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**Second Strategic Energy Review** 

## AN EU ENERGY SECURITY AND SOLIDARITY ACTION PLAN

The Market for Solid Fuels in the EU in 2004-2006 and Trends in 2007

{COM(2008) 781 final} {SEC(2008) 2871} {SEC(2008) 2872}

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#### **FOREWORD**

Article 7 paragraph (c) of the Council Regulation (EC) No 405/2003 of 27 February 2003 concerning Community monitoring of imports of hard coal originating in third countries, requires the Commission to publish regularly a report on the market for solid fuels in the Community together with a market outlook.

This report highlights the most relevant developments on the international and European coal markets during the years 2004, 2005 and 2006 and gives, as appropriate, trends and estimates for 2007.

Following the enlargement of the EU on 1<sup>st</sup> January 2007, data has been included for the two new Member States for the preceding two years (2005 and 2006). Figures in this report refer to EU-25 for 2004 and to EU-27 for 2005 and 2006 unless otherwise stated.

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This report has been produced using data provided by the Member States and observations from market participants up to August 2007. Where data has not been available, clearly indicated estimations have been made by the Commission services. Note that the data may differ from that of Eurostat.

Graphs and tables used in this report have been produced by the Commission services on the basis of data provided by the Member States unless a different source is identified under individual graph or table.

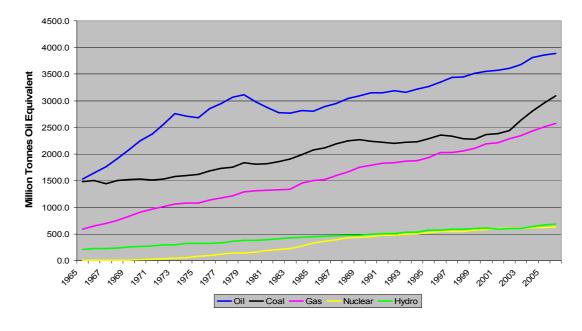
#### 1. Introduction

## 1.1. World Supply and Demand

From 2004 to 2006 total world coal production increased by 16% to 5,370 million tonnes (Mt). While European coal producers slightly decreased their coal production in 2004, the "B.R.I.C." countries (Brazil, Russia, India and China) where the main factors in the increase in worldwide production. In 2006 production increased by 8.8%, following an increase of 6.5% in 2005 and 9% in 2004. This remains well above the 10-year average growth trend of 3.0%.

Updated analysis of proven coal reserves indicates that, at current world production levels, there is close to 150 years of coal available.

The following graph illustrates the long term growth in coal demand compared to other energy sources. It can be seen that coal is the fastest growing energy source in the world since 2002. Indeed, coal is fuelling the rapid development of countries such as China and coal consumption also increased in the United States.



**Figure 1 - World Energy Consumption** 

Source: BP Statistical Review 2007

2004 will be remembered as the year when traditional purchasing patterns on the coal and coke markets were really turned upside down. For the sake of securing short and medium term supplies, excessive quantities of coal and coke were ordered, giving rise to price increases, the saturation of production, freight rate inflation, impressive waiting times at the ports and the risk of brown outs at generating plants or production disruption at coke manufacturing plants.

In 2005, when the overall situation calmed down, an overstocking situation clearly appeared both for steam and coking coal; de-stocking and the postponement of deliveries became the

major concern for coal consuming industries. This de-stocking policy applied not only to metallurgical coke, but also to coking coal, iron ore and steel products.

In 2006, total coal demand increased by 7.8%, or 322 million tonnes coal equivalent<sup>1</sup> (Mtce), following a three year period where annual increases averaged 6.8%.

Global trade in hard coal also experienced significant growth over the period 2004 to 2006, although coking coal trade fell back slightly in 2006, causing overall growth to be lower than previous years.

#### 1.2. World Prices

As a result of the unexpected and profound changes in the international coal market which occurred in 2003, the prices of both steam and coking oil climbed to unprecedented levels in 2004 (from 35 to 80 \$/tonne for steam coal deliveries to North West Europe).

World prices decreased in 2005 (till close to 50 \$/tonne for steam coal).

However, world prices recovered in 2006 and went on climbing to new highs reaching 130 \$/tonne for steam coal by end 2007 and going even higher in the first semester of 2008.

## 1.3. European Overview

Europe is the third largest region worldwide in terms of coal consumption, after China and the USA. Around two thirds of consumption is derived from indigenous production, with 164 million tonnes of hard coal and 454 million tonnes of lignite produced in 2006. <sup>2</sup>

Today coal covers around one sixth of the primary energy demand in the EU-27. About one third of power generation in the EU-27 is based on coal.

The importance of coal is increasingly recognised in terms of security of energy supplies, and as an important part of a balanced European energy mix in the coming decades provided that the issue of carbon emissions can be addressed by further technology developments in line with the climate change priorities.

#### 2. COAL - GENERAL CONSIDERATIONS

#### 2.1. Reserves

Europe possesses substantial reserves of coal and lignite There are a number of different ways of assessing these deposits, but whichever way the assessment is carried out, the figures are substantial. The German Federal Institute for Geosciences and Natural Resources (BGR) gives reserves<sup>3</sup> of 19 Bt and resources<sup>4</sup> of 479 Bt hard coal and reserves of 75 Bt and

<sup>1</sup> IEA definition of 1 million tonne coal equivalent equals 0.7 tonnes oil equivalent, or 7 million kilocalories

<sup>2</sup> Except otherwise provided, the data used in this report are data transmitted by Member States under Council regulation (EC)405/2003

According to BGR (Federal Agency for Geoscience and mineral resources) reserves are defined as the quantity that can be recovered economically from a mineral deposit at current prices with current technology

According to BGR resources are defined as demonstrated quantities that cannot be recovered at current prices with current technology but might be recoverable in the future, as well as quantities that are geologically possible but have not been demonstrated.

resources of 95 Bt of brown coal and lignite in Europe. The following maps illustrate the world distribution of reserves of hard coal and lignite including brown coal.

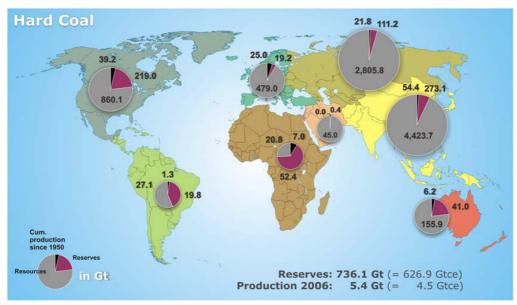
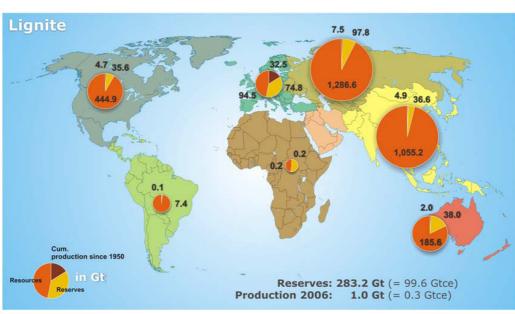


Figure 2 - World Reserves of Coal



Source: BGR Reserves, Resources and Availability of Energy Resources, 2007

The World Energy Council published its triennial survey of energy resources in September 2007. The following table gives their assessment of significant reserves in European states at the end of 2005<sup>5</sup>. This includes some significant re-assessments in Europe, with parts of reserves/resources being reduced or removed based on updated perceptions of what is economically recoverable.

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As reported by sources such as WEC and BGR the coal proved reserves for EU are diversely estimated due to different resources and coal classification.

**Table 1-European Coal Reserves (Mt)** 

|                | Hard Coal | Hard Coal | Lignite   | Lignite<br>Resources* |  |
|----------------|-----------|-----------|-----------|-----------------------|--|
|                | Reserves  | Resources | Reserves* |                       |  |
| Albania        |           |           | 794       |                       |  |
| Austria        |           | 1         |           | 333                   |  |
| Bulgaria       |           | 428       | 1928      | 3988                  |  |
| Croatia        |           | 4         |           | 41                    |  |
| Czech Republic | 1673      | 5880      | 2828      | 2928                  |  |
| Germany        | 152       | 319       | 6556      | 7136                  |  |
| Greece         |           |           | 3900      |                       |  |
| Hungary        | 199       | 1597      | 2933      | 9006                  |  |
| Italy          |           |           | 10        | 10                    |  |
| Poland         | 6012      | 15291     | 1490      | 1878                  |  |
| Portugal       |           |           | 33        |                       |  |
| Romania        | 12        | 22        | 410       | 3886                  |  |
| Serbia         |           | 27        | 13879     | 21149                 |  |
| Slovakia       |           | 2         | 260       | 519                   |  |
| Slovenia       |           |           | 232       | 644                   |  |
| Spain          | 200       | 812       | 330       | 584                   |  |
| United Kingdom | 155       |           |           |                       |  |
| EU Total       | 8403      | 24352     | 20910     | 30953                 |  |
| Europe Total   | 8403      | 24383     | 35583     | 52102                 |  |

<sup>\*</sup>including sub-bituminous coal; resources not including "estimated additional"

Source: WEC Survey of Energy Resources 2007

The largest hard coal reserve is in Poland, with significant reserves also in the Czech Republic, and lesser reserves in Spain, Hungary, the United Kingdom and Germany. In the case of lignite, reserves are present in a swathe from Germany through Central Europe and the Balkans, to Greece. Within the EU, Germany has the largest deposit, with major reserves also in Poland, the Czech Republic, Hungary, and Greece, as well as Bulgaria and Romania.

#### 2.2. Demand Drivers

Coal demand in Europe is dominated by the power sector, accounting for 69% of overall consumption in the case of hard coal and 94% for lignite.

Demand is driven by a complex set of factors and constraints. The starting point is demand for electricity, which is mainly impacted by the energy intensity of the economy, the level of industrial activity, the changing behaviour of consumers, and the weather. The prime determinant as to how demand for electricity can be met is the available capacity of different forms of generation and their costs. Demand varies significantly across hours, days and seasons, which means that some generation capacity will be more used than other.

Whilst lignite-fired generation is as a general rule running whenever available ('baseload'), hard coal-fired generation is often, especially in some parts of the EU, used rather for 'midmerit' operation (i.e. not running all the time but a large number of hours compared to peak operation which corresponds to a limited number of hours ). Hard coal can be competing with modern gas-fired generation for mid-merit operation.

The market choice between generation from coal or gas depends on the relationship between the coal price and the gas price, together with the impact on each of the CO2 emission price.

Another potentially important driver could be the development of CCS technologies. In case this promising technology becomes commercially viable in a fully functioning carbon market, coal based power generation could assume an even larger share in the power generation mix.

The following paragraphs deal with some of these demand drivers in more detail.

#### 2.3. Coal and Gas Prices

The dramatic increases in gas prices in recent years have made coal-fired generation significantly more attractive where there is a choice of capacity, for example in the UK. This led to high coal demand in the period 2004 to 2006, but as gas prices have reduced during 2007, coal demand has fallen back.

Coal and gas prices to major power producers in the UK are illustrated by the following chart.

1.80 1.60 1.40 1.20 Pence per kWh 1.00 0.60 0.40 0.20 0.00 2002 2005 2006 2000 2003 2007 2001 - Coal -Gas

Figure 3-Coal and Gas Prices to UK Power Producers

Source: DBERR (UK) -Government Website

## 2.4. Emissions Trading

The EU Emissions trading scheme came into effect from 2005. Initially, certificate prices increased rapidly, largely as a consequence of high demand from the UK where free allocations to power stations were well below what was required for business-as-usual operation. Once all Member States were fully integrated into the trading mechanisms, however, and following the release of the first year's supply/demand data for allowances, the price fell sharply from the 2<sup>nd</sup> quarter of 2006, and has been close to zero up to the end of the first phase (till December 2007).

The new phase of the EUETS from 2008 will significantly change the market fundamentals, and carbon prices are likely to become a major driver of generation levels once more, in cases where there is a choice between coal and gas (or other lower carbon generation).

EU ETS prices recovered in January 2008 and since then have remained fairly stable in the range of 22-25 €/tonne of CO2.

## 2.5. Exchange rates

Currency movements against the Euro affected coal demand and production around the world.

In the period 2004-2006, the US dollar, the main currency in the international coal market, remained relatively stable in comparison with the Euro. Nor were there any major changes in value in comparison with the Australian dollar and the South African rand.

This followed two years in which the rand strengthened significantly against the US dollar and the dollar weakened slightly against the Euro, contributing to the increase in coal prices.

During 2006/7, both the US dollar and the rand have weakened significantly against the Euro.

## 2.6. New Pricing Methodologies for Steam Coal

Over the last few years the trading of coal has undergone a major transition in terms of commodity pricing mechanisms, attitudes to counterparty risk, and the nature of the participants in the market.

Coal used to be considered to be unlike other commodities: the physical characteristics were such that it was not possible to devise standardised contracts; quality differences between different sources of supply and differing quality requirements in the market meant that coal was not thought to be fungible like oil or gas.

However, with the growth in international coal trading, new ownership structures for power plants, and the emergence of powerful cross-commodity traders, the traditional ways of doing business have been increasingly challenged.

We have seen the emergence and rapid growth of trading in coal swaps – 'paper trading' – such as API 2 (the North West Europe index and API 4 (the South African index). GlobalCOAL's internet trading platform was launched based on a standardised coal contract, and the first coal futures contract was launched by EEX<sup>6</sup> in May 2006.

The liquidity of the market in coal derivatives has been helped by the increased number of participants. Banks and finance houses began to trade coal swaps in addition to the major buyers, sellers and traders.

The most important development has been the coal swap, enabling the physical and financial risks of buying coal to be de-coupled. The first API swap was traded in 1998. By 2006, brokers estimate that 1,300 million tonnes were traded on API 2 and API 4, around seven times the volume of the physical imported coal market in the Atlantic – up from 650 million tonnes in 2005.

The following chart, reflecting the situation as of end 2007, shows the forward values of coal swaps for North West Europe, compared to historic prices.

<sup>6</sup> EEX – European Energy Exchange

140
120
100
80
40
20
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011

MCIS Marker Price API#2 (As at December 07)

Figure 4-Historic Spot and Forward Swap Prices

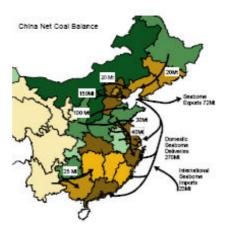
Source: McCloskey Coal Information Services (MCIS)/Argus

## 2.7. Infrastructure

Both supply and demand dynamics, and associated pricing impacts in the international coal market, have been affected by infrastructure bottlenecks. Often the same ports and vessels are involved in the trade of other bulk commodities thus exacerbating the problem. Expansion projects at different stages of the supply chain are under way in many of the countries active in the trade, with the intention of allowing for continued growth.

Australia is planning 60 Mt per annum more capacity in the short term (around 2010) and a further 130 Mt per annum in the medium term; Richards Bay (South Africa) is expanding its capacity by more than 20 Mtpa to 92 Mtpa by 2010. Further developments are also planned in South America (Colombia and Venezuela). Russia should have additional capacity of 20Mtpa by 2010. China is also planning more capacity, but the situation here is complicated by the volume of coastal shipping, illustrated below.

**Figure 5 - Chinese Coal Flow** 



Source: Barlow Jonker

In summary, supply constraints are expected to ease over the medium term as new infrastructure comes on line. Nevertheless, the expansion of the infrastructure still lags behind the requirements of the market, and it will presumably be several years until it has achieved adequate dimensions. This is reflected in freight rates, covered in section 5.

#### 2.8. Market Concentration

Over the period 2004-2006 the tendency toward market concentration continued in all of the producing countries. The Chinese, for example, are striving to create large hard coal companies with over 100 million tonnes output for the long term. A handful of companies are also handling the lion's share of production and export in Indonesia.

However, the improvement in world market prices is also luring new companies into the coal export business, thereby expanding the pool of suppliers. In the case of coking coal – above all, hard coking coal – Australia has created a strongly dominant position with almost 66% market share, which in turn is in the hands of just a few producers. However, another player – CVRD – has stepped onto the coking coal scene. CVRD is developing into another market participant through projects in Mozambique and Venezuela as well as the entry into Australian coal mining.

The competition in the area of steam coal continues to be broader, and in recent years Russia and Indonesia have strengthened their positions on markets alongside the traditional suppliers Australia, South Africa and Colombia. As a consequence of high oil and gas prices, known deposits in many countries are being reassessed and the possibility of mining the reserves is being examined (e.g., in Eastern Canada, Chile, Zimbabwe). This could lead to some increase in supplies in the long term.

## 2.9. Steel Industry Developments

Steel demand is driven by population, economic growth and development. Half of the world's population lives in high growth, developing countries. Costs of iron and steelmaking vary widely by region, with important implications for the location of new capacity.

Crude steel production around the world rose by 88 million tonnes from 1.129 billion tonnes to 1.217 billion tonnes in 2006 (+7.8%), illustrated by the table below. China alone had a share of 60% of the growth in this sector. Pig iron production which determines the consumption of coking coal, PCI coal and coke, increased by 78 Mt from 790 Mt to 868 Mt. The share of crude steel production based on pig iron melted in the blast furnace process continued to rise because the growth in crude steel production, above all in China, was largely based on this process, due to the lack of adequate supplies of scrap.

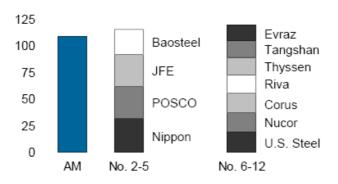
Figure 6-Growth in World Crude Steel Production

|               | 20    | 004  | 200   | )5  | 200   | )6  | 2007 ( | Est.) |
|---------------|-------|------|-------|-----|-------|-----|--------|-------|
|               | Mt    | %    | Mt    | %   | Mt    | %   | Mt     | %     |
| China         | 280   | +26% | 356   | +24 | 425   | +19 | 490    | +15   |
| Rest of World | 785   | +5%  | 773   | -1  | 792   | +3  | 806    | +2    |
| Total         | 1,065 | +10% | 1,129 | +6  | 1,217 | +8  | 1,296  | +6    |

Source: Verein der Kohlenimporteure, Jahresbericht 2006/2007

The most noteworthy recent development in the steel industry over recent years was the creation of Arcelor Mittal Steel. The €27bn merger was finally agreed on June 25<sup>th</sup> 2006 after a takeover battle lasting several months during which an attempt was made to pursue a merger with Severstal, Russia's largest steelmaker. Mittal finally took control of Arcelor in August 2006. This created the world's largest steel conglomerate by a significant margin. The following chart shows how Arcelor Mittal (AM) produced almost as much steel as the four next-largest companies combined during 2005.

Figure 7 - Crude Steel Production 2005 (Mt)



Source: Arcelor Mital

Consolidation in the sector continued with Tata Steel's £6.2bn acquisition of Corus Group on 2<sup>nd</sup> April 2007, creating the world's fifth largest steel producer.

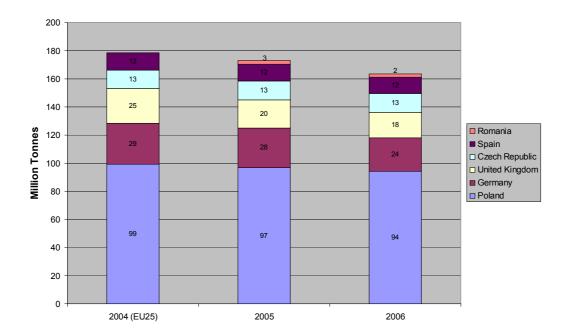
Steel demand seems set for substantial growth over the next decade. Continuing pressure to improve productivity of blast furnaces is likely to lead to larger quantities of high quality hard coking coal in blends as well as increasing rates of pulverised coal injection.

With major steel demand in developing countries, and the economics of blast furnace operation favouring production close to where raw materials are situated, further rationalisation of European steel production and associated coke making could be envisaged.

#### 3. HARD COAL – PRODUCTION AND CONSUMPTION IN THE EU

#### 3.1. Hard Coal Production

Indigenous production has continued its decline over the period 2004/06, and is forecast to decline further in 2007. The following chart shows trends for the major producing countries:



**Figure 8 - EU Hard Coal Production Trends** 

Hard coal production reduced by 4.7% in 2005 (EU-25) and by 5.4% in 2006 (EU-27). Detailed figures are given in the Annexes and are summarised in tables 7 and 8 at the end of this report.

The largest reduction in production from 2004 to 2005, in both absolute and percentage terms, was in the UK following the closure of the Selby mining complex. Production continues to decline with further mine closures and a lack of planning consents for surface mining. In 2006 both Germany and Poland showed significant reductions mainly as a result of mine closures in Germany and some poor outputs in Poland.

## 3.2. Hard Coal Consumption

Trends in total consumption of hard coal are illustrated by the following chart.

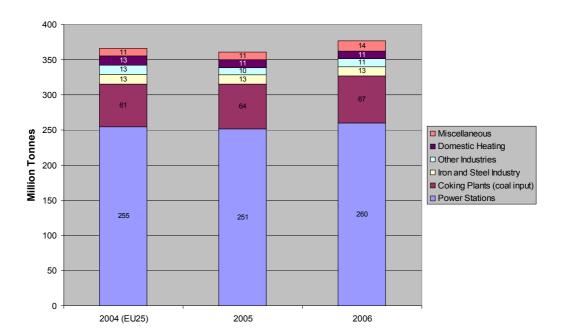


Figure 9 – EU Consumption Trends for Hard Coal (Mt)

Consumption continues to be dominated by the power sector at 69% followed by coke production at 18%. Power station consumption for EU-25 was down by 3.1% in 2005 compared to 2004, whilst use for coke production was down by 1.6%.

In 2006, EU-27 power station consumption increased by 3.5% with increases in the UK, Denmark, Finland and Poland partly offset by reductions in Spain and France. Use for coke production was up by 4.3% with the major increases in Poland, Italy, Hungary, UK and Sweden.

#### 4. COKE – PRODUCTION AND CONSUMPTION IN THE EU

#### 4.1. Coke Production

Production trends for coke are illustrated by the following chart:

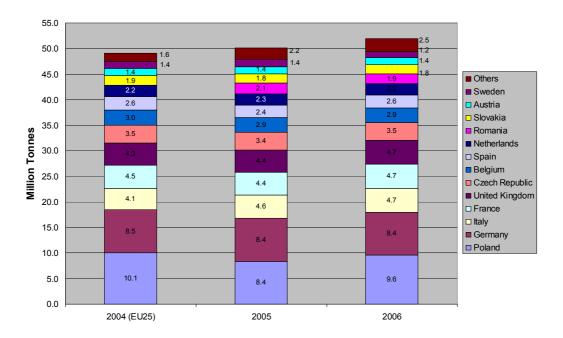


Figure 10 – EU Coke Production Trends

Coke production reduced by 4% from 2004 to 2005 (EU-25) where there was a reduction of 1.7 Mt of Polish production. In 2006 EU-27 coke production increased by 4% with Polish production recovering by 1.2 Mt and a number of smaller increases elsewhere. At 5 Mt, coke imports supply around 9% of the market.

#### 5. HARD COAL AND COKE - INTERNATIONAL MARKET

## 5.1. Major Hard Coal Producers

World hard coal production showed a record growth in the period 2004-2006, driven by growth in production from non-OECD countries, with an 8.8% growth in 2006, following three years of annual growth averaging 12%. Production increased in China, Russia, India, Indonesia, Kazakhstan and Colombia, but declined marginally in South Africa.

The following table shows figures for the largest producers:

Table 2 – Major World Hard Coal Producers (Mt)

|                      | 2003   | 2004   | 2005   | 2006   |
|----------------------|--------|--------|--------|--------|
| PR of China          | 1670.2 | 1956.0 | 2158.9 | 2481.5 |
| <b>United States</b> | 893.9  | 943.3  | 962.4  | 989.5  |
| India                | 358.4  | 382.0  | 403.0  | 427.1  |
| Australia            | 274.9  | 285.9  | 304.9  | 309.4  |
| South Africa         | 238.8  | 242.8  | 245.0  | 244.4  |
| Russia               | 177.4  | 189.8  | 202.9  | 233.2  |
| Indonesia            | 115.3  | 132.4  | 152.2  | 169.0  |
| Poland               | 102.9  | 101.2  | 97.9   | 95.2   |
| Kazakhstan           | 84.9   | 83.1   | 82.8   | 91.5   |
| Colombia             | 50.5   | 54.2   | 59.1   | 63.7   |
| Ukraine              | 63.8   | 59.1   | 60.0   | 61.4   |
| Others               | 256.8  | 204.0  | 204.9  | 203.9  |
| Total                | 4287.8 | 4633.8 | 4934.0 | 5369.8 |

Source: IEA Coal Information 2007

China accounts for around 46% of world coal production. Output grew by 14.9% in 2006, following 10.4% growth in 2005 and 17.1% in 2004. China's production has more than doubled since 2000 which allows the country to meet fast growing demand for coal-fired generation and steel making. However, as a major coal exporter, China gradually moved from the second largest coal exporter in 2001 to fifth in 2006.

Coal production in North America has shown slow growth for three consecutive years, increasing by 2.8% in 2006 after 2.0% growth in 2005 and 5.5% in 2004.

India showed growth in output of 6.0% in 2006, similar to the 5.5% growth in 2005, and slightly less than the 6.6% in 2004, but is increasingly dependent on imports because of its more rapidly growing power requirements.

Australia remains the largest hard coal exporter and increased production slightly by 1.5% after 6.6% growth in 2005 and 4% growth in 2004.

South Africa accounts for 98% of Africa's hard coal production and is the world's fourth largest coal exporter. Production fell back slightly by 0.2% compared to 0.9% growth in 2005 and 1.7% growth in 2004.

Russia expanded its output by 14.9% in 2006, a steep increase from the 6.9% growth in both 2005 and 2004, and further increased its importance as a supplier to Europe, particularly the UK. From 2005 it has overtaken South Africa as the world's third largest coal exporter.

Indonesia is the seventh largest producer but second largest exporter in the world. Coal production was up 11.0% in 2006 after stronger growth of 15.0% in both 2005 and 2004.

Colombian production increased by 7.8% in 2006 following an increase of 9.0% in 2005 and 7.3% in 2004. Colombia should continue to expand but Venezuela's potential for expansion will be limited unless the efficiency of port and rail connections is improved. Exports from South America are expected to be increasingly directed towards the USA as indigenous production fails to keep pace with demand.

#### **5.2.** Hard Coal Trade

A high proportion of world coal production is consumed within the country of origin – around 85%, and this is especially true of the two largest producers, China and the USA. Relatively small proportional changes in supply and demand in these countries can have a major impact on international market dynamics.

The major steam coal exporting nations are Australia, Indonesia, Russia, South Africa, Colombia and China, whereas for coking coal the major exporters are Australia, the United States and Canada.

Major world coal trade flows are illustrated by the following diagram:

HARD COAL TRADE, 2005 (million tonnes)

HARD COAL TRADE, 2005 (million tonnes)

HARD COAL TRADE, 2005 (million tonnes)

RUSIA

TO ASIA

TO

Figure 11 – Hard Coal Seaborne Trade 2005

Source: IEA/UK Coal Forum, Governmental Website

Trends in seaborne hard coal trade are illustrated by the following chart:

800.0 700.0 203.9 209.2 600.0 191.6 500.0 Million Tonnes ■ Coking Coal 400.0 □ Steam Coal 300.0 524.8 501.1 473.6 448.9 200.0 100.0 0.0 2003 2004 2006

Figure 12 - World Seaborne Hard Coal Trade

Source: Coal Information 2006/2007

## 5.3. Steam Coal Trade

Total world steam coal exports rose by 27.6 Mt or 4.9% in 2006 to reach 592.6 Mt. This follows a 31.3 Mt or 5.9% increase in 2005, up from 533.7 in 2004.

Exports from Indonesia, Russia, South Africa, Colombia, Poland and the United States rose in 2004/05 whereas China, Kazakhstan, Canada and Australia saw declining exports.

In 2006, exports were up from Australia, Indonesia, Russia and Colombia Kazakhstan, Vietnam and the USA and down from South Africa, China and Poland.

In 2005, Australia was the largest steam coal exporter with 19.4% of world exports. Indonesia, South Africa and Russia followed with shares of 16.3%, 13.1% and 12.1% respectively. In 2006, Australia retained its leading position at 18.7% of world exports. Russia, however, overtook South Africa for third place. The shares for Indonesia, Russia, and South Africa were 17.5%, 13.8% and 11.4% respectively.

2007 is predicted to show further growth of around 5% in steam coal trade.<sup>7</sup> China became a net coal importer at the beginning of the year and South Africa is showing some stagnation, but Colombia and Russia are expected to increase their exports. Indonesia will probably also increase its share of the Atlantic market. USA exports are also showing signs of increasing as a result of the high prices.

<sup>7</sup> Source: Verein der Kohlenimporteure, Jahresbericht 2006/2007

## 5.4. Coking Coal Trade

World trade in coking coal has decreased by 2.6% to 221.8 Mt in 2006. This followed growth of 8.6% in 2005 and 4.4% in 2004; Australia remained, by far, the largest exporter at 120.5 Mt, but with exports down by 4.4 Mt compared to the previous year.

Further growth in crude steel production is expected once again for 2007. As in previous years, China is the driving force, but production is also rising in India, South America and Eastern Europe. As coking coal stock surpluses were reduced in 2006, the demand for all qualities is expected to rise again.

## 5.5. Coke Trade

The OECD<sup>9</sup> countries' imports of coke decreased by 2.7% in 2006. <sup>10</sup> The USA, Germany, France, Japan and Austria were the five major OECD coke importers in 2006, accounting for 63.5% of coke imports. Coke trade statistics for non-OECD countries are only available up to 2005, showing that China and Russia were the main exporters while India and Brazil were the main importers. On its own, China accounted for 45.3% of world coke exports.

The demand for coke on the world market fell substantially in 2005 - after a 16.9% increase in 2004 - partly as a result of consumers entering 2005 with excess inventories. There is currently an overcapacity in coke production, especially in China.

## 5.6. Imports to the EU

In 2005, imports of hard coal to the EU-25 in 2005 of 192 Mt reduced by 1.0% compared with the previous year and represented 53% of total hard coal supply. The major hard coal exporting countries to the EU-25 were South Africa, Russia, Australia, Colombia, Indonesia the USA and Canada.

In 2006, imports of hard coal to the EU-27 were 210 Mt, an increase of 6.1%, representing 56% of total hard coal supply.

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<sup>8</sup> IEA includes coal used in coking blends and for pulverised coal injection in coking coal statistics which are not strictly coking coals

<sup>9</sup> Organisation of Economic Cooperation and Development

<sup>10</sup> Source– IEA Coal Information 2007

The breakdown of these hard coal imports is illustrated by the following chart.



Figure 13 – EU Hard Coal Import Breakdown

The most significant change in hard coal import sourcing from 2004 to 2005 and again from 2005 to 2006 is the major growth in imports from Russia, offset to some degree in 2005 by a reduction in South African supply. This growth of imports from Russia has been driven mainly by the UK, where lower sulphur supplies from Russia are needed at power station plants not fitted with flue gas desulphurisation. Additional benefits accrue from flexible shipment options, including smaller vessels more suited to a number of UK ports. In 2006 Russia became the largest hard coal supplier to the EU.

Major European importing countries are illustrated by the following chart:

200 20 □ Others 17 □ Portugal 150 20 Finland Million Tonnes □ Belgium Denmark 23 ■ Netherlands 24 24 100 ■ France 24 □ Spain 24 □ Italy 25 ■ Germany ■ United Kingdom 28 31 50 49 43 35 0 2004 (EU25) 2005

Figure 14 – EU Hard Coal Import Volumes by Member State (Mt)

The most striking trend in hard coal imports is in the UK, where imports have grown by 23.6 from 2004 to 2005 and by a further 14.1% in 2006. This is the result of increased demand from power stations coupled with reduced indigenous production.

#### 5.7. Steam Coal Prices

#### **SPOT PRICES**

The following graph illustrates the development of spot steam coal prices delivered to North West Europe:

\$/tonne 

Figure 15 – North West Europe Steam Coal Prices

Source: McCloskey Coal Information Services (MCIS)

It can be seen that after the major growth in 2003 and 2004, prices fell back somewhat in 2005 before recovering in 2006. This has been followed by a dramatic increase in prices in late 2007 to around \$130/tonne, driven both by high freight rates (see below) and also free-on-board (fob) prices.

Strong demand from India has coincided with a series of supply disruptions on the rail line supplying Richards Bay (South Africa). Pacific markets have also tightened driven by continued strong demand from all major buyers at a time of worsening infrastructure constraints at the Newcastle terminal, and a growing awareness that additional shipments of Indonesian coal will be insufficient to meet the needs of Asian buyers.

These high spot prices have continued to grow in the first semester 2008, pulled by strong demand in the Pacific Basin and by capacity limitations (notably a production slow-down in South Africa due to insufficient electricity supply to the mines and insufficient port capacity in Australia. Consequently, it is not foreseen that the prices falling back towards \$ 80/ tonne over the next year. However, loading capacity is foreseen to increase in Australian ports in 2009.

## **AVERAGE EU IMPORT PRICES**

Since 2003, based on declarations by the undertakings importing coal and on data aggregated by the Member States, the European Commission publishes every semester the average price of steam coal imported from third countries.

The average EU prices of imported steam coal are shown on the following graph and table.

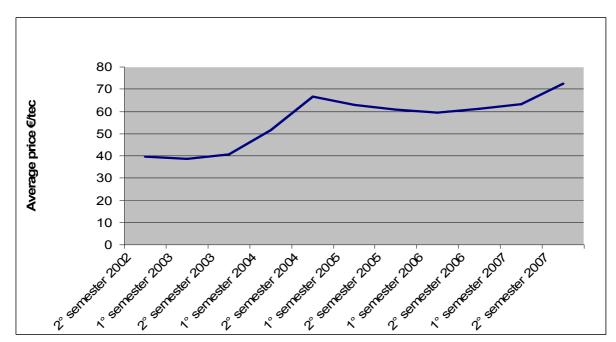


Figure 16 – Price of Steam Coal Imported From 3rd Countries

| 2° semester 2002 | € 39,8 |
|------------------|--------|
| 1° semester 2003 | € 38,8 |
| 2° semester 2003 | € 40,8 |
| 1° semester 2004 | € 51,5 |
| 2° semester 2004 | € 66,7 |
| 1° semester 2005 | € 62,9 |
| 2° semester 2005 | € 60,9 |
| 1° semester 2006 | € 59,6 |
| 2° semester 2006 | € 61,3 |
| 1° semester 2007 | € 63,1 |
| 2° semester 2007 | €72,5  |
|                  |        |

For the 2nd semester of 2007, the average price of imported steam coal was € 72.5 per tce (equivalent to \$ 102 per tec).

## 5.8. Coking Coal Prices

#### **SPOT PRICES**

Coking coal prices rose significantly from April 2005. Fob prices for hard coking coal rose from \$55-60/tonne to around \$125. Prices for semi-soft coking coal and PCI<sup>11</sup> coal also increased.

Table 3 - Price Trends in Coking Coal (US \$/Tonne FOB Australia)

| Contract Prices*      | 2004/5 | 2005/6 | 2006/7 | 2007/8 |
|-----------------------|--------|--------|--------|--------|
| Hard Coking Coal      | 58     | 125    | 116    | 98     |
| Semi-soft Coking Coal | 43     | 85     | 58     | 64     |
| PCI                   | 48     | 100    | 65     | 68     |

<sup>\*</sup>April to March basis

Source: Goldman Sachs Commodities

In 2006/7 and 2007/8 the prices have eased back somewhat, but still remain high by historic standards because coke strength is so important in modern blast furnaces and the steel requirements of rapidly growing economies – such as China and India – remain intense.

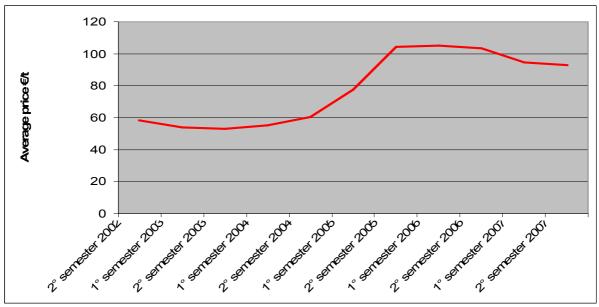
#### **AVERAGE EU IMPORT PRICES**

Since 2003, based on declarations by the undertakings importing coal and on data aggregated by the Member States, the European Commission publishes every semester the average price of coking coal imported from third countries.

Coal for pulverised injection

The average EU prices of imported coking coal are shown on the following graph and table.

Figure 20 – Price of Coking Coal Imported From 3rd Countries 120



| 2° semester 2002 | € 58,3  |
|------------------|---------|
| 1° semester 2003 | € 54,0  |
| 2° semester 2003 | € 53,0  |
| 1° semester 2004 | € 55,4  |
| 2° semester 2004 | € 60,3  |
| 1° semester 2005 | € 77,4  |
| 2° semester 2005 | € 104,2 |
| 1° semester 2006 | € 105,3 |
| 2° semester 2006 | € 103,3 |
| 1° semester 2007 | € 94,6  |
| 2° semester 2007 | € 93,0  |

For the 2nd semester of 2007, the average price of imported coking coal was € 93.0 per tonne (equivalent to \$ 128 per tonne).

## 5.9. Coke Prices

Developments in coke prices (fob 12-12.5% ash), are illustrated by the following chart.

450 400 350 300 250 200 150 100 50 0

Figure 21 - Spot Chinese Coke Prices

Source: Euracoal Market report

The world market coke prices fell back significantly during 2005, compared to the unprecedented levels in 2004, in view of lower demand and over capacities in China.

However, prices have increased again in 2007 and towards the end of the year prices have approached \$400/tonne fob, the highest level since May 2004. This is largely the result of chronic shortages of Chinese export permits. Rising demand had, by the end of October, led to the near exhaustion of all the licenses issued by the Chinese authorities.

## 5.10. Freight Considerations

Delivered prices to Europe comprise both free on board (fob) prices from the country of loading and sea freight rates.

The major increase in prices in 2003 was initially driven by high freight rates as well as higher underlying coal prices. These high freight rates resulted mainly from China's surge in demand for raw materials, and also the associated congestion at various bottlenecks such as Australian loading ports, blocking in these ports a significant vessel capacity that would be available to the market otherwise.

These logistics bottlenecks reduced in 2005, and the bulk carrier fleet continued its rapid expansion, leading to a fall in freight rates.

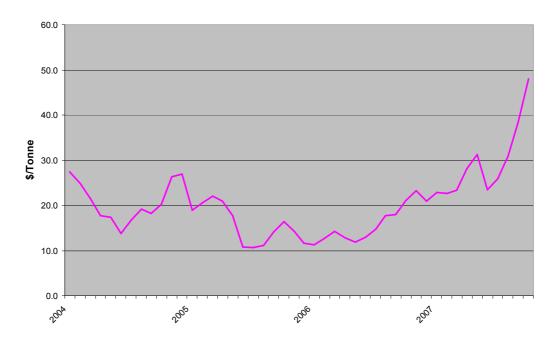
Rates, however, started to increase once more during 2006 and towards the end of 2007 rose to unprecedented new levels. The continued boom in demand for dry bulk commodities is

outpacing the expansion of the fleet. Structural shifts in sea transport are leading to longer sea routes.

The following chart shows the development of rates from the beginning of 2004 to the end of 2007.

Figure 22 - Spot Sea Freight Rates

Richards Bay (South Africa) to Rotterdam



Source: Euracoal Market Report

## 6. LIGNITE AND PEAT – PRODUCTION AND CONSUMPTION IN THE EU

## **6.1.** World Context

The world supply of lignite/brown coal went up by 0.9% in 2006 and reached 913.8 Mt, following an increase of 1.3% in 2005 and 1.5% in 2004. Increases in Turkey, Russia and Romania more than offset the decreases in Germany, Greece, Poland and Serbia-Montenegro.

The following table shows figures for the largest producers:

Table 4 – Major World Lignite Producers (Mt)

|                   | 2004  | 2005  | 2006  |
|-------------------|-------|-------|-------|
| Germany           | 181.9 | 177.9 | 176.3 |
| United States     | 75.8  | 76.2  | 76.4  |
| Russia            | 69.2  | 73.7  | 75.8  |
| Australia         | 68.6  | 70.7  | 71.2  |
| Greece            | 70.0  | 69.4  | 65.7  |
| Turkey            | 44.4  | 56.2  | 61.6  |
| Poland            | 61.2  | 61.6  | 60.8  |
| Czech Republic    | 48.5  | 48.8  | 49.1  |
| Serbia-Montenegro | 41.1  | 40.4  | 38.9  |
| Canada            | 36.7  | 36.8  | 36.6  |
| Romania           | 31.8  | 31.1  | 35.0  |
| India             | 30.3  | 30.1  | 29.8  |
| Bulgaria          | 26.5  | 24.7  | 25.5  |
| Others*           | 108.3 | 108.4 | 111.1 |
| Total             | 894.3 | 906.0 | 913.8 |

<sup>\*</sup>IEA figures also include oil shale production in Estonia

Source: IEA Coal Information 2007

Unlike the situation for hard coal, many European nations feature amongst the top producing countries. Europe is responsible for around 50% of world lignite production. In Europe, lignite represents an energy resource of key importance.

## **6.2.** Lignite Production

In the EU, the production of lignite has been fairly stable from 2004 into 2005, and the figures for 2006 were broadly similar, although inclusion of production from Romania and Bulgaria lifted the EU total for 2006 from 396 Mt to 454 Mt. Production trends are illustrated by the following chart<sup>12</sup>:

For the purposes of the EU statistics in this report and the attached tables, lignite, brown coal and peat are grouped together and included in a single EU total. (Production of oil shale is not included in the solid fuel totals but figures are reported in section 6.)

500 450 32 28 400 21 24 350 ■ Bulgaria 48 49 49 Romania Million Tonnes 300 □ Others/Peat 62 ■ Spain ■ Hungary □ Czech Republic □ Poland 200 ■ Greece □ Germany 150 100 182 178 180 50 0 2004 (EU25) 2005 2006

Figure 23 – EU Lignite Production Trends

## 6.3. Lignite Prices

Prices of lignite are not quoted as it is not a generally traded commodity. In many cases lignite production is vertically integrated with power generation, and mines are treated as cost centres.

## 6.4. Lignite Consumption

In EU-25, consumption of lignite in 2005 was 397 Mt, a decrease of 1.7% compared to 2004. Over 90% of lignite is used in power stations with the remainder being largely used for domestic heating, mainly in the form of briquettes.

For EU-27, consumption in 2006 was 452 Mt, an increase of 0.5%.

There is little trade in lignite because of its low heat value and resulting high unit transportation costs. Trade between Member States was around 2 Mt and net trade with third countries was around 1 Mt.

## 6.5. Peat Production

Production and consumption of peat is included within the overall lignite figures.

In 2005, 14.3 Mt of peat was produced, increasing to 16.7 Mt in 2006. Production comes mainly from Finland, Ireland, Sweden, Estonia and Lithuania.

#### 6.6. Oil Shale

Oil shale statistics are not included in any of the tables or figures in this report and its annexes.

In 2005 14.590 Mt of oil shale was produced in Estonia.

Total availability was 15.761 Mt including recoveries of 1.008 Mt and imports of 0.163 Mt from the Russian Federation.

Oil shale was used entirely in the power generation sector in Estonia where consumption was 14.803 Mt. (2006 data is unavailable.)

#### 7. STATE AID TO THE INDIGENOUS HARD COAL INDUSTRY IN THE EU

#### 7.1. Framework for Coal State Aid

Due to unfavourable geological conditions, a part of EU indigenous hard coal production is not competitive with imported coal. After the expiry of the ECSC Treaty on 23 July 2002, the Council adopted a Regulation on State aid to the coal industry<sup>13</sup> to provide a framework within which State aid to the coal industry could be considered from 24 July 2002 until 31.December 2010.

This framework is based on a minimal production of coal, which will help to maintain a proportion of indigenous primary energy sources, in order to strengthen the EU energy security of supply. State aid to the coal industry will also support the restructuring of this sector, taking into account the social and regional repercussions resulting from the reduction in activity.

Different kinds of coal state aid may be considered compatible with the common market (see the following table). Member states must notify the state aid that they wish to grant to the coal industry for consideration and eventual approval by the European Commission.

Council Regulation N° 1407/2002 of 23 July 2002, OJ L 205 of 02.082002, p.1

**Table 5 - Types of Coal State Aid and Conditions** 

| Aid  | Conditions  |
|--|---|
| Aid for initial investment (Article 5.2)   | - be part of a plan for accessing coal reserves;  |
|  | - operating plan to ensure economic viability;  |
|  | - not more than 30% of the total initial investment costs.  |
| Current production aid (Article 4 and Article 5.3):  | - be part of a plan for accessing coal reserves (Article 5.3)/ be part of a closure plan (Article 4); |
| Article 4 = current production aid targeted at mines covered by restructuring and closure plans. Such aid could be granted | - aid granted to production units which afford the best economic prospects (Article 5.3);             |
| only till end-2007. Article 5.3 = current production aid targeted at mines covered by plans for                            | <ul> <li>aid may not exceed difference between production<br/>costs and revenue;</li> </ul>           |
| accessing coal reserves  | - aid may not cause lower prices than those for coal from third countries;                            |
|  | - aid may not cause distortion of competition in user-sectors.  |
|  |   |
| Aid to cover exceptional costs (Article 7):  | - only social and environmental costs arising from rationalisation and restructuring.                 |

As a general condition, the overall amount of current production aid and initial investment aid to the coal sector has to follow a downward trend so as to result in a significant reduction.

## 7.2. Amounts of Coal State Aid Granted/Authorised

The table below provides an overview of aid actually granted by the biggest coal granters in EU-27 or authorised by the Commission to the coal industry for the years 2003 to 2007.

Current production aid continued to decrease in line with the agreements on the reduction of volumes of aid to the coal industry. Nevertheless, as at end-2007, it still accounted for more than 55% of aid going to the coal mining sector.

There are 4 Member States with which currently grant production aid<sup>14</sup> for their hard coal industry: Germany, Spain, Romania and Hungary. In Slovenia, the relevant payments to the coal mining industry of Slovenia take the form of a compensation for a public service obligation.<sup>15</sup>.

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The recent relevant State aid decisions by the Commission are as follows: N726/2006 (Germany), NN81/2006 Spain, N239/2007 (Romania), N92/2005 (Hungary).

In the case of Slovenia, the indirect operating aid is provided which takes the form of a compensation for a public service obligation imposed upon the power plant using the locally produced coal: see Commission decision in case C7/2005 – Slovenian electricity tariffs.

As to exceptional costs related to rationalisation and restructuring <sup>16</sup>, most of coal–producing Member States, have taken over, to a certain extent, financing of such costs both for closed mines and for mines which are still in operation <sup>17</sup>. The exceptions are *Czech Republic, Hungary and Bulgaria where* the mining undertakings still in operation do not benefit from these payments

Finally, small amounts of aid are being targeted at promoting initial investment in coal mining sector. There are 3 Member States which got the Commission's authorisation to grant investment aid: the United Kingdom, Poland and Slovakia<sup>18</sup>. These are Member States where remaining coal mining industry is largely competitive and where operating subsidies are not needed. *Poland* had not provided so far investment aid but reserved this possibility.

<sup>16</sup> E.g. costs of environmental clean-up following (partial) closure of mining activities, costs related to early retirement schemes.

These have been approved in Commission decisions N 571/2004, N84/2007 and N575/2007 (Poland), N 27 and 53/2005, N 419/2005, N 168/2005, NN 9/2006 and N 387/2006 (Slovakia), N 421/2003 and N 321/2004 (France), N 746 and N 474/2002, N 493/2003, N 320/2004, N 497/2004, N 552/2005, N726/2006 (Germany), N 20/2003 (United Kingdom) C 14/2004, N 352/2006 (Spain).

<sup>18</sup> See e.g. Commission decisions N814/2002 (UK), N324/2005 (Slovakia), N571/2004 (Poland).

Table 6 - State Aid 2003-2007 - amounts actually granted by Member States (only for the main coal aid granters in the EU-27) or authorised by the Commission for the relevant year

# (Millions €)

|  | •     | ,    |      |      |                   |
|--|-------|------|------|------|-------------------|
| Country                                | 2003  | 2004 | 2005 | 2006 | 2007              |
| Germany                                | 2 (20 |      |      |      |                   |
| - current production aid               | 2639  | 2483 | 2114 | 1472 | 1357              |
| - aid for related to exceptional costs | 780   | 556  | 602  | 882  | 994               |
| Spain                                  | 5.60  |      |      |      |                   |
| - current production aid               | 569   | 340  | 502  | 467  | 450               |
| - aid related to exceptional costs     | 550   | 573  | 582  | 345  | 363               |
| Poland                                 |       |      |      |      |                   |
| - current production aid               |       |      | 369  |      |                   |
| - aid related to exceptional costs     | 903   | 913  |      | 60   | 87                |
| Romania                                |       |      |      |      |                   |
| - current production aid               | n/a   | n/a  | n/a  | n/a  | 112 <sup>19</sup> |
| - aid related to exceptional costs     |       |      |      |      |                   |
| Hungary                                |       |      |      |      |                   |
| - current production aid               | n/a   | 44   | 39   | 38   | 36                |
| - aid related to exceptional costs     | n/a   | 48   | 6    | 4    | 4                 |
|  |       |      |      |      |                   |

## 8. CONCLUSIONS

## Coal in the World

From 2004 to 2006 total world coal production increased by 16% to 5,370 million tonnes (Mt).

Updated analysis of proven coal reserves indicates that, at current world production levels, there is close to 150 years of coal available.

In line with the accession conditions, for MS which joined EU on 1.01.2007, the overall amount of aid to the coal industry shall not exceed fro any subsequent year the amount of aid authorised by the Commission for 2007.

A high proportion of world coal production is consumed within the country of origin – around 85%, and this is especially true of the two largest producers, China and the USA. Relatively small proportional changes in supply and demand in these countries can have a major impact on international market dynamics.

From 2004 to 2006 world hard coal exports increased by 12 % to 815 Mt. For steam coal, the major exporting nations are Australia, Indonesia, Russia, South Africa, Colombia and China. For coking coal the major exporters are Australia, the United States and Canada.

World steam coal exports rose by 11 % in from 2004 to 2006 to reach 593 Mt. Australia has retained its leading position in world exports with Indonesia second. In 2006, however, Russia overtook South Africa for third place. In 2007, world steam coal trade showed a further growth of around 4%. China became a net coal importer at the beginning of 2007 and South Africa showed some stagnation, but other producers increased their exports.

World trade in coking coal decreased by 2.6% to 222 Mt in 2006. This followed growth of 8.6% in 2005 and 4.4% in 2004. Australia remained, by far, the largest exporter at 121 Mt. Further growth in crude steel production is expected for 2007 and demand for all coking coal qualities is expected to rise again.

## Coal in Europe

Europe is the third largest region worldwide in terms of coal consumption, after China and the USA. Around two thirds of EU coal consumption is derived from indigenous production, with 164 million tonnes of hard coal and 454 million tonnes of lignite produced in 2006.

Europe possesses substantial reserves of coal and lignite. World Energy Council figures show EU reserves of hard coal at 8.4 billion tonnes and lignite at 20.9 billion tonnes. Additionally, resource figures are assessed at 24.4 billion tonnes and 31.0 billion tonnes respectively by IEA. The largest hard coal reserve is in Poland, with significant reserves also in the Czech Republic, and lesser reserves in Spain, Hungary, the United Kingdom and Germany. In the case of lignite, reserves are present in a swathe from Germany through Central Europe and the Balkans, to Greece.

Production of hard coal has continued its decline in the EU. Production reduced by 4.7% in 2005 (EU-25) and by 5.4% in 2006 (EU-27) and is expected to continue to decline in 2007.

Hard coal consumption in the EU continues to be dominated by the power sector at 69% followed by coke production at 18%.

In 2005, imports of hard coal to the EU-25 reached 192 Mt and represented 53% of total supply. The major exporting countries to the EU-25 were South Africa, Russia, Australia, Colombia, Indonesia the USA and Canada. In 2006, imports of hard coal to the EU-27 were 210 Mt, representing 56% of total supply. The most significant change in import sourcing from 2004 to 2006 is the major growth in imports from Russia.

## Coal prices

Steam coal prices strongly fluctuated in the period 2003-2007. They strongly increased in 2003/04 and again in the second half of 2007. Spot steam coal prices reached the level of \$130 per metric tonne in December 2007 and their increasing trend continued in the first semester of 2008.

Average import prices for steam coal in the EU rose less, from  $\in$  39 per tce in the first semester 2003 till  $\in$  73 per tce in the second semester 2007. It is expected that this average price will further increase in the 1<sup>st</sup> semester of 2008.

Coking coal prices also remain high by historic standards. Chinese coke prices have increased dramatically in 2007 and towards the end of the year have approached \$400/tonne fob, the highest level since May 2004.

#### **Coal State Aid**

Due to unfavourable geological conditions, a part of EU indigenous hard coal production is not competitive with imported coal. After the expiry of the ECSC Treaty on 23 July 2002, the Council adopted a Regulation on State aid to the coal industry to provide a framework within which different kinds of state aid to the coal industry could be considered compatible with the EC Treaty from 24 July 2002 onwards.

Over the period 2003/07 current production aid continued to decline.

## Lignite

The world supply of lignite/brown coal went up by 0.9 % in 2006 and reached 913.8 Mt, following an increase of 1.3 % in 2005. Unlike the situation for hard coal, many European nations feature amongst the top producing countries. Europe is responsible for around 50% of world production, where it represents an energy resource of key importance. EU production of lignite has been fairly stable in the period from 2004 to 2006. With the inclusion of production from Romania and Bulgaria, the EU total lignite production was 454 Mt in 2006. Over 90% of lignite is used in power stations with the remainder being largely used for domestic heating, mainly in the form of briquettes.

The increase in the import prices of hard coal is strengthening the competitive position of coal production especially in the lignite sector. This results in a more stable contribution to the security of energy supply.

# ANNEXES Supplies and Deliveries in the EU of Hard Coal, Coke and Lignite in 2004/06

Table 1
Supplies and Deliveries of Hard Coal in 2004 (Part 1)

|   |         |         |          |        | (III tilou        | sands of metric tor | 11103)  |         |        |         |        |         |         |        |
|---|---------|---------|----------|--------|-------------------|---------------------|---------|---------|--------|---------|--------|---------|---------|--------|
| Member State                                | Austria | Belgium | Bulgaria | Cyprus | Czech<br>Republic | Denmark             | Estonia | Finland | France | Germany | Greece | Hungary | Ireland | Italy  |
| 1. Production (t=t)                         |         |         |          |        | 13.303            |                     |         |         | 160    | 29.151  |        |         |         | 200    |
| of which :                                  |         |         |          |        |                   |                     |         |         |        |         |        |         |         |        |
| A - Underground                             |         |         |          |        | 13.303            |                     |         |         | 160    | 29.151  |        |         |         | 200    |
| B - Opencast                                |         |         |          |        |                   |                     |         |         |        |         |        |         |         |        |
| 2. Recoveries                               |         | 181     |          |        |                   |                     | 26      |         | 712    |         |        |         |         | 552    |
| 3. Receipts from other EU Countries (EU-25) | 4.278   | 784     |          |        | 1.504             | 1.093               |         | 1.679   | 1.334  | 8.566   |        | 655     | 348     | 126    |
| 4. Total imports from Third Countries       | 102     | 9.171   |          | 43     | 64                | 6.501               | 44      | 6.607   | 18.127 | 30.970  | 814    | 681     | 2.538   | 24.541 |
| of which:                                   |         |         |          |        |                   |                     |         |         |        |         |        |         |         |        |
| A - USA                                     |         | 1.659   |          |        |                   | 188                 |         | 430     | 2.211  |         |        | 3       |         | 2.329  |
| B - Canada                                  |         | 404     |          |        |                   |                     |         | 239     | 365    | 2.847   |        |         |         | 910    |
| C - Australia                               | 8       | 2.623   |          |        |                   | 442                 |         | 336     | 6.015  | 3.996   |        | 88      | 1.151   | 3.077  |
| D - South Africa                            | 4       | 3.094   |          |        |                   | 1.845               |         |         | 3.945  | 9.304   |        |         | 172     | 5.902  |
| E - Russian Federation                      | 86      | 1.263   |          | 43     | 54                | 1.960               | 44      | 5.493   | 764    | 5.831   | 546    | 552     | 3       | 1.895  |
| F - China                                   |         | 36      |          |        |                   | 275                 |         |         | 274    |         | 136    |         | 4       | 483    |
| G - Colombia                                |         | 64      |          |        |                   | 1.462               |         |         | 2.852  | 3.718   |        |         | 1.170   | 2.923  |
| H - Indonesia                               |         |         |          |        |                   |                     |         |         | 610    |         | 63     |         |         | 5.867  |
| I - Venezuela                               |         | 3       |          |        |                   |                     |         |         | 450    |         |        |         |         | 788    |
| J - Others                                  | 4       | 25      |          |        | 10                | 329                 |         | 109     | 641    | 5.274   | 69     | 38      | 38      | 367    |
| 5. Total Availabilities (1+2+3+4)           | 4.380   | 10.136  |          | 43     | 14.871            | 7.594               | 70      | 8.286   | 20.333 | 68.687  | 814    | 1.336   | 2.886   | 25.419 |
| 6. Gross Inland Consumption*                | 4.450   | 8.205   |          | 60     | 9.521             | 7.442               | 58      | 7.993   | 19.584 | 69.273  | 776    | 1.299   | 2.812   | 25.208 |
| A - Power Stations (public & mine)          | 2.227   | 3.348   |          |        | 3.635             | 7.059               |         | 6.427   | 8.676  | 51.890  | 772    | 208     | 2.234   | 18.033 |
| B - Coking Plants (coal input)              | 1.860   | 3.647   |          |        | 4.641             |                     |         | 1.275   | 5.868  | 10.288  |        | 827     |         | 5.124  |
| C - Iron and Steel Industry**               |         | 643     |          |        | 644               |                     |         |         | 2.534  | 2.642   |        |         |         | 1.350  |
| D - Other Industries                        | 296     |         |          | 60     | 496               | 224                 | 12      | 285     | 1.927  | 3.472   |        | 120     | 228     | 664    |
| of which Power Stations                     |         |         |          |        |                   |                     |         | 164     | 457    | 3.429   |        |         | 5       | 156    |
| E - Domestic Heating                        | 46      | 204     |          |        | 105               | 159                 | 33      | 6       | 539    | 769     | 4      | 129     | 269     | 37     |
| F - Miscellaneous (Total (i)+(ii)+(iii))    | 22      | 363     |          |        |                   |                     | 13      |         | 40     | 212     |        | 15      | 81      |        |
| (i) Issue to Workers                        |         |         |          |        |                   |                     |         |         |        | 107     |        |         |         |        |
| (ii) Patent Fuel Plants                     |         | 7       |          |        |                   |                     |         |         | 39     | 101     |        | 14      | 43      |        |
| (iii) Others                                |         | 356     |          |        | 216               |                     | 13      |         | 1      | 4       |        | 1       | 38      |        |
| 7. Deliveries to Other EU Countries (EU-25) | 23      | 1.305   |          |        | 5.567             | 63                  |         |         | 94     | 106     |        | 6       | 5       |        |
| 8. Exports to Third Countries               |         | 9       |          |        | 9                 | 93                  |         |         |        | 3       | 22     |         |         | 55     |
| 9. Total Deliveries (6+7+8)                 | 4.473   | 9.519   |          | 60     | 15.097            | 7.598               | 58      | 7.993   | 19.678 | 69.382  | 798    | 1.305   | 2.817   | 25.263 |

<sup>\*</sup> Including transformation for coke

<sup>\*\*</sup> PCI Coal

Table 1
Supplies and Deliveries of Hard Coal in 2004 (Part 2)

|                      |           |            |       |             |         |                        | \'      | in thousands of the    |          |        |        |                   |                |
|----------------------|-----------|------------|-------|-------------|---------|------------------------|---------|------------------------|----------|--------|--------|-------------------|----------------|
| Latvia<br>(Estimate) | Lithuania | Luxembourg | Malta | Netherlands | Poland  | Portugal<br>(Estimate) | Romania | Slovakia<br>(Estimate) | Slovenia | Spain  | Sweden | United<br>Kingdom | Total<br>EU-25 |
|                      |           |            |       |             | 99.270  |                        |         |                        |          | 12.342 |        | 24.535            | 178.960        |
|                      |           |            |       |             |         |                        |         |                        |          |        |        |                   |                |
|                      |           |            |       |             | 99.270  |                        |         |                        |          | 7.569  |        | 12.542            | 162.195        |
|                      |           |            | •     |             |         |                        |         |                        |          | 4.772  |        | 11.993            | 16.765         |
|                      |           |            |       |             | 713     |                        |         |                        |          |        |        | 561               | 2.745          |
|                      |           | 67         |       | 381         | 512     | 165                    |         | 3.118                  |          | 347    | 701    | 1.673             | 27.331         |
| 93                   | 264       | 62         |       | 21.925      | 1.792   | 5.180                  |         | 2.065                  | 523      | 24.474 | 2.485  | 34.624            | 193.690        |
|                      |           |            |       |             |         |                        |         |                        |          |        |        |                   |                |
|                      |           |            |       | 1.815       |         | 460                    |         | 60                     |          | 2.007  | 428    | 2.061             | 13.651         |
|                      |           |            |       | 1.500       |         |                        |         |                        |          | 230    |        | 715               | 7.210          |
|                      |           |            |       | 1.400       |         | 130                    |         |                        |          | 3.263  | 1.472  | 6.175             | 30.176         |
|                      |           | 60         |       | 8.316       |         | 1.935                  |         |                        |          | 10.194 |        | 10.144            | 54.916         |
| 93                   | 254       |            |       | 1.124       | 1.536   |                        |         | 1.468                  |          | 3.286  | 458    | 9.932             | 36.685         |
|                      |           |            |       | 107         | 1       |                        |         |                        |          | 143    |        | 258               | 1.717          |
|                      |           | 2          |       | 4.515       | 31      | 2.075                  |         |                        |          | 972    |        | 3.670             | 23.454         |
|                      |           |            |       | 1.784       |         | 160                    |         |                        | 523      | 3.521  |        | 1.458             | 13.986         |
|                      |           |            |       | 943         |         |                        |         |                        |          | 16     | 127    |                   | 2.327          |
|                      | 10        |            |       | 421         | 224     | 420                    |         | 537                    |          | 842    |        | 211               | 9.569          |
| 93                   | 264       | 129        |       | 22.306      | 102.287 | 5.345                  |         | 5.183                  | 523      | 37.163 | 3.186  | 61.393            | 402.727        |
| 93                   | 259       | 129        |       | 13.505      | 83.368  | 5.345                  |         | 5.150                  | 503      | 37.099 | 3.414  | 60.652            | 366.198        |
|                      |           |            |       | 8.876       | 43.173  | 5.330                  |         | 1.600                  | 473      | 30.611 | 602    | 48.968            | 244.142        |
|                      |           |            |       | 3.148       | 9.887   |                        |         | 2.440                  |          | 3.900  | 1.790  | 6.382             | 61.076         |
|                      |           | 40         |       | 1.468       | 2.511   |                        |         | 390                    |          | 715    | 549    |                   | 13.486         |
|                      | 128       |            |       | 13          | 8.975   | 13                     |         | 690                    | 30       | 1.493  | 473    | 3.540             | 23.228         |
|                      |           |            |       |             | 4.477   |                        |         |                        |          | 262    |        | 1.514             | 10.464         |
| 93                   | 50        |            |       |             | 8.969   |                        |         |                        |          | 320    |        | 1.359             | 13.091         |
|                      | 81        |            |       |             | 9.853   | 2                      |         | 30                     |          | 60     |        | 403               | 11.175         |
|                      |           |            |       |             | 1.025   |                        |         |                        |          |        |        |                   | 1.132          |
|                      |           |            |       |             |         |                        |         |                        |          |        |        | 327               | 531            |
|                      | 81        |            |       |             | 8.827   |                        |         | 30                     |          |        |        | 76                | 9.643          |
|                      |           |            |       | 8.805       | 18.695  |                        |         |                        | 20       | 54     | 7      | 19                | 34.769         |
|                      |           |            |       | 227         | 1.202   |                        |         |                        |          | 10     | 1      | 601               | 2.232          |
| 93                   | 259       | 129        |       | 22.537      | 103.265 | 5.345                  |         | 5.150                  | 523      | 37.163 | 3.422  | 61.272            | 403.199        |

# Supplies and Deliveries of Hard Coal in 2005 (Part 1)

|   |         | 1       | 1        |        | (111 111)         | sands of metric tor | 11103)  |         |        |         |        | 1       | 1       |        |
|---|---------|---------|----------|--------|-------------------|---------------------|---------|---------|--------|---------|--------|---------|---------|--------|
| Member State                                | Austria | Belgium | Bulgaria | Cyprus | Czech<br>Republic | Denmark             | Estonia | Finland | France | Germany | Greece | Hungary | Ireland | Italy  |
| 1. Production (t=t)                         |         |         | 26       |        | 13.243            |                     |         |         |        | 28.018  |        |         |         | 200    |
| of which :                                  |         |         |          |        |                   |                     |         |         |        |         |        |         |         |        |
| A - Underground                             |         |         | 26       |        | 13.214            |                     |         |         |        | 28.018  |        |         |         | 200    |
| B - Opencast                                |         |         |          |        | 29                |                     |         |         |        |         |        |         |         |        |
| 2. Recoveries                               |         | 109     |          |        | 346               |                     | 2       |         | 617    |         |        |         |         |        |
| 3. Receipts from other EU Countries (EU-25) | 3.716   | 681     |          |        | 1.184             | 890                 |         | 599     | 2.804  | 8.833   |        | 730     | 295     | 466    |
| 4. Total imports from Third Countries       | 478     | 8.120   | 2.269    | 63     | 35                | 5.141               | 54      | 4.124   | 17.046 | 28.272  | 646    | 717     | 2.628   | 23.685 |
| of which :                                  |         |         |          |        |                   |                     |         |         |        |         |        |         |         |        |
| A - USA                                     | 468     | 1.714   | 356      |        |                   | 66                  |         | 382     | 1.928  | 2.924   |        | 52      |         | 2.635  |
| B - Canada                                  |         | 269     | 267      |        |                   |                     |         | 519     | 491    |         |        |         |         | 1.143  |
| C - Australia                               |         | 2.950   | 267      |        |                   | 129                 |         | 487     | 5.309  | 4.171   |        | 115     | 299     | 2.791  |
| D - South Africa                            | 10      | 2.081   |          |        |                   | 1.852               |         |         | 4.225  | 8.305   | 132    |         | 627     | 4.600  |
| E - Russian Federation                      |         | 944     | 569      | 63     | 32                | 1.531               | 54      | 2.736   | 905    | 7.546   | 380    | 550     | 3       | 1.096  |
| F - China                                   |         | 58      |          |        |                   |                     | ·       | ·       | 15     |         |        |         | 4       |        |
| G - Colombia                                |         | 5       |          |        |                   | 1.254               |         |         | 2.516  | 3.069   |        |         | 1.014   | 2.997  |
| H - Indonesia                               |         |         |          |        |                   |                     |         |         | 245    |         | 63     |         | 602     | 6.800  |
| I - Venezuela                               |         | 3       |          |        |                   |                     |         |         | 542    |         |        |         |         | 550    |
| J - Others                                  |         | 96      | 810      |        | 3                 | 309                 |         |         | 871    | 2.257   | 71     |         | 79      | 1.073  |
| 5. Total Availabilities (1+2+3+4)           | 4.194   | 8.910   | 2.295    | 63     | 14.808            | 6.031               | 56      | 4.723   | 20.468 | 65.123  | 646    | 1.447   | 2.923   | 24.351 |
| 6. Gross Inland Consumption*                | 4.225   | 7.380   | 2.295    | 52     | 9.307             | 6.288               | 56      | 4.476   | 21.441 | 65.168  | 563    | 1.341   | 2.852   | 23.713 |
| A - Power Stations (public & mine)          | 1.949   | 3.045   | 1.238    |        | 3.510             | 5.938               |         | 2.900   | 9.951  | 48.489  |        | 214     | 2.277   | 16.184 |
| B - Coking Plants (coal input)              | 2.010   | 3.374   | 1.057    |        | 4.342             |                     |         | 1.276   | 5.847  | 10.177  |        | 808     |         | 5.281  |
| C - Iron and Steel Industry**               |         | 522     |          |        | 750               |                     |         |         | 2.936  | 2.770   |        |         |         | 1.814  |
| D - Other Industries                        | 227     | 244     |          | 52     | 565               | 235                 | 13      | 294     | 2.193  | 2.801   | 560    | 192     | 211     | 430    |
| of which Power Stations                     |         |         |          |        | 330               |                     |         | 166     | 362    | 2.741   |        |         | 5       |        |
| E - Domestic Heating                        | 38      | 188     |          |        | 140               | 115                 | 29      | 6       | 480    | 737     | 3      | 108     | 283     | 4      |
| F - Miscellaneous (Total (i)+(ii)+(iii))    | 0       | 7       |          |        |                   |                     | 14      |         | 34     | 194     |        | 19      | 81      |        |
| (i) Issue to Workers                        |         |         |          |        |                   |                     |         |         |        | 101     |        |         |         |        |
| (ii) Patent Fuel Plants                     |         | 7       |          |        |                   |                     |         |         | 34     | 90      |        | 10      | 43      |        |
| (iii) Others                                |         |         |          |        | 190               |                     | 14      |         |        | 3       |        | 9       | 38      |        |
| 7. Deliveries to Other EU Countries (EU-25) | 3       | 1.222   |          |        | 5.254             | 1                   |         |         | 295    | 114     |        | 1       | 11      | 60     |
| 8. Exports to Third Countries               |         | 8       |          |        |                   | 95                  |         |         |        | 3       | 13     |         |         |        |
| 9. Total Deliveries (6+7+8)                 | 4.228   | 8.610   | 2.295    | 52     | 14.561            | 6.384               | 56      | 4.476   | 21.736 | 65.285  | 576    | 1.342   | 2.863   | 23.773 |

<sup>\*</sup> Including transformation for coke

<sup>\*\*</sup> PCI Coal

# Supplies and Deliveries of Hard Coal in 2005 (Part 2)

|                      |           |            |       |             |         |                        |         | (III tilousalius t | of metric tonnes) |        |        |                   |                |                |   |
|----------------------|-----------|------------|-------|-------------|---------|------------------------|---------|--------------------|-------------------|--------|--------|-------------------|----------------|----------------|---|
| Latvia<br>(Estimate) | Lithuania | Luxembourg | Malta | Netherlands | Poland  | Portugal<br>(Estimate) | Romania | Slovakia           | Slovenia          | Spain  | Sweden | United<br>Kingdom | Total<br>EU-25 | Total<br>EU-27 | Member State                                |
|                      |           |            |       |             | 97.109  |                        | 2.706   |                    |                   | 11.895 |        | 20.008            | 170.473        | 173.205        | 1. Production (t=t)                         |
|                      |           |            |       |             |         |                        |         |                    |                   |        |        |                   |                |                | of which :                                  |
|                      |           |            |       |             | 97.109  |                        | 2.706   |                    |                   | 7.219  |        | 9.563             | 155.323        | 158.055        | A - Underground                             |
|                      |           |            |       |             |         |                        |         |                    |                   | 4.676  |        | 10.445            | 15.150         | 15.150         | B - Opencast                                |
|                      |           |            |       |             | 794     |                        |         |                    |                   |        |        | 616               | 2.484          | 2.484          | 2. Recoveries                               |
| 1                    |           | 62         |       | 244         | 606     | 451                    |         | 2.467              |                   | 313    | 442    | 974               | 25.758         |                | 3. Receipts from other EU Countries (EU-25) |
| 115                  | 294       | 49         |       | 19.993      | 2.762   | 4.821                  | 3.681   | 2.580              | 406               | 24.443 | 2.761  | 42.810            | 192.042        | 197.992        | 4. Total imports from Third Countries       |
|                      |           |            |       |             |         |                        |         |                    |                   |        |        |                   |                |                | of which :                                  |
|                      |           |            |       | 1.643       |         | 378                    | 978     |                    |                   | 1.500  | 492    | 1.538             | 15.720         | 17.054         | A - USA                                     |
|                      |           |            |       | 902         |         |                        |         |                    |                   | 285    |        | 1.072             | 4.681          | 4.948          | B - Canada                                  |
|                      |           |            |       | 1.517       |         |                        |         |                    |                   | 3.115  | 1.370  | 4.368             | 26.621         | 26.888         | C - Australia                               |
|                      |           | 49         |       | 6.084       |         | 1.985                  |         |                    |                   | 8.736  |        | 12.970            | 51.657         | 51.657         | D - South Africa                            |
| 115                  | 290       |            |       | 1.592       | 2.380   |                        | 1.824   | 2.327              |                   | 4.234  | 847    | 17.356            | 44.980         | 47.373         | E - Russian Federation                      |
|                      |           |            |       |             | 5       |                        |         |                    |                   | 226    |        | 153               | 462            | 462            | F - China                                   |
|                      |           |            |       | 5.703       | 69      | 2.314                  |         |                    |                   | 1.938  |        | 3.314             | 24.192         | 24.192         | G - Colombia                                |
|                      |           |            |       | 992         |         | 144                    |         |                    | 406               | 3.783  |        | 1.691             | 14.726         | 14.726         | H - Indonesia                               |
|                      |           |            |       | 713         |         |                        |         |                    |                   | 146    | 53     | 348               | 2.355          | 2.355          | I - Venezuela                               |
|                      | 4         |            |       | 847         | 307     |                        | 879     | 254                |                   | 480    |        |                   | 6.651          | 8.340          | J - Others                                  |
| 116                  | 294       | 111        |       | 20.237      | 101.271 | 5.272                  | 6.387   | 5.048              | 406               | 36.651 | 3.203  | 64.408            | 390.760        | 399.442        | 5. Total Availabilities (1+2+3+4)           |
| 120                  | 285       | 111        |       | 12.963      | 79.132  | 5.272                  | 6.387   | 5.048              | 386               | 36.602 | 3.070  | 62.223            | 352.074        | 360.756        | 6. Gross Inland Consumption*                |
| 10                   |           |            |       | 8.267       | 42.394  | 5.256                  | 3.294   | 2.853              | 366               | 31.138 | 930    | 50.568            | 236.239        | 240.771        | A - Power Stations (public & mine)          |
|                      |           |            |       | 3.157       | 9.349   |                        | 3.062   | 2.095              |                   | 3.571  | 1.847  | 6.603             | 59.737         | 63.856         | B - Coking Plants (coal input)              |
|                      |           | 34         |       | 1.526       | 1.879   |                        |         |                    | 20                | 728    | 20     |                   | 12.999         | 12.999         | C - Iron and Steel Industry**               |
| 34                   | 137       | 77         |       | 13          | 7.937   | 16                     |         |                    |                   | 599    | 459    | 3.593             | 20.883         | 20.883         | D - Other Industries                        |
|                      |           |            |       |             | 4.885   |                        |         |                    |                   | 599    |        | 1.640             | 10.728         | 10.728         | of which Power Stations                     |
| 36                   | 55        |            |       |             | 7.537   |                        | 31      | 100                |                   | 330    |        | 1.106             | 11.295         | 11.326         | E - Domestic Heating                        |
| 40                   | 92        |            |       |             | 10.035  |                        |         |                    |                   | 236    | -186   | 353               | 10.920         | 10.920         | F - Miscellaneous (Total (i)+(ii)+(iii))    |
|                      |           |            |       |             | 981     |                        |         |                    |                   | 60     |        |                   | 1.142          | 1.142          | (i) Issue to Workers                        |
|                      |           |            |       |             |         |                        |         |                    |                   |        |        | 266               | 450            | 450            | (ii) Patent Fuel Plants                     |
| 40                   | 92        |            |       |             | 9.054   |                        |         |                    |                   | 176    | -186   | 87                | 9.517          | 9.517          | (iii) Others                                |
|                      |           |            |       | 7.056       | 17.968  |                        |         |                    | 20                | 4      | 1      | 438               | 32.448         | 32.448         | 7. Deliveries to Other EU Countries (EU-25) |
|                      |           |            |       | 210         | 1.557   |                        |         |                    |                   | 45     | 2      | 111               | 2.044          |                | 8. Exports to Third Countries               |
| 120                  | 285       | 111        |       | 20.229      | 98.657  | 5.272                  | 6.387   | 5.048              | 406               | 36.651 | 3.073  | 62.772            | 386.566        |                | 9. Total Deliveries (6+7+8)                 |

<sup>\*</sup> Including transformation for coke

<sup>\*\*</sup> PCI Coal

Table 3
Supplies and Deliveries of Hard Coal in 2006 (Part 1)

|   |         |         | -        | 1      | (111 11100        | sands of metric to | 111100)               |         |        |         |                      | -       | -       |        |
|---|---------|---------|----------|--------|-------------------|--------------------|-----------------------|---------|--------|---------|----------------------|---------|---------|--------|
| Member State                                | Austria | Belgium | Bulgaria | Cyprus | Czech<br>Republic | Denmark            | Estonia<br>(Estimate) | Finland | France | Germany | Greece<br>(Estimate) | Hungary | Ireland | Italy  |
| 1. Production (t=t)                         |         |         | 19       |        | 13.385            |                    |                       |         |        | 23.762  |                      |         |         | 200    |
| of which :                                  |         |         |          |        |                   |                    |                       |         |        |         |                      |         |         |        |
| A - Underground                             |         |         | 19       |        | 13.374            |                    |                       |         |        | 23.762  |                      |         |         | 200    |
| B - Opencast                                |         |         |          |        | 11                |                    |                       |         |        |         |                      |         |         |        |
| 2. Recoveries                               |         | 29      |          |        | 360               |                    | 2                     |         | 452    |         |                      |         |         |        |
| 3. Receipts from other EU Countries (EU-25) | 3.707   | 493     |          |        | 1.909             | 725                |                       | 540     | 2.160  | 8.882   |                      | 888     | 104     | 345    |
| 4. Total imports from Third Countries       | 254     | 7.565   | 2.221    | 63     | 54                | 7.832              | 54                    | 6.143   | 18.230 | 32.444  | 498                  | 871     | 2.263   | 24.289 |
| of which :                                  |         |         |          | ·      |                   |                    |                       |         |        |         |                      |         |         |        |
| A - USA                                     | 254     | 1.835   | 561      |        |                   | 274                |                       | 791     | 2.010  | 2.059   |                      | 105     |         | 2.672  |
| B - Canada                                  |         | 352     | 88       |        |                   |                    |                       | 434     | 474    | 1.666   |                      |         |         | 1.071  |
| C - Australia                               |         | 2.137   | 157      |        |                   | 190                |                       | 249     | 5.727  | 4.748   |                      | 31      |         | 3.097  |
| D - South Africa                            |         | 2.261   |          |        |                   | 3.062              |                       | 379     | 4.236  | 8.570   | 22                   |         | 192     | 4.779  |
| E - Russian Federation                      |         | 786     | 814      | 63     | 50                | 2.009              | 54                    | 3.622   | 1.124  | 8.259   | 243                  | 435     |         | 834    |
| F - China                                   |         | 27      |          |        |                   |                    |                       |         | 17     |         |                      |         |         |        |
| G - Colombia                                |         | 4       |          |        |                   | 1.537              |                       | 323     | 2.234  | 4.174   | 71                   |         | 1.090   | 2.034  |
| H - Indonesia                               |         |         |          |        |                   | 631                |                       | 274     | 584    |         |                      |         | 779     | 8.734  |
| I - Venezuela                               |         | 144     |          |        |                   |                    |                       |         | 460    |         |                      |         |         | 335    |
| J - Others                                  |         | 19      | 601      |        | 4                 | 129                |                       | 70      | 1.365  | 2.968   | 161                  | 300     | 202     | 733    |
| 5. Total Availabilities (1+2+3+4)           | 3.961   | 8.087   | 2.240    | 63     | 15.708            | 8.557              | 56                    | 6.683   | 20.843 | 65.088  | 498                  | 1.759   | 2.367   | 24.834 |
| 6. Gross Inland Consumption*                | 3.873   | 6.844   | 2.240    | 54     | 9.306             | 9.432              | 56                    | 7.810   | 19.970 | 65.658  | 498                  | 1.842   | 3.077   | 24.549 |
| A - Power Stations (public & mine)          | 1.804   | 2.539   | 1.260    |        | 3.538             | 9.045              |                       | 6.270   | 8.266  | 48.914  |                      | 227     | 2.526   | 16.596 |
| B - Coking Plants (coal input)              | 1.768   | 3.364   | 980      |        | 4.326             |                    |                       | 1.240   | 5.847  | 10.175  |                      | 1.301   |         | 6.092  |
| C - Iron and Steel Industry**               | 258     | 514     |          |        | 754               |                    |                       |         | 3.193  | 2.977   |                      |         |         | 1.708  |
| D - Other Industries                        |         | 239     |          | 54     | 568               | 244                | 13                    | 294     | 2.161  | 2.738   | 498                  | 157     | 205     | 143    |
| of which Power Stations                     |         |         |          |        | 328               |                    |                       | 166     | 354    | 2.679   |                      |         | 10      |        |
| E - Domestic Heating                        | 42      | 183     |          |        | 120               | 143                | 29                    | 6       | 480    | 659     |                      | 137     | 265     | 1      |
| F - Miscellaneous (Total (i)+(ii)+(iii))    |         | 5       |          |        |                   |                    | 14                    |         | 23     | 195     |                      | 20      | 81      | 9      |
| (i) Issue to Workers                        |         |         |          |        |                   |                    |                       |         |        | 99      |                      |         |         |        |
| (ii) Patent Fuel Plants                     |         | 5       |          |        |                   |                    |                       |         | 23     | 94      |                      | 20      | 43      |        |
| (iii) Others                                |         |         |          |        |                   |                    | 14                    |         |        | 2       |                      |         | 38      | 9      |
| 7. Deliveries to Other EU Countries (EU-25) |         | 1.072   |          |        | 6.045             | 31                 |                       |         | 140    | 118     |                      | 3       | 3       |        |
| 8. Exports to Third Countries               |         | 15      |          |        | 303               | 79                 |                       |         |        | 2       |                      | 1       | İ       |        |
| 9. Total Deliveries (6+7+8)                 | 3.873   | 7.931   | 2.240    | 54     | 15.654            | 9.542              | 56                    | 7.810   | 20.110 | 65.778  | 498                  | 1.846   | 3.080   | 24.549 |

<sup>\*</sup> Including transformation for coke

<sup>\*\*</sup> PCI Coal

Table 3
Supplies and Deliveries of Hard Coal in 2006 (Part 2)

|        |           |            |       |             |         |                        |         |          |          | 1      | i      | ī                 | 1              |                |   |
|--------|-----------|------------|-------|-------------|---------|------------------------|---------|----------|----------|--------|--------|-------------------|----------------|----------------|---|
| Latvia | Lithuania | Luxembourg | Malta | Netherlands | Poland  | Portugal<br>(Estimate) | Romania | Slovakia | Slovenia | Spain  | Sweden | United<br>Kingdom | Total<br>EU-25 | Total<br>EU-27 | Member State                                |
|        |           |            |       |             | 94.404  |                        | 2.355   |          |          | 11.566 |        | 18.079            | 161.396        | 163.770        | 1. Production (t=t)                         |
|        |           |            |       |             |         |                        |         |          |          |        |        |                   |                |                | of which:                                   |
|        |           |            |       |             | 94.404  |                        | 2.355   |          |          | 7.183  |        | 9.444             | 148.367        | 150.741        | A - Underground                             |
|        |           |            |       |             |         |                        |         |          |          | 4.383  |        | 8.635             | 13.029         | 13.029         | B - Opencast                                |
|        |           |            |       |             | 816     |                        |         |          |          |        |        | 449               | 2.108          | 2.108          | 2. Recoveries                               |
|        |           | 101        |       | 372         | 1.498   |                        |         | 2.795    |          | 340    | 575    | 1.596             | 27.030         | 27.030         | 3. Receipts from other EU Countries (EU-25) |
| 74     | 326       | 52         |       | 17.413      | 3.720   | 5.782                  | 3.396   | 1.439    |          | 23.371 | 2.477  | 48.860            | 204.074        | 209.691        | 4. Total imports from Third Countries       |
|        |           |            |       |             |         |                        |         |          |          |        |        |                   |                |                | of which:                                   |
|        |           |            |       | 1.035       |         | 202                    | 1.079   |          |          | 1.423  | 357    | 2.108             | 15.125         | 16.765         | A - USA                                     |
|        |           |            |       | 707         |         |                        |         |          |          | 234    |        | 1.274             | 6.212          | 6.300          | B - Canada                                  |
|        |           |            |       | 1.512       |         |                        | 73      |          |          | 3.550  | 1.357  | 3.909             | 26.507         | 26.737         | C - Australia                               |
|        |           | 52         |       | 5.234       |         | 2.310                  | 166     |          |          | 8.213  | 1      | 12.858            | 52.169         | 52.335         | D - South Africa                            |
| 74     | 315       |            |       | 1.261       | 3.345   | 22                     | 1.362   | 1.356    |          | 3.610  | 762    | 22.897            | 51.121         | 53.297         | E - Russian Federation                      |
|        |           |            |       | 215         | 10      |                        |         |          |          | 294    |        | 52                | 615            | 615            | F - China                                   |
|        |           |            |       | 4.392       | 80      | 2.610                  |         |          |          | 1.535  |        | 3.798             | 23.882         | 23.882         | G - Colombia                                |
|        |           |            |       | 2.176       |         | 473                    |         |          |          | 4.022  |        | 1.895             | 19.568         | 19.568         | H - Indonesia                               |
|        |           |            |       | 596         |         |                        |         |          |          | 154    |        |                   | 1.689          | 1.689          | I - Venezuela                               |
| ·      | 11        |            |       | 285         | 285     | 165                    | 716     | 83       |          | 335    |        | 67                | 7.182          | 8.499          | J - Others                                  |
| 74     | 326       | 153        |       | 17.785      | 100.439 | 5.782                  | 5.751   | 4.233    |          | 35.277 | 3.052  | 68.984            | 394.609        | 402.600        | 5. Total Availabilities (1+2+3+4)           |
| 81     | 324       | 153        |       | 12.623      | 86.980  | 5.782                  | 5.743   | 4.233    |          | 35.061 | 3.239  | 67.387            | 368.832        | 376.815        | 6. Gross Inland Consumption*                |
| 4      |           |            |       | 8.229       | 44.597  | 5.782                  | 2.996   | 1.910    |          | 29.734 | 1.057  | 55.805            | 246.843        | 251.099        | A - Power Stations (public & mine)          |
|        |           |            |       | 3.048       | 10.604  |                        | 2.727   | 2.223    |          | 3.622  | 2.217  | 7.049             | 62.876         | 66.583         | B - Coking Plants (coal input)              |
|        |           | 49         |       | 1.326       | 2.136   |                        |         |          |          | 511    | 21     |                   | 13.447         | 13.447         | C - Iron and Steel Industry**               |
| 26     | 152       | 104        |       | 20          | 7.714   |                        |         |          |          | 784    | 472    | 3.685             | 20.271         | 20.271         | D - Other Industries                        |
|        |           |            |       |             | 4.161   |                        |         |          |          |        |        | 1.518             | 9.216          | 9.216          | of which Power Stations                     |
| 24     | 62        |            |       |             | 7.992   |                        | 20      | 100      |          | 350    |        | 547               | 11.140         | 11.160         | E - Domestic Heating                        |
| 27     | 110       |            |       |             | 13.937  |                        |         |          |          | 60     | -528   | 301               | 14.254         | 14.254         | F - Miscellaneous (Total (i)+(ii)+(iii))    |
|        |           |            |       |             | 936     |                        |         |          |          | 60     |        |                   | 1.095          | 1.095          | (i) Issue to Workers                        |
|        |           |            |       |             |         |                        |         |          |          |        |        | 276               | 461            | 461            | (ii) Patent Fuel Plants                     |
| 27     | 110       |            |       |             | 13.001  |                        |         |          |          |        | -528   | 25                | 12.698         | 12.698         | (iii) Others                                |
|        |           |            |       |             | 16.158  |                        | 3       |          |          | 198    | 1      | 409               | 24.178         | 24.181         | 7. Deliveries to Other EU Countries (EU-25) |
|        |           |            |       |             | 725     |                        | 5       |          |          | 12     | 1      | 34                | 1.172          | 1.177          | 8. Exports to Third Countries               |
| 81     | 324       | 153        |       | 12.623      | 103.863 | 5.782                  | 5.751   | 4.233    |          | 35.271 | 3.241  | 67.830            | 394.182        | 402.173        | 9. Total Deliveries (6+7+8)                 |

<sup>\*</sup> Including transformation for coke

<sup>\*\*</sup> PCI Coal

Table 4
Supplies and Deliveries of Coke in 2004 (Part 1)

|   |         |         |          |        | ( 1               | Sanus of metric to |         |         |        |         |        |         |         |       |
|---|---------|---------|----------|--------|-------------------|--------------------|---------|---------|--------|---------|--------|---------|---------|-------|
| Member State                                | Austria | Belgium | Bulgaria | Cyprus | Czech<br>Republic | Denmark            | Estonia | Finland | France | Germany | Greece | Hungary | Ireland | Italy |
| 1. Production (t=t)                         | 1.400   | 2.965   |          |        | 3.548             |                    |         | 904     | 4.542  | 8.479   |        | 664     |         | 4.062 |
| 2. Recoveries                               |         |         |          |        |                   |                    |         |         |        |         |        |         |         | -84   |
| 3. Receipts from other EU Countries (EU-25) | 869     | 114     |          |        | 730               | 18                 |         | 407     | 486    | 2.467   | 4      | 94      |         |       |
| 4. Total imports from Third Countries       | 5       | 191     |          | 135    | 26                | 17                 |         | 104     | 794    | 1.944   |        | 95      |         | 1.087 |
| of which :                                  |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| A - USA                                     |         | 51      |          |        |                   |                    |         |         | 25     |         |        |         |         | 149   |
| B - Canada                                  |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| C - Australia                               |         |         |          |        |                   |                    |         |         |        |         |        |         |         | 43    |
| D - South Africa                            |         | 28      |          |        |                   |                    |         |         |        |         |        |         |         |       |
| E - Russian Federation                      |         | 17      |          |        | 5                 | 2                  |         |         | 45     | 60      |        | 15      |         | 6     |
| F - China                                   |         | 93      |          |        |                   | 15                 |         | 104     | 564    |         |        |         |         | 661   |
| G - Colombia                                |         |         |          |        |                   |                    |         |         |        | 165     |        |         |         |       |
| H - Indonesia                               |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| I - Venezuela                               |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| J - Others                                  | 5       | 2       |          | 135    | 21                |                    |         |         | 160    | 1.719   |        | 80      |         | 228   |
| 5. Total Availabilities (1+2+3+4)           | 2.274   | 3.270   |          | 135    | 4.304             | 35                 |         | 1.415   | 5.822  | 12.890  | 4      | 853     |         | 5.065 |
| 6. Gross Inland Consumption                 | 2.582   | 3.401   |          | 135    | 3.282             | 32                 |         | 1.412   | 5.226  | 13.088  | 4      | 783     |         | 4.819 |
| A - Power Stations (public & mine)          |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| B - Coking Plants (coal input)              |         |         |          |        | 104               |                    |         |         |        |         |        | 5       |         |       |
| C - Iron and Steel Industry                 | 2.412   | 3.324   |          |        | 1.937             |                    |         | 1.372   | 4.503  | 12.194  |        | 740     |         | 4.501 |
| D - Other Industries                        | 78      | 68      |          | 135    | 1.105             | 31                 |         | 40      | 624    | 809     | 4      | 30      |         | 280   |
| of which Power Stations                     |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| E - Domestic Heating                        | 91      | 9       |          |        | 1                 |                    |         |         | 21     | 80      |        | 2       |         | 38    |
| F - Miscellaneous (Total (i)+(ii)+(iii))    |         |         |          |        | 135               | 1                  |         |         | 78     | 5       |        | 6       |         |       |
| (i) Issue to Workers                        |         |         |          |        |                   |                    |         |         |        | 5       |        |         |         |       |
| (ii) Patent Fuel Plants                     |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| (iii) Others                                |         |         |          |        | 135               | 1                  |         |         | 78     |         |        | 6       |         |       |
| 7. Deliveries to Other EU Countries (EU-25) | 17      | 82      |          |        | 923               | 1                  |         |         | 850    |         |        | 68      |         | 194   |
| 8. Exports to Third Countries               |         |         |          |        | 35                |                    |         | 2       |        |         |        | 12      |         | 52    |
| 9. Total Deliveries (6+7+8)                 | 2.599   | 3.483   |          | 135    | 4.240             | 33                 |         | 1.414   | 6.076  | 13.088  | 4      | 863     |         | 5.065 |

Table 4
Supplies and Deliveries of Coke in 2004 (Part 2)

|        |           |            |       |             |        |                        | (111 (111) | busanus oi metric t    | orinco)  |       |        |                   |                |   |
|--------|-----------|------------|-------|-------------|--------|------------------------|------------|------------------------|----------|-------|--------|-------------------|----------------|---|
| Latvia | Lithuania | Luxembourg | Malta | Netherlands | Poland | Portugal<br>(Estimate) | Romania    | Slovakia<br>(Estimate) | Slovenia | Spain | Sweden | United<br>Kingdom | Total<br>EU-25 | Member State                                |
|        |           |            |       | 2.216       | 10.077 |                        |            | 1.882                  |          | 2.614 | 1.372  | 4.336             | 49.061         | 1. Production (t=t)                         |
|        |           |            |       |             |        |                        |            |                        |          |       |        |                   | -84            | 2. Recoveries                               |
|        |           |            |       | 110         |        | 13                     |            | 296                    | 7        | 18    | 159    | 193               | 5.985          | 3. Receipts from other EU Countries (EU-25) |
|        | 15        |            |       | 224         | 24     |                        |            |                        |          | 152   | 341    | 852               | 6.006          | 4. Total imports from Third Countries       |
|        |           |            |       |             |        |                        |            |                        |          |       |        |                   |                | of which :                                  |
|        |           |            |       |             |        |                        |            |                        |          | 34    |        |                   | 259            | A - USA                                     |
|        |           |            |       |             |        |                        |            |                        |          |       |        | 18                | 18             |   |
|        |           |            |       |             |        |                        |            |                        |          |       | 8      | 25                | 76             | C - Australia                               |
|        |           |            |       |             |        |                        |            |                        |          |       |        |                   | 28             | D - South Africa                            |
|        | 3         |            |       | 68          |        |                        |            |                        |          | 58    | 15     | 294               | 588            | E - Russian Federation                      |
|        | 5         |            |       | 143         | 4      |                        |            |                        |          | 30    | 318    | 431               | 2.368          | F - China                                   |
|        |           |            |       | 5           |        |                        |            |                        |          |       |        | 53                | 223            | G - Colombia                                |
|        |           |            |       |             |        |                        |            |                        |          |       |        |                   |                | H - Indonesia                               |
|        |           |            |       |             |        |                        |            |                        |          |       |        |                   |                | I - Venezuela                               |
|        | 8         |            |       | 8           | 20     |                        |            |                        |          | 30    |        | 31                | 2.447          | J - Others                                  |
|        | 15        |            |       | 2.550       | 10.101 | 13                     |            | 2.178                  | 7        | 2.784 | 1.872  | 5.381             | 60.968         | 5. Total Availabilities (1+2+3+4)           |
|        | 14        |            |       | 2.161       | 5.293  | 13                     |            | 2.100                  | 7        | 1.799 | 1.778  | 5.147             | 53.076         | 6. Gross Inland Consumption                 |
|        |           |            |       |             |        |                        |            |                        |          |       |        |                   |                | A - Power Stations (public & mine)          |
|        |           |            |       |             |        |                        |            |                        |          |       |        |                   | 109            | B - Coking Plants (coal input)              |
|        |           |            |       | 1.953       | 3.843  |                        |            | 2.100                  | 7        | 1.375 | 1.715  | 4.171             | 46.147         | C - Iron and Steel Industry                 |
|        | 12        |            |       | 197         | 712    | 13                     |            |                        |          | 424   | 63     | 925               | 5.550          | D - Other Industries                        |
|        |           |            |       |             |        | -                      |            |                        |          | ,     |        |                   |                | of which Power Stations                     |
|        |           |            |       |             | 738    |                        |            |                        |          |       |        | 51                | 1.031          | E - Domestic Heating                        |
|        | 2         |            |       | 11          |        |                        |            |                        |          |       |        |                   | 238            | F - Miscellaneous (Total (i)+(ii)+(iii))    |
|        |           |            |       |             |        |                        |            |                        |          |       |        |                   | 5              | (i) Issue to Workers                        |
|        |           |            |       |             |        |                        |            |                        |          |       |        |                   |                | (ii) Patent Fuel Plants                     |
|        | 2         |            |       | 11          |        |                        |            |                        |          |       |        |                   | 233            | . ,   |
|        |           |            |       | 327         | 4.600  |                        |            | 78                     |          | 712   | 35     | 80                |                | 7. Deliveries to Other EU Countries (EU-25) |
|        |           |            |       | 19          | 185    |                        |            |                        |          | 273   |        | 62                | 640            | 8. Exports to Third Countries               |
|        | 14        |            |       | 2.507       | 10.078 | 13                     |            | 2.178                  | 7        | 2.784 | 1.813  | 5.289             | 61.683         | 9. Total Deliveries (6+7+8)                 |

Table 5
Supplies and Deliveries of Coke in 2005 (Part 1)

|   |         |         |          |        | (111 11100        | Sanus of metric to | 11100)  |         |        |         |        |         |         |       |
|---|---------|---------|----------|--------|-------------------|--------------------|---------|---------|--------|---------|--------|---------|---------|-------|
| Member State                                | Austria | Belgium | Bulgaria | Cyprus | Czech<br>Republic | Denmark            | Estonia | Finland | France | Germany | Greece | Hungary | Ireland | Italy |
| 1. Production (t=t)                         | 1.388   | 2.856   | 690      |        | 3.412             |                    | 37      | 894     | 4.445  | 8.397   |        | 614     |         | 4.574 |
| 2. Recoveries                               |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| 3. Receipts from other EU Countries (EU-25) | 1.136   | 61      | 10       |        | 508               |                    |         |         | 957    | 2.101   | 4      | 134     |         |       |
| 4. Total imports from Third Countries       | 5       | 91      | 105      | 143    | 2                 | 36                 |         | 503     | 568    | 1.692   |        | 71      |         | 848   |
| of which :                                  |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| A - USA                                     |         | 24      |          |        |                   |                    |         |         |        |         |        |         |         | 82    |
| B - Canada                                  |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| C - Australia                               |         |         |          |        |                   |                    |         |         |        |         |        |         |         | 29    |
| D - South Africa                            |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| E - Russian Federation                      |         |         |          |        |                   | 4                  |         |         | 22     | 6       |        |         |         |       |
| F - China                                   |         | 67      |          |        |                   | 32                 |         | 503     | 458    |         |        | 44      |         | 442   |
| G - Colombia                                |         |         |          |        |                   |                    |         |         |        | 23      |        |         |         |       |
| H - Indonesia                               |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| I - Venezuela                               |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| J - Others                                  | 5       |         | 105      | 143    | 2                 |                    |         |         | 88     | 1.663   |        | 27      |         | 295   |
| 5. Total Availabilities (1+2+3+4)           | 2.529   | 3.008   | 805      | 143    | 3.922             | 36                 | 37      | 1.397   | 5.970  | 12.190  | 4      | 819     |         | 5.422 |
| 6. Gross Inland Consumption                 | 2.555   | 3.013   | 805      | 143    | 3.030             | 33                 |         | 1.415   | 4.923  | 12.284  | 4      | 751     |         | 5.258 |
| A - Power Stations (public & mine)          |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| B - Coking Plants (coal input)              |         |         |          |        | 100               |                    |         |         |        |         |        | 4       |         |       |
| C - Iron and Steel Industry                 | 2.471   | 2.928   | 805      |        | 1.850             |                    |         | 1.376   | 4.270  | 11.619  |        | 719     |         | 5.023 |
| D - Other Industries                        | 35      | 77      |          | 143    | 1.080             | 33                 |         | 39      | 607    | 602     | 4      | 25      |         | 224   |
| of which Power Stations                     |         |         |          |        |                   |                    |         |         |        |         |        |         |         |       |
| E - Domestic Heating                        | 49      | 8       | ·        |        | ·                 |                    |         |         | 14     | 60      |        | 2       |         | 11    |
| F - Miscellaneous (Total (i)+(ii)+(iii))    |         |         |          |        |                   |                    |         |         | 32     | 3       |        | 1       |         |       |
| (i) Issue to Workers                        |         |         |          |        |                   |                    |         |         |        | 3       |        |         |         |       |
| (ii) Patent Fuel Plants                     |         |         |          |        |                   | -                  |         |         |        |         |        |         |         |       |
| (iii) Others                                |         |         |          |        |                   |                    |         |         | 32     |         |        | 1       |         |       |
| 7. Deliveries to Other EU Countries (EU-25) |         | 20      |          |        | 896               |                    |         |         | 643    |         |        | 48      |         | 181   |
| 8. Exports to Third Countries               |         |         |          |        | 17                |                    | 37      | 2       |        |         |        | 5       |         | 49    |
| 9. Total Deliveries (6+7+8)                 | 2.555   | 3.033   | 805      | 143    | 3.943             | 33                 | 37      | 1.417   | 5.566  | 12.284  | 4      | 804     |         | 5.488 |

Table 5
Supplies and Deliveries of Coke in 2005 (Part 2)

|        |           |            |       |             |        |                        |          | (III tilousullus t | n metric tornes) |       |        |                   |                |                |   |
|--------|-----------|------------|-------|-------------|--------|------------------------|----------|--------------------|------------------|-------|--------|-------------------|----------------|----------------|---|
| Latvia | Lithuania | Luxembourg | Malta | Netherlands | Poland | Portugal<br>(Estimate) | Romania* | Slovakia           | Slovenia         | Spain | Sweden | United<br>Kingdom | Total<br>EU-25 | Total<br>EU-27 | Member State                                |
|        |           |            |       | 2.250       | 8.404  |                        | 2.100    | 1.846              |                  | 2.437 | 1.402  | 4.364             | 47.320         | 50.110         | 1. Production (t=t)                         |
|        |           |            |       |             |        |                        |          |                    |                  |       | -      |                   |                |                | 2. Recoveries                               |
|        |           |            |       | 46          |        | 6                      | 549      | 193                | 7                | 21    | 140    | 203               | 5.517          | 6.076          | 3. Receipts from other EU Countries (EU-25) |
| 8      | 15        |            |       | 295         | 27     |                        | 127      | 66                 |                  | 115   | 253    | 718               | 5.456          | 5.688          | 4. Total imports from Third Countries       |
|        |           |            |       |             |        |                        |          |                    |                  |       |        |                   |                |                | of which :                                  |
|        |           |            |       |             |        |                        |          |                    |                  | 29    |        |                   | 135            | 135            | A - USA                                     |
|        |           |            |       |             |        |                        |          |                    |                  | 10    |        |                   | 10             | 10             | B - Canada                                  |
|        |           |            |       | 24          |        |                        |          |                    |                  |       |        |                   | 53             | 53             | C - Australia                               |
|        |           |            |       |             |        |                        |          |                    |                  |       |        | 3                 | 3              | 3              | D - South Africa                            |
| 7      | 1         |            |       | 49          |        |                        |          | 44                 |                  | 25    |        | 125               | 283            | 283            | E - Russian Federation                      |
|        | 11        |            |       | 155         | 1      |                        |          |                    |                  |       | 140    | 368               | 2.221          | 2.221          | F - China                                   |
|        |           |            |       | 44          |        |                        |          |                    |                  | 16    | 3      |                   | 86             | 86             | G - Colombia                                |
|        |           |            |       | 23          |        |                        |          |                    |                  |       |        |                   | 23             | 23             | H - Indonesia                               |
|        |           |            |       |             |        |                        |          |                    |                  |       |        |                   |                |                | I - Venezuela                               |
| 1      | 3         |            |       |             | 26     |                        | 127      | 23                 |                  | 35    | 110    | 222               | 2.643          | 2.875          | J - Others                                  |
| 8      | 15        |            |       | 2.591       | 8.431  | 6                      | 2.776    | 2.106              | 7                | 2.573 | 1.795  | 5.285             | 58.294         | 61.875         | 5. Total Availabilities (1+2+3+4)           |
| 7      | 18        |            |       | 2.095       | 3.809  | 6                      | 2.741    | 2.028              | 7                | 1.963 | 1.692  | 5.015             | 50.049         | 53.595         | 6. Gross Inland Consumption                 |
|        |           |            |       |             |        |                        |          |                    |                  |       |        |                   |                |                | A - Power Stations (public & mine)          |
|        |           |            |       |             |        |                        |          |                    |                  |       |        |                   | 104            | 104            | B - Coking Plants (coal input)              |
| 7      |           |            |       | 1.891       | 2.665  | 6                      | 2.741    | 2.028              | 7                | 1.451 | 1.478  | 4.067             | 43.856         | 47.402         | C - Iron and Steel Industry                 |
|        | 18        |            |       | 192         | 691    |                        |          |                    |                  | 512   | 134    | 913               | 5.329          | 5.329          | D - Other Industries                        |
|        |           |            |       |             |        |                        |          |                    |                  |       |        |                   |                |                | of which Power Stations                     |
|        |           |            |       |             | 453    |                        |          |                    |                  |       | 65     | 35                | 697            | 697            | E - Domestic Heating                        |
|        |           |            |       | 12          |        |                        |          |                    |                  |       | 15     |                   | 63             | 63             | F - Miscellaneous (Total (i)+(ii)+(iii))    |
|        |           |            |       |             |        |                        |          |                    |                  |       |        |                   | 3              | 3              | (i) Issue to Workers                        |
|        |           |            |       |             |        |                        |          |                    |                  |       |        |                   |                |                | (ii) Patent Fuel Plants                     |
|        |           |            |       | 12          |        |                        |          |                    | ·                |       | 15     |                   | 60             | 60             | (iii) Others                                |
|        |           |            |       | 350         | 3.214  |                        |          | 76                 |                  | 428   | 26     | 55                | 5.937          |                | 7. Deliveries to Other EU Countries (EU-25) |
|        |           |            |       | 5           | 970    |                        | 35       | 1                  |                  | 182   | 9      | 64                | 1.341          |                | 8. Exports to Third Countries               |
| 7      | 18        |            |       | 2.450       | 7.993  | 6                      | 2.776    | 2.106              | 7                | 2.573 | 1.727  | 5.134             | 57.328         | 60.909         | 9. Total Deliveries (6+7+8)                 |

Table 6
Supplies and Deliveries of Coke in 2006 (Part 1)

|   |         |         |          |        |                   |         |                       |         | _      | _       | _      |         |         |       |
|---|---------|---------|----------|--------|-------------------|---------|-----------------------|---------|--------|---------|--------|---------|---------|-------|
| Member State                                | Austria | Belgium | Bulgaria | Cyprus | Czech<br>Republic | Denmark | Estonia<br>(Estimate) | Finland | France | Germany | Greece | Hungary | Ireland | Italy |
| 1. Production (t=t)                         | 1.398   | 2.894   | 669      |        | 3.463             |         | 37                    | 870     | 4.689  | 8.372   |        | 921     |         | 4.689 |
| 2. Recoveries                               |         |         |          |        |                   |         |                       |         |        |         |        |         |         |       |
| 3. Receipts from other EU Countries (EU-25) | 1.261   | 29      | 16       |        | 768               | 3       |                       |         | 944    | 1.903   |        | 48      |         |       |
| 4. Total imports from Third Countries       |         | 38      | 156      | 153    |                   | 35      |                       | 520     | 517    | 1.701   |        |         |         | 716   |
| of which :                                  |         |         |          |        |                   |         |                       |         |        |         |        |         |         |       |
| A - USA                                     |         | 14      |          |        |                   |         |                       |         |        | 70      |        |         |         | 267   |
| B - Canada                                  |         | ·       |          | ·      |                   |         |                       |         |        | 63      |        |         |         |       |
| C - Australia                               |         |         |          |        |                   |         |                       |         |        | 95      |        |         |         |       |
| D - South Africa                            |         |         |          |        |                   |         |                       |         |        |         |        |         |         |       |
| E - Russian Federation                      |         |         |          |        |                   |         |                       |         | 24     | 56      |        |         |         |       |
| F - China                                   |         | 24      |          |        |                   | 35      |                       | 520     | 491    |         |        |         |         | 313   |
| G - Colombia                                |         |         |          |        |                   |         |                       |         | 1      | 30      |        |         |         |       |
| H - Indonesia                               |         |         |          |        |                   |         |                       |         |        |         |        |         |         |       |
| I - Venezuela                               |         |         |          |        |                   |         |                       |         |        |         |        |         |         |       |
| J - Others                                  |         |         | 156      | 153    |                   |         |                       |         | 2      | 1.387   |        |         |         | 136   |
| 5. Total Availabilities (1+2+3+4)           | 2.659   | 2.961   | 841      | 153    | 4.231             | 38      | 37                    | 1.390   | 6.150  | 11.976  |        | 969     |         | 5.405 |
| 6. Gross Inland Consumption                 | 2.845   | 3.012   | 841      | 153    | 3.423             | 34      |                       | 1.400   | 5.139  | 12.067  |        | 728     |         | 5.148 |
| A - Power Stations (public & mine)          |         |         |          |        |                   |         |                       |         |        |         |        |         |         |       |
| B - Coking Plants (coal input)              |         | ·       |          | ·      | 128               |         |                       |         |        |         |        | 3       |         |       |
| C - Iron and Steel Industry                 | 2.793   | 2.912   | 841      |        | 3.041             |         |                       | 1.360   | 4.439  | 11.416  |        | 696     |         | 4.959 |
| D - Other Industries                        |         | 90      |          | 153    | 214               | 34      |                       | 40      | 627    | 591     |        | 25      |         | 182   |
| of which Power Stations                     |         |         |          |        |                   |         |                       |         |        |         |        |         |         |       |
| E - Domestic Heating                        | 52      | 10      |          |        | 40                |         |                       |         | 4      | 58      |        | 2       |         | 5     |
| F - Miscellaneous (Total (i)+(ii)+(iii))    |         |         |          |        |                   |         |                       |         | 69     | 2       |        | 1       |         | 2     |
| (i) Issue to Workers                        |         |         |          | ·      |                   |         |                       |         |        | 2       |        |         |         |       |
| (ii) Patent Fuel Plants                     |         |         |          |        |                   |         |                       |         |        |         |        |         |         |       |
| (iii) Others                                |         |         |          |        |                   |         |                       |         | 69     |         |        | 1       |         | 2     |
| 7. Deliveries to Other EU Countries (EU-25) |         | 179     |          |        | 924               |         |                       |         | 668    |         |        | 83      |         | 189   |
| 8. Exports to Third Countries               |         |         |          |        | 47                |         | 37                    |         | 33     |         |        | 128     |         | 31    |
| 9. Total Deliveries (6+7+8)                 | 2.845   | 3.191   | 841      | 153    | 4.394             | 34      | 37                    | 1.400   | 5.840  | 12.067  |        | 939     |         | 5.368 |

Table 6
Supplies and Deliveries of Coke in 2006 (Part 2)

|        |           |            |       |             |        |          |          | (III triousarius t | of metric tonnes) |       |        |                   |                |                |   |
|--------|-----------|------------|-------|-------------|--------|----------|----------|--------------------|-------------------|-------|--------|-------------------|----------------|----------------|---|
| Latvia | Lithuania | Luxembourg | Malta | Netherlands | Poland | Portugal | Romania* | Slovakia           | Slovenia          | Spain | Sweden | United<br>Kingdom | Total<br>EU-25 | Total<br>EU-27 | Member State                                |
|        |           |            |       | 2.162       | 9.613  |          | 1.900    | 1.840              |                   | 2.555 | 1.188  | 4.682             | 49.373         | 51.942         | 1. Production (t=t)                         |
|        |           |            |       |             |        |          |          |                    |                   |       |        |                   |                |                | 2. Recoveries                               |
|        |           |            |       | 145         |        |          | 483      | 434                |                   | 54    | 124    | 245               | 5.958          | 6.457          | 3. Receipts from other EU Countries (EU-25) |
| 4      | 24        |            |       | 49          | 20     |          | 60       | 35                 | 8                 | 101   | 93     | 748               | 4.762          | 4.978          | 4. Total imports from Third Countries       |
|        |           |            |       |             |        |          |          |                    |                   |       |        |                   |                |                | of which :                                  |
|        |           |            |       |             |        |          |          |                    |                   | 30    |        |                   | 381            | 381            | A - USA                                     |
|        |           |            |       |             |        |          |          |                    |                   |       |        |                   | 63             | 63             | B - Canada                                  |
|        |           |            |       |             |        |          |          |                    |                   |       |        |                   | 95             | 95             | C - Australia                               |
|        |           |            |       |             |        |          |          |                    |                   |       |        |                   |                |                | D - South Africa                            |
| 4      | 6         |            |       | 28          |        |          |          | 5                  |                   | 53    |        | 310               | 486            | 486            | E - Russian Federation                      |
|        | 18        |            |       |             |        |          | 1        |                    |                   | 1     | 4      | 416               | 1.822          | 1.823          | F - China                                   |
|        |           |            |       |             |        |          |          |                    |                   | 12    | 44     |                   | 87             | 87             | G - Colombia                                |
|        |           |            |       |             |        |          |          |                    |                   |       |        |                   |                |                | H - Indonesia                               |
|        |           |            |       |             |        |          |          |                    |                   |       |        |                   |                |                | I - Venezuela                               |
|        |           |            |       | 21          | 20     |          | 59       | 30                 | 8                 | 5     | 45     | 23                | 1.830          | 2.045          | J - Others                                  |
| 4      | 24        |            |       | 2.356       | 9.634  |          | 2.443    | 2.309              | 8                 | 2.710 | 1.405  | 5.675             | 60.094         |                | 5. Total Availabilities (1+2+3+4)           |
| 3      | 24        |            |       | 1.879       | 4.058  |          | 2.425    | 2.302              | 8                 | 1.660 | 1.433  | 5.303             | 50.619         | 53.885         | 6. Gross Inland Consumption                 |
|        |           |            |       |             |        |          |          |                    |                   |       |        |                   |                |                | A - Power Stations (public & mine)          |
|        |           |            |       |             |        |          |          |                    |                   |       |        |                   | 131            | 131            | B - Coking Plants (coal input)              |
| 3      |           |            |       | 1.709       | 3.045  |          | 2.425    | 2.302              | 8                 | 1.393 | 1.344  | 5.201             | 46.621         | 49.887         | C - Iron and Steel Industry                 |
|        | 24        |            |       | 170         | 521    |          |          |                    |                   | 267   | 67     | 70                | 3.075          | 3.075          | D - Other Industries                        |
|        |           |            |       |             |        |          |          |                    |                   |       |        |                   |                |                | of which Power Stations                     |
|        |           |            |       |             | 493    |          |          |                    |                   |       |        | 32                | 696            | 696            | E - Domestic Heating                        |
|        |           |            |       |             |        |          |          |                    |                   |       | 22     |                   | 96             | 96             | F - Miscellaneous (Total (i)+(ii)+(iii))    |
|        |           |            |       |             |        |          |          |                    |                   |       |        |                   | 2              | 2              | (i) Issue to Workers                        |
|        |           |            |       | ļ           |        |          |          |                    |                   |       |        |                   |                |                | (ii) Patent Fuel Plants                     |
|        |           |            |       |             |        |          |          |                    |                   |       | 22     | ,                 | 94             | 94             | (iii) Others                                |
|        |           |            |       |             | 4.087  |          |          | 7                  |                   | 871   | 26     | 130               | 7.164          |                | 7. Deliveries to Other EU Countries (EU-25) |
|        |           |            |       |             | 1.911  |          | 17       |                    |                   | 179   |        | 38                | 2.404          |                | 8. Exports to Third Countries               |
| 3      | 24        |            |       | 1.879       | 10.055 |          | 2.442    | 2.309              | 8                 | 2.710 | 1.459  | 5.471             | 60.186         | 63.469         | 9. Total Deliveries (6+7+8)                 |

Table 7 Supplies and Deliveries of Brown Coal and Lignite in 2004 (Part 1)

(in thousands of metric tonnes)

|  | _       |         |          |        | ,                 | sanus of metric to | ,                 |                   | -      |         | -      |         |                   |       |
|--|---------|---------|----------|--------|-------------------|--------------------|-------------------|-------------------|--------|---------|--------|---------|-------------------|-------|
| Member State   | Austria | Belgium | Bulgaria | Cyprus | Czech<br>Republic | Denmark            | Estonia<br>(peat) | Finland<br>(peat) | France | Germany | Greece | Hungary | Ireland<br>(peat) | Italy |
| 1. Production (t=t)  | 235     |         |          |        | 48.497            |                    | 279               | 3.200             |        | 181.926 | 70.041 | 11.242  | 4.656             |       |
| of which :   |         |         |          |        |                   |                    |                   |                   |        |         |        |         |                   |       |
| A - Underground  |         |         |          |        | 914               |                    |                   |                   |        |         |        | 2.107   |                   |       |
| B - Opencast   | 235     |         |          |        | 47.583            |                    | 279               | 3.200             |        | 181.926 | 70.041 | 9.135   | 4.656             |       |
| 2. Recoveries  |         |         |          |        |                   |                    | 134               |                   |        |         |        |         |                   |       |
| 3. Receipts from other EU Countries (EU-25)                    | 82      | 190     |          |        | 1                 |                    |                   |                   | 40     |         |        | 294     | 41                |       |
| I. Total imports from Third Countries<br>of which :<br>A - USA |         |         |          |        |                   |                    |                   |                   |        | 17      |        | 91      |                   |       |
| B - Canada<br>C - Australia                                    |         |         |          |        |                   |                    |                   |                   |        |         |        |         |                   |       |
| D - South Africa   |         |         |          |        |                   |                    |                   |                   |        |         |        |         |                   |       |
| E - Russian Federation   |         |         |          |        |                   |                    |                   |                   |        |         |        | 91      |                   |       |
| F - China  |         |         |          |        |                   |                    |                   |                   |        |         |        |         |                   |       |
| G - Colombia   |         |         |          |        |                   |                    |                   |                   |        |         |        |         |                   |       |
| H - Indonesia  |         |         |          |        |                   |                    |                   |                   |        |         |        |         |                   |       |
| I - Venezuela  |         |         |          |        |                   |                    |                   |                   |        |         |        |         |                   |       |
| J - Others   |         |         |          |        |                   |                    |                   |                   |        | 17      |        |         |                   |       |
| 5. Total Availabilities (1+2+3+4)                              | 317     | 190     |          |        | 48.498            |                    | 413               | 3.200             | 40     | 181.943 | 70.041 | 11.627  | 4.697             |       |
| i. Gross Inland Consumption                                    | 1.188   | 189     |          |        | 47.417            |                    | 299               | 8.724             | 40     | 181.933 | 70.855 | 12.173  | 3.059             |       |
| A - Power Stations (public & mine)                             | 1.007   |         |          |        | 35.666            |                    | 17                | 7.299             |        | 169.126 | 70.233 | 11.788  | 1.555             |       |
| B - Coking Plants (coal input) C - Iron and Steel Industry     |         |         |          |        |                   |                    |                   |                   |        |         |        |         |                   |       |
| D - Other Industries   | 117     | 189     |          |        | 8.866             |                    | 281               | 1.318             | 40     | 602     | 196    | 29      | 36                |       |
| of which Power Stations  |         | ,       |          |        | 3.649             | ,                  |                   | 1.318             |        | ,       |        |         | 36                |       |
| E - Domestic Heating   | 64      |         |          |        | 559               |                    | 1                 | 107               |        |         |        | 323     | 847               |       |
| F - Miscellaneous (Total (i)+(ii)+(iii))                       |         |         |          |        | 2.326             |                    |                   |                   |        | 12.205  | 426    | 33      | 621               |       |
| (i) Issue to Workers   |         |         |          |        |                   |                    |                   |                   |        |         |        |         |                   |       |
| (ii) Patent Fuel Plants  |         |         |          |        |                   |                    |                   |                   |        | 12.205  | 422    | 15      | 618               |       |
| (iii) Others   |         |         |          |        | 2.326             |                    |                   |                   |        |         | 4      | 18      | 3                 |       |
| '. Deliveries to Other EU Countries (EU-25)                    | 4       |         |          |        | 1.024             |                    | 106               | 29                |        | 1       |        | 1       | 30                |       |
| 3. Exports to Third Countries                                  |         |         |          |        | 48                |                    |                   |                   |        |         |        | 65      |                   |       |
| 9. Total Deliveries (6+7+8)                                    | 1.193   | 189     |          |        | 48.489            |                    | 405               | 8.753             | 40     | 181.934 | 70.855 | 12.239  | 3.089             |       |

Table 7 Supplies and Deliveries of Brown Coal and Lignite in 2004 (Part 2) (in thousands of metric tonnes)

Member State

| Men                    | Total<br>EU-25 | United<br>Kingdom | Sweden | Spain | Slovenia | Slovakia<br>(Estimate) | Romania | Portugal | Poland | Netherlands | Malta | Luxembourg | Lithuania<br>(mainly peat) | Latvia |
|------------------------|----------------|-------------------|--------|-------|----------|------------------------|---------|----------|--------|-------------|-------|------------|----------------------------|--------|
| 1. Production (t=t)    | 397.243        |                   |        | 8.162 | 4.809    | 2.950                  |         |          | 61.196 |             |       |            | 50                         |        |
| of which:              |                |                   |        |       |          |                        |         |          |        |             |       |            |                            |        |
| A - Undergrou          | 10.780         |                   |        |       | 4.809    | 2.950                  |         |          |        |             |       |            |                            |        |
| B - Opencast           | 386.463        |                   |        | 8.162 |          |                        |         |          | 61.196 |             |       |            | 50                         |        |
| 2. Recoveries          | 137            |                   |        |       |          |                        |         |          | 3      |             |       |            |                            |        |
| 3. Receipts from other | 1.581          |                   |        |       |          | 870                    |         |          |        | 46          |       | 8          |                            |        |
| 4. Total imports from  | 117            |                   |        |       |          |                        |         |          |        |             |       |            | 9                          |        |
| of which:              |                |                   |        |       |          |                        |         |          |        |             |       |            |                            |        |
| A - USA                |                |                   |        |       |          |                        |         |          |        |             |       |            |                            |        |
| B - Canada             |                |                   |        |       |          |                        |         |          |        |             |       |            |                            |        |

|    |   | <b> </b> |    |        |  |       |       |       |   |         | or willorr.                                 |
|----|---|----------|----|--------|--|-------|-------|-------|---|---------|---|
|    |   |          |    |        |  | 2.950 | 4.809 |       |   | 10.780  | _   |
| 50 |   |          |    | 61.196 |  |       |       | 8.162 |   | 386.463 |   |
|    |   |          |    | 3      |  |       |       |       |   |         | 2. Recoveries                               |
|    | 8 |          | 46 |        |  | 870   |       |       |   | 1.581   | 3. Receipts from other EU Countries (EU-25) |
| 9  |   |          |    |        |  |       |       |       |   | 117     | 4. Total imports from Third Countries       |
|    |   |          |    |        |  |       |       |       |   |         | of which:                                   |
|    |   |          |    |        |  |       |       |       |   |         | A - USA                                     |
|    |   |          |    |        |  |       |       |       |   |         | B - Canada                                  |
|    |   |          |    |        |  |       |       |       |   |         | C - Australia                               |
|    |   |          |    |        |  |       |       |       |   |         | D - South Africa                            |
| 1  |   |          |    |        |  |       |       |       |   | 92      | E - Russian Federation                      |
|    |   |          |    |        |  |       |       |       |   |         | F - China                                   |
|    |   |          |    |        |  |       |       |       |   |         | G - Colombia                                |
|    |   |          |    |        |  |       |       |       |   |         | H - Indonesia                               |
|    |   |          |    |        |  |       |       |       |   |         | I - Venezuela                               |
| 8  |   |          |    |        |  |       |       |       |   | 25      | J - Others                                  |
| 59 | 8 |          | 46 | 61.198 |  | 3.820 | 4.809 | 8.162 |   | 399.077 | 5. Total Availabilities (1+2+3+4)           |
| 48 | 8 |          | 44 | 61.172 |  | 3.590 | 4.809 | 8.162 |   | 403.719 | 6. Gross Inland Consumption                 |
| 47 |   |          |    | 60.279 |  | 2.780 | 4.809 | 8.162 |   | 372.768 | A - Power Stations (public & mine)          |
|    |   |          |    |        |  |       |       |       |   |         | B - Coking Plants (coal input)              |
|    |   |          |    |        |  |       |       |       |   |         | C - Iron and Steel Industry                 |
|    | 6 |          | 23 |        |  | 210   |       |       |   | 11.913  | D - Other Industries                        |
|    |   |          |    |        |  |       |       |       |   | 5.003   |   |
| 1  | 2 |          |    | 893    |  | 600   |       |       |   | 3.405   |   |
| 1  |   |          | 21 |        |  |       |       |       |   | 15.633  | F - Miscellaneous (Total (i)+(ii)+(iii))    |
|    |   |          |    |        |  |       |       |       |   |         | (i) Issue to Workers                        |
|    |   |          |    |        |  |       |       | ·     |   | 13.260  | (ii) Patent Fuel Plants                     |
| 1  |   |          | 21 |        |  |       |       | Ť     |   | 2.373   | (iii) Others                                |
|    |   |          |    | 27     |  |       |       | ·     |   | 1.222   | 7. Deliveries to Other EU Countries (EU-25) |
| 5  |   |          |    |        |  |       |       |       |   |         | 8. Exports to Third Countries               |
| 53 | 8 |          | 44 | 61.198 |  | 3.590 | 4.809 | 8.162 | i | 405.050 | 9. Total Deliveries (6+7+8)                 |

Table 8
Supplies and Deliveries of Brown Coal and Lignite in 2005 (Part 1)

|   | 1 1     |         |          |        | (111 (1100        | sands of metric to | 111163)           |                   | 1      | Т                                       |        | Т       | Т                 |       |
|---|---------|---------|----------|--------|-------------------|--------------------|-------------------|-------------------|--------|---|--------|---------|-------------------|-------|
| Member State                                | Austria | Belgium | Bulgaria | Cyprus | Czech<br>Republic | Denmark            | Estonia<br>(peat) | Finland<br>(peat) | France | Germany                                 | Greece | Hungary | Ireland<br>(peat) | Italy |
| 1. Production (t=t)                         |         |         | 24.598   |        | 48.772            |                    | 378               | 8.574             |        | 177.907                                 | 69.398 | 9.571   | 4.226             |       |
| of which:                                   |         |         |          |        |                   |                    |                   |                   |        |   |        |         |                   |       |
| A - Underground                             |         |         | 945      |        | 936               |                    |                   |                   |        |   |        | 1.249   |                   |       |
| B - Opencast                                |         |         | 23.653   |        | 47.836            |                    | 378               | 8.574             |        | 177.907                                 | 69.398 | 8.322   | 4.226             |       |
| 2. Recoveries                               |         |         |          |        |                   |                    | -80               |                   |        |   |        |         |                   |       |
| 3. Receipts from other EU Countries (EU-25) | 108     | 206     |          |        | 1                 |                    |                   | 22                | 34     |   |        | 389     | 41                |       |
| 1. Total imports from Third Countries       |         |         |          |        |                   |                    |                   | 4                 | 2      | 9                                       |        | 316     |                   |       |
| of which :                                  |         |         |          |        |                   |                    |                   |                   |        |   |        |         |                   |       |
| A - USA                                     |         |         |          |        |                   |                    |                   |                   |        |   |        |         |                   |       |
| B - Canada                                  |         |         |          |        |                   |                    |                   |                   |        |   |        |         |                   |       |
| C - Australia                               |         |         |          |        |                   |                    |                   |                   |        |   |        |         |                   |       |
| D - South Africa                            |         |         |          |        |                   |                    |                   |                   |        |   |        |         |                   |       |
| E - Russian Federation                      |         |         |          |        |                   |                    |                   |                   |        |   |        | 316     |                   |       |
| F - China                                   |         |         |          |        |                   |                    |                   |                   |        |   |        |         | Ì                 |       |
| G - Colombia                                |         |         |          |        |                   |                    |                   |                   |        |   |        |         |                   |       |
| H - Indonesia                               |         |         |          |        |                   |                    |                   |                   |        |   |        |         |                   |       |
| I - Venezuela                               |         |         |          |        |                   |                    |                   |                   |        |   |        |         |                   |       |
| J - Others                                  |         |         |          |        |                   |                    |                   | 4                 | 2      | 9                                       |        |         |                   |       |
| 5. Total Availabilities (1+2+3+4)           | 108     | 206     | 24.598   |        | 48.773            |                    | 298               | 8.600             | 36     | 177.916                                 | 69.398 | 10.276  | 4.267             |       |
| 6. Gross Inland Consumption                 | 1.287   | 206     | 24.598   |        | 47.617            |                    | 252               | 6.560             | 36     | 177.861                                 | 70.096 | 10.247  | 4.230             |       |
| A - Power Stations (public & mine)          | 1.112   |         | 23.585   |        | 39.094            |                    | 61                | 6.560             |        | 164.884                                 | 69.429 | 9.813   | 2.709             |       |
| B - Coking Plants (coal input)              |         |         |          |        |                   |                    |                   |                   |        |   |        |         |                   |       |
| C - Iron and Steel Industry                 |         |         |          |        |                   |                    |                   |                   |        |   |        |         |                   |       |
| D - Other Industries                        | 123     | 206     |          |        | 4.500             |                    | 191               |                   | 36     | 715                                     | 224    | 3       | 36                |       |
| of which Power Stations                     |         |         |          |        | 3.500             |                    |                   |                   |        |   |        |         | 36                |       |
| E - Domestic Heating                        | 53      |         | 216      |        | 2.000             |                    |                   |                   |        |   | 32     | 358     | 871               |       |
| F - Miscellaneous (Total (i)+(ii)+(iii))    |         |         | 797      |        | 2.023             |                    |                   |                   |        | 12.262                                  | 411    | 73      | 614               |       |
| (i) Issue to Workers                        |         |         |          |        |                   |                    |                   |                   |        | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |        |         |                   |       |
| (ii) Patent Fuel Plants                     |         |         | 797      |        | 536               |                    |                   |                   |        | 12.262                                  | 411    | 17      | 610               |       |
| (iii) Others                                |         |         |          |        | 1.487             |                    |                   |                   |        |   |        | 56      | 4                 |       |
| 7. Deliveries to Other EU Countries (EU-25) | 3       |         |          |        | 1.303             |                    | 46                | 124               |        | 1                                       |        | 2       | 30                |       |
| B. Exports to Third Countries               |         |         |          |        | 5                 |                    |                   | 16                |        |   |        | 372     |                   |       |
| D. Total Deliveries (6+7+8)                 | 1.290   | 206     | 24.598   |        | 48.925            |                    | 298               | 6.700             | 36     | 177.862                                 | 70.096 | 10.621  | 4.260             |       |

Table 8 Supplies and Deliveries of Brown Coal and Lignite in 2005 (Part 2)

(in thousands of metric tonnes)

|                  |                            |            |       |             |        |          |         |          | or mound torings) |       |                  |                   |                |                |   |
|------------------|----------------------------|------------|-------|-------------|--------|----------|---------|----------|-------------------|-------|------------------|-------------------|----------------|----------------|---|
| Latvia<br>(peat) | Lithuania<br>(mainly peat) | Luxembourg | Malta | Netherlands | Poland | Portugal | Romania | Slovakia | Slovenia          | Spain | Sweden<br>(peat) | United<br>Kingdom | Total<br>EU-25 | Total<br>EU-27 | Member State                                |
| 12               | 70                         |            |       |             | 61.590 |          | 28.432  | 2.511    | 4.540             | 7.587 | 1.012            |                   | 396.149        | 449.179        | 1. Production (t=t)                         |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | of which:                                   |
|                  |                            |            |       |             |        |          | 2.427   | 2.511    | 4.540             |       |                  |                   | 9.236          | 12.608         | A - Underground                             |
| 12               | 70                         |            |       |             | 61.590 |          | 26.005  |          |                   | 7.587 | 1.012            |                   | 386.912        | 436.570        | B - Opencast                                |
|                  |                            |            |       |             | 3      |          |         |          |                   |       |                  |                   | -78            | -78            | 2. Recoveries                               |
|                  |                            | 8          |       | 51          |        |          | 368     | 646      |                   |       |                  |                   | 1.514          | 1.882          | 3. Receipts from other EU Countries (EU-25) |
|                  | 26                         |            |       |             |        |          |         |          | 406               |       | 8                |                   | 771            | 771            | 4. Total imports from Third Countries       |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | of which :                                  |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | A - USA                                     |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | B - Canada                                  |
|                  |                            |            |       |             |        |          |         |          |                   |       | 8                |                   | 8              | 8              | C - Australia                               |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | D - South Africa                            |
|                  | 3                          |            |       |             |        |          |         |          |                   |       |                  |                   | 319            | 319            | E - Russian Federation                      |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | F - China                                   |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | G - Colombia                                |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | H - Indonesia                               |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | I - Venezuela                               |
|                  | 23                         |            |       |             |        |          |         |          | 406               |       |                  |                   | 444            | 444            | J - Others                                  |
| 12               |                            |            |       | 51          | 61.593 |          | 28.800  | 3.158    | 4.946             | 7.587 | 1.020            |                   | 398.357        |                | 5. Total Availabilities (1+2+3+4)           |
| 8                | 53                         |            |       | 51          | 61.573 |          | 28.800  | 3.158    | 4.971             | 7.587 | 1.017            |                   | 396.826        |                | 6. Gross Inland Consumption                 |
| 8                | 50                         |            |       |             | 61.173 |          | 28.710  | 2.858    | 4.971             | 7.587 | 731              |                   | 371.039        | 423.334        | A - Power Stations (public & mine)          |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | B - Coking Plants (coal input)              |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | C - Iron and Steel Industry                 |
|                  |                            | 7          |       | 29          |        |          |         |          |                   |       | 28               |                   | 6.098          | 6.098          | D - Other Industries                        |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   | 3.536          | 3.536          | of which Power Stations                     |
|                  | 1                          | 1          |       |             | 400    |          | 90      | 300      |                   |       | 258              |                   | 4.283          | 4.589          | E - Domestic Heating                        |
|                  | 2                          |            |       | 22          |        |          |         |          |                   |       |                  |                   | 15.407         | 16.204         | F - Miscellaneous (Total (i)+(ii)+(iii))    |
|                  |                            |            |       |             |        |          |         |          |                   |       |                  |                   |                |                | (i) Issue to Workers                        |
|                  |                            |            |       | ļ           |        |          |         |          |                   |       |                  |                   | 13.836         | 14.633         | (ii) Patent Fuel Plants                     |
|                  | 2                          |            |       | 22          |        |          |         |          |                   |       |                  |                   | 1.570          | 1.570          | (iii) Others                                |
| 4                |                            |            |       |             | 20     |          |         |          | 20                |       |                  |                   | 1.553          |                | 7. Deliveries to Other EU Countries (EU-25) |
| <u></u>          | 0                          |            |       |             |        |          |         |          |                   |       | 3                |                   | 396            |                | 8. Exports to Third Countries               |
| 12               | 53                         | 8          |       | 51          | 61.593 |          | 28.800  | 3.158    | 4.991             | 7.587 | 1.020            |                   | 398.775        | 452.173        | 9. Total Deliveries (6+7+8)                 |

Table 9
Supplies and Deliveries of Brown Coal and Lignite in 2006 (Part 1)

|   | 1       |         |          |        | (                 | sanus of metric to | 1                     |                   |        |         |                      |         |                   |       |
|---|---------|---------|----------|--------|-------------------|--------------------|-----------------------|-------------------|--------|---------|----------------------|---------|-------------------|-------|
| Member State                                | Austria | Belgium | Bulgaria | Cyprus | Czech<br>Republic | Denmark            | Estonia<br>(Estimate) | Finland<br>(peat) | France | Germany | Greece<br>(Estimate) | Hungary | Ireland<br>(peat) | Italy |
| 1. Production (t=t)                         | 8       |         | 25.631   |        | 49.059            |                    | 378                   | 11.689            |        | 179.950 | 65.650               | 9.952   | 3.972             |       |
| of which :                                  |         |         |          |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| A - Underground                             |         |         | 1.662    |        | 914               |                    |                       |                   |        |         |                      | 1.351   |                   |       |
| B - Opencast                                | 8       |         | 23.969   |        | 48.145            |                    | 378                   | 11.689            |        | 179.950 | 65.650               | 8.601   | 3.972             |       |
| 2. Recoveries                               |         |         |          |        |                   |                    | -80                   |                   |        |         |                      |         |                   |       |
| 3. Receipts from other EU Countries (EU-25) | 120     | 289     |          |        | 24                |                    |                       | 7                 | 37     |         |                      | 344     | 13                | (     |
| 4. Total imports from Third Countries       |         |         |          |        |                   |                    |                       | 4                 |        | 8       |                      | 333     |                   |       |
| of which:                                   |         |         |          |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| A - USA                                     |         |         |          |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| B - Canada                                  |         |         | ·        |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| C - Australia                               |         |         |          |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| D - South Africa                            |         |         |          |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| E - Russian Federation                      |         |         |          |        |                   |                    |                       |                   |        |         |                      | 333     |                   |       |
| F - China                                   |         |         |          |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| G - Colombia                                |         |         |          |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| H - Indonesia                               |         |         |          |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| I - Venezuela                               |         |         |          |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| J - Others                                  |         |         |          |        |                   |                    |                       | 4                 |        | 8       |                      |         |                   |       |
| 5. Total Availabilities (1+2+3+4)           | 128     | 289     | 25.631   |        | 49.083            |                    | 298                   | 11.700            | 37     | 179.958 | 65.650               | 10.629  | 3.985             | (     |
| 6. Gross Inland Consumption                 | 781     | 290     | 25.631   |        | 47.609            |                    | 252                   | 8.689             | 37     | 179.950 | 65.650               | 10.176  | 3.748             | (     |
| A - Power Stations (public & mine)          | 662     |         | 24.628   |        | 39.170            |                    | 61                    | 8.689             |        | 166.400 | 65.050               | 9.731   | 2.347             |       |
| B - Coking Plants (coal input)              |         |         |          |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| C - Iron and Steel Industry                 |         |         |          |        |                   |                    |                       |                   |        |         |                      |         |                   |       |
| D - Other Industries                        | 60      | 290     |          |        | 4.340             |                    | 191                   |                   | 37     | 750     | 200                  | 37      | 36                |       |
| of which Power Stations                     |         |         |          |        | 3.140             |                    |                       |                   |        |         |                      |         | 36                |       |
| E - Domestic Heating                        | 59      |         | 238      |        | 1.900             |                    |                       |                   |        |         |                      | 391     | 725               | 2     |
| F - Miscellaneous (Total (i)+(ii)+(iii))    |         |         | 765      |        | 2.199             |                    |                       |                   |        | 12.800  | 400                  | 17      | 640               |       |
| (i) Issue to Workers                        |         |         |          |        |                   |                    |                       |                   |        |         |                      |         | j                 |       |
| (ii) Patent Fuel Plants                     |         |         | 765      |        | 580               |                    |                       |                   |        | 12.800  | 400                  | 1       | 637               |       |
| (iii) Others                                |         |         |          |        | 1.619             |                    |                       |                   |        |         |                      | 16      | 3                 |       |
| 7. Deliveries to Other EU Countries (EU-25) |         |         |          |        | 1.296             |                    | 46                    | 98                |        | 1       |                      | 1       | 5                 |       |
| 8. Exports to Third Countries               |         |         |          |        | 4                 |                    |                       | 13                |        |         |                      | 490     | ĺ                 |       |
| 9. Total Deliveries (6+7+8)                 | 781     | 290     | 25.631   |        | 48.909            |                    | 298                   | 8.800             | 37     | 179.951 | 65.650               | 10.667  | 3.753             | (     |

Table 9
Supplies and Deliveries of Brown Coal and Lignite in 2006 (Part 2)

|                  |                            |            |       |             |        |          |         | (iii tiiododiido t | or metric tonnes) |       |                  |                   |                |                |   |
|------------------|----------------------------|------------|-------|-------------|--------|----------|---------|--------------------|-------------------|-------|------------------|-------------------|----------------|----------------|---|
| Latvia<br>(peat) | Lithuania<br>(mainly peat) | Luxembourg | Malta | Netherlands | Poland | Portugal | Romania | Slovakia           | Slovenia          | Spain | Sweden<br>(peat) | United<br>Kingdom | Total<br>EU-25 | Total<br>EU-27 | Member State                                |
| 14               | 66                         |            |       |             | 60.762 |          | 32.458  | 2.207              | 4.522             | 6.872 | 979              |                   | 396.080        | 454.169        | 1. Production (t=t)                         |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | of which:                                   |
|                  |                            |            |       |             |        |          | 2.064   | 2.207              | 4.522             |       |                  |                   | 8.994          | 12.720         | A - Underground                             |
| 14               | 66                         |            |       |             | 60.762 |          | 30.394  |                    |                   | 6.872 | 979              |                   | 387.086        | 441.449        | B - Opencast                                |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   | -80            |                | 2. Recoveries                               |
|                  |                            | 7          |       | 34          |        |          | 496     | 731                |                   |       |                  |                   | 1.615          |                | 3. Receipts from other EU Countries (EU-25) |
|                  | 28                         |            |       |             |        |          | 125     | 5                  | 549               |       | 9                |                   | 936            | 1.061          | 4. Total imports from Third Countries       |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | of which:                                   |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | A - USA                                     |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | B - Canada                                  |
|                  |                            |            |       |             |        |          |         |                    |                   |       | 9                |                   | 9              | 9              | C - Australia                               |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | D - South Africa                            |
|                  | 3                          |            |       |             |        |          | 119     | 4                  |                   |       |                  |                   | 340            | 459            | E - Russian Federation                      |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | F - China                                   |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | G - Colombia                                |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | H - Indonesia                               |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | I - Venezuela                               |
|                  | 25                         |            |       |             |        |          | 6       | 1                  | 549               |       |                  |                   | 587            | 593            | J - Others                                  |
| 14               | 94                         | 7          |       | 34          | 60.762 |          | 33.079  | 2.943              | 5.071             | 6.872 | 988              |                   | 398.551        | 457.261        | 5. Total Availabilities (1+2+3+4)           |
| 4                | 58                         | 7          |       | 34          | 60.762 |          | 33.079  | 2.943              | 5.087             | 6.872 | 890              |                   | 393.848        | 452.558        | 6. Gross Inland Consumption                 |
| 4                | 55                         |            |       |             | 60.065 |          | 32.986  | 2.643              | 5.087             | 6.872 | 651              |                   | 367.487        | 425.101        | A - Power Stations (public & mine)          |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | B - Coking Plants (coal input)              |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | C - Iron and Steel Industry                 |
|                  |                            | 6          |       | 9           |        |          |         |                    |                   |       | 32               |                   | 5.988          | 5.988          | D - Other Industries                        |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   | 3.176          | 3.176          | of which Power Stations                     |
|                  | 1                          | 1          | ·     |             | 697    | ·        | 93      | 300                |                   | ·     | 207              |                   | 4.283          | 4.614          | E - Domestic Heating                        |
|                  | 2                          |            |       | 25          |        |          |         |                    |                   |       |                  |                   | 16.090         | 16.855         | F - Miscellaneous (Total (i)+(ii)+(iii))    |
|                  |                            |            |       |             |        |          |         |                    |                   |       |                  |                   |                |                | (i) Issue to Workers                        |
|                  |                            |            |       |             | ·      | ·        |         |                    |                   | ·     |                  | ·                 | 14.418         | 15.183         | (ii) Patent Fuel Plants                     |
|                  | 2                          |            |       | 25          |        |          |         |                    |                   |       |                  |                   | 1.672          | 1.672          |   |
|                  |                            |            |       |             |        |          |         |                    | 34                |       |                  |                   | 1.481          |                | 7. Deliveries to Other EU Countries (EU-25) |
|                  | 38                         |            |       |             |        |          |         |                    |                   |       | 6                |                   | 551            |                | 8. Exports to Third Countries               |
| 4                | 96                         | 7          |       | 34          | 60.762 |          | 33.079  | 2.943              | 5.121             | 6.872 | 896              |                   | 395.880        | 454.590        | 9. Total Deliveries (6+7+8)                 |