during 2022.</b> <small>Include all uses that were used for the heat, power, and electricity generation.</small>	21060	<div style="border: 1px solid black; height: 20px; width: 100%; margin-bottom: 5px;"></div> Barrels
<b>50. Enter the total quantity of residual fuel consumed for any purpose other than fuel use at this establishment during 2022.</b> <small>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.</small>	21070	<div style="border: 1px solid black; height: 20px; width: 100%; margin-bottom: 5px;"></div> Barrels
<b>51. Enter the quantity of residual fuel shipped off-site during 2022.</b>	21080	<div style="border: 1px solid black; height: 20px; width: 100%; margin-bottom: 5px;"></div> Barrels
<b>52. Enter the shell or design storage capacity of all the storage tanks located on-site as of 12/31/22.</b>	21090	<div style="border: 1px solid black; height: 20px; width: 100%; margin-bottom: 5px;"></div> Barrels



### 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 49 (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.

53. Enter the percentage of total residual fuel (from question 49) that this establishment consumed as the following:

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

	Census Use Only	Residual Fuel
<ul style="list-style-type: none"> <li>• <b>Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process</b></li> </ul>	21705	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Other boiler fuel (not included above)</b> (includes fuels used for thermal outputs only)</li> </ul>	21710	<input type="text"/> %

*Process: process use includes usage in motors, ovens, kilns, and strip heaters.*

<ul style="list-style-type: none"> <li>• <b>Process heating</b> (e.g., kilns, furnaces, ovens, strip heaters)</li> </ul>	21720	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Process cooling and refrigeration</b></li> </ul>	21730	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Machine drive</b> (e.g., motors, pumps, etc. associated with manufacturing process equipment)</li> </ul>	21740	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Other process use:</b> Please specify: 21762 <input style="width: 200px; height: 20px;" type="text"/></li> </ul>	21760	<input type="text"/> %

*Non-process: non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).*

<ul style="list-style-type: none"> <li>• <b>Facility heating, ventilation, and air conditioning</b></li> </ul>	21770	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Facility support other than that reported above</b> (e.g., cooking, water heating, office equipment)</li> </ul>	21790	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Conventional electricity generation</b></li> </ul>	21810	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Other non-process use:</b> Please specify: 21822 <input style="width: 200px; height: 20px;" type="text"/></li> </ul>	21820	<input type="text"/> %

**TOTAL 100%**



## Butane, Ethane, and Propane

**54. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 <b>Butane (36)</b>	<b>Ethane (37)</b>	<b>Propane (38)</b>
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
Gallons	Gallons	Gallons

**55. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 54.**

020 <b>Butane (36)</b>	<b>Ethane (37)</b>	<b>Propane (38)</b>
\$Bil. Mil. Thou. Dol.	\$Bil. Mil. Thou. Dol.	\$Bil. Mil. Thou. Dol.
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
U.S. Dollars	U.S. Dollars	U.S. Dollars

**56. Excluding the quantity reported in question 54, did this establishment receive any additional material from another establishment that was not purchased?** (If you answer "Yes" to any of the alternatives below, please answer question 57. Otherwise, skip to question 58.)

031 <b>Butane (36)</b>	<b>Ethane (37)</b>	<b>Propane (38)</b>
<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No

**57. How much of this additional material was received from the other establishment?**

030 <b>Butane (36)</b>	<b>Ethane (37)</b>	<b>Propane (38)</b>
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
Gallons	Gallons	Gallons

**58. Enter the quantity produced on-site during 2022.**

040 <b>Butane (36)</b>	<b>Ethane (37)</b>	<b>Propane (38)</b>
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
Gallons	Gallons	Gallons

**59. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 <b>Butane (36)</b>	<b>Ethane (37)</b>	<b>Propane (38)</b>
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
Gallons	Gallons	Gallons

**60. Enter the total quantity consumed for any purpose other than fuel use at this establishment during 2022.**

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 <b>Butane (36)</b>	<b>Ethane (37)</b>	<b>Propane (38)</b>
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
Gallons	Gallons	Gallons

**61. Enter the quantity shipped off-site during 2022.**

080 <b>Butane (36)</b>	<b>Ethane (37)</b>	<b>Propane (38)</b>
<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
Gallons	Gallons	Gallons



## Total Mixtures and Other LPG

**62. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 **Mixtures of Butane,  
Ethane and Propane (34)**

Gallons

**Other Liquefied Petroleum Gases (LPG)  
and Natural Gas Liquids (NGL)**  
(e.g., butylene, ethylene, and propylene) (35)

Gallons

**63. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 62.**

020 **Mixtures of Butane,  
Ethane and Propane (34)**

\$Bil.    Mil.    Thou.    Dol.

--	--	--	--	--	--	--	--

U.S. Dollars

**Other LPGs and NGLs (35)**

\$Bil.    Mil.    Thou.    Dol.

--	--	--	--	--	--	--	--

U.S. Dollars

**64. Excluding the quantity reported in question 62, did this establishment receive any additional material from another establishment that was not purchased? (If you answer "Yes" to any of the alternatives below, please answer question 65. Otherwise, skip to question 66.)**

031 **Mixtures of Butane,  
Ethane and Propane (34)**

Yes

No

**Other LPGs and NGLs (35)**

Yes

No

**65. How much of this additional material was received from the other establishment?**

030 **Mixtures of Butane,  
Ethane and Propane (34)**

Gallons

**Other LPGs and NGLs (35)**

Gallons

**66. Enter the quantity produced on-site during 2022.**

040 **Mixtures of Butane,  
Ethane and Propane (34)**

Gallons

**Other LPGs and NGLs (35)**

Gallons

**67. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 **Mixtures of Butane,  
Ethane and Propane (34)**

Gallons

**Other LPGs and NGLs (35)**

Gallons



**Total Mixtures and Other LPG****68. Enter the total quantity consumed for any purpose other than fuel use at this establishment during 2022.**

**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

**Mixtures of Butane,  
Ethane and Propane (34)**

Gallons

**Other LPGs and NGLs (35)**

Gallons

**69. Enter the quantity shipped off-site during 2022.**

080

**Mixtures of Butane,  
Ethane and Propane (34)**

Gallons

**Other LPGs and NGLs (35)**

Gallons



### Total LPG and NGL: Estimated End-Use Percent Consumption

The following questions refer to how this establishment consumed the Total LPG and NGL that was previously reported in questions 59 + 67 (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.

70. Enter the percentage of Total LPG and NGL (question 59, Butane + question 59, Ethane + question 59, Propane + question 67, Mixtures + question 67, Other LPGs/NGLs) that this establishment consumed as the following:

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

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

*Process: process use includes usage in motors, ovens, kilns, and strip heaters.*

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

*Non-process: non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).*

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

**TOTAL 100%**



## Coal

**71. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 Anthracite (40)	Bituminous and Subbituminous (41)	Lignite (42)
<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>
Short tons	Short tons	Short tons

**72. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 71.**

020 Anthracite (40)	Bituminous and Subbituminous (41)	Lignite (42)
\$Bil. Mil. Thou. Dol.	\$Bil. Mil. Thou. Dol.	\$Bil. Mil. Thou. Dol.
<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>
U.S. Dollars	U.S. Dollars	U.S. Dollars

**73. Excluding the quantity reported in question 71, did this establishment receive any additional material from another establishment that was not purchased?** (If you answer "Yes" to any of the alternatives below, please answer question 74. Otherwise, skip to question 75.)

031 Anthracite (40)	Bituminous and Subbituminous (41)	Lignite (42)
<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes
<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No

**74. How much of this additional material was received from the other establishment?**

030 Anthracite (40)	Bituminous and Subbituminous (41)	Lignite (42)
<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>
Short tons	Short tons	Short tons

**75. Enter the quantity produced on-site during 2022.**

040 Anthracite (40)	Bituminous and Subbituminous (41)	Lignite (42)
<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>
Short tons	Short tons	Short tons

**76. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 Anthracite (40)	Bituminous and Subbituminous (41)	Lignite (42)
<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>
Short tons	Short tons	Short tons

**77. Enter the total quantity consumed for any purpose other than fuel use at this establishment during 2022.** 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 Anthracite (40)	Bituminous and Subbituminous (41)	Lignite (42)
<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>	<input style="width: 100%; height: 30px;" type="text"/>
Short tons	Short tons	Short tons



### Coal: Estimated End-Use Percent Consumption

The following questions refer to how this establishment consumed the coal that was previously reported in question 76 (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.

78. Enter the percentage of total coal (question 76, Anthracite + question 76, Bituminous/Subbituminous + question 76, Lignite) that this establishment consumed as the following:

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

	Census Use Only	Total Coal (exclude coal coke and breeze)
<ul style="list-style-type: none"> <li>• <b>Boiler fuel in a Combined Heat and Power (CHP) and/or cogeneration process</b></li> </ul>	46705	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Other boiler fuel (not included above)</b> (includes fuels used for thermal outputs only)</li> </ul>	46710	<input type="text"/> %

*Process: process use includes usage in motors, ovens, kilns, and strip heaters.*

<ul style="list-style-type: none"> <li>• <b>Process heating</b> (e.g., kilns, furnaces, ovens, strip heaters)</li> </ul>	46720	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Process cooling and refrigeration</b></li> </ul>	46730	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Machine drive</b> (e.g., motors, pumps, etc. associated with manufacturing process equipment)</li> </ul>	46740	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Other direct process use:</b> Please specify: <input type="text"/> 46761</li> </ul>	46760	<input type="text"/> %

*Non-process: non-process use includes usage for facility lighting and space-conditioning equipment (HVAC).*

<ul style="list-style-type: none"> <li>• <b>Facility heating, ventilation, and air conditioning</b></li> </ul>	46770	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Facility support other than that reported above</b> (e.g., cooking, water heating, office equipment)</li> </ul>	46790	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Conventional electricity generation</b></li> </ul>	46810	<input type="text"/> %
<ul style="list-style-type: none"> <li>• <b>Other direct non-process use:</b> Please specify: <input type="text"/> 46821</li> </ul>	46820	<input type="text"/> %

**TOTAL 100%**





## Breeze and Coal Coke

**79. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 **Breeze (44)**


Short tons

**Coal Coke (43)**


Short tons

**80. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 79.**

020 **Breeze (44)**

\$Bil.	Mil.	Thou.	Dol.

U.S. Dollars

**Coal Coke (43)**

\$Bil.	Mil.	Thou.	Dol.

U.S. Dollars

**81. Excluding the quantity reported in question 79, did this establishment receive any additional material from another establishment that was not purchased?** (If you answer "Yes" to any of the alternatives below, please answer question 82. Otherwise, skip to question 83.)

031 **Breeze (44)**

Yes

No

**Coal Coke (43)**

Yes

No

**82. How much of this additional material was received from the other establishment?**

030 **Breeze (44)**


Short tons

**Coal Coke (43)**


Short tons

**83. Enter the quantity produced on-site during 2022.**

040 **Breeze (44)**


Short tons

**Coal Coke (43)**


Short tons

**84. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 **Breeze (44)**


Short tons

**Coal Coke (43)**


Short tons

**85. Enter the total quantity consumed for any purpose other than fuel use at this establishment during 2022.**

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 **Breeze (44)**


Short tons

**Coal Coke (43)**


Short tons

**86. Enter the quantity shipped off-site during 2022.**

080 **Breeze (44)**


Short tons

**Coal Coke (43)**


Short tons



## Petroleum Cokes

**87. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 **Marketable Petroleum Coke -  
Unrefined or Green (78)**

Barrels

**Marketable Petroleum Coke -  
Calcined (79)**

Barrels

**88. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 87.**

020 **Unrefined or Green (78)**

\$Bil.    Mil.    Thou.    Dol.

--	--	--	--	--

U.S. Dollars

**Calcined (79)**

\$Bil.    Mil.    Thou.    Dol.

--	--	--	--	--

U.S. Dollars

**89. Excluding the quantity reported in question 87, did this establishment receive any additional material from another establishment that was not purchased? (If you answer "Yes" to any of the alternatives below, please answer question 90. Otherwise, skip to question 91.)**

031 **Unrefined or Green (78)**

Yes

No

**Calcined (79)**

Yes

No

**90. How much of this additional material was received from the other establishment?**

030 **Unrefined or Green (78)**

Barrels

**Calcined (79)**

Barrels

**91. Enter the quantity produced on-site during 2022.**

040 **Unrefined or Green (78)**

Barrels

**Calcined (79)**

Barrels

**92. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 **Unrefined or Green (78)**

Barrels

**Calcined (79)**

Barrels

**93. Enter the total quantity consumed for any purpose other than fuel use at this establishment during 2022.**

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 **Unrefined or Green (78)**

Barrels

**Calcined (79)**

Barrels

**94. Enter the quantity shipped off-site during 2022.**

080 **Unrefined or Green (78)**

Barrels

**Calcined (79)**

Barrels



## Kerosene and Motor Gasoline

**95. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 **Kerosene (27)**

Barrels

**Motor Gasoline (exclude off-site highway use) (23)**

Gallons

**96. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 95.**

020 **Kerosene (27)**

\$Bil.    Mil.    Thou.    Dol.

--	--	--	--

U.S. Dollars

**Motor Gasoline (exclude off-site highway use) (23)**

\$Bil.    Mil.    Thou.    Dol.

--	--	--	--

U.S. Dollars

**97. Excluding the quantity reported in question 95, did this establishment receive any additional material from another establishment that was not purchased?** (If you answer "Yes" to any of the alternatives below, please answer question 98. Otherwise, skip to question 99.)

031 **Kerosene (27)**

Yes

No

**Motor Gasoline (23)**

Yes

No

**98. How much of this additional material was received from the other establishment?**

030 **Kerosene (27)**

Barrels

**Motor Gasoline (exclude off-site highway use) (23)**

Gallons

**99. Enter the quantity produced on-site during 2022.**

040 **Kerosene (27)**

Barrels

**Motor Gasoline (exclude off-site highway use) (23)**

Gallons

**100. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 **Kerosene (27)**

Barrels

**Motor Gasoline (exclude off-site highway use) (23)**

Gallons

**101. Enter the total quantity consumed for any purpose other than fuel use at this establishment during 2022.**

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 **Kerosene (27)**

Barrels

**Motor Gasoline (exclude off-site highway use) (23)**

Gallons

**102. Enter the shell or design storage capacity of all the storage tanks located on-site as of 12/31/2022.**

090

**Motor Gasoline (exclude off-site highway use) (23)**

Gallons



## Naphtha and Heavier gas oils used for Petrochemical Feedstocks or Bitumen

**Naphtha** (boiling point below 401F) and heavier gas oils (boiling point above 401F) used as a petrochemical feedstock in the production of other materials should be included in the appropriate boxes in this section. Other oils, including waste oils, that are not used as a petrochemical feedstock should be included elsewhere in the questionnaire.

**Bitumen** is a material that comes from an oil refinery. Other names for bitumen include asphalt binder, liquid asphalt, and asphalt cement. In reporting your bitumen in the appropriate boxes in this section, please only include that material which most likely comes from an oil refinery.

**103. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 **Naphtha and Heavier Gas Oils**  
used for Petrochemical Feedstocks (75)

Short tons

**Bitumen (67)**

Short tons

**104. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 103.**

020 **Naphtha and Heavier Gas Oils (75)**  
\$Bil. Mil. Thou. Dol.

--	--	--	--	--	--	--	--

U.S. Dollars

**Bitumen (67)**  
\$Bil. Mil. Thou. Dol.

--	--	--	--	--	--	--	--

U.S. Dollars

**105. Excluding the quantity reported in question 103, did this establishment receive any additional material from another establishment that was not purchased?** (If you answer "Yes" to any of the alternatives below, please answer question 106. Otherwise, skip to question 107.)

031 **Naphtha and Heavier Gas Oils (75)**

- Yes
- No

**Bitumen (67)**

- Yes
- No

**106. How much of this additional material was received from the other establishment?**

030 **Naphtha and Heavier Gas Oils (75)**

Short tons

**Bitumen (67)**

Short tons

**107. Enter the quantity produced on-site during 2022.**

040 **Naphtha and Heavier Gas Oils (75)**

Short tons

**Bitumen (67)**

Short tons

**108. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 **Naphtha and Heavier Gas Oils (75)**

Short tons

**Bitumen (67)**

Short tons



*Naphtha and Heavier gas oils used for Petrochemical Feedstocks or Bitumen***109. Enter the total quantity consumed for any purpose other than fuel use at this establishment during 2022.**

**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 **Naphtha and Heavier Gas Oils (75)**

Short tons

**Bitumen (67)**

Short tons

**110. Enter the quantity shipped off-site during 2022.**080 **Naphtha and Heavier Gas Oils (75)**

Short tons

**Bitumen (67)**

Short tons



## Acetylene and Hydrogen

**111. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 Acetylene (64)

Cubic Feet

Hydrogen (63)

Million Btu

**112. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 111.**

020 Acetylene (64)

\$Bil.	Mil.	Thou.	Dol.

U.S. Dollars

Hydrogen (63)

\$Bil.	Mil.	Thou.	Dol.

U.S. Dollars

**113. Excluding the quantity reported in question 111, did this establishment receive any additional material from another establishment that was not purchased? (If you answer "Yes" to any of the alternatives below, please answer question 114. Otherwise, skip to question 115.)**

031 Acetylene (64)

Yes

No

Hydrogen (63)

Yes

No

**114. How much of this additional material was received from the other establishment?**

030 Acetylene (64)

Cubic Feet

Hydrogen (63)

Million Btu

**115. Enter the quantity produced on-site during 2022.**

040 Acetylene (64)

Cubic Feet

Hydrogen (63)

Million Btu

**116. Does the quantity of hydrogen reported in produced on-site above represent the product or byproduct of another energy source consumed on-site?**

Hydrogen (63050)

Yes, product or byproduct

No

**117. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 Acetylene (64)

Cubic Feet

Hydrogen (63)

Million Btu



## Acetylene and Hydrogen

**118. Enter the total quantity consumed for any purpose other than fuel use at this establishment during 2022.**

**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

**Acetylene (64)**

Cubic Feet

**Hydrogen (63)**

Million Btu

**119. Enter the quantity shipped off-site during 2022.**

080

**Acetylene (64)**

Cubic Feet

**Hydrogen (63)**

Million Btu



### Wood Harvested Directly from Trees

<p><b>120. Enter the total quantity of wood harvested directly from trees purchased by and delivered to this establishment during 2022, for fuel uses only, regardless of when payment was made.</b></p>	<p>Census Use Only 83010</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p style="text-align: center;">Million Btu</p>								
<p><b>121. Enter total expenditures; including all applicable taxes and any delivery, management, transportation, and demand charges, for the quantity reported in question 120.</b></p>	<p>83020</p>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; border: none;">\$Bil.</th> <th style="text-align: center; border: none;">Mil.</th> <th style="text-align: center; border: none;">Thou.</th> <th style="text-align: center; border: none;">Dol.</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> <td style="border: 1px solid black; width: 25%; height: 20px;"></td> </tr> </tbody> </table> <p style="text-align: center;">U.S. Dollars</p>	\$Bil.	Mil.	Thou.	Dol.				
\$Bil.	Mil.	Thou.	Dol.							
<p><b>122. Excluding the quantity reported in question 120, did this establishment receive any additional material from another establishment that was not purchased?</b></p>	<p>83031</p>	<p><input type="checkbox"/> <b>1. Yes</b></p> <p><input type="checkbox"/> <b>2. No, skip to question 124.</b></p>								
<p><b>123. How much of this additional material was received from the other establishment?</b></p>	<p>83030</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p style="text-align: center;">Million Btu</p>								
<p><b>124. Enter the quantity of wood harvested directly from trees produced on-site during 2022.</b></p>	<p>83040</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p style="text-align: center;">Million Btu</p>								
<p><b>125. Enter the total quantity of wood harvested directly from trees consumed as a fuel at this establishment during 2022.</b></p> <p>Include all uses that were used for the heat, power, and electricity generation.</p>	<p>83060</p>	<div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p style="text-align: center;">Million Btu</p>								





## Blast Furnace Gas and Coke Oven Gas

Please answer the next two questions only if your establishment is classified in NAICS 331110 (Iron and Steel Mills and Ferroalloy Manufacturing). Otherwise, skip to question 128.

**126. Did this establishment produce any blast furnace or coke oven gases in 2022?**

Yes (60001)

No

**127. Was an electric arc furnace used at this establishment in 2022?**

Yes (60002)

No

**128. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 **Blast Furnace (60)**

Million Btu

**Coke Oven Gas (61)**

Million Btu

**129. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 128.**

020 **Blast Furnace (60)**

\$Bil.	Mil.	Thou.	Dol.

U.S. Dollars

**Coke Oven Gas (61)**

\$Bil.	Mil.	Thou.	Dol.

U.S. Dollars

**130. Excluding the quantity reported in question 128, did this establishment receive any additional material from another establishment that was not purchased?** (If you answer "Yes" to any of the alternatives below, please answer question 131. Otherwise, skip to question 132.)

031 **Blast Furnace (60)**

Yes

No

**Coke Oven Gas (61)**

Yes

No

**131. How much of this additional material was received from the other establishment?**

030 **Blast Furnace (60)**

Million Btu

**Coke Oven Gas (61)**

Million Btu

**132. Enter the quantity produced on-site during 2022.**

040 **Blast Furnace (60)**

Million Btu

**Coke Oven Gas (61)**

Million Btu



**Blast Furnace Gas and Coke Oven Gas****133. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 **Blast Furnace (60)**

Million Btu

**Coke Oven Gas (61)**

Million Btu

**134. Enter the quantity shipped off-site during 2022.**080 **Blast Furnace (60)**

Million Btu

**Coke Oven Gas (61)**

Million Btu



## Waste Oils and Tars, and Waste Byproduct Gases

**135. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 **Waste Oils and Tars  
(excluding Coal Tar) (71)**

Million Btu

**Waste and Byproduct Gases(e.g., refinery gas,  
off gas, vent gas, plant gas, still gas) (62)**

Million Btu

**136. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 135.**

020 **Waste Oils and Tars (71)**

\$Bil.    Mil.    Thou.    Dol.

--	--	--	--

U.S. Dollars

**Waste and Byproduct Gases (62)**

\$Bil.    Mil.    Thou.    Dol.

--	--	--	--

U.S. Dollars

**137. Excluding the quantity reported in question 135, did this establishment receive any additional material from another establishment that was not purchased? (If you answer "Yes" to any of the alternatives below, please answer question 138. Otherwise, skip to question 139.)**

031 **Waste Oils and Tars (71)**

Yes

No

**Waste and Byproduct Gases (62)**

Yes

No

**138. How much of this additional material was received from the other establishment?**

030 **Waste Oils and Tars (71)**

Million Btu

**Waste and Byproduct Gases (62)**

Million Btu

**139. Enter the quantity produced on-site during 2022.**

040 **Waste Oils and Tars (71)**

Million Btu

**Waste and Byproduct Gases (62)**

Million Btu

**140. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 **Waste Oils and Tars (71)**

Million Btu

**Waste and Byproduct Gases (62)**

Million Btu

**141. Enter the total quantity consumed for any purpose other than fuel use at this establishment during 2022.**

**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 **Waste Oils and Tars (71)**

Million Btu

**Waste and Byproduct Gases (62)**

Million Btu



### Tire-Derived Fuel (TDF)

	Census Use Only	<b>Tire-Derived Fuel (TDF)</b> ↓												
<b>142. Enter the total quantity of tire-derived fuel purchased by and delivered to this establishment during 2022, regardless of when payment was made.</b>	65010	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Short Tons												
<b>143. Enter total expenditures; including all applicable taxes and fees for the purchased tire-derived fuel reported in question 142.</b>	65020	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%; text-align: center;">\$Bil.</th> <th style="width: 25%; text-align: center;">Mil.</th> <th style="width: 25%; text-align: center;">Thou.</th> <th style="width: 25%; text-align: center;">Dol.</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; text-align: center;">         </td> <td style="border: 1px solid black; text-align: center;">         </td> <td style="border: 1px solid black; text-align: center;">         </td> <td style="border: 1px solid black; text-align: center;">         </td> </tr> <tr> <td colspan="4" style="text-align: center;">U.S. Dollars</td> </tr> </tbody> </table>	\$Bil.	Mil.	Thou.	Dol.					U.S. Dollars			
\$Bil.	Mil.	Thou.	Dol.											
U.S. Dollars														
<b>144. Excluding the quantity reported in question 142, did this establishment receive any additional tire-derived fuel from another establishment that was not purchased?</b>	65031	<input type="checkbox"/> <b>1. Yes</b> <input type="checkbox"/> <b>2. No, skip to question 146.</b>												
<b>145. How much of this additional tire-derived fuel was received from the other establishment.</b>	65030	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Short Tons												
<b>146. Enter the quantity of tire-derived fuel produced on-site during 2022.</b>	65040	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Short Tons												
<b>147. Does the quantity of tire-derived fuel reported in question 146 represent the product or byproduct of another energy source consumed on-site?</b>	65050	<input type="checkbox"/> <b>1. Yes, product or byproduct</b> <input type="checkbox"/> <b>2. No</b>												
<b>148. Enter the total quantity of tire-derived fuel consumed as a fuel at this establishment during 2022.</b> <small>Include all uses that were used for the heat, power, and electricity generation.</small>	65060	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Short Tons												



## Pulping Black Liquor and Agricultural Waste

**149. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 **Pulping Black Liquor (73)**

Million Btu

**Agricultural Waste (e.g., bagasse, rice hulls, nut shells, orchard prunings) (90)**

Million Btu

**150. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 149.**

020 **Pulping Black Liquor (73)**

\$Bil.	Mil.	Thou.	Dol.

U.S. Dollars

**Agricultural Waste (90)**

\$Bil.	Mil.	Thou.	Dol.

U.S. Dollars

**151. Excluding the quantity reported in question 149, did this establishment receive any additional material from another establishment that was not purchased?** (If you answer "Yes" to any of the alternatives below, please answer question 152. Otherwise, skip to question 153.)

031 **Pulping Black Liquor (73)**

Yes

No

**Agricultural Waste (90)**

Yes

No

**152. How much of this additional material was received from the other establishment?**

030 **Pulping Black Liquor (73)**

Million Btu

**Agricultural Waste (90)**

Million Btu

**153. Enter the quantity produced on-site during 2022.**

040 **Pulping Black Liquor (73)**

Million Btu

**Agricultural Waste (90)**

Million Btu

**154. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 **Pulping Black Liquor (73)**

Million Btu

**Agricultural Waste (90)**

Million Btu



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

**155. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010 **Wood Residues and Byproducts  
from Mill Processing  
(e.g., sawdust, shavings, slabs, bark) (84)**

Million Btu

**Wood / Paper-Related Refuse  
(e.g., scrap, wastepaper, wood pallets,  
packing materials) (72)**

Million Btu

**156. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 155.**

020 **Wood Residues and Byproducts  
from Mill Processing (84)**

\$Bil.    Mil.    Thou.    Dol.

--	--	--	--	--	--	--	--

U.S. Dollars

**Wood / Paper-Related Refuse (72)**

\$Bil.    Mil.    Thou.    Dol.

--	--	--	--	--	--	--	--

U.S. Dollars

**157. Excluding the quantity reported in question 155, did this establishment receive any additional material from another establishment that was not purchased? (If you answer "Yes" to any of the alternatives below, please answer question 158. Otherwise, skip to question 159.)**

031 **Wood Residues and Byproducts  
from Mill Processing (84)**

Yes

No

**Wood / Paper-Related Refuse (72)**

Yes

No

**158. How much of this additional material was received from the other establishment?**

030 **Wood Residues and Byproducts  
from Mill Processing (84)**

Million Btu

**Wood / Paper-Related Refuse (72)**

Million Btu

**159. Enter the quantity produced on-site during 2022.**

040 **Wood Residues and Byproducts  
from Mill Processing (84)**

Million Btu

**Wood / Paper-Related Refuse (72)**

Million Btu

**160. Enter the total quantity consumed as a fuel at this establishment during 2022.**

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 **Wood Residues and Byproducts  
from Mill Processing (84)**

Million Btu

**Wood / Paper-Related Refuse (72)**

Million Btu





## *Steam and Industrial Hot Water*

**168. How much of this additional material was received from the other establishment?**

050

**Steam (11)****Industrial Hot Water (12)**



Million Btu

Million Btu

**169. Enter the quantity of steam or hot water generated on-site from each of the following:**
**Steam (11)**  
 Million Btu

**Industrial Hot Water (12)**  
 Million Btu

- **Solar Power (081)**



- **Wind Power (082)**



- **Hydropower (083)**



- **Geothermal Power (084)**


**170. Enter the quantity sold or transferred out of this establishment during 2022.**

**Include** quantities exchanged for the same or any other material.

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

110

**Steam (11)****Industrial Hot Water (12)**



Million Btu

Million Btu





### Other Types Used as Energy

**171. 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	981	980
<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>
Type (91)	Type (93)	Type (95)
<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>
Units (91)	Units (93)	Units (95)

**172. Enter the total quantity purchased by and delivered to this establishment during 2022, regardless of when payment was made.**

010		
<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>
Units (91)	Units (93)	Units (95)

**173. Enter total expenditures; including all applicable taxes and fees for the quantity reported in question 172.**

020		
\$Bil. Mil. Thou. Dol.	\$Bil. Mil. Thou. Dol.	\$Bil. Mil. Thou. Dol.
<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>
U.S. Dollars (91)	U.S. Dollars (93)	U.S. Dollars (95)

**174. Excluding the quantity reported in question 172, did this establishment receive any additional material from another establishment that was not purchased? (If you answer "Yes" to any of the alternatives below, please answer question 175. Otherwise, skip to question 176.)**

031		
<input type="checkbox"/> Yes (91)	<input type="checkbox"/> Yes (93)	<input type="checkbox"/> Yes (95)
<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No

**175. How much of this additional material was received from the other establishment?**

030		
<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>
Units (91)	Units (93)	Units (95)

**176. Enter the quantity produced on-site during 2022.**

040		
<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>	<input style="width: 100%; height: 25px;" type="text"/>
Units (91)	Units (93)	Units (95)

**177. Does the quantity reported in produced on-site represent the product or byproduct of another energy source consumed on-site?**

<input type="checkbox"/> 1. Yes, product or byproduct	<input type="checkbox"/> 1. Yes, product or byproduct	<input type="checkbox"/> 1. Yes, product or byproduct
<input type="checkbox"/> 2. No (91050)	<input type="checkbox"/> 2. No (93050)	<input type="checkbox"/> 2. No (95050)



### *Other Types Used as Energy*

**178. Enter the total quantity consumed as a fuel at this establishment during 2022.**

Include all uses for the heat, power, and electricity generation. Also, include fuel consumed by vehicles intended primarily for use on-site.

060

Units (91)

Units (93)

Units (95)

**179. Enter the total quantity consumed for any purpose other than fuel use at this establishment during 2022.**

**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

Units (91)

Units (93)

Units (95)



## *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 2022, 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 2022.

Equipment limitations include:

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

Practical reasons include:

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

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

- This section is intended to measure your capability to switch, not whether you would switch if you could.
- When estimating your capability to substitute other fuels for electricity receipts, please consider the fuels that could be used to generate electricity onsite, as well as those that could be directly substituted in combustors.
- If records of fuel-switching capability are not regularly maintained, reasonable approximations are acceptable.
- You will be asked to provide your not switchable amount first, then the switchable.
- 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 set of 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.

**180.** Refer back to the Electricity section, question 7 page 8.  
Please enter the quantity of reported purchased electricity.

**181.** Refer back to the Electricity section, question 14 page 8.  
Please enter the quantity of reported transferred electricity.

**182. Add lines from question 180 and 181**  
(question 180 + question 181). **Enter the total in the box.**

10503

**183.** Refer back to the Natural Gas section, question 31 page 12.  
Please enter the quantity of reported natural gas consumed.  
Enter the figure in the box.

30503

**184.** Refer back to the Coal section, question 76 page 23. Please  
add the quantity of any reported anthracite, bituminous and  
subbituminous and lignite consumed. Enter the total in the  
box.

46503

	Census Use Only	(10)	(30)	(46)
		<b>Total Electricity Received</b> <b>Purchases + transfers</b>  ↓	<b>Total Natural Gas</b>  ↓	<b>Total ALL Coal</b> <b>(excluding Coal Coke &amp; Breeze)</b>  ↓
<b>185. Enter the total quantity of fuel (column) you reported as consumed during 2022.</b>  Copy this figure from the above worksheet questions.	500	<input style="width: 100%; height: 100%;" type="text"/>  Kilowatthours  Enter figure from question 182.	<input style="width: 100%; height: 100%;" type="text"/>  Units  Enter figure from question 183.	<input style="width: 100%; height: 100%;" type="text"/>  Short tons  Enter figure from question 184.
<b>186. Is the total quantity reported in question 185 greater than zero?</b>	501	<input type="checkbox"/> 1. Yes  <input type="checkbox"/> 2. No: Skip to question 185, next column.	<input type="checkbox"/> 1. Yes  <input type="checkbox"/> 2. No: Skip to question 185, next column.	<input type="checkbox"/> 1. Yes  <input type="checkbox"/> 2. No: Skip to question 201, page 50.
<b>187. Enter the amount of the total quantity you reported in question 185 that could NOT have been replaced within 30 days by another fuel during 2022.</b>  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%; height: 100%;" type="text"/>  Kilowatthours	<input style="width: 100%; height: 100%;" type="text"/>  Units	<input style="width: 100%; height: 100%;" type="text"/>  Short tons



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

	Census Use Only	(10)	(30)	(46)
		<b>Total Electricity Received</b>  <b>Purchases + transfers</b>  ↓	<b>Total Natural Gas</b>  ↓	<b>Total ALL Coal</b>  <b>(excluding Coal Coke &amp; Breeze)</b>  ↓
<b>188. Is the total quantity in question 187 equal to zero?</b>	511	<input type="checkbox"/> 1. Yes: Skip to question 190.  <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 190.  <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 190.  <input type="checkbox"/> 2. No
<b>189. Referring to the quantity shown in question 187, please check all the reasons that made this quantity unswitchable.</b>				
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
<b>Other</b>	999	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<b>Please specify other:</b>	998	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>



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

	Census Use Only	(10)	(30)	(46)
		<b>Total Electricity Received</b> <b>Purchases + transfers</b> ↓	<b>Total Natural Gas</b> ↓	<b>Total ALL Coal</b> <b>(excluding Coal Coke &amp; Breeze)</b> ↓
<p><b>190. Enter the results of subtracting the quantity reported in question 187 from the quantity reported in question 185.</b></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 2022.</p> <p>Note: the sum of the quantities in question 191 through 198 should equal or exceed this quantity.</p>	520	<input type="text"/> Kilowatthours	<input type="text"/> Units	<input type="text"/> Short tons
<p><b>191. Is the total quantity reported in question 190 greater than zero?</b></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 question 201, page 50.
<p><b>192. Of the quantity switchable in question 190 what is the maximum amount that could have been replaced by <u>electricity</u>?</b></p>	530		<input type="text"/> Units	<input type="text"/> Short tons
<p><b>193. Of the quantity reported as switchable in question 190 what is the maximum amount that could have been replaced by <u>total coal, excluding coal coke and breeze</u>?</b></p>	670	<input type="text"/> Kilowatthours	<input type="text"/> Units	
<p><b>194. Of the quantity reported as switchable in question 190 what is the maximum amount that could have been replaced by <u>total coal coke and breeze, excluding coal</u>?</b></p>	690	<input type="text"/> Kilowatthours	<input type="text"/> Units	
<p><b>195. Of the quantity reported as switchable in question 190 what is the maximum amount that could have been replaced by <u>natural gas</u>?</b></p>	570	<input type="text"/> Kilowatthours		<input type="text"/> Short tons



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

	Census Use Only	(10)	(30)	(46)
		<b>Total Electricity Received</b>  Transfers + purchase  ↓	<b>Total Natural Gas</b>  ↓	<b>Total ALL Coal</b>  (excluding Coal Coke & Breeze)  ↓
<b>196. Of the quantity reported as switchable in question 190 what is the maximum amount that could have been replaced by <u>total diesel fuel and distillate fuel oil</u>?</b>	590	<input type="text"/> Kilowatthours	<input type="text"/> Units	<input type="text"/> Short tons
<b>197. Of the quantity reported as switchable in question 190 what is the maximum amount that could have been replaced by <u>liquefied petroleum gas (LPG)</u>?</b>	610	<input type="text"/> Kilowatthours	<input type="text"/> Units	<input type="text"/> Short tons
<b>198. Of the quantity reported as switchable in question 190 what is the maximum amount that could have been replaced by <u>residual fuel oil</u>?</b>	630	<input type="text"/> Kilowatthours	<input type="text"/> Units	<input type="text"/> Short tons
<b>199. Of the quantity reported as switchable in question 190 what is the maximum amount that could have been replaced by any other energy source not already asked about?</b>	650	<input type="text"/> Kilowatthours	<input type="text"/> Units	<input type="text"/> Short tons
<b>Please Specify:</b>	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 2022 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  622	(10)	(30)	(46)
		<b>Total Electricity Received</b>	<b>Total Natural Gas</b>	<b>Total ALL Coal</b>
		Transfers + purchase  ↓	  ↓	(excluding Coal Coke & Breeze)  ↓
Check one for each energy source (column) reported				
<b>200. Would not switch regardless of price difference.</b>		<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<b>Would switch at price difference 1-10 percent.</b>		<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
<b>Would switch at price difference 11-25 percent.</b>		<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
<b>Would switch at price difference 26-50 percent.</b>		<input type="checkbox"/> 4	<input type="checkbox"/> 4	<input type="checkbox"/> 4
<b>Would switch at price difference over 50 percent.</b>		<input type="checkbox"/> 5	<input type="checkbox"/> 5	<input type="checkbox"/> 5
<b>Reasonable estimates cannot be provided.</b>		<input type="checkbox"/> 6	<input type="checkbox"/> 6	<input type="checkbox"/> 6
<b>Would switch to the more expensive substitute if price premium were reasonable.</b>		<input type="checkbox"/> 7	<input type="checkbox"/> 7	<input type="checkbox"/> 7





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

- Capability to use substitute energy sources means that this establishment's combustors (for example, boilers, furnaces, ovens, blast furnaces) had the equipment, either in place or available for installation in 2022, 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 2022.

Equipment limitations include:

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

Practical reasons include:

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

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

- This section is intended to measure your capability to switch, not whether you would switch if you could.
- When estimating your capability to substitute other fuels for electricity receipts, please consider the fuels that could be used to generate electricity onsite, as well as those that could be directly substituted in combustors.
- If records of fuel-switching capability are not regularly maintained, reasonable approximations are acceptable.
- You will be asked to provide your not switchable amount first, then the switchable.
- 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 set of 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.

<b>201.</b> Refer back to the LPG section, question 59 page 19. Please add the quantity of reported butane, ethane, and propane consumed.	<input style="width: 100%; height: 20px;" type="text"/>
<b>202.</b> Refer back to the LPG section, question 67 page 20. Please add the quantity of reported mixtures and other LPG & NGL consumed.	<input style="width: 100%; height: 20px;" type="text"/>
<b>203. Add lines from question 201 and 202</b> (question 201 + question 202). <b>Enter the total in the box.</b>	24503 <input style="width: 100%; height: 20px;" type="text"/>
<b>204.</b> Refer back to the Diesel and Distillate Fuel section, question 39 page 14. Please add the reported quantity of diesel and distillate fuel consumed. Enter the figure in the box.	22503 <input style="width: 100%; height: 20px;" type="text"/>
<b>205.</b> Refer back to the Residual Fuel section, question 49 page 17. Please enter the reported quantity of residual fuel consumed. Enter the figure in the box.	21503 <input style="width: 100%; height: 20px;" type="text"/>

	Census Use Only	(24)	(22)	(21)
		<b>Total LPG &amp; NGL</b>	<b>Total Diesel Fuel &amp; Distillate Fuel Oil</b>	<b>Residual Fuel Oil</b>
		↓	↓	↓
<b>206. Enter the total quantity of fuel (column) you reported as consumed during 2022.</b>  Copy this figure from the above worksheet questions.	500	<input style="width: 100%; height: 20px;" type="text"/> Gallons <b>Enter figure from question 203.</b>	<input style="width: 100%; height: 20px;" type="text"/> Barrels <b>Enter figure from question 204.</b>	<input style="width: 100%; height: 20px;" type="text"/> Barrels <b>Enter figure from question 205.</b>
<b>207. Is the total quantity reported in question 206 greater than zero?</b>	501	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to question 206, next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to question 206, next column.	<input type="checkbox"/> 1. Yes <input type="checkbox"/> 2. No: Skip to question 222, page 55.
<b>208. Enter the amount of the total quantity you reported in question 206 that could NOT have been replaced within 30 days by another fuel during 2022.</b>  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%; height: 20px;" type="text"/> Gallons	<input style="width: 100%; height: 20px;" type="text"/> Barrels	<input style="width: 100%; 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
		↓	↓	↓
<b>209. Is the total quantity in question 208 equal to zero?</b>	511	<input type="checkbox"/> 1. Yes: Skip to question 211. <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 211. <input type="checkbox"/> 2. No	<input type="checkbox"/> 1. Yes: Skip to question 211. <input type="checkbox"/> 2. No
<b>210. Referring to the quantity shown in question 208, please check all the reasons that made this quantity unswitchable.</b>				
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
<b>Other</b>	999	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<b>Please specify other:</b>	998	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>	<input style="width: 100px; height: 20px;" type="text"/>



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

	Census Use Only	(24)	(22)	(21)
		Total LPG & NGL	Total Diesel Fuel & Distillate Fuel Oil	Residual Fuel Oil
		↓	↓	↓
<p><b>211. Enter the results of subtracting the quantity reported in question 208 from the quantity reported in question 206.</b></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 2022.</p> <p>Note: the sum of the quantities in question 213 through 220 should equal or exceed this quantity.</p>	520	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Barrels	<input style="width: 100px; height: 20px;" type="text"/> Barrels
<p><b>212. Is the total quantity reported in question 211 greater than zero?</b></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 question 222, page 55.
<p><b>213. Of the quantity switchable in question 211 what is the maximum amount that could have been replaced by <u>electricity</u>?</b></p>	530	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Barrels	<input style="width: 100px; height: 20px;" type="text"/> Barrels
<p><b>214. Of the quantity reported as switchable in question 211 what is the maximum amount that could have been replaced by <u>total coal, excluding coal coke and breeze</u>?</b></p>	670	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Barrels	<input style="width: 100px; height: 20px;" type="text"/> Barrels
<p><b>215. Of the quantity reported as switchable in question 211 what is the maximum amount that could have been replaced by <u>total coal coke and breeze, excluding coal</u>?</b></p>	690	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Barrels	<input style="width: 100px; height: 20px;" type="text"/> Barrels
<p><b>216. Of the quantity reported as switchable in question 211 what is the maximum amount that could have been replaced by <u>natural gas</u>?</b></p>	570	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Barrels	<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)
		<b>Total LPG &amp; NGL</b>	<b>Total Diesel Fuel &amp; Distillate Fuel Oil</b>	<b>Residual Fuel Oil</b>
		↓	↓	↓
<b>217. Of the quantity reported as switchable in question 211 what is the maximum amount that could have been replaced by <u>total diesel fuel and distillate fuel oil</u>?</b>	590	<input type="text"/> Gallons		<input type="text"/> Barrels
<b>218. Of the quantity reported as switchable in question 211 what is the maximum amount that could have been replaced by <u>liquefied petroleum gas (LPG)</u>?</b>	610		<input type="text"/> Barrels	<input type="text"/> Barrels
<b>219. Of the quantity reported as switchable in question 211 what is the maximum amount that could have been replaced by <u>residual fuel oil</u>?</b>	630	<input type="text"/> Gallons	<input type="text"/> Barrels	
<b>220. Of the quantity reported as switchable in question 211 what is the maximum amount that could have been replaced by any other energy source not already asked about?</b>	650	<input type="text"/> Gallons	<input type="text"/> Barrels	<input type="text"/> Barrels
<b>Please Specify:</b>	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 2022 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)
		<b>Total LPG &amp; NGL</b>	<b>Total Diesel Fuel &amp; Distillate Fuel Oil</b>	<b>Residual Fuel Oil</b>
	622	↓	↓	↓
<b>Check one for each energy source (column) reported</b>				
<b>221. Would not switch regardless of price difference.</b>		<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 1
<b>Would switch at price difference 1-10 percent.</b>		<input type="checkbox"/> 2	<input type="checkbox"/> 2	<input type="checkbox"/> 2
<b>Would switch at price difference 11-25 percent.</b>		<input type="checkbox"/> 3	<input type="checkbox"/> 3	<input type="checkbox"/> 3
<b>Would switch at price difference 26-50 percent.</b>		<input type="checkbox"/> 4	<input type="checkbox"/> 4	<input type="checkbox"/> 4
<b>Would switch at price difference over 50 percent.</b>		<input type="checkbox"/> 5	<input type="checkbox"/> 5	<input type="checkbox"/> 5
<b>Reasonable estimates cannot be provided.</b>		<input type="checkbox"/> 6	<input type="checkbox"/> 6	<input type="checkbox"/> 6
<b>Would switch to the more expensive substitute if price premium were reasonable.</b>		<input type="checkbox"/> 7	<input type="checkbox"/> 7	<input type="checkbox"/> 7



## Energy-Management Activities

For questions 222 through 226:

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, 2022 and December 31, 2022.

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)
<b>222. Energy audit or assessment</b>	1 <input type="checkbox"/> Yes →	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
	2 <input type="checkbox"/> No (060)					
<b>223. Technical assistance</b> (e.g., consultation, demonstrations, engineering design or analysis)	1 <input type="checkbox"/> Yes →	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
	2 <input type="checkbox"/> No (070)					
<b>224. Technical information</b> (e.g., software, reference material)	1 <input type="checkbox"/> Yes →	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
	2 <input type="checkbox"/> No (072)					
<b>225. Training</b> (e.g., workshops, seminars, presentations)	1 <input type="checkbox"/> Yes →	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
	2 <input type="checkbox"/> No (074)					
<b>226. Financial assistance</b> (e.g., loans, tax credits, rebates, subsidies)	1 <input type="checkbox"/> Yes →	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
	2 <input type="checkbox"/> No (076)					



## Energy-Management Activities

### For Questions 227 through 233:

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, 2022 and December 31, 2022. For any activity for which you marked “Yes” please mark the source(s) of financial support for the activity. Please use sources defined above question 222.

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)
<b>227. Steam systems</b> (e.g., boilers, burners, insulation, piping, steam traps)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (120)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
<b>228. Compressed air systems</b> (e.g., compressor controls, drain traps, leak management, compressor or treatment equipment replacement)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (450)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
<b>229. Process heating systems</b> (e.g., insulation repair, burner controls, furnace repair, refractory replacement)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (140)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
<b>230. Process cooling and refrigeration systems</b> (e.g., insulation repair, use of free cooling, implementation of VSDs, refrigerant pressure balancing)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (160)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
<b>231. Machine drive</b> (e.g., variable speed drives, ramp speeds, 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"/>
<b>232. Facility HVAC system</b> (e.g., check filters, belts, duct maintenance, setback controls, equipment replacement and upgrade.)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (200)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>
<b>233. Facility lighting</b> (e.g., occupancy controls, daylight harvesting, efficient lamp upgrade)	1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> No (220)	3 <input type="checkbox"/>	4 <input type="checkbox"/>	7 <input type="checkbox"/>	8 <input type="checkbox"/>	9 <input type="checkbox"/>





## Energy-Management Activities

**For Questions 234 through 255:**

**These questions are intended to assess the awareness and implementation of energy management activities at your establishment. Please answer the following questions with respect to any activities implemented between January 1, 2022 and December 31, 2022.**

	Census Use Only	
<p><b>234.</b> Which statement best describes this establishment's management decision-making process. (Choose one)</p> <p>1. Energy use and consumption is increasingly becoming a higher priority for the company</p> <p>2. Management from time to time has supported projects to improve use and consumption</p> <p>3. Energy use and consumption are rarely a part of management decision making</p>	13501	<p>1 <input type="checkbox"/></p> <p>2 <input type="checkbox"/></p> <p>3 <input type="checkbox"/></p>
<p><b>235.</b> Is establishment management aware of programs (i.e., public or utility) dedicated to improving energy use and consumption? (Check all that apply)</p> <p>1. Superior Energy Performance</p> <p>2. Better Buildings, Better Plants</p> <p>3. ENERGY STAR</p> <p>4. Other - Specify <sup>13016</sup> <input style="width: 150px; height: 20px;" type="text"/></p> <p>5. None of the above</p>	13561 13562 13563 13564 13565	<p>1 <input type="checkbox"/></p> <p>2 <input type="checkbox"/></p> <p>3 <input type="checkbox"/></p> <p>4 <input type="checkbox"/></p> <p>5 <input type="checkbox"/></p>
<p><b>236.</b> Is this establishment aware of ISO 50001?</p>	13503	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No, Skip to question 238</p>
<p><b>237.</b> Is this establishment implementing ISO 50001?</p>	13504	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p>
<p><b>238.</b> Is energy efficiency a part of this establishment's purchasing decision?</p>	13506	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p> <p>3 <input type="checkbox"/> Don't Know</p>
<p><b>239.</b> Does this establishment have an energy use baseline for comparing energy use in future years?</p>	13507	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p> <p>3 <input type="checkbox"/> Don't Know</p>



### Energy-Management Activities

<p><b>240.</b> Does this establishment set goals for improving energy use?</p>	<p>Census Use Only 13508</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No, Skip to question 243</p> <p>3 <input type="checkbox"/> Don't Know, Skip to question 243</p>
<p><b>241.</b> Are these goals quantitative (e.g., 10% improvement)?</p>	<p>13509</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No</p> <p>3 <input type="checkbox"/> Don't Know</p>
<p><b>242.</b> Which of the following policies influenced energy usage goals set for this establishment (check all that apply):</p>	<p>13566 13567 13568 13569 13570</p>	<p>1 <input type="checkbox"/> Legal requirement</p> <p>2 <input type="checkbox"/> Voluntary programs</p> <p>3 <input type="checkbox"/> Corporate policy</p> <p>4 <input type="checkbox"/> Customer requirements</p> <p>5 <input type="checkbox"/> Government incentives</p>
<p><b>243.</b> Does management at this establishment assign a representative(s) to be responsible for energy management?</p>	<p>13512</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No, Skip to question 245</p> <p>3 <input type="checkbox"/> Don't Know, Skip to question 245</p>
<p><b>244.</b> What percentage of the designated representative(s) job responsibilities are related to managing energy (if more than one person responsible, use average across all persons)?</p>	<p>13513</p>	<p>1 <input type="checkbox"/> &lt; 25%</p> <p>2 <input type="checkbox"/> 25% - 49%</p> <p>3 <input type="checkbox"/> 50% - 74%</p> <p>4 <input type="checkbox"/> &gt; 75%</p>
<p><b>245.</b> Does this establishment have submetering (metering beyond the main utility, revenue or supplier meter)?</p>	<p>13514</p>	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No, Skip to question 247</p>
<p><b>246.</b> For which energy source(s) does this establishment use submetering?</p>	<p>13515 13580 13581  13017</p>	<p>1 <input type="checkbox"/> Electric</p> <p>2 <input type="checkbox"/> Natural Gas</p> <p>3 <input type="checkbox"/> Other - Specify ↴</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin-top: 5px;"></div>



### *Energy-Management Activities*

	Census Use Only	
<p><b>247.</b> Between January 1, 2022 and December 31, 2022, has the establishment conducted an audit on any energy system to identify potential energy saving opportunities?</p>	13518	<p>1 <input type="checkbox"/> Yes</p> <p>2 <input type="checkbox"/> No, Skip to question 249</p> <p>3 <input type="checkbox"/> Don't Know, Skip to question 249</p>
<p><b>248.</b> Which systems (check all that apply)?</p>	<p>13571</p> <p>13572</p> <p>13573</p> <p>13574</p> <p>13575</p> <p>13576</p> <p>13577</p> <p>13578</p> <p>13579</p>	<p>1 <input type="checkbox"/> Compressed air systems</p> <p>2 <input type="checkbox"/> Process heating systems</p> <p>3 <input type="checkbox"/> Steam systems</p> <p>4 <input type="checkbox"/> Process cooling and refrigeration systems</p> <p>5 <input type="checkbox"/> Computing systems</p> <p>6 <input type="checkbox"/> Facility HVAC</p> <p>7 <input type="checkbox"/> Facility lighting</p> <p>8 <input type="checkbox"/> Machine drives (e.g., motors, pumps, fans)</p> <p>9 <input type="checkbox"/> Plant wide</p>
<p><b>249.</b> For capital investment projects, what is the establishment's maximum simple payback (time period in years typically calculated as implementation cost divided by annual cost savings) that is currently allowed?</p>	13520	<p>1 <input type="checkbox"/> &lt; 1 year</p> <p>2 <input type="checkbox"/> 1-2 years</p> <p>3 <input type="checkbox"/> 2-3 years</p> <p>4 <input type="checkbox"/> 3-4 years</p> <p>5 <input type="checkbox"/> &gt; 4 years</p> <p>6 <input type="checkbox"/> Have no such requirement</p> <p>7 <input type="checkbox"/> Do not know</p>



### Energy-Management Activities

	Census Use Only	
<p><b>250.</b> Does your establishment measure oxygen and carbon dioxide (or combustible) levels in boiler and other fuel fired heating equipment flue gases to “tune” the burners?</p>	13476	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't Know
<p><b>251.</b> 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?</p>	13477	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't Know
<p><b>252.</b> Does your establishment's process heating system maintenance program include the following activities?</p>		
<p>a. Furnace inspections to seal openings and repair cracks and damaged insulation in furnace walls, doors, etc.</p>	13478	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't Know
<p>b. Cleaning of heat transfer surfaces to avoid build up of soot, scale, or other material.</p>	13479	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't Know
<p>c. Inspecting, calibrating, and adjusting temperature/pressure sensors, controllers, valve operators, etc.</p>	13480	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't Know
<p><b>253.</b> Do you keep an inventory of all motors in your establishment?</p>	13481	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't Know
<p><b>254.</b> Does your establishment have staff or equipment dedicated to detecting and controlling compressed air system leaks?</p>	13483	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't Know
<p><b>255.</b> Does your establishment track the amount of energy spent in compressed air systems?</p>	13484	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Don't Know



## Energy Technologies

	Census Use Only	
<p><b>256.</b> Were any of the following technologies in use at your establishment anytime during 2022?</p> <p><b>a.</b> Computer control of building-wide environment (e.g., space-heating equipment, cooling equipment, lights).</p>	14010	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
<p><b>b.</b> Computer control of processes or major energy-using equipment (e.g., boilers, furnaces, conveyors used in the manufacturing process).</p>	14020	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
<p><b>c.</b> Waste heat recovery.</p>	14030	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
<p><b>d.</b> Adjustable-speed motors.</p>	14040	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
<p><b>e.</b> Oxy-fuel firing.</p>	14950	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
<p><b>257.</b> Does your establishment have procedures in place to temporarily reduce electricity consumption in times of critical grid conditions (i.e., when the electric utility has indicated a need to reduce electric demand)?</p>	13516	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know
<p><b>258.</b> Are there controls in place to automate any procedures for reducing electricity demand in times of critical grid conditions (i.e., when the electric utility has indicated a need to reduce demand)?</p>	13517	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know



## Energy Technologies

		Census Use Only	
<p><b>259.</b> Were any of the following technologies associated with cogeneration in use at your establishment anytime during 2022?</p> <p><b>a.</b> Steam turbines supplied by either conventional or fluidized bed boilers.</p> <hr/> <p><b>b.</b> Conventional combustion turbines with heat recovery.</p> <hr/> <p><b>c.</b> Combined-cycle combustion turbines.</p> <hr/> <p><b>d.</b> Internal combustion engines with heat recovery.</p> <hr/> <p><b>e.</b> Steam turbines supplied by heat recovered from high-temperatures processes.</p> <hr/>	14042	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know	
	14043	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know	
	14044	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know	
	14045	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know	
	14046	<input type="checkbox"/> 1 Yes <input type="checkbox"/> 2 No <input type="checkbox"/> 3 Don't know	
<p><b>260.</b> How many buildings were on this establishment site as of December 31, 2022?</p> <p><b>Buildings include:</b> 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.</p> <p><b>Excluded buildings are:</b> 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).</p>	17010	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p style="text-align: center;"><b>Number of Buildings</b></p>	
<p><b>261.</b> What was the approximate total enclosed square footage of the buildings located on this establishment site as of December 31, 2022?</p>	13010	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p style="text-align: center;"><b>Total square feet</b></p>	



## *Remarks*

**262. 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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### **Thank You – Your Response is Important**

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