

# Statistical Aspects of the Energy Economy in 2000

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## Statistics in focus

### ENVIRONMENT AND ENERGY

THEME 8 – 1/2002

#### ENERGY

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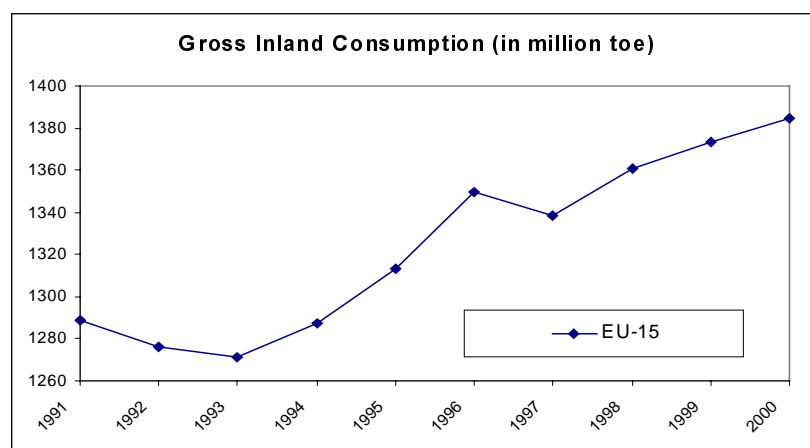
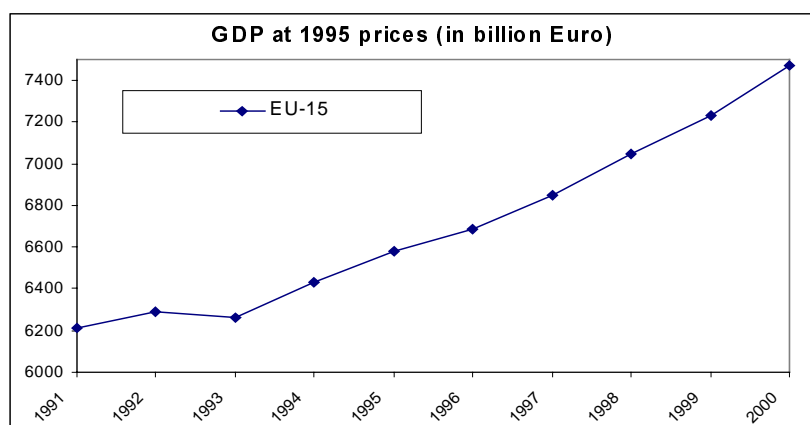
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The total gross inland consumption of energy in the European Union in 2000 (not adjusted for climatic variations) was 1384,4 million toe (tonnes of oil equivalent), an increase of 0.8% from 1999.

Consumption is highly influenced by developments in the main consuming sectors, including power generation. During 1991-1993 most of the Member States of the European Union experienced a recession, although at varied times. General recovery took hold in 1994 and the growth in gross inland consumption from that year up to 2000 reflected the increase in the Gross Domestic Product (GDP) for the same period. The only exception in this general parallel evolution trend of total gross inland consumption and GDP is the year 1996, where an exceptionally high energy consumption has been observed due to cold weather conditions.

N.B.1: All data in this report represent the cumulative monthly figures and may differ from annual data. In addition, figures for certain renewable energy sources (solar, biomass except the part used in power stations) are not included. For this reason, the total for the different kinds of energy also differs from the total published in the Energy Balances, which now include all forms of renewable energy.

N.B.2: The tonne of oil equivalent is a standardised conventional unit defined on the basis of one tonne of oil having a net calorific value of 41 868 kilojoules per kilogramme.

## Energy consumption trends

Of the five biggest energy-consuming Member States, gross inland consumption in 2000 decreased in Germany (-0.6%) and in the United Kingdom (-0.5%) and increased in Italy (+4.3%), in Spain (+3.4%) and slightly in France (0.2%) compared with 1999 consumption. In all remaining Member States of the European Union gross inland consumption in 2000 varied with reference to 1999 between -6.4% (Sweden) and +8.0% (Belgium).

The following trends are observed in energy consumption by product between 1999 and 2000 for the European Union:

- a) an increase in hard coal consumption of 1.2%, opposite to the steady decrease observed in the past recent years
- b) a decrease -for a second year in a row- in oil consumption of 0.9%
- c) a substantial increase in natural gas of 4.9% due to the extension of the natural gas distribution network and use in electricity generation
- d) a decrease in nuclear energy of 2.0%

In the Euro-Zone, gross inland consumption in 2000 regarding all the above mentioned products showed similar trends as in EU total, except of nuclear energy where an increase of 1.3% was observed.

The biggest share by far in total gross inland consumption is that of oil (42.1%), followed by natural gas (24.8%) and nuclear energy (15.2%); in 1999 the shares were 42.8%, 24% and 15.7% respectively.

## Energy production trends


Primary production in the European Union was 689 million toe in 2000, a decrease of 1.9% from 1999. Some of the most important changes observed between the two reference years are:

- a) a decrease of 13.8% in total hard coal production. As regards the two biggest producer Member States, production fell by 14.8% in Germany and by 15.8% in the United Kingdom
- b) total lignite production remained stable. Production increased by 3.6% in Germany and by 3.0% in Greece
- c) a decrease in total crude oil production of 4.5%, mainly due to smaller output in the United Kingdom (-7.6%)
- d) an increase in natural gas production of 2.8%. Among the two major natural gas producers, production increased in the United Kingdom by 9.2% while it fell in the Netherlands by 3.4%

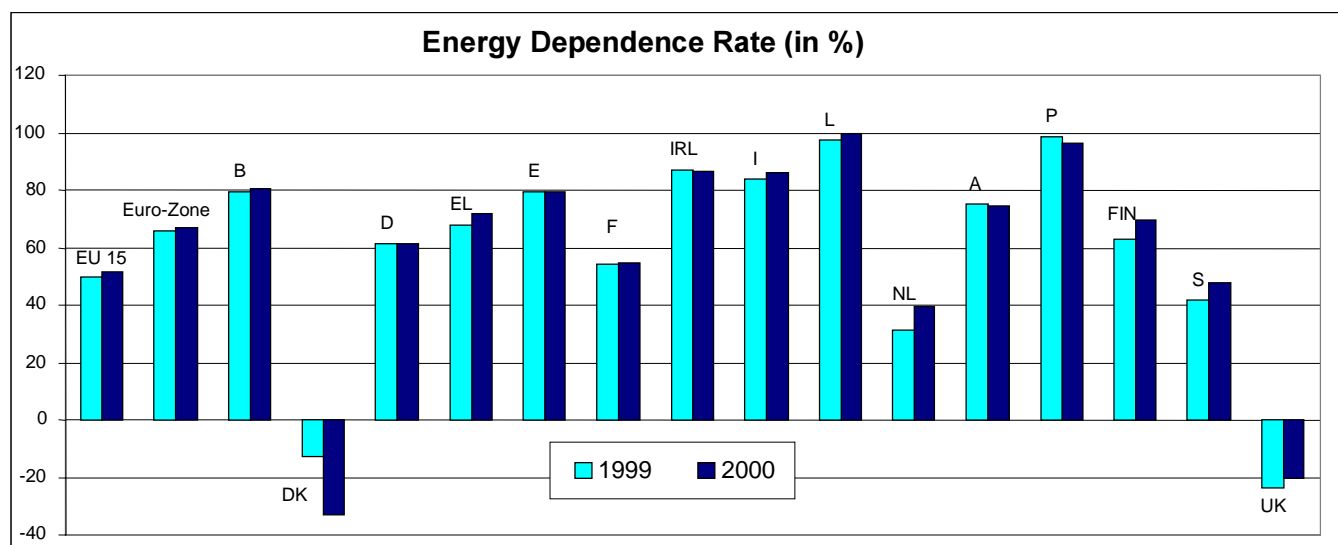
Nuclear energy, with a share of 30.6%, still accounts for the largest share in total primary energy production in 2000, as in preceding years for the European Union, followed by natural gas with a share of 27.5% and crude oil (22.9%); in 1999 the shares were 30.6%, 26.2% and 23.5% respectively.

SUMMARY "FINAL ENERGY" BALANCE-SHEET (in mio toe)

JANUARY - DECEMBER 1999

	EU-15	Euro-Zone	B	DK	D	EL	E	F	IRL	I	L	NL	A	P	FIN	S	UK
Primary Production (1)	703.2	376.7	12.5	21.8	125.3	8.4	25.6	112.6	1.7	25.3	0.0	57.7	6.2	0.7	8.8	24.4	271.9
Total Imports (2)	1059.4	922.5	71.8	15.7	228.8	23.4	103.9	154.3	13.0	161.8	3.4	119.5	21.9	24.4	19.8	29.0	68.9
Change in Stocks (3)	6.4	2.4	0.1	1.1	2.2	0.9	-1.1	-2.0	0.0	1.6	0.1	1.6	0.1	-0.4	0.3	0.9	1.1
Total Exports (2)	356.1	202.7	23.5	18.2	26.1	3.8	7.7	22.7	1.1	20.2	0.1	92.3	2.7	1.8	4.4	10.7	120.7
Gross Consumption	1412.9	1098.8	61.0	20.4	330.2	28.9	120.7	242.2	13.5	168.5	3.4	86.4	25.6	22.9	24.4	43.6	221.2
Bunkers	39.6	31.3	4.5	1.3	2.2	3.2	6.0	2.2	0.2	2.6	-	13.1	-	0.5	-	1.5	2.2
Gross Inland Consumption	1373.3	1067.5	56.4	19.0	328.0	25.7	114.6	240.0	13.4	165.9	3.4	73.4	25.6	22.4	24.4	42.1	219.0

(1) Including hard coal recovered (2) Including Intra-EU trade (3) + Decrease in stocks - Increase in stocks / \* provisional data




**Net total imports** increased by 4.5% attaining a level of 734.9 million toe.

Net imports of energy (imports minus exports) as a percentage of gross consumption -excluding fuels consumed by maritime bunkers- show national energy dependence. The **energy dependence rate** of the European Union increased from 49.8% in 1999 to 51.5% in 2000. Denmark, which became a net energy exporter for the first time in 1999, confirmed this trend in 2000 with an energy dependence rate of -32.9%. The United Kingdom remains a net energy exporter (energy dependence rate -20.5% in 2000), while all other Member States are net energy importers.

**Energy consumption per capita** in the European Union ranged from 6 toe/capita in Belgium to 2.3 toe/capita in Portugal in 2000. To a large extent this indicator reflects the level of living standards, space heating needs (weather conditions and geography) and the structure of the industry/economies of the Member States of the European Union. Luxembourg with 8,1 toe/capita constitutes a special case given the share of industrial sectors as well as that of foreign consumers (transport sector).


**SUMMARY "FINAL ENERGY" BALANCE-SHEET (in mio toe)**  
**JANUARY - DECEMBER 2000**

	EU-15	Euro-Zone	B	DK	D	EL	E	F	IRL	I	L	NL	A	P	FIN	S	UK
Primary Production (1)	689.8*	370.6*	12.3	25.4	121.3	8.9	26.4	114.0*	1.5	24.2	0.0	55.7	6.5	1.1	7.6	21.1	263.7
Total Imports (2)	1115.8*	962.9*	75.5	15.4	231.0	25.9	107.4	160.2*	12.8	172.2	3.6	134.1*	21.6	24.0	20.5	31.3	80.2
Change in Stocks (3)	1.4*	-0.4*	0.4	0.5	5.8	-0.4	-0.5	-4.2*	0.2*	0.8	-0.1	-2.2	0.0	-0.2	-0.5	0.2	1.5
Total Exports (2)	380.8*	217.6*	22.2	21.8	30.0	4.1	8.6	26.5*	1.3	21.3	0.1	99.0	2.6	1.7	4.2	11.9	125.4
Gross Consumption	1426.1*	1115.5*	65.9	19.5	328.1	30.3	124.7	243.5*	13.2*	175.8	3.5	88.7*	25.5	23.1	23.4	40.7	220.0
Bunkers	41.7	33.5	5.0	1.3	2.2	3.5	6.2	3.0	0.1	2.7	-	13.8	-	0.5	-	1.4	2.1
Gross Inland Consumption	1384.4*	1082.0*	60.9	18.2	325.9	26.9	118.5	240.5*	13.2*	173.1	3.5	74.9*	25.5	22.6	23.4	39.3	217.9

(1) Including hard coal recovered (2) Including Intra-EU trade (3) + Decrease in stocks - Increase in stocks / \* provisional data

## SUBDIVISION OF PRINCIPAL AGGREGATES OF THE ENERGY BALANCE SHEET


*Million tonnes of oil equivalent*

 eurostat	EU-15			Euro-Zone		
	1999	2000	00/99	1999	2000	00/99
<b>1. Gross Inland Consumption</b>	1373.3	1384.4	0.8%	1067.5	1082.0	1.4%
of which:						
Hard coal (1)	160.7	162.7*	1.2%	118.5	120.9*	2.1%
Lignite (1)	47.1	46.9	-0.3%	39.1	38.7	-0.9%
Crude oil (1)	588.5	583.1	-0.9%	473.0	469.9	-0.7%
Natural gas	327.6	343.6	4.9%	237.5	250.0	5.3%
Nuclear energy	215.3	211.1*	-2.0%	173.4	175.6*	1.3%
Primary electrical energy and others	34.2	37.0*	8.2%	26.0	26.9*	3.4%
<b>2. Net Imports (2)</b>	703.3	734.9*	4.5%	719.7	745.3*	3.6%
among which:						
Hard coal	94.9	100.9*	6.4%	75.3	79.7*	5.9%
Crude oil	426.0	439.1	3.1%	448.8	454.4	1.3%
Natural gas	146.9	154.3	5.0%	153.0	164.1	7.2%
Petroleum products	15.9	19.6	23.1%	28.0	31.5	12.4%
<b>3. Production of Primary Energy</b>	702.5	689.0*	-1.9%	376.4	370.3*	-1.6%
of which:						
Hard coal (3)	59.9	51.6	-13.8%	38.2	33.4	-12.6%
Lignite	46.8	46.8	0.0%	38.8	38.6	-0.6%
Crude oil and condensates	164.9	157.6	-4.5%	13.2	12.9	-2.1%
Natural gas	184.2	189.4	2.8%	88.5	85.1	-3.8%
Nuclear energy	215.3	211.1*	-2.0%	173.4	175.6*	1.3%
Primary electrical energy and others	32.1	33.3*	3.7%	24.4	25.0*	2.1%
<b>4. <u>Net Imports (2)</u> Gross Consumption</b>						
Total	49.8%	51.5%*		65.5%	66.8%*	
among which:						
Petroleum	32.2%	33.0%*		44.2%	44.2%*	
<b>5. Gross Inland Consumption Per Capita in kgoe</b>	3652.9	3672.2*		3659.2	3699.4*	

(1) Including the balance of foreign trade and stock changes of derived products  
(2) Imports minus exports  
(3) Including recovered products  
\* provisional data

## SUBDIVISION OF PRINCIPAL AGGREGATES OF THE ENERGY BALANCE SHEET

*Million tonnes of oil equivalent*

	Belgique/België			Danmark			Deutschland			Ellada			España		
	1999	2000	00/99	1999	2000	00/99	1999	2000	00/99	1999	2000	00/99	1999	2000	00/99
<b>1. Gross Inland Consumption</b>	56.4	60.9	<b>8.0%</b>	19.0	18.2	<b>-4.5%</b>	328.0	325.9	<b>-0.6%</b>	25.7	26.9	<b>4.6%</b>	114.6	118.5	<b>3.4%</b>
of which:															
Hard coal (1)	7.2	7.8*	<b>8.3%</b>	4.7	4.1*	<b>-13.9%</b>	47.5	46.3	<b>-2.4%</b>	0.5	0.4	<b>-23.0%</b>	19.7	20.7*	<b>4.9%</b>
Lignite (1)	0.0	0.0	<b>-38.9%</b>	-	-	-	34.3	35.4	<b>3.3%</b>	8.0	8.2	<b>3.0%</b>	1.6	1.5	<b>-3.5%</b>
Crude oil (1)	22.9	26.3	<b>14.6%</b>	9.8	9.3	<b>-5.2%</b>	130.6	127.0	<b>-2.8%</b>	15.5	16.2	<b>4.3%</b>	63.0	64.1	<b>1.7%</b>
Natural gas	13.8	14.4	<b>3.7%</b>	4.4	4.4	<b>-0.9%</b>	71.7	73.7	<b>2.8%</b>	1.2	1.7	<b>42.0%</b>	13.2	14.1	<b>7.3%</b>
Nuclear energy	12.1	11.8*	<b>-2.2%</b>	-	-	-	40.8	40.2	<b>-1.4%</b>	-	-	-	14.3	15.1	<b>5.5%</b>
Primary electrical energy and others	0.4	0.7*	<b>72.0%</b>	0.1	0.4		3.2	3.3	<b>3.4%</b>	0.4	0.3	<b>-23.7%</b>	2.8	3.0	<b>6.5%</b>
<b>2. Net Imports (2)</b>	48.3	53.2*	<b>10.2%</b>	-2.5	-6.4		202.7	201.0	<b>-0.8%</b>	19.6	21.8	<b>11.3%</b>	96.2	98.8*	<b>2.7%</b>
among which:															
Hard coal	6.5	6.7	<b>2.6%</b>	4.2	3.8	<b>-9.5%</b>	16.3	16.0	<b>-2.1%</b>	0.5	0.4	<b>-14.4%</b>	13.1	13.9*	<b>6.7%</b>
Crude oil	32.1	33.9	<b>5.6%</b>	-5.3	-8.4	<b>59.1%</b>	102.1	100.5	<b>-1.6%</b>	15.8	19.4	<b>22.4%</b>	58.0	57.5	<b>-1.0%</b>
Natural gas	14.0	14.3	<b>2.0%</b>	-2.5	-2.8	<b>12.3%</b>	57.6	56.9	<b>-1.1%</b>	1.2	1.7	<b>38.8%</b>	13.9	13.9	<b>0.6%</b>
Petroleum products	-5.0	-2.6	<b>-48.3%</b>	1.0	0.6	<b>-34.9%</b>	23.6	23.2	<b>-1.7%</b>	0.7	-0.7		10.1	12.2	<b>21.1%</b>
<b>3. Production of Primary Energy</b>	12.4	12.2*	<b>-2.1%</b>	21.8	25.4	<b>16.6%</b>	125.3	121.3	<b>-3.2%</b>	8.4	8.9	<b>5.5%</b>	25.6	26.4	<b>3.0%</b>
of which:															
Hard coal (3)	0.1	0.1	<b>3.0%</b>	-	-	-	28.5	24.3	<b>-14.8%</b>	-	-	-	7.0	6.8	<b>-3.0%</b>
Lignite	-	-	-	-	-	-	34.1	35.3	<b>3.6%</b>	8.0	8.2	<b>3.0%</b>	1.6	1.5	<b>-3.5%</b>
Crude oil and condensates	-	-	-	14.7	17.8	<b>21.4%</b>	2.7	3.1	<b>14.5%</b>	0.0	0.3		0.3	0.2	<b>-23.6%</b>
Natural gas	-	-	-	6.9	7.2	<b>5.6%</b>	16.1	15.3	<b>-4.9%</b>	0.0	0.0		0.1	0.2	<b>25.0%</b>
Nuclear energy	12.1	11.8*	<b>-2.2%</b>	-	-	-	40.8	40.2	<b>-1.4%</b>	-	-	-	14.3	15.1	<b>5.5%</b>
Primary electrical energy and others	0.4	0.4*	<b>2.8%</b>	0.3	0.4	<b>36.4%</b>	3.1	3.0	<b>-2.3%</b>	0.4	0.3	<b>-20.8%</b>	2.3	2.6	<b>12.7%</b>
<b>4. Net Imports (2)</b>															
<b>Gross Consumption</b>															
Total	79.2%	80.8%*		-12.5%	-32.9%*		61.4%	61.3%		67.9%	72.0%		79.7%	79.2%*	
among which:															
Petroleum	44.6%	47.5%*		-20.1%	-38.5%*		38.1%	37.7%		61.8%	64.9%		57.2%	56.9%*	
<b>5. Gross Inland Consumption</b>															
<b>Per Capita in kgoe</b>	5517.8	5942.5*		3578.0	3406.1*		3995.1	3965.8		2439.0	2546.7		2908.5	3003.6*	

(1) Including the balance of foreign trade and stock changes of derived products


(2) Imports minus exports

(3) Including recovered products

\* provisional data

## SUBDIVISION OF PRINCIPAL AGGREGATES OF THE ENERGY BALANCE SHEET

*Million tonnes of oil equivalent*

	France			Ireland			Italia			Luxembourg			Nederland		
	1999	2000	00/99	1999	2000	00/99	1999	2000	00/99	1999	2000	00/99	1999	2000	00/99
<b>1. Gross Inland Consumption</b>	240.0	240.5	0.2%	13.4	13.2	-1.6%	165.9	173.1	4.3%	3.4	3.5	5.0%	73.4	74.9	2.2%
of which:															
Hard coal (1)	13.4	12.7*	-5.6%	2.0	2.0*	1.5%	11.9	13.4	13.2%	0.1	0.1	17.0%	9.0	9.7*	8.8%
Lignite (1)	0.4	0.1	-66.8%	0.6	0.5	-15.9%	0.0	0.0	-26.3%	0.0	-	-	-	-	-
Crude oil (1)	91.8	89.4	-2.6%	7.9	7.3	-7.6%	88.8	87.9	-1.0%	2.1	2.2	5.8%	27.3	27.9	2.4%
Natural gas	33.7	36.0	6.8%	2.8	3.3	16.3%	55.2	61.5	11.5%	0.7	0.7	2.3%	34.3	34.3	0.2%
Nuclear energy	99.5	102.0*	2.4%	-	-	-	-	-	-	-	-	-	0.9	1.0	2.6%
Primary electrical energy and others	1.0	0.2*	-77.7%	0.1	0.1	-11.7%	10.0	10.2	1.4%	0.5	0.5	3.4%	1.9	2.0	2.6%
<b>2. Net Imports (2)</b>	131.6	133.7*	1.6%	11.8	11.5	-2.8%	141.6	150.8	6.5%	3.3	3.6	8.2%	27.1	35.2*	29.7%
among which:															
Hard coal	9.9	11.0	11.3%	1.8	2.0	8.8%	11.6	12.9	10.5%	0.1	0.1	17.0%	8.9	9.7*	7.9%
Crude oil	82.1	84.9	3.4%	3.1	3.2	4.9%	80.4	83.7	4.0%	-	-	-	58.8	60.4	2.7%
Natural gas	34.2	36.1	5.5%	1.8	2.3	33.9%	40.1	46.8	16.8%	0.7	0.7	2.3%	-19.6	-17.7	-9.7%
Petroleum products	11.3	8.5	-24.6%	5.1	3.9	-23.6%	-1.4	-2.9	-	2.1	2.3	11.2%	-22.3	-18.7	-16.2%
<b>3. Production of Primary Energy</b>	112.5	113.8*	1.1%	1.7	1.5	-12.8%	25.3	24.2	-4.6%	0.0	0.0	8.8%	57.7	55.7	-3.4%
of which:															
Hard coal (3)	2.6	2.2	-15.9%	-	-	-	-	-	-	-	-	-	-	-	-
Lignite	0.4	0.1	-66.8%	0.6	0.5	-15.9%	0.0	0.0	-26.3%	-	-	-	-	-	-
Crude oil and condensates	2.1	2.1	0.0%	-	-	-	4.6	4.1	-9.7%	-	-	-	2.5	2.4	-7.2%
Natural gas	1.5	1.4	-6.2%	1.1	1.0	-12.0%	14.3	13.7	-4.5%	-	-	-	53.9	52.1	-3.4%
Nuclear energy	99.5	102.0*	2.4%	-	-	-	-	-	-	-	-	-	0.9	1.0	2.6%
Primary electrical energy and others	6.5	6.2*	-4.4%	0.1	0.1	0.7%	6.4	6.4	-1.0%	0.0	0.0	8.8%	0.3	0.3	3.3%
<b>4. Net Imports (2)</b>															
<b>Gross Consumption</b>															
Total	54.3%	54.9%*		87.3%	86.8%*		84.0%	85.8%		97.7%	100.0%		31.4%	39.7%*	
among which:															
Petroleum	38.1%	37.8%*		60.2%	53.7%*		51.1%	49.5%		60.9%	64.5%		42.2%	46.9%*	
<b>5. Gross Inland Consumption</b>															
<b>Per Capita in kgoe</b>	4060.2	4050.0*		3561.1	3467.0*		2878.0	2996.3		7803.3	8077.9		4639.5	4706.4*	

(1) Including the balance of foreign trade and stock changes of derived products


(2) Imports minus exports

(3) Including recovered products

\* provisional data

## SUBDIVISION OF PRINCIPAL AGGREGATES OF THE ENERGY BALANCE SHEET

*Million tonnes of oil equivalent*

 eurostat	Österreich			Portugal			Suomi/Finland			Sverige			United Kingdom		
	1999	2000	00/99	1999	2000	00/99	1999	2000	00/99	1999	2000	00/99	1999	2000	00/99
<b>1. Gross Inland Consumption</b>	25.6	25.5	-0.3%	22.4	22.6	0.6%	24.4	23.4	-4.3%	42.1	39.3	-6.5%	219.0	217.9	-0.5%
of which:															
Hard coal (1)	3.0	3.2	9.8%	3.9	4.0	1.5%	0.8	0.9	3.4%	2.2	2.2	3.5%	34.8	35.1	0.7%
Lignite (1)	0.3	0.3	9.0%	-	-	-	1.9	0.8	-58.6%	-	-	-	-	-	-
Crude oil (1)	12.1	12.0	-1.2%	15.9	15.3	-3.6%	10.6	10.5	-0.7%	15.4	14.9	-3.5%	74.7	72.8	-2.5%
Natural gas	6.9	6.4	-6.4%	1.9	2.1	8.1%	3.3	3.4	2.3%	0.7	0.7	-2.1%	83.8	86.9	3.7%
Nuclear energy	-	-	-	-	-	-	5.8	5.6	-3.0%	18.3	14.3	-21.6%	23.6	21.1	-10.7%
Primary electrical energy and others	3.3	3.5	5.4%	0.6	1.1	77.0%	2.1	2.3	10.7%	5.5	7.2	31.3%	2.1	2.1	-1.9%
<b>2. Net Imports (2)</b>	19.2	19.0	-1.0%	22.6	22.2	-1.6%	15.3	16.3	6.0%	18.3	19.4	6.2%	-51.8	-45.2	-12.7%
among which:															
Hard coal	2.5	2.5	1.7%	3.9	4.1	5.3%	0.5	0.8	54.9%	1.9	2.0	6.8%	13.0	14.9	14.6%
Crude oil	7.7	7.2	-6.8%	13.4	11.7	-12.7%	11.1	11.6	4.3%	19.5	20.9	7.1%	-52.9	-47.3	-10.7%
Natural gas	5.2	5.2	-0.8%	2.0	2.1	8.1%	3.3	3.4	2.3%	0.7	0.7	-2.1%	-5.5	-9.4	69.2%
Petroleum products	2.8	3.0	6.3%	2.5	3.3	27.7%	-0.7	-0.6	-7.8%	-3.2	-4.5	42.0%	-10.5	-7.2	-30.8%
<b>3. Production of Primary Energy</b>	6.2	6.5	4.1%	0.7	1.1	47.7%	8.8	7.6	-13.0%	24.4	21.1	-13.4%	271.5	263.3	-3.0%
of which:															
Hard coal (3)	-	-	-	-	-	-	-	-	-	-	-	-	21.6	18.2	-15.8%
Lignite	0.3	0.3	19.2%	-	-	-	1.9	0.8	-58.6%	-	-	-	-	-	-
Crude oil and condensates	1.0	1.0	2.1%	-	-	-	-	-	-	-	-	-	137.0	126.6	-7.6%
Natural gas	1.5	1.5	3.6%	-	-	-	-	-	-	-	-	-	88.8	96.9	9.2%
Nuclear energy	-	-	-	-	-	-	5.8	5.6	-3.0%	18.3	14.3	-21.6%	23.6	21.1	-10.7%
Primary electrical energy and others	3.5	3.6	3.7%	0.7	1.1	47.7%	1.1	1.3	14.1%	6.1	6.8	11.0%	0.9	0.9	-3.8%
<b>4. Net Imports (2)</b>															
<b>Gross Consumption</b>															
Total	75.1%	74.6%		98.5%	96.3%		62.7%	69.5%		41.9%	47.7%		-23.4%	-20.5%	
among which:															
Petroleum	43.8%	42.1%		73.3%	69.0%		42.6%	46.7%		36.9%	39.4%		-27.4%	-23.6%	
<b>5. Gross Inland Consumption</b>															
<b>Per Capita in kgoe</b>	3162.8	3144.5		2247.1	2255.9		4731.7	4519.8		4747.5	4434.6		3680.6	3648.6	

(1) Including the balance of foreign trade and stock changes of derived products

(2) Imports minus exports

(3) Including recovered products

\* provisional data

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