

**COUNTRY
ANNUAL QUESTIONNAIRE
ELECTRICITY & HEAT**
IEA - Eurostat - UNECE

ENGLISH

FRANÇAIS

EXPLANATORY NOTES

The objective of the electronic questionnaire is to facilitate data entry for administrations and at the same time to try to avoid errors, which would require a substantial time investment, both for the IEA and the national administrations, to correct.

To facilitate data entry, three options are provided:

- Data import using ASCII data transfers
- Data entry through time series
- Data entry through forms

The time series format enables the user to see the data for all the years for one given product/subject.

The forms format enables the user to choose the year they want to enter data for on all the tables.

The revision of historical data is allowed and encouraged. To assist the user in this process, the revised cells are highlighted in yellow.

Internal consistency checks can be run for one given year at a time. The error messages appear on a separate sheet at the end of the questionnaire. The user should consider error messages and try to correct the errors before returning the document to the IEA.

It is strongly recommended to read the user documentation for further setup instructions before working on the questionnaire.

Should you have any questions regarding the functions of this file or other logistics please do not hesitate to contact:

| | | |
|----------------|--|--|
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Member countries of the European Union are asked to also send a copy of this electronic questionnaire to Eurostat:
estat-energy@ec.europa.eu

Data entry menu:

Menu

TABLE 1. GROSS ELECTRICITY AND HEAT PRODUCTION: (TRANSFORMATION SECTOR)

Country

| 2010 | | MAIN ACTIVITY PRODUCER PLANTS | | | AUTOPRODUCER PLANTS | | | TOTAL | |
|---|----|-------------------------------|-----|-------------|---------------------|-----|-------------|------------------------|--------------|
| | | ELECTRICITY (ONLY) | CHP | HEAT (ONLY) | ELECTRICITY (ONLY) | CHP | HEAT (ONLY) | MAIN ACTIVITY PRODUCER | AUTOPRODUCER |
| ELECTRICITY UNIT: GWh (10 ⁶ kWh) | | A | B | C | D | E | F | G(=A+B+C) | H(=D+E+F) |
| Electricity | 1 | | | | | | | | |
| Nuclear | 2 | | | | | | | | |
| Hydro | 3 | | | | | | | | |
| <i>Pumped Hydro</i> | 4 | | | | | | | | |
| Geothermal | 5 | | | | | | | | |
| Solar | 6 | | | | | | | | |
| Tide, Wave and Ocean | 7 | | | | | | | | |
| Wind | 8 | | | | | | | | |
| Combustible Fuels | 9 | | | | | | | | |
| Heat from Chemical Sources | 10 | | | | | | | | |
| Other Sources | 11 | | | | | | | | |

HEAT Unit: TJ

| | | | | | | | | | |
|----------------------------|----|--|--|--|--|--|--|--|--|
| Heat | 12 | | | | | | | | |
| Nuclear | 13 | | | | | | | | |
| Geothermal | 14 | | | | | | | | |
| Solar | 15 | | | | | | | | |
| Combustible Fuels | 16 | | | | | | | | |
| Heat Pumps | 17 | | | | | | | | |
| Electric Boilers | 18 | | | | | | | | |
| Heat from Chemical Sources | 19 | | | | | | | | |
| Other Sources | 20 | | | | | | | | |

| | |
|--------------------------|--|
| Source(s) of shown data: | |
|--------------------------|--|

Columns D, E, F, H: Report all electricity production, all heat from chemical processes (as a primary energy from) but only that part of secondary heat production sold to third parties.

Rows 11 and 20: Please specify

TABLE 2. NET ELECTRICITY AND HEAT PRODUCTION : (TRANSFORMATION SECTOR)

Country

| 2010 | | MAIN ACTIVITY PRODUCER PLANTS | | | AUTOPRODUCER PLANTS | | | TOTAL | |
|---|----|-------------------------------|-----|-------------|---------------------|-----|-------------|------------------------|--------------|
| | | ELECTRICITY (ONLY) | CHP | HEAT (ONLY) | ELECTRICITY (ONLY) | CHP | HEAT (ONLY) | MAIN ACTIVITY PRODUCER | AUTOPRODUCER |
| ELECTRICITY UNIT: GWh (10 ⁶ kWh) | | A | B | C | D | E | F | G(=A+B+C) | H(=D+E+F) |
| Electricity | 1 | | | | | | | | |
| Nuclear | 2 | | | | | | | | |
| Hydro | 3 | | | | | | | | |
| <i>Pumped Hydro</i> | 4 | | | | | | | | |
| Geothermal | 5 | | | | | | | | |
| Solar | 6 | | | | | | | | |
| Tide, Wave and Ocean | 7 | | | | | | | | |
| Wind | 8 | | | | | | | | |
| Combustible Fuels | 9 | | | | | | | | |
| Heat from Chemical Sources | 10 | | | | | | | | |
| Other Sources | 11 | | | | | | | | |

HEAT Unit: TJ

| | | | | | | | | | |
|----------------------------|----|--|--|--|--|--|--|--|--|
| Heat | 12 | | | | | | | | |
| Nuclear | 13 | | | | | | | | |
| Geothermal | 14 | | | | | | | | |
| Solar | 15 | | | | | | | | |
| Combustible Fuels | 16 | | | | | | | | |
| Heat Pumps | 17 | | | | | | | | |
| Electric Boilers | 18 | | | | | | | | |
| Heat from Chemical Sources | 19 | | | | | | | | |
| Other Sources | 20 | | | | | | | | |

| | |
|--------------------------|--|
| Source(s) of shown data: | |
|--------------------------|--|

Columns D, E, F, H: Report all electricity production, all heat from chemical processes (as a primary energy from) but only that part of secondary heat production sold to third parties.
 Columns E, F: As only heat from chemical processes (as a primary energy from) and other heat sold to third parties are reported, net production equals gross production reported in Table 1 (Cells E12 to E20, F12 to F20).

TABLE 3. ELECTRICITY AND HEAT SUPPLY AND CONSUMPTION

Country

| 2010 | | | ELECTRICITY (GWh) | HEAT (TJ) |
|---------------------------------------|----|-----|--------------------------|------------------|
| | | | A | B |
| Total Gross Production | 1 | (=) | | |
| Own Use | 2 | (-) | | |
| Total Net Production | 3 | (=) | | |
| Total Imports (Balance) | 4 | (+) | | |
| Total Exports (Balance) | 5 | (-) | | |
| Used for Heat Pumps | 6 | (-) | | |
| Used for Electric Boilers | 7 | (-) | | |
| Used for Pumped Storage | 8 | (-) | | |
| Used for Electricity Production | 9 | (-) | | |
| Electricity/Heat Supply | 10 | (=) | | |
| Distribution Losses | 11 | (-) | | |
| Final Consumption (Calculated) | 12 | (=) | | |
| Statistical Differences | 13 | | | |
| Final Consumption (Observed) | 14 | | | |
| Energy Sector | 15 | | | |
| Industry Sector | 16 | | | |
| Transport Sector | 17 | | | |
| <i>Rail</i> | 18 | | | |
| <i>Pipeline Transport</i> | 19 | | | |
| <i>Non-specified (Transport)</i> | 20 | | | |
| Residential | 21 | | | |
| Commercial and Public Services | 22 | | | |
| Agriculture/Forestry | 23 | | | |
| Fishing | 24 | | | |
| Non-specified (Other) | 25 | | | |
| Source(s) of shown data: | | | | |

Row 1: Transfer data reported in Table 1, sum of G1 and H1 in Cell A1of Table 3. Transfer data reported in Table 1, sum of G12 and H12 in Cell B1 of Table 3.

Row 3: Transfer data reported in Table 2, sum of G1 and H1 in Cell A3 of Table 3. Transfer data reported in Table 2, sum of G12 and H12 in Cell B3 of Table 3

Row 14 : Report only heat production purchased from third parties in Cell B14

Row 16: Report detail in Table 4.

TABLE 4. ELECTRICITY AND HEAT CONSUMPTION IN INDUSTRY AND ENERGY SECTORS

Country

| 2010 | | ELECTRICITY (GWh) | HEAT (TJ) |
|--|----|-------------------|-----------|
| | | A | B |
| Energy Sector | 1 | | |
| Coal Mines | 2 | | |
| Oil and Gas Extraction | 3 | | |
| Patent Fuel Plants (Energy) | 4 | | |
| Coke Ovens (Energy) | 5 | | |
| BKB Plants (Energy) | 6 | | |
| Gas Works (Energy) | 7 | | |
| Blast Furnaces (Energy) | 8 | | |
| Petroleum Refineries | 9 | | |
| Nuclear Industry | 10 | | |
| Coal Liquefaction Plants (Energy) | 11 | | |
| Liquefaction (LNG) / Regasification Plants | 12 | | |
| Gasification Plants for Biogas | 13 | | |
| Gas-to-Liquids (GTL) Plants (Energy) | 14 | | |
| Charcoal Production Plants (Energy) | 15 | | |
| Non-specified (Energy) | 16 | | |

| | | | |
|------------------------------------|----|--|--|
| Industry Sector | 17 | | |
| Iron and Steel | 18 | | |
| Chemical (including Petrochemical) | 19 | | |
| Non-Ferrous Metals | 20 | | |
| Non-Metallic Minerals | 21 | | |
| Transport Equipment | 22 | | |
| Machinery | 23 | | |
| Mining and Quarrying | 24 | | |
| Food, Beverages and Tobacco | 25 | | |
| Paper, Pulp and Printing | 26 | | |
| Wood and Wood Products | 27 | | |
| Construction | 28 | | |
| Textiles and Leather | 29 | | |
| Non-specified (Industry) | 30 | | |

Source(s) of shown data:

Column B : Report only heat purchased from third parties.

Row 1: Cell A15 in Table 3. Cell B15 in Table 3.

Row 17: Cell A16 in Table 3. Cell B16 in Table 3.

**TABLE 5. NET ELECTRICITY PRODUCTION BY AUTOPRODUCERS
IN ELECTRICITY (ONLY) AND CHP PLANTS**

Unit = GWh

| Country | | | | |
|--|----|------------------------------|---------------|-------|
| 2010 | | ELECTRICITY (ONLY) PLANTS | CHP PLANTS | TOTAL |
| | | A | B | C |
| Total Net Production | 1 | | | |
| Energy Sector | 2 | | | |
| Coal Mines | 3 | | | |
| Oil and Gas Extraction | 4 | | | |
| Patent Fuel Plants (Energy) | 5 | | | |
| Coke Ovens (Energy) | 6 | | | |
| BKB Plants (Energy) | 7 | | | |
| Gas Works (Energy) | 8 | | | |
| Blast Furnaces (Energy) | 9 | | | |
| Petroleum Refineries | 10 | | | |
| Coal Liquefaction Plants (Energy) | 11 | | | |
| Liquefaction (LNG) / Regasification Plants | 12 | | | |
| Gasification Plants for Biogas | 13 | | | |
| Gas-to-Liquids (GTL) Plants (Energy) | 14 | | | |
| Charcoal Production Plants (Energy) | 15 | | | |
| Non-specified (Energy) | 16 | | | |
| Industry Sector | 17 | | | |
| Iron and Steel | 18 | | | |
| Chemical (including Petrochemical) | 19 | | | |
| Non-Ferrous Metals | 20 | | | |
| Non-Metallic Minerals | 21 | | | |
| Transport Equipment | 22 | | | |
| Machinery | 23 | | | |
| Mining and Quarrying | 24 | | | |
| Food, Beverages and Tobacco | 25 | | | |
| Paper, Pulp and Printing | 26 | | | |
| Wood and Wood Products | 27 | | | |
| Construction | 28 | | | |
| Textiles and Leather | 29 | | | |
| Non-specified (Industry) | 30 | | | |
| Transport Sector | 31 | | | |
| Rail | 32 | | | |
| Pipeline Transport | 33 | | | |
| Non-specified (Transport) | 34 | | | |
| Other Sectors | 35 | | | |
| Residential | 36 | | | |
| Commercial and Public Services | 37 | | | |
| Agriculture/Forestry | 38 | | | |
| Fishing | 39 | | | |
| Non-specified (Other) | 40 | | | |

Source(s) of above data:

Row 1: Cell A1 is equal to Cell D1 in Table 2. Cell B1 is equal to Cell E1 in Table 2. Cell C1 is equal to Cell H1 in Table 2.

**TABLE 5. NET HEAT PRODUCTION BY AUTOPRODUCERS
IN CHP AND HEAT (ONLY) PLANTS**

AUTOELEC

AUTOCHP

AUTOTOT

Country

Unit = TJ

| 2010 | | CHP PLANTS | HEAT (ONLY) PLANTS | TOTAL |
|--|----|------------|--------------------|-------|
| | | A | B | C |
| Total Net Production | 1 | | | |
| Energy Sector | 2 | | | |
| Coal Mines | 3 | | | |
| Oil and Gas Extraction | 4 | | | |
| Patent Fuel Plants (Energy) | 5 | | | |
| Coke Ovens (Energy) | 6 | | | |
| BKB Plants (Energy) | 7 | | | |
| Gas Works (Energy) | 8 | | | |
| Blast Furnaces (Energy) | 9 | | | |
| Petroleum Refineries | 10 | | | |
| Coal Liquefaction Plants (Energy) | 11 | | | |
| Liquefaction (LNG) / Regasification Plants | 12 | | | |
| Gasification Plants for Biogas | 13 | | | |
| Gas-to-Liquids (GTL) Plants (Energy) | 14 | | | |
| Charcoal Production Plants (Energy) | 15 | | | |
| Non-specified (Energy) | 16 | | | |
| Industry Sector | 17 | | | |
| Iron and Steel | 18 | | | |
| Chemical (including Petrochemical) | 19 | | | |
| Non-Ferrous Metals | 20 | | | |
| Non-Metallic Minerals | 21 | | | |
| Transport Equipment | 22 | | | |
| Machinery | 23 | | | |
| Mining and Quarrying | 24 | | | |
| Food, Beverages and Tobacco | 25 | | | |
| Paper, Pulp and Printing | 26 | | | |
| Wood and Wood Products | 27 | | | |
| Construction | 28 | | | |
| Textiles and Leather | 29 | | | |
| Non-specified (Industry) | 30 | | | |
| Transport Sector | 31 | | | |
| Rail | 32 | | | |
| Pipeline Transport | 33 | | | |
| Non-specified (Transport) | 34 | | | |
| Other Sectors | 35 | | | |
| Residential | 36 | | | |
| Commercial and Public Services | 37 | | | |
| Agriculture/Forestry | 38 | | | |
| Fishing | 39 | | | |
| Non-specified (Other) | 40 | | | |

| | |
|--------------------------|--|
| Source(s) of above data: | |
|--------------------------|--|

Row 1: Cell A1 is equal to Cell E12 in Table 2. Cell B1 is equal to Cell F12 in Table 2. Cell C1 is equal to Cell H12 in Table 2.

TABLE 6c. GROSS ELECTRICITY AND HEAT PRODUCTION FROM COMBUSTIBLE FUELS (TRANSFORMATION SECTOR)

Country

| 2010 | | | | MAIN ACTIVITY PRODUCER PLANTS | | | AUTOPRODUCER PLANTS | | | TOTAL | |
|-------------|-------------|-------|----------|-------------------------------|-----|-------------|---------------------|-----|-------------|-------------|------|
| | | | | ELECTRICITY (ONLY) | CHP | HEAT (ONLY) | ELECTRICITY (ONLY) | CHP | HEAT (ONLY) | ELECTRICITY | HEAT |
| FUELS | | UNITS | | A | B | C | D | E | F | G | H |
| NATURAL GAS | Fuel input | 1 | TJ (GCV) | | | | | | | | |
| | Elec. prod. | 2 | GWh | | | | | | | | |
| | Heat prod. | 3 | TJ | | | | | | | | |

Source(s) of shown data:

| | | | | | | | | | | | |
|-------|-------------|---|-----|--|--|--|--|--|--|--|--|
| TOTAL | Elec. prod. | 4 | GWh | | | | | | | | |
| | Heat prod. | 5 | TJ | | | | | | | | |

TABLE 6d. GROSS ELECTRICITY AND HEAT PRODUCTION FROM COMBUSTIBLE FUELS (TRANSFORMATION SECTOR)

Country

| 2010 | | | | MAIN ACTIVITY PRODUCER PLANTS | | | AUTOPRODUCER PLANTS | | | TOTAL | |
|-----------------------|-------------|----|-------------------|-------------------------------|-----|-------------|---------------------|-----|-------------|-------------|------|
| | | | | ELECTRICITY (ONLY) | CHP | HEAT (ONLY) | ELECTRICITY (ONLY) | CHP | HEAT (ONLY) | ELECTRICITY | HEAT |
| FUELS | | | UNITS | A | B | C | D | E | F | G | H |
| OTHER LIQUID BIOFUELS | Fuel input | 22 | 10 ³ t | | | | | | | | |
| | Fuel input | 23 | TJ (NCV) | | | | | | | | |
| | Elec. prod. | 24 | GWh | | | | | | | | |
| | Heat prod. | 25 | TJ | | | | | | | | |

Source(s) of shown data:

| | | | | | | | | | | | |
|-------|-------------|----|-----|--|--|--|--|--|--|--|--|
| TOTAL | Elec. prod. | 26 | GWh | | | | | | | | |
| | Heat prod. | 27 | TJ | | | | | | | | |

| | | | | | | | | | | | |
|------------------------------------|-------------|----|-----|--|--|--|--|--|--|--|--|
| TOTAL (Sum of Tables 6 a,b,c,d) | Elec. prod. | 28 | GWh | | | | | | | | |
| | Heat prod. | 29 | TJ | | | | | | | | |

Row 28: Cell A28 should be equal to Cell A9 in Table 1. Cell B28 equal to Cell B9 in Table 1. Cell D28 equal to Cell D9 in Table 1. Cell E28 equal to Cell E9 in Table 1.
 Cell G28 should be equal to the sum of Cell G9 and Cell H9 in Table 1.
 Row 29: Cell B29 should be equal to Cell B16 in Table 1. Cell C29 equal to Cell C16 in Table 1. Cell E29 equal to Cell E16 in Table 1. Cell F29 equal to Cell F16 in Table 1.
 Cell H29 should be equal to the sum of Cell G16 and Cell H16 in Table 1.

TABLE 7a. NET MAXIMUM ELECTRICAL CAPACITY AND PEAK LOAD

Country
2010

Unit = MWe

| CLASSIFICATION BY SOURCE | | MAIN ACTIVITY PRODUCERS | AUTOPRODUCERS |
|---|--|-------------------------|---------------|
| | | A | B |
| | 1 - Total Capacity | | |
| | 2 - Nuclear | | |
| | 3 - Hydro | | |
| | 4 - Pumped Hydro | | |
| | 5 - Geothermal | | |
| | 6 - Solar | | |
| | 7 - Tide, wave and ocean | | |
| | 8 - Wind | | |
| | 9 - Combustible Fuels | | |
| | 10 - Other Sources | | |
| Combustible Fuels: TYPE OF GENERATION | 11 - Total conventional thermal | | |
| | 12 - Steam | | |
| | 13 - Internal Combustion | | |
| | 14 - Gas Turbine | | |
| | 15 - Combined Cycle | | |
| | 16 - Other Type of Generation | | |

| PEAK LOAD INFORMATION | | MAIN ACTIVITY PRODUCERS | AUTOPRODUCERS |
|-----------------------|-----------------------------------|-------------------------|---------------|
| PEAK LOAD | 17 - Peak Load | | |
| | 18 - Capacity at Peak | | |
| | 19 - Date of Peak Load Occurrence | | |
| | 20 - Time of Peak Load Occurrence | | |

| | |
|--------------------------|--|
| Source(s) of above data: | |
|--------------------------|--|

Row 10: Please identify in the "Remarks Page" (e.g.: fuel cells, primary heat)

Row 11: Equal to the figure reported on Line 9.

Row 17: Maximum demand during the year.

Row 18: Capability of capacity at time of peak. Please indicate on Remarks page the difference between the net maximum capacity and available capacity at time of peak. See reporting instructions.

TABLE 7b. NET MAXIMUM ELECTRICAL CAPACITY OF COMBUSTIBLE FUELS

Country

2010

Unit = MWe

| At 31st December 2010 | | | | MAIN ACTIVITY PRODUCER PLANTS | AUTOPRODUCERS | |
|--|----|---|------------------------------|-------------------------------------|---------------|---|
| COMBUSTIBLE FUELS: of which: | | Primary Fuel (please list where not on Form) | Alternate Fuel (please list) | Second Alternate Fuel (please list) | A | B |
| SINGLE FUEL FIRED | 1 | - Coal + coal products | | | | |
| | 2 | - Liquids fuels | | | | |
| | 3 | - Natural gas | | | | |
| | 4 | - Peat | | | | |
| | 5 | - Combustible renewables and wastes | | | | |
| MULTI-FIRED SOLIDS AND LIQUIDS | 6 | | | | | |
| | 7 | | | | | |
| | 8 | | | | | |
| TOTAL | 9 | | | | | |
| MULTI-FIRED SOLIDS AND NATURAL GAS | 10 | | | | | |
| | 11 | | | | | |
| | 12 | | | | | |
| TOTAL | 13 | | | | | |
| MULTI-FIRED LIQUIDS AND NATURAL GAS | 14 | | | | | |
| | 15 | | | | | |
| | 16 | | | | | |
| TOTAL | 17 | | | | | |
| MULTI-FIRED SOLIDS LIQUIDS AND NATURAL GAS | 18 | | | | | |
| | 19 | | | | | |
| | 20 | | | | | |
| TOTAL | 21 | | | | | |
| Source(s) of above data: | | | | | | |

Row 1: Also includes coke oven gas, blast furnace and oxygen steel furnace gas capacity.

Row 2: Also includes refinery gas capacity.

Row 3: Also includes gas works gas capacity.

Row 5: Report capacity that corresponds to the electricity production reported in Table 6; i.e. Solid biomass, Industrial wastes, Industrial wastes, Municipal solid wastes and Biogas.

Rows 6 to 21: Multi-fired systems include only units which can burn more than one fuel type on a continuous basis. Stations which have separate units using different fuels should be divided into the appropriate single-fuel categories. See reporting instructions.

Columns A and B: The sum should equal Combustible Fuels in table 7a.

TABLE 8. IMPORTS BY ORIGIN AND EXPORTS BY DESTINATION OF ELECTRICITY AND HEAT

| Country | | 2010 | | Report Electricity in Columns A and B (Unit = GWh) | | Report Heat in Columns C and D (Unit = TJ) | |
|-------------------------------------|-----------|----------|----------|---|--------------|---|--------------|
| | | | | IMPORTS A | EXPORTS B | IMPORTS C | EXPORTS D |
| Albania | 1 | | | | | | |
| Armenia | 2 | | | | | | |
| Austria | 3 | | | | | | |
| Azerbaijan | 4 | | | | | | |
| Belarus | 5 | | | | | | |
| Belgium | 6 | | | | | | |
| Bosnia and Herzegovina | 7 | | | | | | |
| Bulgaria | 8 | | | | | | |
| Canada | 9 | | | | | | |
| Chile | 10 | | | | | | |
| Croatia | 11 | | | | | | |
| Cyprus | 12 | | | | | | |
| Czech Republic | 13 | | | | | | |
| Denmark | 14 | | | | | | |
| Estonia | 15 | | | | | | |
| Finland | 16 | | | | | | |
| France | 17 | | | | | | |
| Georgia | 18 | | | | | | |
| Germany | 19 | | | | | | |
| Greece | 20 | | | | | | |
| Hungary | 21 | | | | | | |
| Ireland | 22 | | | | | | |
| Israel | 23 | | | | | | |
| Italy | 24 | | | | | | |
| Kazakhstan | 25 | | | | | | |
| Korea | 26 | | | | | | |
| Korea, Democratic People's Republic | 27 | | | | | | |
| Kyrgyzstan | 28 | | | | | | |
| Latvia | 29 | | | | | | |
| Lithuania | 30 | | | | | | |
| Luxembourg | 31 | | | | | | |
| Macedonia, Former Yugoslav Republic | 32 | | | | | | |
| Malta | 33 | | | | | | |
| Mexico | 34 | | | | | | |
| Moldova, Republic | 35 | | | | | | |
| Montenegro | 36 | | | | | | |
| Netherlands | 37 | | | | | | |
| Norway | 38 | | | | | | |
| Poland | 39 | | | | | | |
| Portugal | 40 | | | | | | |
| Romania | 41 | | | | | | |
| Russian Federation | 42 | | | | | | |
| Serbia | 43 | | | | | | |
| Slovak Republic | 44 | | | | | | |
| Slovenia | 45 | | | | | | |
| Spain | 46 | | | | | | |
| Sweden | 47 | | | | | | |
| Switzerland | 48 | | | | | | |
| Tajikistan | 49 | | | | | | |
| Turkey | 50 | | | | | | |
| Turkmenistan | 51 | | | | | | |
| Ukraine | 52 | | | | | | |
| United Kingdom | 53 | | | | | | |
| United States | 54 | | | | | | |
| Uzbekistan | 55 | | | | | | |
| Non-specified/Other | 56 | | | | | | |
| TOTAL | 57 | 0 | 0 | 0 | 0 | 0 | 0 |

Source(s) of shown data:

Country of Origin/Destination: Amounts are considered imported and exported when they have crossed the political boundaries of the country.
Row 56: Please provide details on Remarks page.
Row 57: Cell A57 equals Cell A4 in Table 3. Cell B57 equals Cell A5 in Table 3. Cell C57 equals Cell B4 in Table 3. Cell D57 equals Cell B5 in Table 3.

CHP Supplementary Reporting for European Union Countries Under the EU DIRECTIVE 2004/8/EC

Table EU-2: OPERATIONAL CHP UNITS FUEL INPUT

Country

| 2010 | | Units | MAIN ACTIVITY PRODUCER PLANTS | AUTOPRODUCERS PLANTS | TOTAL |
|---|----|-------------------|----------------------------------|-------------------------|-------|
| HARD COAL | 1 | 10 ³ t | | | |
| | 2 | TJ (NCV) | | | |
| SUB-BITUMINIOUS COAL | 3 | 10 ³ t | | | |
| | 4 | TJ (NCV) | | | |
| BROWN COAL | 5 | 10 ³ t | | | |
| | 6 | TJ (NCV) | | | |
| PEAT | 7 | 10 ³ t | | | |
| | 8 | TJ (NCV) | | | |
| COKE OVEN GAS | 9 | TJ (GCV) | | | |
| | 10 | TJ (NCV) | | | |
| BLAST FURNACE AND OXYGEN STEEL FURNACE GAS | 11 | TJ (GCV) | | | |
| | 12 | TJ (NCV) | | | |
| OTHER COAL PRODUCTS (SOLID) | 13 | 10 ³ t | | | |
| | 14 | TJ (NCV) | | | |
| RESIDUAL FUEL OIL | 15 | 10 ³ t | | | |
| | 16 | TJ (NCV) | | | |
| REFINERY GAS | 17 | 10 ³ t | | | |
| | 18 | TJ (NCV) | | | |
| OTHER LIQUID FOSSIL FUELS | 19 | 10 ³ t | | | |
| | 20 | TJ (NCV) | | | |
| NATURAL GAS AND GAS WORKS GAS | 21 | TJ (GCV) | | | |
| | 22 | TJ (NCV) | | | |
| SOLID BIOMASS | 23 | TJ (NCV) | | | |
| INDUSTRIAL WASTE | 24 | TJ (NCV) | | | |
| MUNICIPAL WASTE (RENEWABLE) | 25 | TJ (NCV) | | | |
| MUNICIPAL WASTE (NON-RENEWABLE) | 26 | TJ (NCV) | | | |
| BIOGAS | 27 | TJ (NCV) | | | |
| OTHER RENEWABLES AND WASTES | 28 | 10 ³ t | | | |
| | 29 | TJ (NCV) | | | |
| NUCLEAR HEAT | 30 | TJ (NCV) | | | |
| TOTAL | 31 | TJ (NCV) | | | |

NCV - Net Calorific Value
GCV - Gross Calorific Value

TABLE 9d. OIL PRODUCTS INPUTS TO AUTOPRODUCER ELECTRICITY GENERATION - Electricity Only Plants

COUNTRY NAME

Unit: Thousand Metric Tons

| 2010 | | Crude Oil | NGL | Refinery Gas | LPG | Naphtha | Kerosene Type Jet Fuel | Other Kerosene | Gas/Diesel (Distillate Fuel Oil) | Heavy Fuel Oil | Bitumen (including Orimulsion) | Petroleum Coke | Other Oil Products |
|-------------------------------------|----|----------------------------|-----|--------------|-----|---------|------------------------|----------------|----------------------------------|----------------|--------------------------------|----------------|--------------------|
| | | Unit: Thousand Metric Tons | | | | | | | | | | | |
| | | A | B | C | D | E | F | G | H | I | J | K | L |
| REFINERY FUEL* | 1 | | | | | | | | | | | | |
| Total Input | 2 | | | | | | | | | | | | |
| ENERGY SECTOR, of which: | 3 | | | | | | | | | | | | |
| Coal Mines | 4 | | | | | | | | | | | | |
| Oil and Gas Extraction | 5 | | | | | | | | | | | | |
| Coke Ovens | 6 | | | | | | | | | | | | |
| Blast Furnaces | 7 | | | | | | | | | | | | |
| Gas Works | 8 | | | | | | | | | | | | |
| Not Elsewhere Specified - Energy | 9 | | | | | | | | | | | | |
| INDUSTRY SECTOR, of which: | 10 | | | | | | | | | | | | |
| Iron and Steel | 11 | | | | | | | | | | | | |
| Chemical (incl. Petrochemical) | 12 | | | | | | | | | | | | |
| Non-Ferrous Metals | 13 | | | | | | | | | | | | |
| Non-Metallic Minerals | 14 | | | | | | | | | | | | |
| Transport Equipment | 15 | | | | | | | | | | | | |
| Machinery | 16 | | | | | | | | | | | | |
| Mining and Quarrying | 17 | | | | | | | | | | | | |
| Food Proc., Beverages and Tobacco | 18 | | | | | | | | | | | | |
| Pulp, Paper and Printing | 19 | | | | | | | | | | | | |
| Wood and Wood Products | 20 | | | | | | | | | | | | |
| Construction | 21 | | | | | | | | | | | | |
| Textile and Leather | 22 | | | | | | | | | | | | |
| Not Elsewhere Specified - Industry | 23 | | | | | | | | | | | | |
| TRANSPORT SECTOR, of which: | 24 | | | | | | | | | | | | |
| Pipeline Transport | 25 | | | | | | | | | | | | |
| Not Elsewhere Specified - Transport | 26 | | | | | | | | | | | | |
| OTHER SECTOR | 27 | | | | | | | | | | | | |
| Commerce - Public Services | 28 | | | | | | | | | | | | |
| Residential | 29 | | | | | | | | | | | | |
| Agriculture/Forestry | 30 | | | | | | | | | | | | |
| Fishing | 31 | | | | | | | | | | | | |
| Not Elsewhere Specified - Other | 32 | | | | | | | | | | | | |

* Reports those amounts of refinery fuel which are used for the production of electricity.

TABLE 9e. OIL PRODUCTS INPUTS TO AUTOPRODUCER ELECTRICITY AND HEAT GENERATION - CHP Plants

Unit: Thousand Metric Tons

| 2010 | | Crude Oil | NGL | Refinery Gas | LPG | Naphtha | Kerosene Type Jet Fuel | Other Kerosene | Gas/Diesel (Distillate Fuel Oil) | Heavy Fuel Oil | Bitumen (including Orimulsion) | Petroleum Coke | Other Oil Products |
|-------------------------------------|----|-----------------------------------|-----|--------------|-----|---------|------------------------|----------------|----------------------------------|----------------|--------------------------------|----------------|--------------------|
| | | <i>Unit: Thousand Metric Tons</i> | | | | | | | | | | | |
| | | A | B | C | D | E | F | G | H | I | J | K | L |
| REFINERY FUEL* | 1 | | | | | | | | | | | | |
| Total Input | 2 | | | | | | | | | | | | |
| ENERGY SECTOR, of which: | 3 | | | | | | | | | | | | |
| Coal Mines | 4 | | | | | | | | | | | | |
| Oil and Gas Extraction | 5 | | | | | | | | | | | | |
| Coke Ovens | 6 | | | | | | | | | | | | |
| Blast Furnaces | 7 | | | | | | | | | | | | |
| Gas Works | 8 | | | | | | | | | | | | |
| Not Elsewhere Specified - Energy | 9 | | | | | | | | | | | | |
| INDUSTRY SECTOR, of which: | 10 | | | | | | | | | | | | |
| Iron and Steel | 11 | | | | | | | | | | | | |
| Chemical (incl. Petrochemical) | 12 | | | | | | | | | | | | |
| Non-Ferrous Metals | 13 | | | | | | | | | | | | |
| Non-Metallic Minerals | 14 | | | | | | | | | | | | |
| Transport Equipment | 15 | | | | | | | | | | | | |
| Machinery | 16 | | | | | | | | | | | | |
| Mining and Quarrying | 17 | | | | | | | | | | | | |
| Food Proc., Beverages and Tobacco | 18 | | | | | | | | | | | | |
| Pulp, Paper and Printing | 19 | | | | | | | | | | | | |
| Wood and Wood Products | 20 | | | | | | | | | | | | |
| Construction | 21 | | | | | | | | | | | | |
| Textile and Leather | 22 | | | | | | | | | | | | |
| Not Elsewhere Specified - Industry | 23 | | | | | | | | | | | | |
| TRANSPORT SECTOR, of which: | 24 | | | | | | | | | | | | |
| Pipeline Transport | 25 | | | | | | | | | | | | |
| Not Elsewhere Specified - Transport | 26 | | | | | | | | | | | | |
| OTHER SECTOR | 27 | | | | | | | | | | | | |
| Commerce - Public Services | 28 | | | | | | | | | | | | |
| Residential | 29 | | | | | | | | | | | | |
| Agriculture/Forestry | 30 | | | | | | | | | | | | |
| Fishing | 31 | | | | | | | | | | | | |
| Not Elsewhere Specified - Other | 32 | | | | | | | | | | | | |

* Reports those amounts of refinery fuel which are used for the production of electricity and heat sold.

TABLE 9f. OIL PRODUCTS INPUTS TO AUTOPRODUCER HEAT GENERATION - Heat Only Plants

Unit: Thousand Metric Tons

| 2010 | | Crude Oil | NGL | Refinery Gas | LPG | Naphtha | Kerosene Type Jet Fuel | Other Kerosene | Gas/Diesel (Distillate Fuel Oil) | Heavy Fuel Oil | Bitumen (including Orimulsion) | Petroleum Coke | Other Oil Products |
|-------------------------------------|----|-----------------------------------|-----|--------------|-----|---------|------------------------|----------------|----------------------------------|----------------|--------------------------------|----------------|--------------------|
| | | <i>Unit: Thousand Metric Tons</i> | | | | | | | | | | | |
| | | A | B | C | D | E | F | G | H | I | J | K | L |
| REFINERY FUEL* | 1 | | | | | | | | | | | | |
| Total Input | 2 | | | | | | | | | | | | |
| ENERGY SECTOR, of which: | 3 | | | | | | | | | | | | |
| Coal Mines | 4 | | | | | | | | | | | | |
| Oil and Gas Extraction | 5 | | | | | | | | | | | | |
| Coke Ovens | 6 | | | | | | | | | | | | |
| Blast Furnaces | 7 | | | | | | | | | | | | |
| Gas Works | 8 | | | | | | | | | | | | |
| Not Elsewhere Specified - Energy | 9 | | | | | | | | | | | | |
| INDUSTRY SECTOR, of which: | 10 | | | | | | | | | | | | |
| Iron and Steel | 11 | | | | | | | | | | | | |
| Chemical (incl. Petrochemical) | 12 | | | | | | | | | | | | |
| Non-Ferrous Metals | 13 | | | | | | | | | | | | |
| Non-Metallic Minerals | 14 | | | | | | | | | | | | |
| Transport Equipment | 15 | | | | | | | | | | | | |
| Machinery | 16 | | | | | | | | | | | | |
| Mining and Quarrying | 17 | | | | | | | | | | | | |
| Food Proc., Beverages and Tobacco | 18 | | | | | | | | | | | | |
| Pulp, Paper and Printing | 19 | | | | | | | | | | | | |
| Wood and Wood Products | 20 | | | | | | | | | | | | |
| Construction | 21 | | | | | | | | | | | | |
| Textile and Leather | 22 | | | | | | | | | | | | |
| Not Elsewhere Specified - Industry | 23 | | | | | | | | | | | | |
| TRANSPORT SECTOR, of which: | 24 | | | | | | | | | | | | |
| Pipeline Transport | 25 | | | | | | | | | | | | |
| Not Elsewhere Specified - Transport | 26 | | | | | | | | | | | | |
| OTHER SECTOR | 27 | | | | | | | | | | | | |
| Commerce - Public Services | 28 | | | | | | | | | | | | |
| Residential | 29 | | | | | | | | | | | | |
| Agriculture/Forestry | 30 | | | | | | | | | | | | |
| Fishing | 31 | | | | | | | | | | | | |
| Not Elsewhere Specified - Other | 32 | | | | | | | | | | | | |

* Reports those amounts of refinery fuel which are used for the production of heat sold

TABLE 9g: NATURAL GAS INPUTS TO AUTOPRODUCER ELECTRICITY AND HEAT GENERATION

COUNTRY NAME

| 2010 <i>Unit : Terajoules (Gross Calorific Value)</i> | | Autoproducer Electricity Plants | Autoproducer CHP Plants | Autoproducer Heat Plants |
|---|----|--|------------------------------------|-------------------------------------|
| | | 2010 | 2010 | 2010 |
| | | A | B | C |
| Total Input* | 1 | | | |
| Energy Sector, of which: | 2 | | | |
| Coal Mines | 3 | | | |
| Oil and Gas Extraction | 4 | | | |
| Inputs to Oil Refineries | 5 | | | |
| Coke Ovens | 6 | | | |
| Gas Works | 7 | | | |
| Blast Furnaces | 8 | | | |
| Liquefaction (LNG) & Regasification Plants | 9 | | | |
| Gas to Liquids | 10 | | | |
| Not Elsewhere Specified - Energy | 11 | | | |
| Industry Sector, of which: | 12 | | | |
| Iron and Steel | 13 | | | |
| Chemical (incl. Petrochemical) | 14 | | | |
| Non-ferrous Metals | 15 | | | |
| Non-metallic Minerals | 16 | | | |
| Transport Equipment | 17 | | | |
| Machinery | 18 | | | |
| Mining and Quarrying | 19 | | | |
| Food Proc., Beverages and Tobacco | 20 | | | |
| Pulp, Paper and Printing | 21 | | | |
| Wood and Wood Products | 22 | | | |
| Construction | 23 | | | |
| Textile and Leather | 24 | | | |
| Not Elsewhere Specified - Industry | 25 | | | |
| Transportation Sector, of which: | 26 | | | |
| Pipeline Transport | 27 | | | |
| Not Elsewhere Specified - Transport | 28 | | | |
| Other Sector, of which: | 29 | | | |
| Commercial and Public Services | 30 | | | |
| Residential | 31 | | | |
| Agriculture/Forestry | 32 | | | |
| Fishing | 33 | | | |
| Not Elsewhere Specified - Other | 34 | | | |

* Total should equal the addition of rows 2, 12, 26, 29.

Total should correspond with rows 4, 6, 8 on Table 2a of the Gas questionnaire.

YOUR REMARKS - PAGE RESERVEE AUX REMARQUES

A large, empty rectangular box with a thin black border, occupying most of the page below the header. It is intended for the user to write their remarks in either English or French.