

**COAL**

# **IEA Coal Data System**

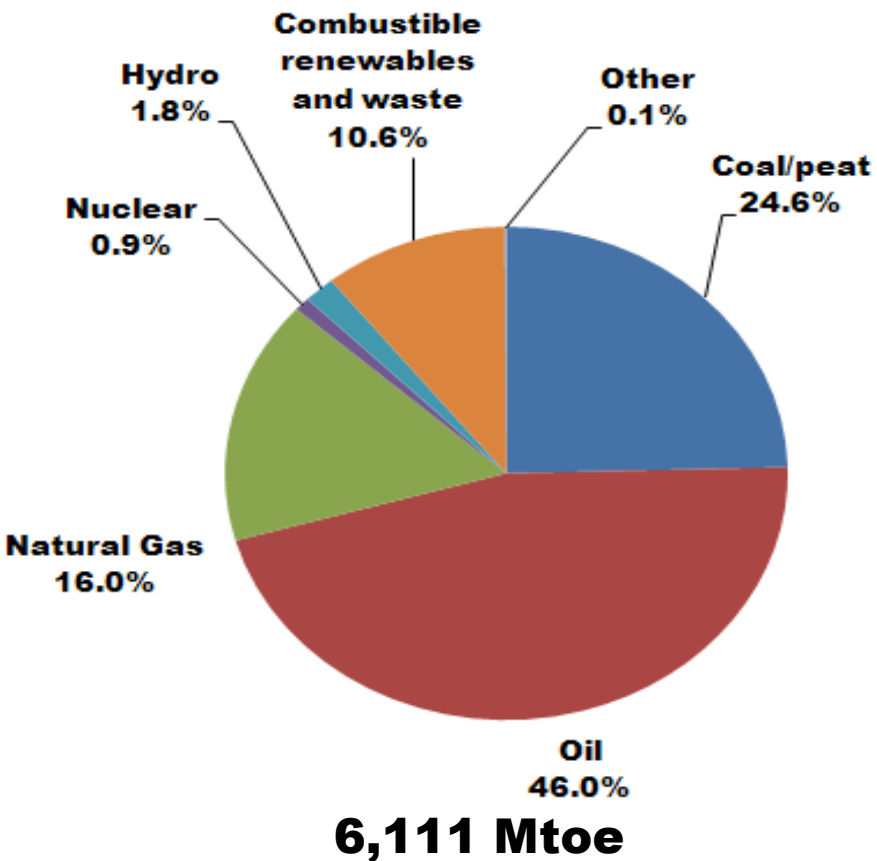


International  
Energy Agency

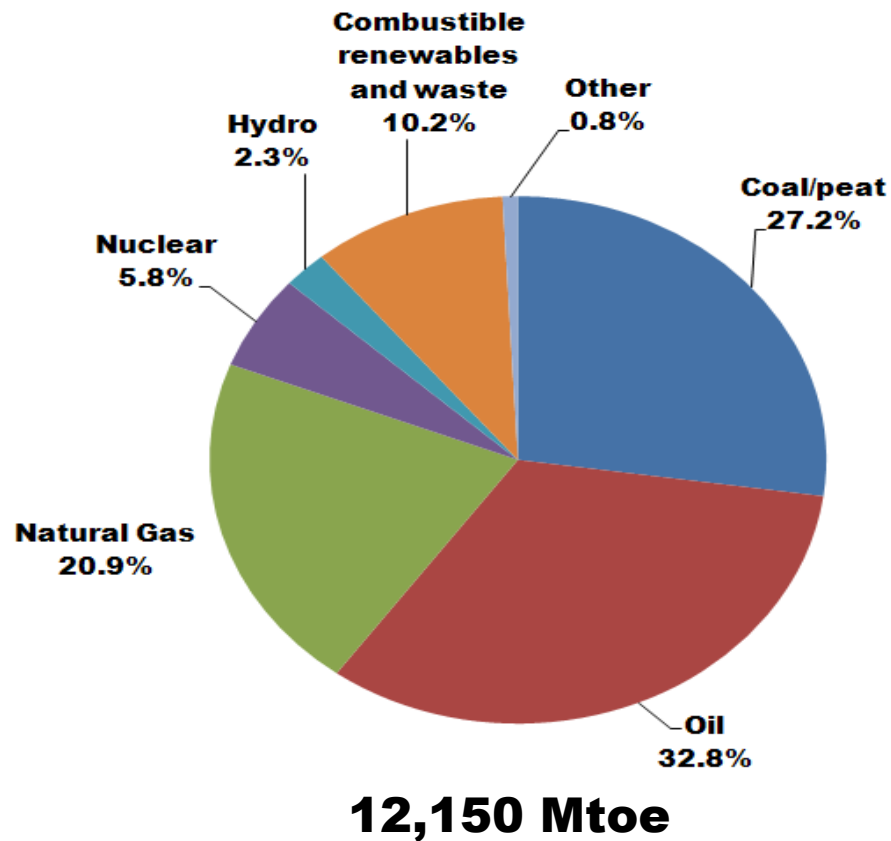
- **The Importance of Coal**
- **IEA Annual Coal Questionnaire**
- **Data Consistency Checks**
- **Uses of the Data**

- **Coal provides a large share of the world energy supply**
- **Potential to contribute even more**
- **Must address environmental challenges**

## 1973



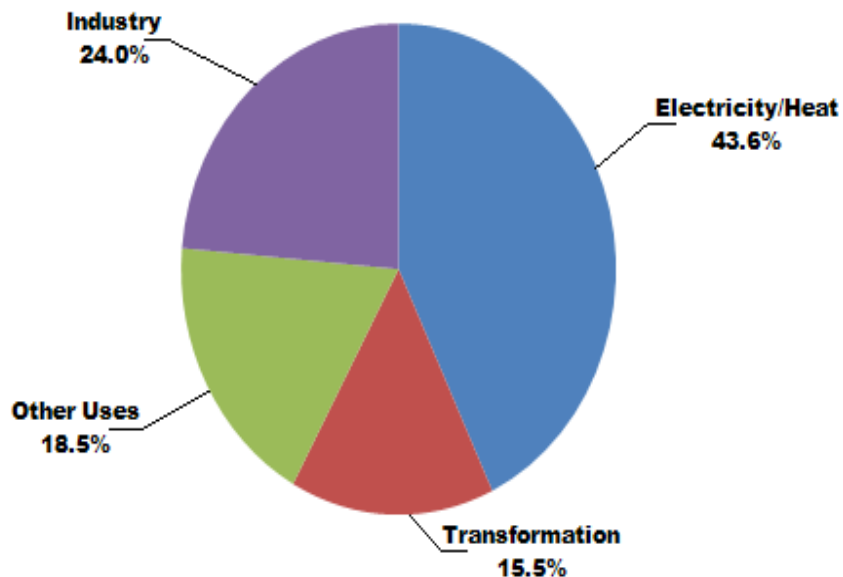
## 2009



**TPES doubled and coal more than doubled**

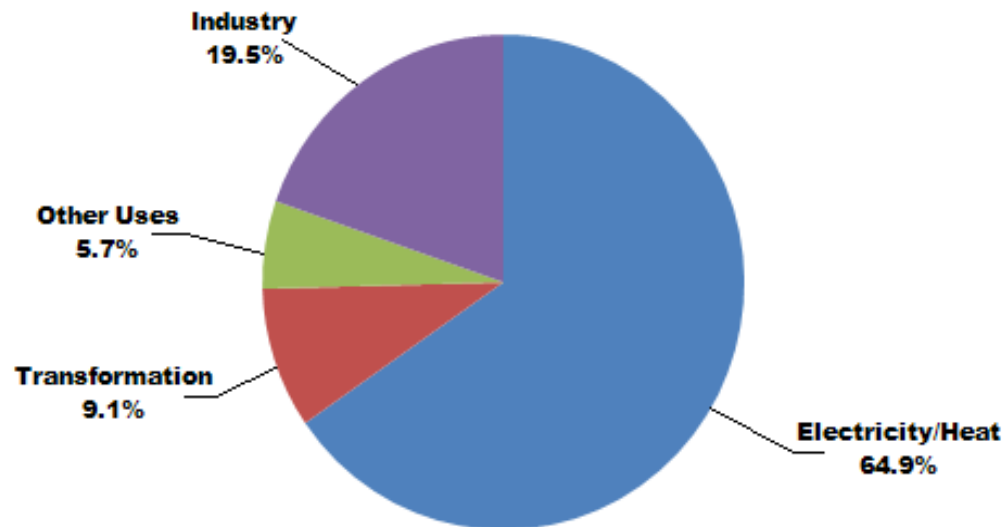
# WORLD USES OF COAL

**1973**



**1,501 Mtoe**

**2009**

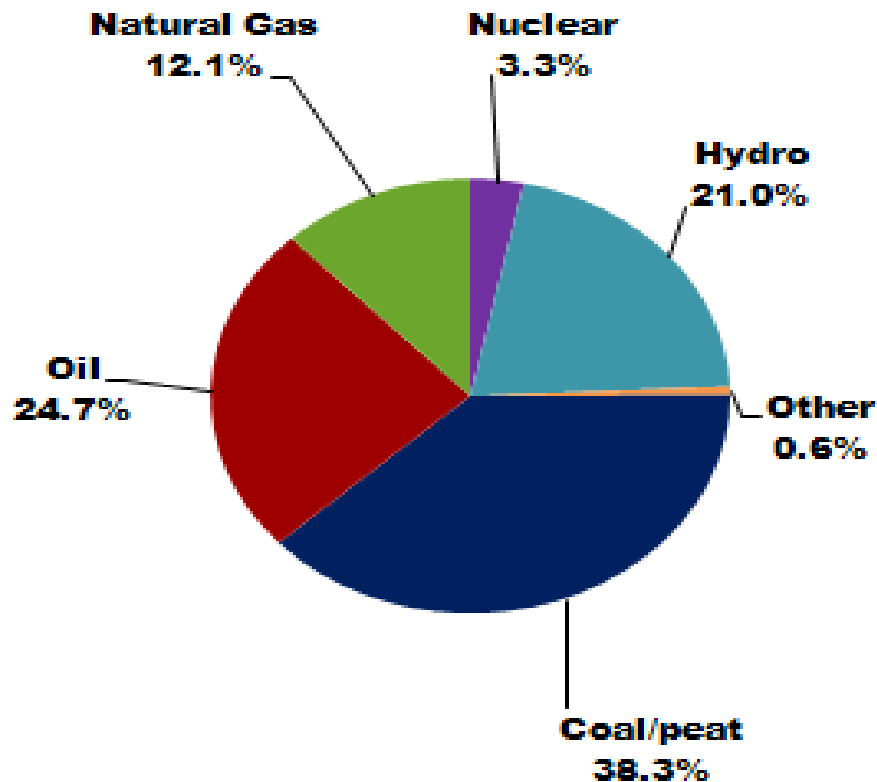


**3,300 Mtoe**

**Coal and coal products increasingly used for electricity generation**

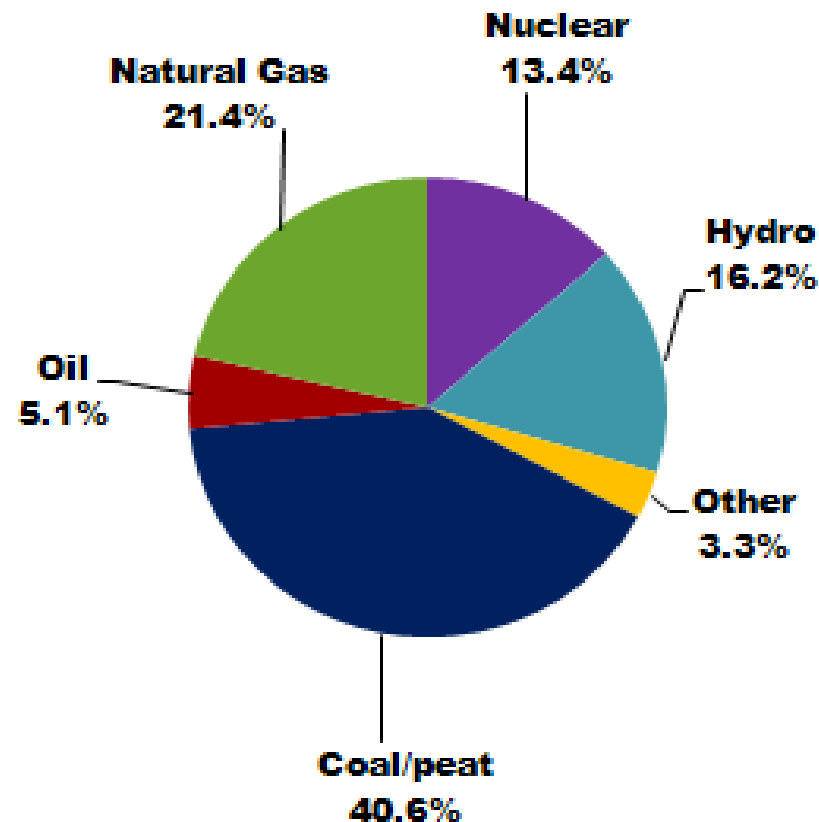
# WORLD FUEL SHARES OF ELECTRICITY

**1973**



**6 115 TWh**

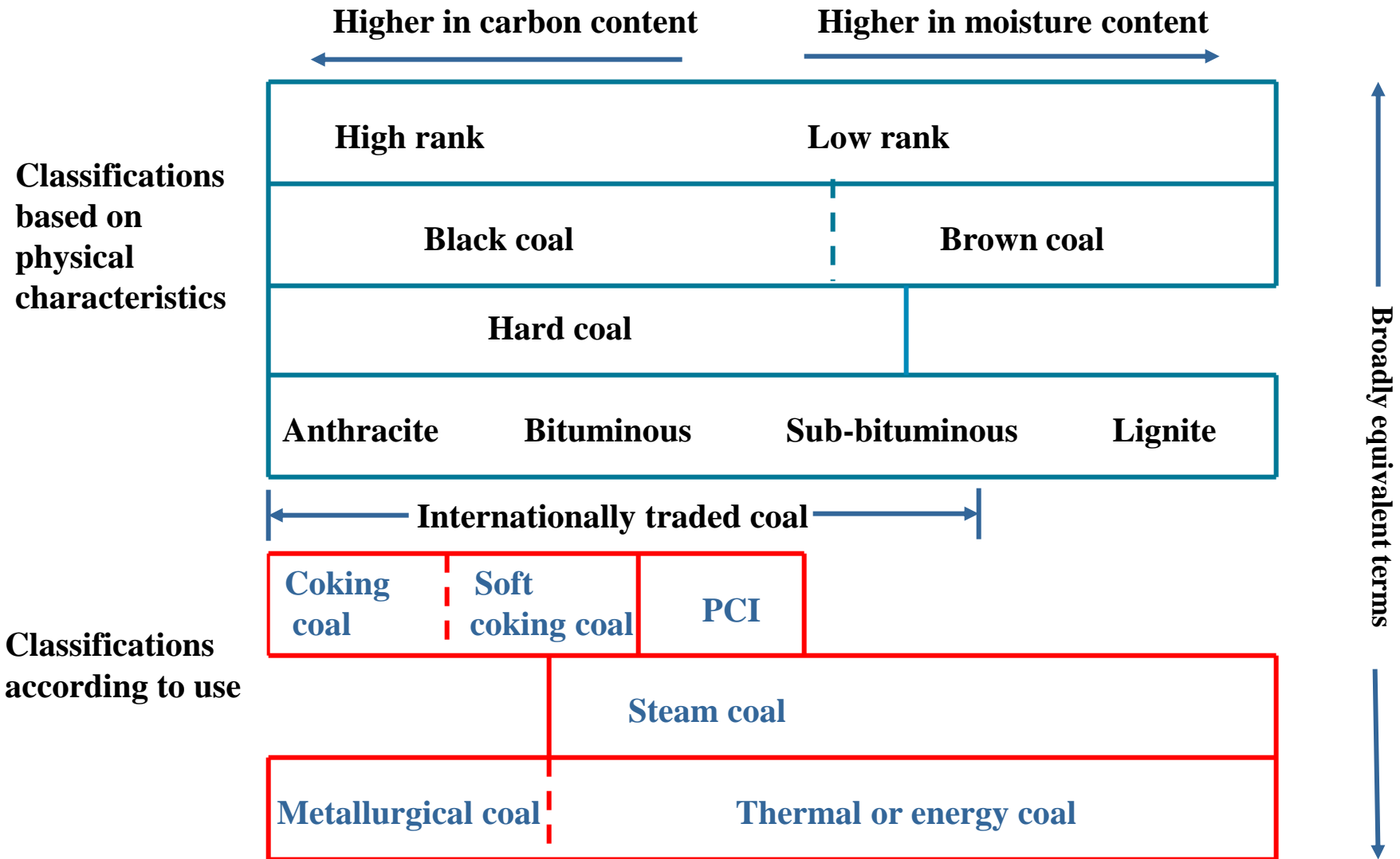
**2009**



**20 055 TWh**

**Electricity generation more than triple, with coal holding its own**

# COMMON COAL CLASSIFICATIONS






- **Ash, volatile matter, sulphur, nitrogen, trace elements**
- **Blended to produce different performance characteristics**
- **Soft coking coal and steam coal prices have been related**



# PRIMARY AND DERIVED COAL AND PEAT PRODUCTS

<b>PRIMARY FUELS</b>	<b>Anthracite</b>	<b>SOLID FOSSIL FUELS</b>
	<b>Coking Coal</b>	
	<b>Other Bituminous Coal</b>	
	<b>Sub-bituminous Coal</b>	
	<b>Lignite/Brown Coal</b>	
	<b>Peat</b>	
 <b>DERIVED and MANUFACTURED PRODUCTS</b>	<b>Patent Fuels</b>	<b>SOLID FOSSIL FUELS</b>
	<b>Coke Oven Coke</b>	
	<b>Gas Coke</b>	
	<b>Coal Tar</b>	
	<b>BKB/Peat Briquettes</b>	<b>MANUFACTURED GASES</b>
	<b>Gas Works Gas</b>	
	<b>Coke Oven Gas</b>	
	<b>Blast Furnace Gas</b>	
<b>Oxygen Steel Furnace Gas</b>		

## ■ **Hard Coal**

- **Gross calorific value greater than 23,865 kJ/kg**
- **Mean random reflectance of vitrinite of at least 0.6**
- **Anthracite**
- **Bituminous**
  - **Coking coal**

## ■ **Sub-Bituminous Coal**

- **Gross calorific value 17,435 - 23,865 kJ/kg**
- **Mean random reflectance of vitrinite less than 0.6**

## ■ **Lignite/Brown Coal**

- **Gross calorific value less than 17,435 kJ/kg**
- **Mean random reflectance of vitrinite less than 0.6**

## ■ Anthracite

- Gross calorific value is greater than 23,865 kJ/kg
- Less than 10% volatile matter
- High carbon content (about 90% fixed carbon)
- Mean random reflectance of vitrinite at least 2.0%
- Non-agglomerating

## ■ Coking Coal

- Bituminous coal that allows its use to produce coke
- Gross calorific value is greater than 23,865 kJ/kg
- Mean random reflectance of vitrinite of at least 0.6

## ■ Other Bituminous Coal

- Coal used for steam raising purposes
- Higher volatile matter (more than 10%)
- Lower carbon content (less than 90% fixed carbon)
- Gross calorific value is greater than 23,865 kJ/kg
- Mean random reflectance of vitrinite of at least 0.6

## ■ Patent Fuels

- **Manufactured from hard coal fines**
- **With the addition of a binding agent**
- **Patent fuel produced may be higher than the amount of coal used**

## ■ BKB (Brown Coal Briquettes)

- **A composite fuel manufactured from lignite/brown coal**
- **Produced under high pressure without a binding agent**
- **Includes peat briquettes, dried lignite fines and dust**

- **Coal Tar**
  - **Liquid result of distillation of bituminous coal during the coke oven process or of the low-temperature carbonisation of brown coal**
  - **Coal tar can be further distilled into different organic products (as benzene, toluene, naphthalene), which normally would be reported as a feedstock to the petrochemical industry**

# COKE OVEN COKE

- **A solid product**
  - **From carbonized coal, principally coking coal**
  - **At high temperature**
  - **Low in moisture and volatile matter**
  - **Used mainly in the iron and steel industry**
- **Requires inputs of coking coal to coke ovens in the Transformation sector**
- **Inputs of other fuels may also be reported on the other questionnaires**

- **Gas Work Gas**
  - **Produced in plants whose main purpose is to manufacture, transport and distribute gas.**
- **Blast Furnace Gas**
  - **Produced during combustion of coke in blast furnaces in iron and steel industry**
- **Oxygen Steel Furnace Gas**
  - **By-product of the production of steel in an oxygen furnace**
  - **Also known as converter gas, LD gas or BOS gas**



# TRANSFORMATION VS. ENERGY SECTORS

- **Transformation Sector**
  - Fuel used for the primary or secondary conversion of energy
  - Transformed to make derived energy products
  
- **Energy Sector**
  - Fuels consumed by the energy industry to support
    - fuel extraction
    - plant operations of transformation activities

# TYPES OF ELECTRIC AND HEAT PLANTS

	Electricity Only	CHP	Heat Only
Main Activity Producer	Report all production and all fuel used	Report all electricity and heat produced and all fuel used	Report all heat produced and all fuel used
Autoproducer		Report all electricity produced and heat <b><u>sold</u></b> with corresponding fuel used	Report heat <b><u>sold</u></b> and corresponding fuel used

# **STRUCTURE OF THE COAL QUESTIONNAIRE**

- **Table 1. Supply, Transformation, Energy and Final Consumption**
- **Table 2. Imports by Origin**
- **Table 3. Exports by Destination**
- **Table 4. Calorific Values**

## **Domestic Supply**

**Production**

**+Import**

**- Export**

**- International**

**Marine**

**Bunkers**

**+Stock Changes**

## **Gross Consumption**

**Transformation Sector (*14 sub-sectors*)**

**+Energy Sector (*10 sub-sectors*)**

**- Distribution Losses**

**+Final Consumption**

**+Industry Sector (*13 sub-sectors*)**

**+Transport (*3 sub-sectors*)**

**+Other Sectors (*5 sub-sectors*)**

**+Non Energy Uses**

**Domestic Supply (Inland Consumption) - Gross Consumption = Statistical Difference**

# TABLE 1. SUPPLY AND TRANSFORMATION SECTOR

SUPPLY AND TRANSFORMATION SECTOR		Coking Coal	Other Bituminous Coal	Sub-bituminous Coal
		10 <sup>3</sup> t B	10 <sup>3</sup> t C	10 <sup>3</sup> t D
Indigenous Production	1	0	667	0
Underground Production	2	0	667	0
Surface Production	3	0	0	0
From Other Sources	4	0	0	0
Total Imports (Balance)	5	718	6,384	0
Total Exports (Balance)	6	0	0	0
International Marine Bunkers	7	0	0	0
Stock Changes (National Territory)	8	-43	0	0
Inland Consumption (Calculated)	9	675	7,051	0
Statistical Differences	10	0	456	0
<b>MEMO ITEM: From other sources</b>				
From Other Sources - Oil	11			
From Other Sources - Natural Gas	12			
From Other Sources - Renewables	13			
<b>Transformation Sector</b>				
Main Activity Producer Electricity Plants	14	675	5,972	0
Main Activity Producer Electricity Plants	15	0	5,965	0
Main Activity Producer CHP Plants	16	0	0	0
Main Activity Producer Heat Plants	17	0	0	0
Autoproducer Electricity Plants	18	0	7	0
Autoproducer CHP Plants	19	0	0	0
Autoproducer Heat Plants	20	0	0	0
Patent Fuel Plants (Transformation)	21	0	0	0
Coke Ovens (Transformation)	22	675	0	0
BKB Plants (Transformation)	23	0	0	0
Gas Works (Transformation)	24	0	0	0
Blast Furnaces (Transformation)	25	0	0	0
Coal Liquefaction Plants (Transformation)	26	0	0	0
For Blended Natural Gas	27			
Non-specified (Transformation)	28	0	0	0



# TABLE 1. ENERGY SECTOR AND FINAL CONSUMPTION

SUPPLY AND TRANSFORMATION SECTOR		Coking Coal	Other Bituminous Coal	Sub-bituminous Coal
		10 <sup>3</sup> t B	10 <sup>3</sup> t C	10 <sup>3</sup> t D
<b>ENERGY SECTOR AND FINAL CONSUMPTION</b>				
Energy Sector	29	0	0	0
Own Use in Electricity, CHP and Heat Plants	30	0	0	0
Coal Mines	31	0	0	0
Patent Fuel Plants (Energy)	32	0	0	0
Coke Ovens (Energy)	33	0	0	0
BKB Plants (Energy)	34	0	0	0
Gas Works (Energy)	35	0	0	0
Blast Furnaces (Energy)	36	0	0	0
Petroleum Refineries	37	0	0	0
Coal Liquefaction Plants (Energy)	38	0	0	0
Non-specified (Energy)	39	0	0	0
<b>Distribution Losses</b>	40	0	0	0
<b>Total Final Consumption</b>	41	0	623	0
<b>Total Non-Energy Use</b>	42	0	0	0
Non-Energy Use Industry/Transformation/Energy	43	0	0	0
Of which: Non-Energy Use-	44	0	0	0
Non-Energy Use in Transport	45	0	0	0
Non-Energy Use in Other Sectors	46	0	0	0

# TABLE 1. ENERGY END USE SPECIFICATION

SUPPLY AND TRANSFORMATION SECTOR		Coking Coal	Other Bituminous Coal	Sub-bituminous Coal
		10 <sup>3</sup> t B	10 <sup>3</sup> t C	10 <sup>3</sup> t D
<b>Final Energy Consumption</b>	47	0	623	0
<b>Industry Sector</b>	48	0	599	0
Iron and Steel	49	0	0	0
Chemical (including Petrochemical)	50	0	0	0
Non-Ferrous Metals	51	0	0	0
Non-Metallic Minerals	52	0	322	0
Transport Equipment	53	0	0	0
Machinery	54	0	0	0
Mining and Quarrying	55	0	81	0
Food, Beverages and Tobacco	56	0	0	0
Paper, Pulp and Printing	57	0	12	0
Wood and Wood Products	58	0	0	0
Construction	59	0	0	0
Textiles and Leather	60	0	0	0
Non-specified (Industry)	61	0	174	0
<b>Transport Sector</b>	62	0	0	0
Rail	63	0	0	0
Domestic Navigation	64	0	0	0
Non-specified (Transport)	65	0	0	0
<b>Other Sectors</b>	66	0	24	0
Commercial and Public Services	67	0	6	0
Residential	68	0	0	0
Agriculture/Forestry	69	0	0	0
Fishing	70	0	18	0
Non-specified (Other)	71	0	0	0



# COKE OVEN DATA

		Coking Coal	Other Bituminous Coal	Coke Oven Coke	Coal Tar	Gas Works Gas	Coke Oven Gas	Blast Furnace Gas
SUPPLY AND TRANSFORMATION SECTOR		10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	TJ [gross]	TJ [gross]	TJ [gross]
		B	C	H	I	L	M	N
<b>Indigenous Production</b>	1	0	667	497	18	1,185	4,568	5,230
Underground Production	2	0	667					
Surface Production	3	0	0					
From Other Sources	4	0	0	0	0	0	0	0
Total Imports (Balance)	5	718	6,384	0	0	0	0	0
Total Exports (Balance)	6	0	0	12	0	0	0	0
International Marine Bunkers	7	0	0	0	0	0	0	0
Stock Changes (National Territory)	8	-43	0	29	-1	-119	0	0
Inland Consumption (Calculated)	9	675	7,051	514	17	1,066	4,568	5,230
Statistical Differences	10	0	456	0	0	0	0	0
<b>MEMO ITEM: From other sources</b>								
From Other Sources - Oil	11			0	0	0	0	0
From Other Sources - Natural Gas	12			0	0	0	0	0
From Other Sources - Renewables	13			0	0	0	0	0
<b>Transformation Sector</b>	14	675	5,972	491	0	0	959	0
Main Activity Producer Electricity Plants	15	0	5,965	0	0	0	0	0
Main Activity Producer CHP Plants	16	0	0	0	0	0	0	0
Main Activity Producer Heat Plants	17	0	0	0	0	0	0	0
Autoproducer Electricity Plants	18	0	7	0	0	0	0	0
Autoproducer CHP Plants	19	0	0	0	0	0	0	0
Autoproducer Heat Plants	20	0	0	0	0	0	0	0
Patent Fuel Plants (Transformation)	21	0	0	0	0	0	0	0
<b>Coke Ovens (transformation)</b>	22	675	0	0	0	0	0	0
DKB Plants (Transformation)	23	0	0	0	0	0	0	0
Gas Works (Transformation)	24	0	0	0	0	0	0	0
Blast Furnaces (Transformation)	25	0	0	491	0	0	959	0
Coal Liquefaction Plants (Transformation)	26	0	0	0	0	0	0	0
For Blended Natural Gas	27					0	0	0
Non-specified (Transformation)	28	0	0	0	0	0	0	0

# COKE OVEN DATA

		Coking Coal	Other Bituminous Coal	Coke Oven Coke	Coal Tar	Gas Works Gas	Coke Oven Gas	Blast Furnace Gas
SUPPLY AND TRANSFORMATION SECTOR		10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	TJ (gross)	TJ (gross)	TJ (gross)
		B	C	H	J	L	M	N
<b>ENERGY SECTOR AND FINAL CONSUMPTION</b>								
<b>Energy Sector</b>	29	0	0	0	17	0	476	3,454
Own Use in Electricity, CHP and Heat Plants	30	0	0	0	0	0	0	0
Coal Mines	31	0	0	0	0	0	0	0
Patent Fuel Plants (Energy)	32	0	0	0	0	0	0	0
Coke Ovens (Energy)	33	0	0	0	0	0	476	3,454
BKB Plants (Energy)	34	0	0	0	0	0	0	0
Gas Works (Energy)	35	0	0	0	0	0	0	0
Blast Furnaces (Energy)	36	0	0	0	17	0	0	0
Petroleum Refineries	37	0	0	0	0	0	0	0
Coal Liquefaction Plants (Energy)	38	0	0	0	0	0	0	0
Non-specified (Energy)	39	0	0	0	0	0	0	0
<b>Distribution Losses</b>	40	0	0	0	0	0	0	1,044
<b>Total Final Consumption</b>	41	0	623	23	0	1,066	3,133	732
<b>Total Non-Energy Use</b>	42	0	0	0	0	0	0	0
Non-Energy Use Industry/Transformation/Construction	43	0	0	0	0	0	0	0
Of which: Non-Energy Use-Chemical/Petrochem	44	0	0	0	0	0	0	0
Non-Energy Use in Transport	45	0	0	0	0	0	0	0
Non-Energy Use in Other Sectors	46	0	0	0	0	0	0	0



# COKE OVEN DATA

		Coking Coal	Other Bituminous Coal	Coke Oven Coke	Coal Tar	Gas Works Gas	Coke Oven Gas	Blast Furnace Gas
		10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	TJ (gross)	TJ (gross)	TJ (gross)
		B	C	H	J	L	M	N
<b>SUPPLY AND TRANSFORMATION SECTOR</b>								
<b>ENERGY END USE SPECIFICATION</b>								
<b>Final Energy Consumption</b>	47	0	623	23	0	1,066	3,133	732
<b>Industry Sector</b>	48	0	599	23	0	0	3,133	732
Iron and Steel	49	0	0	0	0	0	3,133	732
Chemical (including Petrochemical)	50	0	0	0	0	0	0	0
Non-Ferrous Metals	51	0	0	0	0	0	0	0
Non-Metallic Minerals	52	0	332	0	0	0	0	0
Transport Equipment	53	0	0	0	0	0	0	0
Machinery	54	0	0	19	0	0	0	0
Mining and Quarrying	55	0	81	0	0	0	0	0
Food, Beverages and Tobacco	56	0	0	0	0	0	0	0
Paper, Pulp and Printing	57	0	12	0	0	0	0	0
Wood and Wood Products	58	0	0	0	0	0	0	0
Construction	59	0	0	0	0	0	0	0
Textiles and Leather	60	0	0	0	0	0	0	0
Non-specified (Industry)	61	0	174	4	0	0	0	0
<b>Transport Sector</b>	62	0	0	0	0	0	0	0
Rail	63	0	0	0	0	0	0	0
Domestic Navigation	64	0	0	0	0	0	0	0
Non-specified (Transport)	65	0	0	0	0	0	0	0
<b>Other Sectors</b>	66	0	24	0	0	1,066	0	0
Commercial and Public Services	67	0	6	0	0	575	0	0
Residential	68	0	0	0	0	491	0	0
Agriculture/Forestry	69	0	0	0	0	0	0	0
Fishing	70	0	18	0	0	0	0	0
Non-specified (Other)	71	0	0	0	0	0	0	0

## **Table 2** **Imports**

• **66**

**Countries  
of Origin**

## **Table 3** **Exports**

• **73**

**Countries  
of  
Destination**  
• **5 'Other'**  
**Regions**

# TABLE 2. IMPORTS BY ORIGIN

		Anthracite	Coking Coal	Other Bituminous Coal	Sub-bituminous Coal	Lignite/Brown Coal	Patent Fuel	Coke Oven Coke	Coal Tar	BKB/PB
		10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t
		A	B	C	D	E	F	G	H	I
Albania	1	0	0	0	0	0	0	0	0	0
Armenia	2	0	0	0	0	0	0	0	0	0
Australia	3	0	421	196	0	0	0	0	0	0
Austria	4	0	0	0	0	0	0	0	0	0
Azerbaijan	5	0	0	0	0	0	0	0	0	0
Belarus	6	0	0	0	0	0	0	0	0	0
Belgium	7	0	0	0	0	0	0	0	0	0
Bosnia and Herzegovina	8	0	0	0	0	0	0	0	0	0
Bulgaria	9	0	0	0	0	0	0	0	0	0
Canada	10	0	297	122	0	0	0	0	0	0
China, People's Republic	11	0	0	0	0	0	0	0	0	0
Colombia	12	0	0	4,433	0	0	0	0	0	0
Croatia	13	0	0	0	0	0	0	0	0	0
Cyprus	14	0	0	0	0	0	0	0	0	0
Czech Republic	15	0	0	0	0	0	0	0	0	0
Denmark	16	0	0	0	0	0	0	0	0	0
Estonia	17	0	0	0	0	0	0	0	0	0
Finland	18	0	0	0	0	0	0	0	0	0
France	19	0	0	0	0	0	0	0	0	0
Georgia	20	0	0	0	0	0	0	0	0	0
Germany	21	0	0	0	0	0	0	0	0	0
Greece	22	0	0	0	0	0	0	0	0	0
Hungary	23	0	0	0	0	0	0	0	0	0
Iceland	24	0	0	0	0	0	0	0	0	0
Indonesia	25	0	0	528	0	0	0	0	0	0
Ireland	26	0	0	0	0	0	0	0	0	0
Israel	27	0	0	0	0	0	0	0	0	0
Italy	28	0	0	0	0	0	0	0	0	0



# TABLE 3. EXPORTS BY DESTINATION

		Anthracite	Coking Coal	Other Bituminous Coal	Sub-bituminous Coal	Lignite/Brown Coal	Patent Fuel	Coke Oven Coke	Coal Tar	BKB/PB
		10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t	10 <sup>3</sup> t
		A	B	C	D	E	F	G	H	I
Albania	1	0	0	0	0	0	0	0	0	0
Algeria	2	0	0	0	0	0	0	0	0	0
Argentina	3	0	0	0	0	0	0	0	0	0
Armenia	4	0	0	0	0	0	0	0	0	0
Australia	5	0	0	0	0	0	0	0	0	0
Austria	6	0	0	0	0	0	0	0	0	0
Azerbaijan	7	0	0	0	0	0	0	0	0	0
Belarus	8	0	0	0	0	0	0	0	0	0
Belgium	9	0	0	0	0	0	0	0	0	0
Bosnia and Herzegovina	10	0	0	0	0	0	0	0	0	0
Brazil	11	0	0	0	0	0	0	0	0	0
Bulgaria	12	0	0	0	0	0	0	0	0	0
Canada	13	0	0	0	0	0	0	0	0	0
Chile	14	0	0	0	0	0	0	0	0	0
China, People's Republic	15	0	0	0	0	0	0	0	0	0
Chinese Taipei	16	0	0	0	0	0	0	0	0	0
Croatia	17	0	0	0	0	0	0	0	0	0
Cyprus	18	0	0	0	0	0	0	0	0	0
Czech Republic	19	0	0	0	0	0	0	0	0	0
Denmark	20	0	0	0	0	0	0	0	0	0
Egypt	21	0	0	0	0	0	0	0	0	0
Estonia	22	0	0	0	0	0	0	0	0	0
Finland	23	0	0	0	0	0	0	0	0	0
France	24	0	0	0	0	0	0	0	0	0

# **TABLE 4. CALORIFIC VALUES**

## **15 Primary and derived coal products**

- Production**
- Imports**
- Exports**
- Used in Coke Ovens**
- Used in Blast Furnaces**
- Used in main Activity Plants**
- Used in Industry**
- For Other Uses**

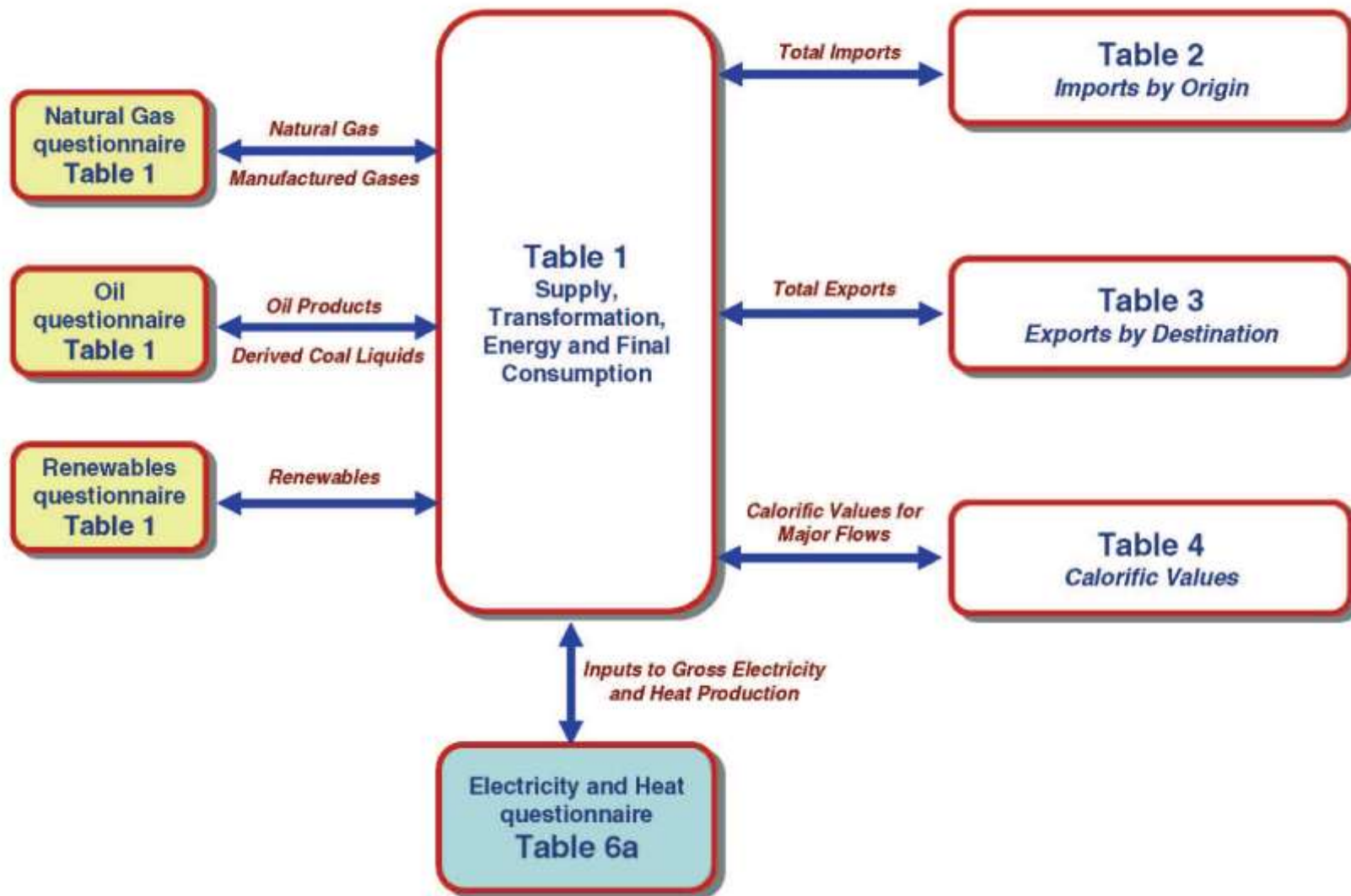


# TABLE 4. CALORIFIC VALUES

		Anthracite	Coking Coal	Other Bituminous Coal	Sub-bituminous Coal	Lignite/Brown Coal	Peat	Patent Fuel	Coke Oven Coke	Gas Coke	Coal Tar	BKB/PB*
		MJ/tonne	MJ/tonne	MJ/tonne	MJ/tonne	MJ/tonne	MJ/tonne	MJ/tonne	MJ/tonne	MJ/tonne	MJ/tonne	MJ/tonne
		A	B	C	D	E	F	G	H	I	J	K
Production	gross 1	0		<b>17,348</b>	0	0	0	0	28,790		<b>43,514</b>	0
	net 2	0		<b>16,481</b>	0	0	0	0	27,350		<b>41,338</b>	0
Imports	gross 3	0	30,125	25,054	0	0	0	0	0	0	0	0
	net 4	0	28,619	23,801	0	0	0	0	0	0	0	0
Exports	gross 5	0	0	0	0	0	0	<b>20,913</b>	0	0	0	0
	net 6	0	0	0	0	0	0	<b>19,867</b>	0	0	0	0
Used in coke ovens	gross 7	0	30,125	0	0	0	0	0	0	0	0	0
	net 8	0	28,619	0	0	0	0	0	0	0	0	0
Used in blast furnaces	gross 9	0	0	0	0	0	0	0	28,790		<b>43,514</b>	0
	net 10	0	0	0	0	0	0	0	27,350		<b>41,338</b>	0
Used in Main Activity Plants	gross 11	0	0	24,404	0	0	0	0	0	0	0	0
	net 12	0	0	23,184	0	0	0	0	0	0	0	0
Used in industry	gross 13	0	0	26,748	0	0	0	0	28,790	0	0	0
	net 14	0	0	25,411	0	0	0	0	27,350	0	0	0
For Other Uses	gross 15	0	30,125	0	0	0	0	0	0	0	0	0
	net 16	0	28,619	0	0	0	0	0	0	0	0	0

# RELATIONSHIPS

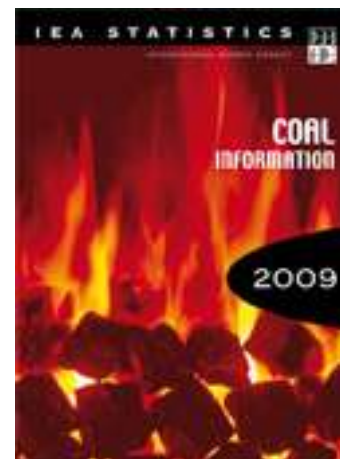
## Table Relations within the Coal Questionnaire



# DATA QUALITY CHECKS

- **Integers, negative numbers, sums**
- **Percentage differences with prior year**
- **Comparisons to other questionnaires**
- **Calorific values**
- **Net vs. gross calorific values**
- **Statistical difference**
- **Transformation efficiency rates**
- **Shares of coke oven outputs**
- **Shifts in product classification**
- **Breaks in series**
- **Trade data coincides with trade partners**

- **Coal Information book**
- **Electronic online files**
- **Energy balances**
- **Environmental issues**
- **Data support for other IEA divisions/other organizations**
- **Country reviews**
- **Assessing security of supply**
- **Making policy and business decisions**



- **The IEA also publishes quarterly coal production and trade data (volume)**
  - **Hard coal and brown coal production**
  - **Coal imports and exports by types and trade partners**
  
- **It is difficult to access timely data for some countries**
  
- **Your assistance in identifying appropriate sources and contacts would be appreciated**
  
- **IEA points of contact**
  - **Rachael Hackney**
  - **[ces@iea.org](mailto:ces@iea.org)**



# Thank you

**COALAQ@iea.org**