

**EUROPEAN UNION**

**ENERGY & TRANSPORT  
IN FIGURES  
2004**

**European Commission**

**Directorate-General for  
Energy and Transport**

in co-operation with **Eurostat**

# Preface

This publication provides an overview of **energy and transport statistics** for the EU and its Member States in a concise and user-friendly way. Wherever available, data from the ten countries which joined the EU on 1 May 2004 has been added to the tables of this edition. The presentation of the tables has been adjusted accordingly.

Most of the tables include data up to 2002. In some cases, 2003 data is given.

This pocketbook is based on a range of sources, including Eurostat, international organisations, national statistics, studies and, where no data was available, own estimates.

The tables of this book, some additional information and links to the data sources may also be found on the Europa internet site under

**[http://europa.eu.int/comm/dgs/energy\\_transport/figures/pocketbook/index\\_en.htm](http://europa.eu.int/comm/dgs/energy_transport/figures/pocketbook/index_en.htm)**

Some tables may be updated on the web before the publication of the next paper version.

Eurostat, the main data provider, may be accessed directly on the Europa internet site under

**<http://epp.eurostat.cec.eu.int/pls/portal>**

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## SYMBOLS AND ABBREVIATIONS

<b>12</b>	<i>Estimates are printed in italic</i> break in time series
<b>—</b>	break in time series
<b> </b>	break in time series
<b>%</b>	per cent
<b>-</b>	not applicable, does not exist
<b>blank</b>	data not available
<b>0</b>	zero or figure less than half of unit
<b>ca.</b>	circa = approximately
<b>1970=100</b>	reference year for an index
<b>€</b>	euro
<b>EUR</b>	euro
<b>ECU</b>	European Currency Unit
<b>DG</b>	Directorate-General of the European Commission
<b>dwt</b>	deadweight ton (shipping)
<b>GDP</b>	Gross Domestic Product
<b>grt</b>	gross registered tonnage (shipping)
<b>km</b>	kilometre
<b>mio</b>	1 million
<b>mtow</b>	maximum take-off weight (aircraft)
<b>pkm</b>	passenger-kilometre: a unit of measure: 1 passenger transported a distance of 1 kilometre
<b>PPP</b>	Purchasing Power Parities
<b>rpk</b>	revenue passenger kilometres (air)
<b>TEU</b>	Twenty foot Equivalent Unit
<b>tkm</b>	tonne-kilometre : a unit of measure: 1 tonne transported a distance of 1 kilometre

# COUNTRY ABBREVIATIONS

## European Union Countries (EU-25) (also EEA Members)

### EU Member State since :

<b>AT</b>	Austria	1995
<b>BE</b>	Belgium	1958
<b>CY</b>	Cyprus	2004
<b>CZ</b>	Czech Republic	2004
<b>DK</b>	Denmark	1973
<b>EE</b>	Estonia	2004
<b>FI</b>	Finland	1995
<b>FR</b>	France	1958
<b>DE</b>	Germany	1958

[ DE-E (East Germany) is always included in **DE**;  
unification on 3.10.1990]

<b>EL</b>	Greece	1981
<b>HU</b>	Hungary	2004
<b>IE</b>	Ireland	1973
<b>IT</b>	Italy	1958
<b>LV</b>	Latvia	2004
<b>LT</b>	Lithuania	2004
<b>LU</b>	Luxembourg	1958
<b>MT</b>	Malta	2004
<b>PL</b>	Poland	2004
<b>PT</b>	Portugal	1986
<b>SK</b>	Slovak Republic	2004
<b>SI</b>	Slovenia	2004
<b>ES</b>	Spain	1986
<b>SE</b>	Sweden	1995
<b>NL</b>	The Netherlands	1958
<b>UK</b>	United Kingdom	1973

## Other European Economic Area (EEA) and in EFTA

<b>IS</b>	Iceland	EEA : 1994	EFTA:1960
<b>LI</b>	Liechtenstein	EEA : 1994	EFTA:1991
<b>NO</b>	Norway	EEA : 1994	EFTA:1960

## Other European Free Trade Association (EFTA)

<b>CH</b>	Switzerland	EFTA:1960
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## European Union Candidate Countries

<b>BG</b>	Bulgaria
<b>HR</b>	Croatia
<b>RO</b>	Romania
<b>TR</b>	Turkey

## Other Countries

<b>USA</b>	United States of America
<b>J</b>	Japan
<b>CS</b>	Czechoslovakia (until 1992)

**Note:** EU-15 are those Members of EU-25 that joined the EU before 2004. Those which were Members in 1994 became Members of the EEA in 1994, those which joined the EU after 1994 became Members of the EEA at the same time.

## **Part 1 : GENERAL DATA**

## General Economic Data

### Gross Domestic Product

	GDP (nominal) €billion 2003	Gross Domestic Product per head expressed in Purchasing Power Parities (EU-25=100)				
		1995	2000	2001	2002	2003
BE	267.5	120	117	117	117	118
CZ	75.7	70	65	66	68	69
DK	188.2	125	127	126	122	123
DE	2 128.2	119	112	110	109	108
EE	8.0	34	42	43	46	49
EL	153.0	72	72	74	78	81
ES	743.0	87	92	92	95	98
FR	1 557.2	115	114	115	113	111
IE	131.9	99	126	129	134	133
IT	1 300.9	115	111	110	109	107
CY	11.3	86	86	89	83	83
LV	9.9	30	35	37	39	41
LT	16.1	34	39	41	42	46
LU	23.5	179	219	213	213	215
HU	73.2	50	53	56	59	61
MT	4.3		79	75	74	75
NL	453.8	120	122	124	122	121
AT	224.3	129	128	124	123	122
PL	185.2	41	46	46	46	46
PT	130.0	73	77	77	77	74
SI	24.6	68	73	75	75	77
SK	28.8	45	48	49	51	52
FI	142.5	106	114	114	113	113
SE	267.3	118	120	116	115	115
UK	1 589.5	110	114	115	118	118
<b>EU25</b>	<b>9 738.1</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
<b>EU15</b>	<b>9 300.9</b>	<b>111</b>	<b>110</b>	<b>110</b>	<b>109</b>	<b>109</b>
BG	17.7	31	27	29	29	30
HR	25.5	37	42	42	44	46
RO	50.4		25	27	29	30
TR	212.3	30	30	26	27	28
IS	9.3	125	126	125	120	119
NO	195.4	133	162	158	150	148
CH	284.9	146	135	131	132	131

Source : Eurostat, national sources

## General Economic Data

### Growth in GDP and Industrial Production

	Growth in GDP				Growth in Industrial Production			
	Real growth at constant 1995 prices %				(excluding construction) %			
	2000	2001	2002	2003	2000	2001	2002	2003
<b>BE</b>	3.8	0.6	0.7	1.1	5.2	-0.3	1.3	0.7
<b>CZ</b>	3.3	2.6	1.5	3.1	1.9	10.6	4.7	5.8
<b>DK</b>	2.8	1.6	1.0	0.5	5.7	1.3	1.4	0.3
<b>DE</b>	2.9	0.8	0.1	-0.1	5.6	0.2	-1.0	0.4
<b>EE</b>	7.8	6.4	7.2	5.1	15.0	8.5	8.5	10.3
<b>EL</b>	4.4	4.0	3.9	4.3	7.2	1.0	1.7	1.5
<b>ES</b>	4.2	2.8	2.0	2.4	4.4	-1.5	0.2	1.4
<b>FR</b>	3.8	2.1	1.2	0.5	4.2	1.1	-1.4	-0.3
<b>IE</b>	10.1	6.2	6.9	1.4	15.6	10.1	7.8	6.3
<b>IT</b>	3.0	1.8	0.4	0.3	4.1	-1.0	-1.6	-0.6
<b>CY</b>	5.0	4.0	2.0	2.0	4.5	1.9	4.3	2.3
<b>LV</b>	6.9	8.0	6.4	7.5	3.9	6.9	6.4	6.9
<b>LT</b>	3.9	6.4	6.8	9.0	2.2	16.0	3.1	16.1
<b>LU</b>	9.0	1.3	1.7	2.1	5.0	3.3	1.8	5.4
<b>HU</b>	5.2	3.8	3.5	2.9	19.6	3.9	3.3	6.1
<b>MT</b>	6.4	-1.2	1.7	0.4				
<b>NL</b>	3.5	1.2	0.2	-0.7	3.5	0.4	-0.3	-2.4
<b>AT</b>	3.4	0.8	1.4	0.7	9.0	2.8	0.9	1.9
<b>PL</b>	4.0	1.0	1.4	3.8	7.8	0.5	1.6	8.3
<b>PT</b>	3.4	1.8	0.5	-1.2	-0.2	3.1	-0.4	-0.1
<b>SI</b>	3.9	2.7	3.4	2.3	8.7	2.0	2.1	-1.9
<b>SK</b>	2.0	3.8	4.4	4.2	8.6	7.3	6.7	5.5
<b>FI</b>	5.1	1.1	2.3	1.9	11.8	0.1	2.1	0.8
<b>SE</b>	4.3	0.9	2.1	1.6	6.0	-0.5	-0.5	2.0
<b>UK</b>	3.9	2.3	1.8	2.2	1.9	-1.7	-2.5	-0.1
<b>EU25</b>	<b>3.6</b>	<b>1.7</b>	<b>1.1</b>	<b>0.9</b>	<b>4.8</b>	<b>0.2</b>	<b>-0.6</b>	<b>0.7</b>
<b>EU15</b>	<b>3.6</b>	<b>1.7</b>	<b>1.0</b>	<b>0.8</b>	<b>4.7</b>	<b>0.0</b>	<b>-0.8</b>	<b>0.3</b>
<b>BG</b>	5.4	4.1	4.9	4.3		2.1	4.6	15.0
<b>HR</b>								
<b>RO</b>	2.1	5.7	5.0	4.9	6.8	8.0	4.4	3.1
<b>TR</b>	7.4	-7.5	7.9	5.8				
<b>IS</b>	6.5	3.0	-0.6	1.9	5.5	18.4	3.8	-3.4
<b>NO</b>	2.8	2.7	1.4	0.4	3.0	-1.3	1.0	-4.1
<b>CH</b>	4.5	1.0	-0.5	-2.2	8.4	-0.7	-5.1	0.1

Source : Economic and Monetary Affairs DG, Eurostat

## Socio-economic Data

	Unemployment rate				Share of employment		
	%				2002 %		
	2000	2001	2002	2003	Agri- cul- ture	Indu- stry	Serv- ices
<b>BE</b>	6.9	6.7	7.5	8.2	2.4	21.7	76.0
<b>CZ</b>	8.7	8.0	7.3	7.8	4.8	39.7	55.5
<b>DK</b>	4.4	4.3	4.6	5.4	3.3	22.5	74.1
<b>DE</b>	7.8	7.8	8.7	9.7	2.4	27.8	69.7
<b>EE</b>	12.5	11.8	10.3	10.0	6.8	31.2	62.0
<b>EL</b>	11.0	10.4	10.0	9.3	16.1	23.8	60.0
<b>ES</b>	11.3	10.6	11.4	11.3	5.9	29.4	64.6
<b>FR</b>	9.1	8.4	9.2	9.3	4.1	22.0	73.9
<b>IE</b>	4.3	3.9	4.5	4.8	6.9	28.1	65.0
<b>IT</b>	10.4	9.4	9.0	8.7	4.6	29.2	66.2
<b>CY*</b>	5.2	4.4	3.3	4.1	9.5	22.3	68.2
<b>LV</b>	13.7	12.9	12.1	10.5	15.1	24.4	60.5
<b>LT</b>	16.4	16.4	13.7	12.4	17.6	27.5	54.9
<b>LU</b>	2.3	2.1	2.6	3.7	1.4	22.0	76.7
<b>HU</b>	6.3	5.6	5.8	5.9	6.2	34.1	59.7
<b>MT*</b>	7.0	6.7	6.9	7.6	1.9	26.1	72.0
<b>NL</b>	2.9	2.5	2.8	3.7	3.4	19.4	77.2
<b>AT</b>	3.7	3.6	4.0	4.2	13.2	24.0	62.8
<b>PL</b>	16.4	18.5	19.9	19.6	19.3	28.6	52.0
<b>PT</b>	4.1	4.0	5.0	6.3	12.4	33.8	53.8
<b>SI</b>	6.6	5.8	6.3	6.7	11.2	37.5	51.3
<b>SK</b>	18.7	19.4	18.7	17.6	5.0	34.5	60.5
<b>FI</b>	9.8	9.1	9.1	9.0	5.3	26.7	68.0
<b>SE</b>	5.6	4.9	5.1	5.7	2.4	23.3	74.4
<b>UK</b>	5.4	5.0	5.1	5.0	0.9	19.0	80.0
<b>EU25</b>	<b>8.7</b>	<b>8.5</b>	<b>8.9</b>	<b>9.1</b>	<b>5.4</b>	<b>26.0</b>	<b>68.7</b>
<b>EU15</b>	<b>7.8</b>	<b>7.4</b>	<b>7.7</b>	<b>8.1</b>	<b>4.1</b>	<b>25.0</b>	<b>70.9</b>
<b>BG</b>	16.4	19.2	18.2	13.7	24.9	27.8	47.3
<b>HR</b>	21.5	22.3	22.5	21.3	15.0	29.6	55.5
<b>RO</b>	6.8	6.6	8.4	7.0	35.1	30.7	34.3
<b>TR</b>	6.5	8.3	10.3	10.6	32.8	23.9	43.3
<b>IS</b>	2.3	2.3	3.3	3.4	7.3	23.0	69.7
<b>NO</b>	3.4	3.6	3.9	4.5	3.8	20.6	75.6
<b>CH</b>	2.7	2.6	3.2	4.1	4.1	23.9	72.0

Source : Eurostat, IMF, national sources

Notes : **CY** Share of employment : 1999

**MT** Share of employment : 1997

**Population**

at 1 January

million

	1970	1980	1990	2000	2003	2004
<b>BE</b>	9.66	9.86	9.95	10.24	10.36	10.40
<b>CZ</b>	9.91	10.32	10.36	10.28	10.20	10.21
<b>DK</b>	4.91	5.12	5.14	5.33	5.38	5.40
<b>DE</b>	78.27	78.18	79.11	82.16	82.54	82.55
<b>EE</b>	1.36	1.47	1.57	1.37	1.36	1.35
<b>EL</b>	8.78	9.58	10.12	10.90	11.02	11.05
<b>ES</b>	33.59	37.24	38.83	39.96	40.68	40.98
<b>FR</b>	50.53	53.73	56.58	58.75	59.63	59.90
<b>IE</b>	2.94	3.39	3.51	3.78	3.96	4.02
<b>IT</b>	53.69	56.39	56.69	57.68	57.32	57.48
<b>CY</b>	0.61	0.51	0.57	0.69	0.72	0.73
<b>LV</b>	2.35	2.51	2.67	2.38	2.33	2.32
<b>LT</b>	3.12	3.40	3.69	3.51	3.46	3.45
<b>LU</b>	0.34	0.36	0.38	0.43	0.45	0.45
<b>HU</b>	10.32	10.71	10.37	10.22	10.14	10.12
<b>MT</b>	0.30	0.32	0.35	0.38	0.40	0.40
<b>NL</b>	12.96	14.09	14.89	15.86	16.19	16.26
<b>AT</b>	7.46	7.55	7.64	8.00	8.07	8.09
<b>PL</b>	32.67	35.41	38.04	38.65	38.22	38.19
<b>PT</b>	8.70	9.71	9.92	10.20	10.41	10.48
<b>SI</b>	1.72	1.89	2.00	1.99	2.00	2.00
<b>SK</b>	4.54	4.96	5.29	5.40	5.38	5.38
<b>FI</b>	4.61	4.77	4.97	5.17	5.21	5.22
<b>SE</b>	8.00	8.30	8.53	8.86	8.94	8.97
<b>UK</b>	55.55	56.28	57.46	59.62	59.33	59.52
<b>EU25</b>	<b>406.87</b>	<b>426.08</b>	<b>438.64</b>	<b>451.83</b>	<b>453.68</b>	<b>454.90</b>
<b>EU15</b>	<b>339.97</b>	<b>354.57</b>	<b>363.72</b>	<b>376.96</b>	<b>379.48</b>	<b>380.76</b>
<b>BG</b>	8.46	8.85	8.77	8.19	7.85	7.80
<b>HR</b>	4.40	4.60	4.69	4.57	4.44	
<b>RO</b>	20.14	22.13	23.21	22.46	21.77	21.72
<b>TR</b>	35.61	44.44	56.20	67.46	70.80	71.88
<b>IS</b>	0.20	0.23	0.25	0.28	0.29	0.29
<b>NO</b>	3.86	4.08	4.23	4.48	4.55	4.58
<b>CH</b>	6.17	6.30	6.67	7.16	7.32	7.38
<b>LI</b>	0.02	0.03	0.03	0.03	0.03	0.03

Source : Eurostat

Notes : DE: population : includes DE-E: 1970=17.1,  
1980=16.7, 1990=16.1

CY: government-controlled area only

1.5

1.5

## Member States External Trade with the World

Value (billion €)

Year 2003

	Imports from:					
	World	EU15	Acce - ssion 10	Candi - date 4	EFTA	USA
<b>BE</b>	207.57	147.82	4.04	2.07	3.53	12.36
<b>CZ</b>	45.69	26.94	5.53	0.52	1.17	1.42
<b>DK</b>	50.77	35.01	2.17	0.52	4.00	1.57
<b>DE</b>	534.49	293.39	56.60	10.70	33.45	31.26
<b>EE</b>	5.73	3.07	0.65	0.04	0.11	0.18
<b>EL</b>	39.67	21.55	0.74	1.62	0.68	2.00
<b>ES</b>	184.41	123.91	3.48	2.19	4.11	5.52
<b>FR</b>	352.58	237.94	8.05	4.37	14.19	18.62
<b>IE</b>	47.63	29.30	0.56	0.22	1.08	7.44
<b>IT</b>	263.01	152.35	9.23	9.37	11.28	10.27
<b>CY</b>	3.58	2.08	0.04	0.04	0.05	0.16
<b>LV</b>	4.63	2.36	1.13	0.04	0.15	0.08
<b>LT</b>	8.53	3.77	0.99	0.11	0.18	0.26
<b>LU</b>	14.40	10.87	0.21	0.01	0.14	0.31
<b>HU</b>	42.26	23.25	3.41	0.99	0.64	1.36
<b>MT</b>	2.85	1.92	0.02	0.04	0.05	0.24
<b>NL</b>	234.00	122.99	4.87	2.09	8.21	18.63
<b>AT</b>	87.99	59.24	11.74	2.29	4.53	1.98
<b>PL</b>	60.35	36.89	4.84	1.09	1.79	1.58
<b>PT</b>	41.68	32.38	0.67	0.33	0.95	0.78
<b>SI</b>	12.24	8.23	1.02	0.68	0.22	0.30
<b>SK</b>	19.91	10.27	4.46	0.23	0.27	0.38
<b>FI</b>	37.58	23.61	2.04	0.20	1.35	1.39
<b>SE</b>	73.83	48.78	4.17	0.62	6.53	3.15
<b>UK</b>	346.50	184.15	8.27	5.10	13.79	36.20
<b>EU25</b>	2721.9	1642.1	138.9	45.5	112.4	157.4
<b>EU15</b>	2516.1	1523.3	116.8	41.7	107.8	151.5

Source : Eurostat

Notes:

**Accession 10:** Cyprus, Czech Rep., Estonia, Hungary,  
Latvia, Lithuania, Malta, Poland, Slovak Rep., Slovenia

**Candidate 4:** Bulgaria, Croatia, Romania, Turkey

**EFTA:** Iceland, Liechtenstein, Norway, Switzerland



# 1.5 Member States External Trade with the World

Value (billion €)

Year 2003

	Exports to:					
	World	EU15	Accession 10	Candidate 4	EFTA	USA
<b>BE</b>	225.89	168.10	5.60	2.74	3.49	15.19
<b>CZ</b>	43.05	30.06	7.09	0.98	0.78	1.05
<b>DK</b>	58.80	38.98	2.17	0.51	4.06	3.46
<b>DE</b>	664.39	369.77	56.56	15.67	31.11	61.65
<b>EE</b>	4.00	2.73	0.56	0.01	0.17	0.10
<b>EL</b>	12.07	5.71	1.01	1.56	0.15	0.77
<b>ES</b>	138.04	99.15	4.24	2.42	1.94	5.65
<b>FR</b>	346.57	217.53	11.64	5.82	12.56	23.21
<b>IE</b>	81.97	50.32	0.74	0.40	3.23	16.87
<b>IT</b>	264.62	144.63	15.60	11.65	11.22	21.97
<b>CY</b>	0.42	0.23	0.02	0.01	0.00	0.01
<b>LV</b>	2.56	1.58	0.45	0.00	0.08	0.07
<b>LT</b>	6.16	2.65	1.20	0.13	0.90	0.18
<b>LU</b>	11.77	10.20	0.28	0.05	0.26	0.23
<b>HU</b>	38.10	28.06	2.87	1.76	0.60	1.19
<b>MT</b>	1.99	0.93	0.04	0.00	0.01	0.31
<b>NL</b>	261.68	201.87	7.66	3.30	6.23	11.68
<b>AT</b>	85.88	52.79	10.45	3.21	4.76	4.19
<b>PL</b>	47.53	32.71	5.70	0.99	1.39	1.06
<b>PT</b>	28.07	22.29	0.40	0.22	0.53	1.60
<b>SI</b>	11.28	6.60	0.96	1.22	0.18	0.41
<b>SK</b>	19.30	11.73	4.61	0.49	0.26	1.02
<b>FI</b>	47.00	24.89	3.35	0.48	1.70	3.82
<b>SE</b>	90.26	48.69	4.03	1.05	8.80	10.37
<b>UK</b>	270.18	152.41	6.64	3.62	6.78	40.44
<b>EU25</b>	<b>2761.6</b>	<b>1724.6</b>	<b>153.9</b>	<b>58.3</b>	<b>101.2</b>	<b>226.5</b>
<b>EU15</b>	<b>2587.2</b>	<b>1607.3</b>	<b>130.4</b>	<b>52.7</b>	<b>96.8</b>	<b>221.1</b>

Source : Eurostat

Notes:

**Accession 10:** Cyprus, Czech Rep., Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovak Rep., Slovenia

**Candidate 4:** Bulgaria, Croatia, Romania, Turkey

**EFTA:** Iceland, Liechtenstein, Norway, Switzerland

## Comparison EU-25 - World

### General data (2002)

	EU-25	USA	Japan	China	Russia
<b>Population</b> million	453.0	287.7	127.1	1279.2	145.0
<b>Population growth</b> %	0.2	1.1	0.1	0.7	-0.5
<b>Urban population</b> % of total	80	80	65	39	73
<b>Area</b> million km <sup>2</sup>	3.97	9.36	0.38	9.56	17.08
<b>Population density</b> Persons/km <sup>2</sup>	114.1	30.7	334.5	133.8	8.5
<b>GDP (nominal)</b> € billion	9613	10980	4223	1339	365
<b>GDP per capita</b> (in PPP) EU-25= 100	100	148	113	20	37
<b>Exports (1)</b> € billion	883	733	441	344	113
<b>Imports (1)</b> € billion	941	1 269	357	312	68

**Source :** Eurostat, World Bank

**Notes :** (1): without intra-EU trade

# **Part 2 : ENERGY**

## **Chapter 2.1**

### **General Information**

## Glossary

**Conventional thermal power:**

Technology for the production of electricity by combustion. May or may not include also biomass use, which is also considered a renewable source of electricity.

**Energy Dependency:**

Energy dependency shows the extent to which a country relies upon imports in order to meet its energy needs. It is calculated using the following formula:

$\text{net imports} / (\text{gross inland consumption} + \text{bunkers})$ .

**Energy Intensity:**

Energy intensity gives an indication of the effectiveness with which energy is being used to produce added value. It is defined as the ratio of Gross Inland Consumption of energy to Gross Domestic Product.

**Final Energy Consumption (FEC):**

Final energy consumption is the energy finally consumed in the transport, industrial, commercial, agricultural, public and household sectors. It excludes deliveries to the energy transformation sector and to the energy industries themselves.

**Gross Calorific Value (GCV):**

The gross calorific value is the total amount of heat released by a unit quantity of fuel, when it is burned completely with oxygen, and when the products of combustion are returned to ambient temperature. This quantity includes the heat of condensation of any water vapour contained in the fuel and of the water vapour formed by the combustion of any hydrogen contained in the fuel.

**Gross Domestic Product (GDP):**

The gross domestic product is the value of the output of all goods and services produced within the borders of a country.

**Gross Inland Consumption (GIC):**

Gross inland consumption is the quantity of energy consumed within the borders of a country. It is calculated using the following formula:  $\text{primary production} + \text{recovered products} + \text{imports} + \text{stock changes} - \text{exports} - \text{bunkers}$  (i.e. quantities supplied to sea-going ships)

**Net Calorific Value (NCV):**

The net calorific value is the amount of heat released by a unit quantity of fuel, when it is burned completely with oxygen, and when the products of combustion are returned to ambient temperature. This quantity does not include the heat of condensation of any water vapour contained in the fuel nor of the water vapour formed by the combustion of any hydrogen contained in the fuel.

**Primary Energy Production:**

Primary energy production is the extraction of energy from a natural source. The precise definition depends on the fuel involved:

***Hard coal, lignite:***

Quantities of fuels extracted or produced, calculated after any operation for removal of inert matter. In general, production includes the quantities consumed by the producer during the production process (e.g. for heating or operation of equipment and auxiliaries) as well as any quantities supplied to other on-site producers of energy for transformation or other uses.

**Crude oil:**

Quantities of fuels extracted or produced within national boundaries, including off-shore production. Production includes only marketable production, and excludes any quantities returned to formation. Production includes all crude oil, natural gas liquids (NGL), condensates and oil from shale and tar sands, etc.

**Natural gas:**

Quantities of dry gas, measured after purification and extraction of natural gas liquids and sulphur. The production includes only marketable production, and excludes any quantities re-injected, vented and flared, and any extraction losses. The production includes all quantities used within the natural gas industry, in gas extraction, pipeline systems and processing plants.

**Nuclear heat:**

Quantities of heat produced in a reactor. Production is the actual heat produced or the heat calculated on the basis of the gross electricity generated and the thermal efficiency of the nuclear plant.

**Hydropower, Wind energy, Solar photovoltaic energy:**

Quantities of electricity generated. Production is calculated on the basis of the gross electricity generated and a conversion factor of 3600 kJ/kWh.

**Geothermal energy:**

Quantities of heat extracted from geothermal fluids. Production is calculated on the basis of the difference between the enthalpy of the fluid produced in the production borehole and that of the fluid

**Biomass / Wastes:**

In the case of municipal solid wastes (MSW), wood, wood wastes and other solid wastes, production is the heat produced after combustion and corresponds to the heat content (NCV) of the fuel. In the case of anaerobic digestion of wet wastes, production is the heat content (NCV) of the biogases produced. The production includes all quantities of gas consumed in the installation for the fermentation processes, and excludes all quantities of flared gases. In the case of biofuels, the production is the heat content (NCV) of the fuel. In the case of biofuels, the production is the heat content (NCV) of the fuel.

**Pumping, pumped storage:**

Method for storing electrical energy at hydroelectric installations by pumping water between reservoirs at different altitudes.

**Renewable Energy Sources (RES):**

Renewable energy includes hydroelectricity, biomass, wind, solar, tidal and geothermal energy.

**Tonne of oil equivalent (toe):**

The tonne of oil equivalent is a conventional standardised unit for measuring energy, defined on the basis of a tonne of oil with a net calorific value of 41 868 kilojoules/kg.

### Average Calorific Values, Energy Content

		<b>kJ (NCV)</b>	<b>kgoe (NCV)</b>
Hard coal	1 kg	17 200 - 30 700	0.411 - 0.733
Recovered hard coal	1 kg	13 800 - 28 300	0.330 - 0.676
Patent fuels	1 kg	26 800 - 31 400	0.640 - 0.750
Hard coke	1 kg	28 500	0.681
Brown coal	1 kg	5 600 - 10 500	0.134 - 0.251
Black lignite	1 kg	10 500 - 21 000	0.251 - 0.502
Peat	1 kg	7 800 - 13 800	0.186 - 0.330
Brown coal briquettes	1 kg	20 000	0.478
Tar	1 kg	37 700	0.900
Benzol	1 kg	39 500	0.943
Oil equivalent*	1 kg	41 868	1
Crude oil	1 kg	41 600 - 42 800	0.994 - 1.022
Feedstocks	1 kg	42 500	1.015
Refinery gas	1 kg	50 000	1.194
LPG	1 kg	46 000	1.099
Motor spirit	1 kg	44 000	1.051
Kerosenes, jet fuels	1 kg	43 000	1.027
Naphtha	1 kg	44 000	1.051
Gas diesel oil	1 kg	42 300	1.010
Residual fuel oil	1 kg	40 000	0.955
White spirit	1 kg	44 000	1.051
Lubricants	1 kg	42 300	1.010
Bitumen	1 kg	37 700	0.900
Petroleum cokes	1 kg	31 400	0.750
Other petro. products	1 kg	30 000	0.717
Natural gas	1 MJ (GCV)	900	0.0215
Coke-oven gas	1 MJ (GCV)	900	0.0215
Blast-furnace gas	1 MJ (GCV)	1 000	0.0239
Works gas	1 MJ (GCV)	900	0.0215
Nuclear energy	1 MJ (GCV)	1 000	0.0239
Biomass	1 MJ (GCV)	1 000	0.024
Solar energy	1 MJ (GCV)	1 000	0.024
Geothermal energy	1 MJ (GCV)	1 000	0.024
Hydro energy	1 kWh	3 600	0.086
Wind energy	1 kWh	3 600	0.086
Derived heat	1 MJ (GCV)	1 000	0.024
Electrical energy	1 kWh	3 600	0.086

## Conversion Factors

### Energy

To :		TJ	Gcal	Mtoe	GWh
		multiply by			
From :	TJ	1	238.8	$2.388 \times 10^{-5}$	0.2778
	Gcal	$4.1868 \times 10^{-3}$	1	$1 \times 10^{-7}$	$1.163 \times 10^{-3}$
	Mtoe	$4.1868 \times 10^4$	$1 \times 10^7$	1	11630
	GWh	3.6	860	$8.6 \times 10^{-5}$	1

### Volume

To :		Barrel	Litre	U.S. gallon	U.K. gallon
		multiply by			
From :	Barrel	1	158.99	42	34.9723
	Litre	$0.6290 \times 10^{-2}$	1	0.2642	0.2200
	U.S. gallon	$0.2381 \times 10^{-1}$	3.7854	1	0.8327
	U.K. gallon	$0.2859 \times 10^{-1}$	4.5461	1.2009	1

### Mass

To :		Tonne	Long ton	Short ton
		multiply by		
From :	Tonne (t)	1	0.9842	1.1023
	Long ton (lt) U.K.	1.0160	1	1.1200
	Short ton (st) U.S.	0.9072	0.8929	1

for crude oil, 1 tonne = 7.45 bbl, 1 Mio bbl / day = 49 Mio tonne / year

### Decimal prefixes

$10^1$	deca (da)	$10^{-1}$	deci (d)
$10^2$	hecto (h)	$10^{-2}$	centi (c)
$10^3$	kilo (k)	$10^{-3}$	milli (m)
$10^6$	mega (M)	$10^{-6}$	micro ( $\mu$ )
$10^9$	giga (G)	$10^{-9}$	nano (n)
$10^{12}$	tera (T)	$10^{-12}$	pico (p)
$10^{15}$	peta (P)	$10^{-15}$	femto (f)
$10^{18}$	exa (E)	$10^{-18}$	atto (a)

## Methodology for the calculation of EU-wide average fuel prices

All available price data has been used in the calculation of EU-wide fuel price averages. The overall EU price is an average of the prices in the individual countries weighted by their consumption.

### Electricity

The prices are as of January 1st in the year shown. Prices are collected at a variety of locations in each country.

The reference consumer used for domestic prices corresponds to a standard dwelling of 100 m<sup>2</sup> with 4-5 rooms plus kitchen with an annual consumption of 7500 kWh.

For industrial prices, the standard consumer's annual consumption is 24000MWh.

The average price in each country is calculated as the median of the prices in the various locations. These country average prices are weighted by their final consumption (Domestic or Industry) to have the EU-wide price average.

The domestic prices shown here are the final selling prices while industrial prices are shown less VAT.

### Gas

The same methodology is used for gas prices, but the standard used for domestic consumers corresponds to an annual consumption of 16.74 GJ while for industrial consumers this annual consumption is 418000 GJ.

### Petroleum Products

Heating gasoil, low sulphur fuel oil, unleaded petrol and automotive diesel prices are supplied to Energy and Transport DG by the Member States as those being the most frequently encountered for the specific categories of sales. The prices given are as of January 15th in each year.

The heating gasoil prices given are for deliveries of between 2000 and 5000 litres while those for low sulphur fuel oil are for monthly deliveries of less than 2000 tonnes or annual deliveries of less than 24000 tonnes. The average pump prices are given for motor fuels.

The EU average prices are calculated by weighting the prices from each country by the corresponding final energy consumption.



# **Part 2 : ENERGY**

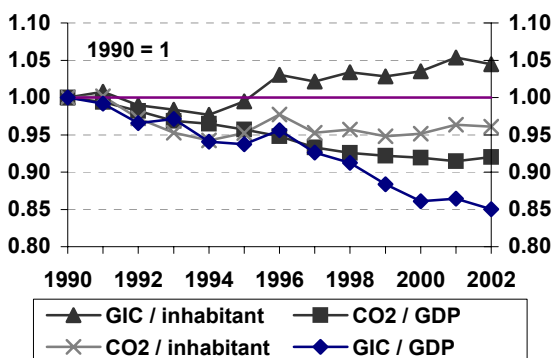
## **Chapter 2.2**

### **Overview**

### **and Security of Supply**

## Indicators (EU-25 aggregated)

	Energy Intensity (toe/Meuro) (*)	Carbon Intensity (tonne CO <sub>2</sub> /toe)	GIC per capita (kgoe/inh.)	CO <sub>2</sub> emissions per capita (kg/inhab.)
1990	245.6	2.43	3524	8566
1991	243.6	2.42	3552	8579
1992	237.2	2.39	3488	8327
1993	238.6	2.35	3468	8163
1994	231.0	2.35	3442	8074
1995	230.3	2.33	3507	8157
1996	234.9	2.30	3632	8370
1997	227.5	2.27	3600	8163
1998	224.1	2.25	3644	8198
1999	217.1	2.24	3625	8121
2000	211.5	2.23	3648	8152
2001	212.4	2.22	3714	8255
2002	208.8	2.24	3682	8233



Source: Eurostat

GIC = gross inland consumption

**Definition :**

carbon intensity = CO<sub>2</sub> emissions / gross inland consumption

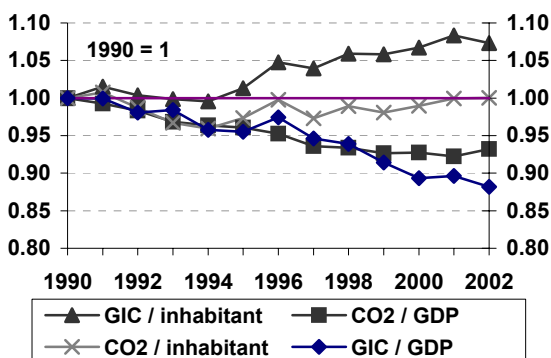
energy intensity

= gross inland consumption of energy / gross domestic product

\* **Note:** For GDP at 1995 prices

## Indicators (EU-15 aggregated)

	Energy Intensity (toe/Meuro) (*)	Carbon Intensity (tonne CO <sub>2</sub> /toe)	GIC per capita (kgoe/inh.)	CO <sub>2</sub> emissions per capita (kg/inhab.)
1990	216.4	2.33	3607	8408
1991	216.2	2.31	3661	8471
1992	212.1	2.29	3621	8298
1993	212.9	2.26	3602	8130
1994	207.2	2.25	3591	8068
1995	206.7	2.24	3655	8184
1996	210.8	2.22	3778	8390
1997	204.7	2.18	3750	8181
1998	203.1	2.18	3821	8316
1999	197.8	2.16	3817	8246
2000	193.3	2.16	3849	8321
2001	193.9	2.15	3908	8404
2002	190.8	2.17	3870	8411



Source: Eurostat

GIC = gross inland consumption

**Definition :**

carbon intensity = CO<sub>2</sub> emissions / gross inland consumption

energy intensity

= gross inland consumption of energy / gross domestic product

\* **Note:** For GDP at 1995 prices

## Gross Inland Consumption 2002 ( Mtoe )

	All fuels	Solid fuels	Oil	Natural gas	Nuclear	Renewables
<b>EU25</b>	1676.9	305.5	638.0	384.9	248.4	94.9
<b>EU15</b>	1475.4	217.7	589.8	345.5	230.6	85.3
<b>BE</b>	52.6	6.7	18.7	13.4	12.2	0.8
<b>CZ</b>	40.9	20.5	8.2	7.8	4.5	0.9
<b>DK</b>	19.8	4.2	8.7	4.6	-	2.5
<b>DE</b>	343.7	85.5	127.4	75.6	42.5	10.6
<b>EE</b>	5.0	2.8	1.1	0.6	-	0.5
<b>EL</b>	29.7	9.3	17.0	1.8	-	1.4
<b>ES</b>	129.9	21.7	65.6	18.8	16.3	7.0
<b>FR</b>	261.4	13.5	92.1	33.6	112.7	16.1
<b>IE</b>	15.2	2.6	8.6	3.7	-	0.3
<b>IT</b>	173.6	13.7	88.3	57.7	-	9.1
<b>CY</b>	2.4	0.0	2.3	-	-	0.0
<b>LV</b>	4.2	0.1	1.2	1.3	-	1.5
<b>LT</b>	8.7	0.1	2.6	2.2	3.6	0.7
<b>LU</b>	4.0	0.1	2.5	1.1	-	0.1
<b>HU</b>	25.2	3.6	6.3	10.8	3.6	0.4
<b>MT</b>	0.8	-	0.8	-	-	-
<b>NL</b>	78.2	8.4	29.6	35.8	1.0	1.7
<b>AT</b>	30.7	3.6	12.8	6.6	-	7.4
<b>PL</b>	88.8	54.8	19.9	10.1	-	4.2
<b>PT</b>	25.9	3.5	16.0	2.7	-	3.6
<b>SI</b>	6.9	1.6	2.4	0.8	1.4	0.8
<b>SK</b>	18.6	4.3	3.4	5.9	4.6	0.7
<b>FI</b>	35.1	6.5	10.2	3.7	5.8	7.8
<b>SE</b>	51.5	2.8	15.9	0.8	17.4	14.1
<b>UK</b>	224.1	35.7	76.5	85.7	22.7	2.8

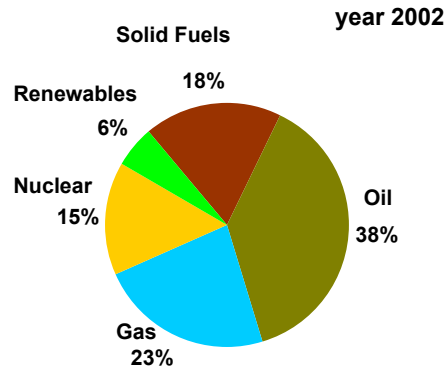
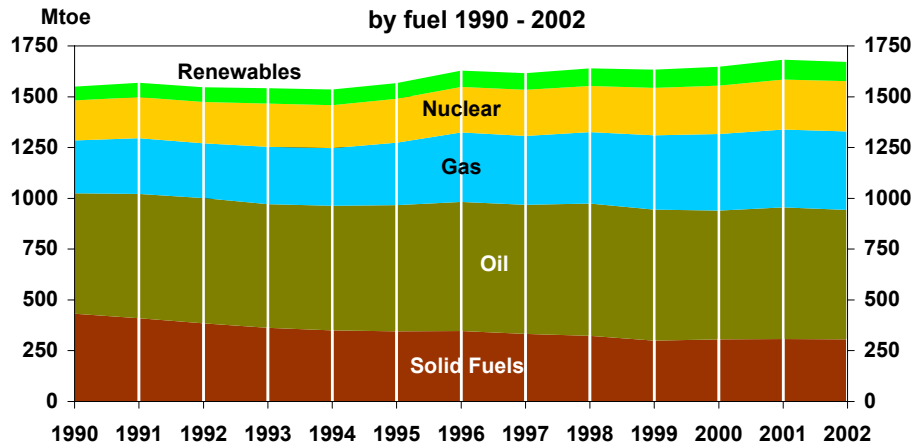
Source: Eurostat

## Gross Inland Consumption 2002, Renewables in 1000 toe

	Renewables	Biomass	Hydro	Wind	Solar	Geothermal
<b>EU25</b>	94 936	62 110	25 574	3 070	498	3 684
<b>EU15</b>	85 266	53 912	24 159	3 064	461	3 670
<b>BE</b>	819	780	31	5	2	1
<b>CZ</b>	853	639	214	-	-	-
<b>DK</b>	2 475	2 043	3	419	8	2
<b>DE</b>	10 605	7 093	1 988	1 363	151	10
<b>EE</b>	523	522	1	-	-	-
<b>EL</b>	1 396	996	241	56	102	1
<b>ES</b>	6 953	4 175	1 981	748	41	8
<b>FR</b>	16 091	10 689	5 254	23	19	107
<b>IE</b>	288	176	78	33	0	0
<b>IT</b>	9 126	2 131	3 398	121	11	3 464
<b>CY</b>	45	10	-	-	35	-
<b>LV</b>	1 497	1 284	212	1	-	-
<b>LT</b>	689	659	30	-	-	-
<b>LU</b>	56	44	10	2	0	-
<b>HU</b>	424	400	17	-	2	6
<b>MT</b>	-	-	-	-	-	-
<b>NL</b>	1 744	1 642	9	78	14	-
<b>AT</b>	7 422	3 885	3 433	17	69	17
<b>PL</b>	4 167	3 960	196	5	-	6
<b>PT</b>	3 619	2 838	671	31	20	60
<b>SI</b>	757	465	293	-	-	-
<b>SK</b>	714	259	453	-	-	2
<b>FI</b>	7 808	6 876	927	6	0	-
<b>SE</b>	14 050	8 268	5 724	52	6	-
<b>UK</b>	2 813	2 276	411	108	17	1

Source: Eurostat

# Gross Inland Consumption



2.2.2

2.2.2

## Import Dependency 2002 ( in % )

	All fuels	Solid fuels	Oil	Gas
<b>EU25</b>	48.0	33.2	76.8	51.3
<b>EU15</b>	50.2	53.2	75.5	47.3
<b>BE</b>	76.4	86.2	98.8	102.1
<b>CZ</b>	26.6	-18.6	95.2	102.0
<b>DK</b>	-41.1	88.6	-94.9	-64.5
<b>DE</b>	60.5	29.6	95.0	79.5
<b>EE</b>	29.2	2.7	75.2	100.0
<b>EL</b>	70.7	6.9	102.5	97.4
<b>ES</b>	78.3	66.3	101.2	101.0
<b>FR</b>	50.3	92.7	99.2	98.3
<b>IE</b>	89.3	70.2	101.1	81.6
<b>IT</b>	86.7	95.6	94.7	84.1
<b>CY</b>	100.5	120.4	102.1	-
<b>LV</b>	54.6	76.1	98.5	88.6
<b>LT</b>	42.7	97.8	74.8	100.0
<b>LU</b>	99.0	100.0	100.6	100.0
<b>HU</b>	58.2	24.7	73.7	80.6
<b>MT</b>	100.0	-	100.0	-
<b>NL</b>	33.8	97.2	91.3	-51.5
<b>AT</b>	66.0	91.4	95.1	71.5
<b>PL</b>	11.3	-28.5	97.1	66.1
<b>PT</b>	84.2	99.9	96.7	99.9
<b>SI</b>	49.9	20.6	100.0	99.4
<b>SK</b>	65.3	77.3	97.2	100.1
<b>FI</b>	52.6	61.0	93.9	100.0
<b>SE</b>	37.5	80.3	95.2	100.0
<b>UK</b>	-12.8	48.9	-50.9	-8.1

Source: Eurostat

Definition: Import Dependency =  

$$\text{Net Imports} / (\text{Bunkers} + \text{Gross Inland Consumption})$$

Note:

A simplified formula, not taking bunkers into account, is used occasionally. This variant gives higher values for import dependency by overlooking maritime transport.

Negative numbers indicate that the country is a net exporter.

Values over 100 % are possible due to changes in stocks.

### Crude Oil Imports EU-15 ( in Mio tonnes )

Origin	2000	2001	2002	2003*	Share 2002(%)
Former USSR	89.5	101.2	123.2	140.1	26.0
Norway	114.8	107.2	101.6	104.5	21.5
Saudi Arabia	65.1	57.5	53.1	61.2	11.2
Libya	45.5	43.1	38.8	44.9	8.2
Iran	35.5	31.4	25.9	34.9	5.5
Middle East not spec.	13.1	18.7	19.6	11.9	4.1
Other origin	121.5	122.0	110.7	94.5	23.4
<b>Total Imports</b>	<b>485.0</b>	<b>481.1</b>	<b>472.9</b>	<b>492.0</b>	<b>100.0</b>
in Million barrels	3540.5	3511.8	3452.2	3591.4	

### Gas Imports EU-15 ( in Mio cubic metres )

Origin	2000	2001	2002	2003*	Share 2002(%)
Russia	78 484	73 909	68 807	74 169	32.7
Norway	46 714	49 925	61 351	64 746	29.1
Algeria	56 644	50 364	53 162	54 431	25.2
non spec. origin	6 808	8 575	15 966	43 171	7.6
Nigeria	4 283	5 369	6 276	9 013	3.0
Qatar	293	646	2 070	1 893	1.0
Other origins	1 857	2 457	2 972	1 666	1.4
<b>Total Imports</b>	<b>195 083</b>	<b>191 245</b>	<b>210 604</b>	<b>249 089</b>	<b>100.0</b>

Source: Organisation for Economic Co-operation and Development

Note \* : Estimates based on monthly statistics



## Imports of Hard Coal to the EU-15 ( in kilotonnes )

Hard Coal Total					
Origin	1990	2000	2002	2003	2002 %
Total extra EU15	127 501	170 006	179 198	190 559	100.0
South Africa	24 590	41 508	50 433	55 945	28.1
Australia	18 515	28 363	27 447	30 295	15.3
Poland(*)	13 325	19 167	18 310	16 191	10.2
Colombia	9 119	22 309	18 061	23 042	10.1
Russian Fed.	1 472	9 767	16 378	19 357	9.1
United States	46 752	19 343	13 825	11 564	7.7
Indonesia	241	8 664	10 357	12 017	5.8
Other	13 487	20 885	24 387	22 148	13.6

Coking Coal					
Origin	1990	2000	2002	2003	2002 %
Total extra EU15	44 290	44 520	38 334	38 662	100.0
Australia	8 725	18 965	17 910	18 612	46.7
United States	26 422	14 699	9 371	9 421	24.4
Canada	2 761	6 225	5 182	3 588	13.5
Poland(*)	2 570	1 881	1 653	1 592	4.3
Czech Republic	774	1 187	1 256	1 293	3.3
Venezuela	0	418	1 117	1 109	2.9
China	1	2	531	242	1.4
Other	3 037	1 143	1 314	2 805	3.4

Steam Coal					
Origin	1990	2000	2002	2003	2002 %
Total extra EU15	83 211	125 486	140 864	151 897	100.0
South Africa	24 432	41 120	49 982	55 558	35.5
Colombia	9 095	22 169	17 975	22 767	12.8
Poland(*)	10 755	17 286	16 657	14 599	11.8
Russian Fed.	0	9 593	15 931	18 941	11.3
Indonesia	195	8 223	10 357	12 006	7.4
Australia	9 790	9 398	9 537	11 683	6.8
Non-Specified	3 007	4 902	6 585	5 941	4.7
Other	25 937	12 795	13 840	10 402	9.8

(\*) from May 2004 onwards, Member State of the EU

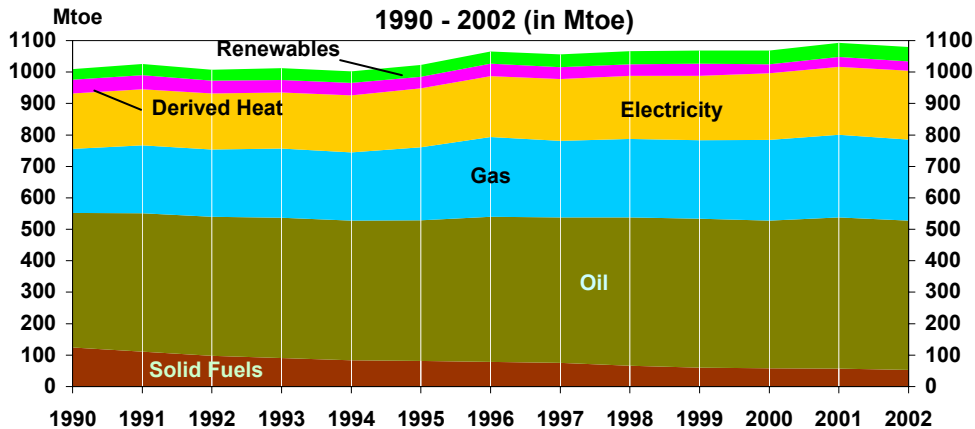
Source: Organisation for Economic Co-operation and Development  
(2003 figures are estimates)

## Final Energy Consumption by fuel 2002 ( Mtoe )

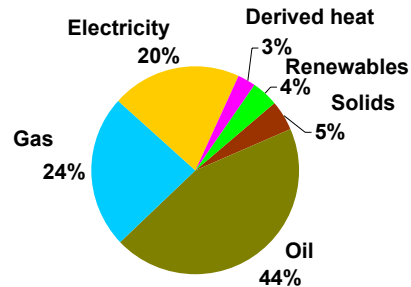
	All fuels	Solid fuels	Oil	Gas	Electricity	Derived heat	Renewables
<b>EU25</b>	1080	52	475	258	218	30	45
<b>EU15</b>	957	34	440	231	198	16	38
<b>BE</b>	35.8	2.4	15.5	10.3	6.7	0.5	0.4
<b>CZ</b>	23.8	3.8	5.7	6.9	4.4	2.6	0.4
<b>DK</b>	14.7	0.2	6.9	1.7	2.8	2.4	0.8
<b>DE</b>	210.5	9.8	96.2	56.5	42.9	-	5.1
<b>EE</b>	2.6	0.1	0.9	0.2	0.5	0.5	0.4
<b>EL</b>	19.5	0.7	13.3	0.3	4.0	0.0	1.1
<b>ES</b>	85.3	1.8	48.2	14.1	17.8	-	3.5
<b>FR</b>	151.3	5.4	73.8	29.4	33.8	-	8.9
<b>IE</b>	11.0	0.5	7.3	1.2	1.9	-	0.2
<b>IT</b>	124.5	3.2	57.2	37.9	24.3	-	1.9
<b>CY</b>	1.6	0.0	1.3	-	0.3	-	0.0
<b>LV</b>	3.7	0.1	1.1	0.4	0.4	0.6	1.0
<b>LT</b>	3.9	0.1	1.4	0.4	0.6	0.8	0.6
<b>LU</b>	3.7	0.1	2.5	0.6	0.5	0.0	0.0
<b>HU</b>	16.5	0.7	4.3	7.1	2.7	1.3	0.4
<b>MT</b>	0.4	-	0.3	-	0.2	-	-
<b>NL</b>	50.6	1.4	16.9	21.0	8.6	2.6	0.2
<b>AT</b>	23.9	0.6	10.7	3.5	4.6	1.2	3.2
<b>PL</b>	54.4	12.3	15.1	7.5	8.2	7.1	3.8
<b>PT</b>	18.3	0.2	10.7	1.2	3.6	0.2	2.5
<b>SI</b>	4.6	0.1	2.3	0.6	1.0	0.2	0.4
<b>SK</b>	11.1	1.5	2.3	4.1	1.9	1.0	0.2
<b>FI</b>	25.5	1.1	8.0	1.4	6.9	3.2	5.0
<b>SE</b>	33.6	1.3	11.3	0.7	11.3	4.0	4.9
<b>UK</b>	149.0	4.8	61.8	51.2	28.6	1.9	0.6

Source: Eurostat

## Final Energy Consumption by fuel



year 2002

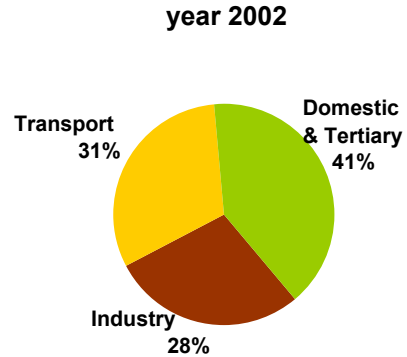
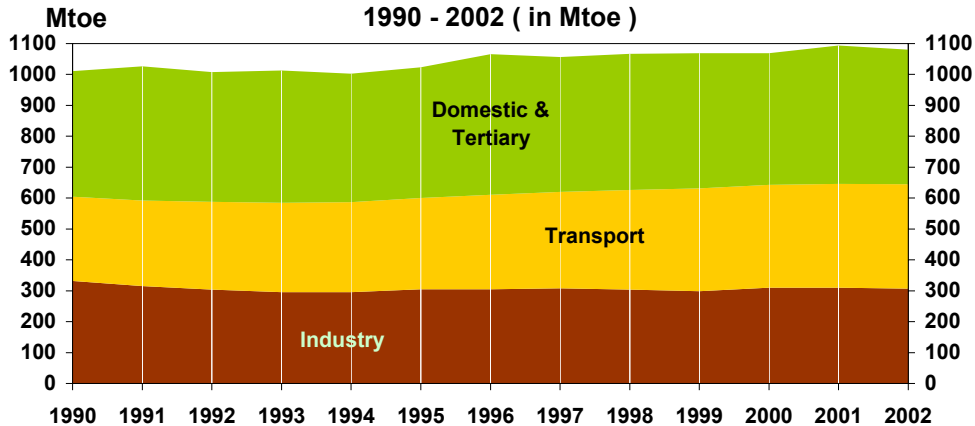


## Final Energy Consumption by sector 2002 ( Mtoe )

	All sectors	- Industry	- Households, Commerce, etc.	Households	Services	- Transport	Road	Railways	Air	Inland navigation
<b>EU25</b>	1080	307	435	274	106	338	281	9	43	5
<b>EU15</b>	957	269	375	237	106	313	259	7	42	5
<b>BE</b>	35.8	12.7	13.5	9.3	3.6	9.6	8.0	0.2	1.3	0.2
<b>CZ</b>	23.8	9.7	9.0	5.3	-	5.1	4.7	0.3	0.2	0.0
<b>DK</b>	14.7	2.9	7.1	4.2	1.9	4.7	3.7	0.1	0.7	0.1
<b>DE</b>	210.5	55.6	90.7	60.4	22.8	64.1	55.0	1.9	7.0	0.2
<b>EE</b>	2.6	0.5	1.4	1.0	-	0.7	0.6	0.1	0.0	0.0
<b>EL</b>	19.5	4.5	7.6	4.9	1.5	7.5	5.6	0.1	1.2	0.6
<b>ES</b>	85.3	28.2	22.4	12.8	7.2	34.7	28.1	0.9	4.3	1.4
<b>FR</b>	151.3	36.9	63.0	37.6	21.8	51.4	42.8	1.3	6.5	0.8
<b>IE</b>	11.0	2.2	4.4	2.6	1.5	4.4	3.5	0.0	0.8	0.0
<b>IT</b>	124.5	38.9	43.3	27.3	12.4	42.4	38.1	0.9	3.2	0.2
<b>CY</b>	1.6	0.4	0.4	0.2	-	0.9	0.6	0.0	0.3	-
<b>LV</b>	3.7	0.7	2.1	1.4	-	0.9	0.8	0.1	0.0	0.0
<b>LT</b>	3.9	0.7	2.0	1.4	-	1.2	1.1	0.1	0.0	0.0
<b>LU</b>	3.7	0.9	0.7	0.6	0.1	2.1	1.7	0.0	0.4	-
<b>HU</b>	16.5	3.7	9.3	5.6	-	3.5	3.1	0.2	0.2	0.0
<b>MT</b>	0.4	0.1	0.1	0.1	-	0.3	0.2	-	0.1	-
<b>NL</b>	50.6	13.7	22.4	10.1	7.2	14.6	10.7	0.2	3.4	0.3
<b>AT</b>	23.9	6.4	10.3	7.0	2.3	7.2	6.3	0.3	0.5	0.0
<b>PL</b>	54.4	16.6	28.9	18.1	-	9.0	8.0	0.5	0.4	0.0
<b>PT</b>	18.3	5.8	5.4	3.1	1.8	7.1	6.2	0.1	0.7	0.1
<b>SI</b>	4.6	1.3	1.9	1.2	-	1.4	1.3	0.0	0.0	-
<b>SK</b>	11.1	4.3	5.1	3.0	-	1.7	1.7	0.1	-	-
<b>FI</b>	25.5	12.1	8.9	5.2	1.7	4.5	3.8	0.1	0.5	0.2
<b>SE</b>	33.6	13.2	12.3	7.6	4.1	8.0	6.8	0.3	0.8	0.1
<b>UK</b>	149.0	35.0	63.0	44.0	16.2	51.0	38.8	1.1	10.4	0.6

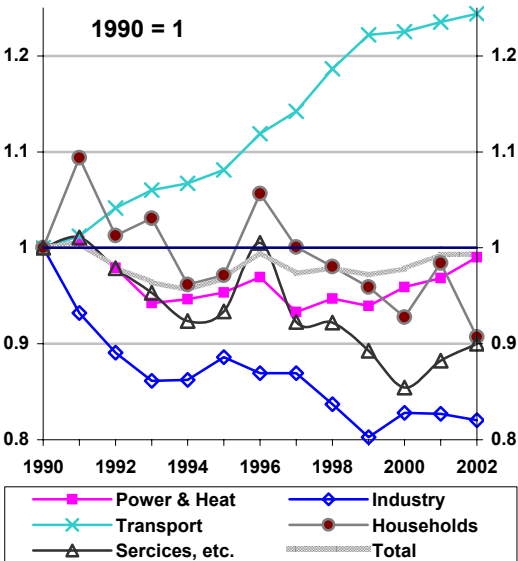
Source: Eurostat

## Final Energy Consumption by sector (in Mtoe)



### CO<sub>2</sub> Emissions from Energy (EU-25, Million tonnes CO<sub>2</sub>)

	Total	Power & Heat Generation *	Industry	Transport	of which Road	Households	Services & other
1990	3 775	1 487	723	793	675	500	273
1991	3 796	1 497	674	802	684	547	276
1992	3 699	1 456	644	826	705	506	267
1993	3 639	1 401	623	840	716	515	260
1994	3 609	1 407	623	846	718	481	252
1995	3 655	1 417	640	857	726	486	255
1996	3 759	1 441	628	887	750	528	274
1997	3 673	1 387	628	905	765	500	252
1998	3 695	1 408	605	941	790	490	252
1999	3 668	1 397	580	968	812	480	243
2000	3 692	1 426	598	971	811	464	233
2001	3 749	1 440	598	979	825	492	241
2002	3 750	1 472	593	986	835	454	246



Source: Eurostat

\* Note: Includes "own use" by power and heat generation sector

# **Part 2 : ENERGY**

## **Chapter 2.3**

### **Taxation and Market Opening**

## Taxation of energy products

	Excises in € per 1000 litres			VAT rates		
	Euro Super 95	automotive gas oil	heating gas oil	standard rate	electricity	natural gas
<b>BE</b>	536	330	18	21%	21%	21%
<b>CY</b>	298	244	244	15%	15%	15%
<b>CZ</b>	368	309	309	19%	19%	19%
<b>DK</b>	547	370	282	25%	25%	25%
<b>DE</b>	655	470	61	16%	16%	16%
<b>EL</b>	296	245	245	18%	8%	8%
<b>ES</b>	396	294	85	16%	16%	16%
<b>EE</b>	288	245	27	18%	18%	18%
<b>FR</b>	589	417	57	19.6%	19.6%	19.6%
<b>HU</b>	398	332	332	25%	25%	25%
<b>IE</b>	443	368	52	21%	14%	14%
<b>IT</b>	559	403	403	20%	10%	10%
<b>LV</b>	267	227	20	18%	18%	18%
<b>LT</b>	288	246	21	18%	18%	18%
<b>LU</b>	442	253	10	15%	6%	6%
<b>MT</b>	313	248	14	18%	5%	[-]/15**
<b>NL</b>	665	380	203	19%	19%	19%
<b>AT</b>	425	310	106	20%	20%	20%
<b>PL</b>	324	232	41	22%	22%	22%
<b>PT</b>	523	308	90	19%	5%	5%
<b>SK</b>	384	359	18	19%	19%	19%
<b>SI</b>	354	298	54	20%	20%	20%
<b>FI</b>	597	347	72	22%	22%	22%
<b>SE</b>	525	365	365	25%	25%	25%
<b>UK</b>	705	705	63	17.5%	5.0%	5.0%
<b>EU min*</b>	359	302	21	15%	15%	15%

Source: Commission services (01/09/2004)

\* Council Directives 2003/96/EC for excises, 2001/41/EC for VAT

\*\* If supplied by Public Authority:

outside the scope; in cylinders: 15%

Note:

IE, LU, PT and UK apply reduced VAT rates to some oil products  
France applies 5.5 % to the fixed connection charge for electricity  
and gas (abonnement)



## Electricity Market Opening

	Market opening 2004	Unbundling transmission	Unbundling distribution	Regulator
<b>BE</b>	80%	Legal	Legal	ex-ante
<b>CY</b>	0%	Management	None	ex-ante
<b>CZ</b>	30%	Legal	Accounts	ex-ante
<b>DK</b>	100%	Legal	Legal	ex-ante
<b>DE</b>	100%	Legal	Accounts	planned
<b>EL</b>	34%	Legal / Mgmt	Accounts	ex-ante
<b>ES</b>	100%	Ownership	Legal	ex-ante
<b>EE</b>	10%	Accounts	Accounts	ex-ante
<b>FR</b>	37%	Management	Accounts	ex-ante
<b>HU</b>	30%	Accounts	Accounts	not known
<b>IE</b>	56%	Legal / Mgmt	Management	ex-ante
<b>IT</b>	66%	Ownsh. / Legal	Legal	ex-ante
<b>LV</b>	11%	Legal	Legal	ex-ante
<b>LT</b>	17%	Legal	Legal	ex-ante
<b>LU</b>	57%	Management	Accounts	ex-ante
<b>MT</b>	0%	Derogation	None	not known
<b>NL</b>	63%	Ownership	Management	ex-ante
<b>AT</b>	100%	Legal	Accounts	ex-ante
<b>PL</b>	51%	Management	Accounts	ex-ante
<b>PT</b>	45%	Legal	Accounts	ex-ante
<b>SK</b>	41%	Legal	Legal	ex-ante
<b>SI</b>	64%	Legal	Accounts	ex-ante
<b>FI</b>	100%	Ownership	Accounts	ex-post
<b>SE</b>	100%	Ownership	Legal	ex-post
<b>UK</b>	100%	Ownership	Legal	ex-ante

**Source:** DGTREN Draft Working Paper 01.03.2004

**Note:**

Directive 2003/54/EC of 26 June 2003, requires opening to all non-household customers by July 2004, and to all customers by July 2007.

**Unbundling:** see article 19 of Directive 2003/54/EC

## Gas Market Opening

	Market opening 2004	Unbundling transmission	Unbundling distribution	Regulator
<b>BE</b>	83%	Legal	Legal	ex-ante
<b>CY</b>				
<b>CZ</b>	0%	Accounts	Accounts	ex-ante
<b>DK</b>	100%	Ownership	Legal	ex-post
<b>DE</b>	100%	Management	Accounts	planned
<b>EL</b>				
<b>ES</b>	100%	Legal	Legal	ex-ante
<b>EE</b>	80%	None	None	ex-ante
<b>FR</b>	37%	Accounts	Accounts	ex-ante
<b>HU</b>	0%	Legal	Accounts	ex-ante
<b>IE</b>	85%	Management	Management	ex-ante
<b>IT</b>	100%	Legal	Legal	ex-ante
<b>LV</b>	0%	Legal	Legal	ex-ante
<b>LT</b>	80%	Accounts	Accounts	ex-ante
<b>LU</b>	72%	Management	Management	ex-ante
<b>MT</b>				
<b>NL</b>	60%	Management	Legal	ex-ante
<b>AT</b>	100%	Legal	Legal	ex-ante
<b>PL</b>	34%	Accounts	Accounts	ex-ante
<b>PT</b>				
<b>SK</b>	33%	Legal	Legal	ex-ante
<b>SI</b>	50%	Accounts	Accounts	ex-ante
<b>FI</b>				
<b>SE</b>	51%	Accounts	Accounts	ex-post
<b>UK</b>	100%	Ownership	Ownership	ex-ante

**Source:** DG TREN Draft Working Paper 01.03.2004

**Notes :**

Finland, Greece and Portugal qualify as emergent markets and are entitled to substantial derogation.

Directive 2003/55/EC of 26 June 2003, requires opening to all non-household customers by July 2004, and to all customers by July 2007.

**Unbundling:** see article 17 of Directive 2003/55/EC

# **Part 2 : ENERGY**

## **Chapter 2.4**

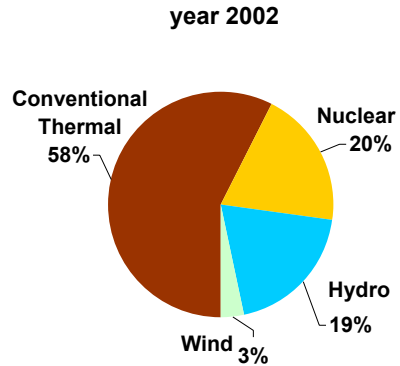
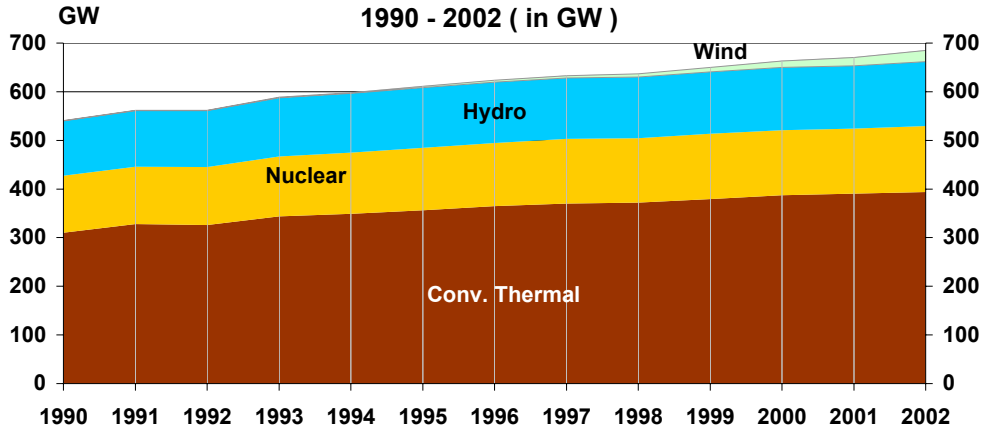
### **Electricity**

## Electricity Production Capacity 2002 ( in GW )

	<u>Total</u>	Conventional Thermal	Nuclear	Hydro	of which: pumping	Wind	Geothermal
<b>EU25</b>	685 605	393 761	135 994	132 119	30 860	23 051	680
<b>EU15</b>	605 157	334 624	125 072	121 783	27 549	22 998	680
<b>BE</b>	15 546	8 341	5 761	1 413	1 164	31	-
<b>CZ</b>	16 304	11 399	2 760	2 145	1 145	-	-
<b>DK</b>	13 293	10 396	-	11	-	2 886	-
<b>DE</b>	124 980	81 092	23 403	8 484	3 519	12 001	-
<b>EE</b>	2 180	2 180	-	-	-	-	-
<b>EL</b>	11 553	8 188	-	3 078	699	287	-
<b>ES</b>	60 195	29 941	7 577	17 879	2 518	4 798	-
<b>FR</b>	115 917	27 278	63 273	25 235	4 302	131	-
<b>IE</b>	5 429	4 760	-	531	292	138	-
<b>IT</b>	79 744	54 521	-	23 777	6 957	780	666
<b>CY</b>	1 004	1 004	-	-	-	-	-
<b>LV</b>	2 134	583	-	1 530	-	21	-
<b>LT</b>	6 568	2 652	3 000	916	800	-	-
<b>LU</b>	1 596	443	-	1 138	1 100	15	-
<b>HU</b>	8 513	6 599	1 866	48	-	-	-
<b>MT</b>	1 987	1 987	-	-	-	-	-
<b>NL</b>	20 800	19 635	449	38	-	678	-
<b>AT</b>	18 021	6 178	-	11 702	3 568	141	-
<b>PL</b>	30 841	28 576	-	2 233	1 366	32	-
<b>PT</b>	11 239	6 448	-	4 587	597	190	14
<b>SI</b>	2 953	1 338	656	959	-	-	-
<b>SK</b>	7 964	2 819	2 640	2 505	-	-	-
<b>FI</b>	16 566	10 888	2 671	2 964	-	43	-
<b>SE</b>	33 218	6 853	9 452	16 568	45	345	-
<b>UK</b>	77 060	59 662	12 486	4 378	2 788	534	-

Source: Eurostat

## Electricity Production Capacity



## Electricity from Renewable Sources

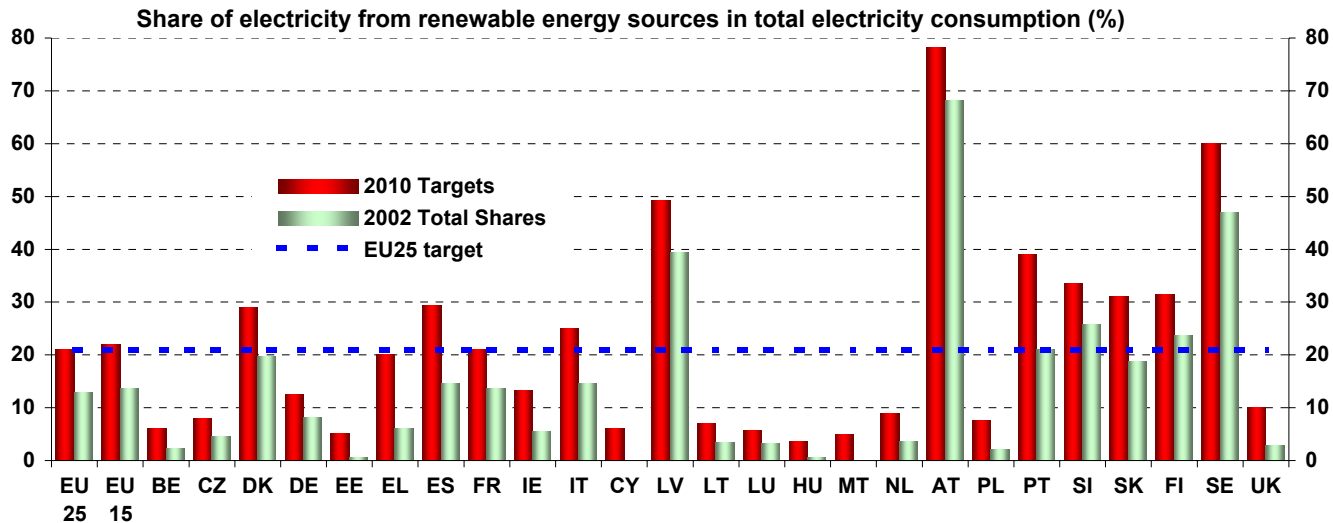
Share in gross consumption of electricity  
2002 ( in % )

	2010 TARGET	2002 Total Share	Hydro*	Wind	Biomass	Geothermal
<b>EU25</b>	21.0	12.9	9.9	1.2	1.6	0.2
<b>EU15</b>	22.0	13.7	10.4	1.3	1.8	0.2
<b>BE</b>	6.0	2.3	0.4	0.1	1.9	-
<b>CZ</b>	8.0	4.6	3.9	-	0.8	-
<b>DK</b>	29.0	19.8	0.1	13.1	6.6	-
<b>DE</b>	12.5	8.1	4.0	2.7	1.3	-
<b>EE</b>	5.1	0.5	0.1	-	0.4	-
<b>EL</b>	20.1	6.1	4.9	1.1	-	-
<b>ES</b>	29.4	14.6	9.3	3.5	1.8	-
<b>FR</b>	21.0	13.6	12.8	0.1	0.7	-
<b>IE</b>	13.2	5.5	3.6	1.5	0.3	-
<b>IT</b>	25.0	14.7	12.1	0.4	0.7	1.4
<b>CY</b>	6.0	-	-	-	-	-
<b>LV</b>	49.3	39.3	39.0	0.2	0.2	-
<b>LT</b>	7.0	3.3	3.3	-	0.0	-
<b>LU</b>	5.7	3.2	1.8	0.4	1.0	-
<b>HU</b>	3.6	0.7	0.5	-	0.2	-
<b>MT</b>	5.0	-	-	-	-	-
<b>NL</b>	9.0	3.6	0.1	0.8	2.7	-
<b>AT</b>	78.1	68.3	65.4	0.3	2.6	-
<b>PL</b>	7.5	2.1	1.7	0.0	0.4	-
<b>PT</b>	39.0	21.0	16.4	0.8	3.6	0.2
<b>SI</b>	33.6	25.9	25.1	-	0.8	-
<b>SK</b>	31.0	18.8	18.8	-	-	-
<b>FI</b>	31.5	23.7	12.4	0.1	11.2	-
<b>SE</b>	60.0	47.0	44.0	0.4	2.6	-
<b>UK</b>	10.0	2.9	1.2	0.3	1.3	-

Sources : Eurostat and Directive 2001/77/EC on the promotion of electricity produced from renewable energy sources in the internal electricity market.

Some targets involve further definitions, please see Annex of Directive 2001/77/EC.

\* Note: Does not include pumped storage



## Gross Electricity Generation 2002 ( in TWh )

	Total	Conventional Thermal	Coal	Oil	Gas	Other	Nuclear	Pumped Storage	Renewables (*)
<b>EU25</b>	3018	1635	895	186	543	11	964	32	387
<b>EU15</b>	2678	1386	687	173	517	9	894	29	369
<b>BE</b>	82.1	31.5	10.0	1.0	20.5	-	47.4	1.1	2.1
<b>CZ</b>	76.3	54.3	50.0	0.4	3.7	0.2	18.7	0.4	3.0
<b>DK</b>	39.2	31.9	18.3	4.0	9.6	0.0	-	-	7.4
<b>DE</b>	571.6	355.4	284.5	4.3	61.1	5.4	164.8	4.7	46.7
<b>EE</b>	8.5	8.5	7.7	0.0	0.7	-	-	-	0.0
<b>EL</b>	54.6	50.5	34.6	8.6	7.1	0.2	-	0.7	3.5
<b>ES</b>	246.1	143.5	81.2	28.6	33.7	0.1	63.0	3.4	36.2
<b>FR</b>	558.8	51.8	22.3	9.0	20.5	-	436.8	5.3	64.9
<b>IE</b>	25.2	23.5	8.9	3.7	10.8	-	-	0.4	1.4
<b>IT</b>	284.4	228.7	35.4	87.8	104.4	1.1	-	7.7	48.0
<b>CY</b>	3.8	3.8	-	3.8	-	-	-	-	-
<b>LV</b>	4.0	1.5	0.0	0.1	1.3	-	-	-	2.5
<b>LT</b>	17.7	2.8	-	0.7	1.9	0.1	14.1	0.4	0.4
<b>LU</b>	3.7	2.6	-	-	2.6	0.0	-	0.9	0.2
<b>HU</b>	36.2	21.9	9.0	2.1	10.8	-	14.0	-	0.3
<b>MT</b>	2.0	2.0	-	2.0	-	-	-	-	-
<b>NL</b>	96.0	88.0	23.9	2.8	59.9	1.3	3.9	-	4.0
<b>AT</b>	62.5	18.7	6.6	1.6	10.2	0.3	-	2.1	41.7
<b>PL</b>	144.1	139.6	133.0	2.4	3.9	0.3	-	1.6	2.9
<b>PT</b>	46.1	35.7	15.2	11.4	9.0	0.0	-	0.5	10.0
<b>SI</b>	14.7	5.7	5.3	0.1	0.3	-	5.5	-	3.5
<b>SK</b>	32.4	9.0	3.7	0.7	2.9	1.7	18.0	0.2	5.3
<b>FI</b>	74.9	32.0	19.1	0.6	12.0	0.4	22.3	-	20.6
<b>SE</b>	146.1	7.3	2.4	2.9	1.9	0.2	67.6	0.0	71.1
<b>UK</b>	387.1	285.1	124.3	6.9	153.8	0.1	88.0	2.7	11.3

Source: Eurostat

(\*) not including hydro from pumped storage



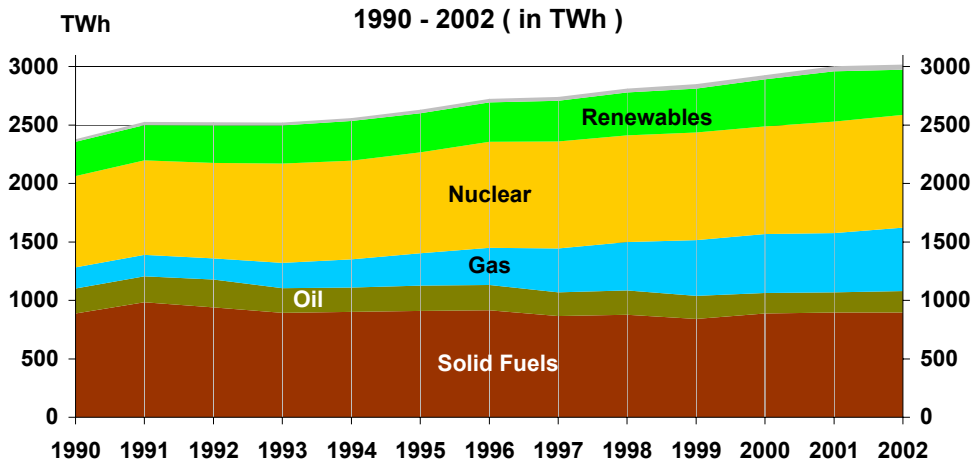
## Gross Electricity Generation 2002, from renewables ( in GWh )

	Renewables	Hydro (*)	Biomass	Wind	Geothermal	Pumped Storage
<b>EU25</b>	386 671	297 386	48 821	35 706	4 758	32 019
<b>EU15</b>	368 876	280 928	47 556	35 634	4 758	29 397
<b>BE</b>	2 070	358	1 655	57	-	1 130
<b>CZ</b>	2 990	2 492	498	-	-	353
<b>DK</b>	7 356	32	2 447	4 877	-	-
<b>DE</b>	46 668	23 124	7 688	15 856	-	4 740
<b>EE</b>	36	6	30	-	-	-
<b>EL</b>	3 451	2 800	-	651	-	663
<b>ES</b>	36 196	23 038	4 454	8 704	-	3 350
<b>FR</b>	64 886	61 103	3 515	268	-	5 320
<b>IE</b>	1 382	912	82	388	-	352
<b>IT</b>	47 956	39 519	2 371	1 404	4 662	7 743
<b>CY</b>	-	-	-	-	-	-
<b>LV</b>	2 485	2 463	11	11	-	-
<b>LT</b>	358	354	4	-	-	427
<b>LU</b>	199	113	61	25	-	881
<b>HU</b>	264	194	70	-	-	-
<b>MT</b>	-	-	-	-	-	-
<b>NL</b>	4 020	108	3 002	910	-	-
<b>AT</b>	41 702	39 931	1 568	203	-	2 073
<b>PL</b>	2 889	2 278	550	61	-	1 627
<b>PT</b>	9 992	7 800	1 734	362	96	457
<b>SI</b>	3 505	3 403	102	-	-	-
<b>SK</b>	5 268	5 268	-	-	-	215
<b>FI</b>	20 580	10 776	9 740	64	-	-
<b>SE</b>	71 092	66 529	3 954	609	-	36
<b>UK</b>	11 326	4 785	5 285	1 256	-	2 652

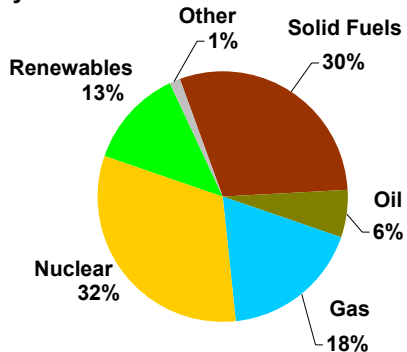
Source: Eurostat

(\*) not including hydro from pumped storage

# Gross Electricity Generation



year 2002



2.4.3

2.4.3

# **Part 2 : ENERGY**

## **Chapter 2.5**

### **Prices**

## Automotive Diesel Oil Prices

(all taxes included)

Current prices in euro per litre

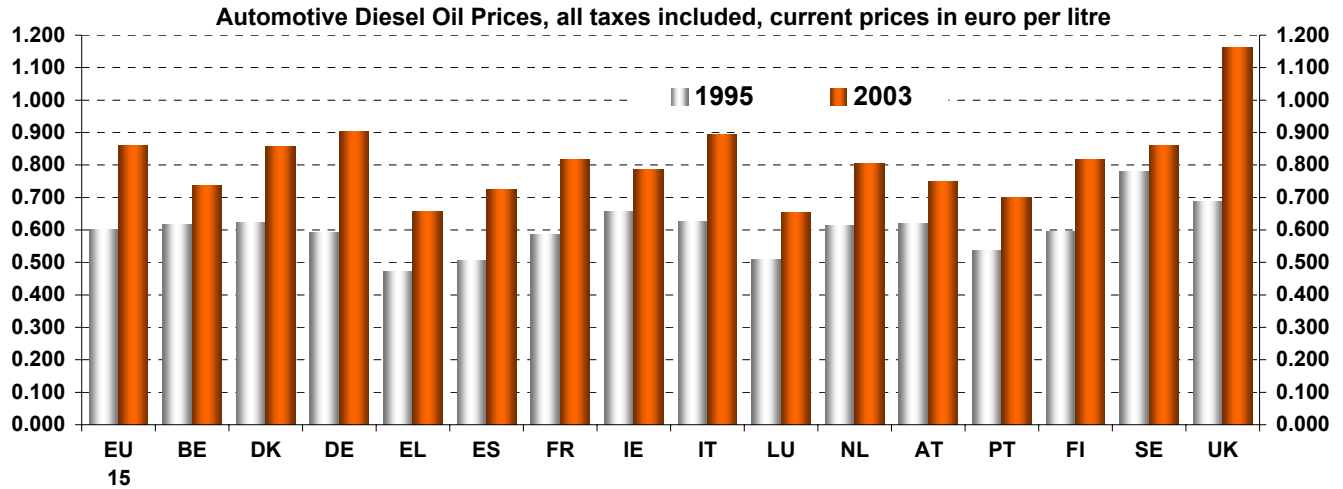
	1990	1995	1999	2000	2001	2002	2003
<b>EU15</b>	0.525	0.602	0.637	0.814	0.862	0.812	0.861
<b>BE</b>	0.507	0.615	0.588	0.730	0.735	0.721	0.737
<b>DK</b>	0.587	0.623	0.615	0.822	0.821	0.796	0.858
<b>DE</b>	0.519	0.593	0.552	0.759	0.820	0.813	0.904
<b>EL</b>	0.197	0.473	0.476	0.619	0.641	0.597	0.657
<b>ES</b>	0.447	0.507	0.520	0.621	0.725	0.673	0.723
<b>FR</b>	0.525	0.588	0.633	0.805	0.805	0.745	0.818
<b>IE</b>	0.722	0.657	0.677	0.771	0.940	0.742	0.787
<b>IT</b>	0.613	0.625	0.687	0.836	0.902	0.836	0.895
<b>LU</b>	0.364	0.508	0.488	0.632	0.645	0.620	0.652
<b>NL</b>	0.471	0.613	0.640	0.782	0.825	0.770	0.803
<b>AT</b>		0.620	0.600	0.733	0.771	0.695	0.748
<b>PT</b>	0.468	0.535	0.549	0.549	0.648	0.648	0.700
<b>FI</b>		0.595	0.629	0.768	0.870	0.783	0.818
<b>SE</b>		0.779	0.665	0.810	0.857	0.801	0.860
<b>UK</b>	0.539	0.688	0.910	1.258	1.286	1.211	1.163

Source: Eurostat

### Prices in force on 15 November 2004 (€/l) :

<b>BE</b>	0.918	<b>IT</b>	0.994	<b>AT</b>	0.879
<b>CZ</b>	0.848	<b>CY</b>	0.757	<b>PL</b>	0.820
<b>DK</b>	0.920	<b>LV</b>	0.716	<b>PT</b>	0.879
<b>DE</b>	1.010	<b>LT</b>	0.777	<b>SI</b>	0.851
<b>EE</b>	0.749	<b>LU</b>	0.753	<b>SK</b>	0.934
<b>EL</b>	0.804	<b>HU</b>	0.955	<b>FI</b>	0.879
<b>ES</b>	0.823	<b>MT</b>	0.797	<b>SE</b>	0.959
<b>FR</b>	0.943	<b>NL</b>	0.932	<b>UK</b>	1.237
<b>IE</b>	0.934				

Source: Commission services



## Unleaded Petrol (95 RON) Prices

(all taxes included)

Current prices in euro per litre

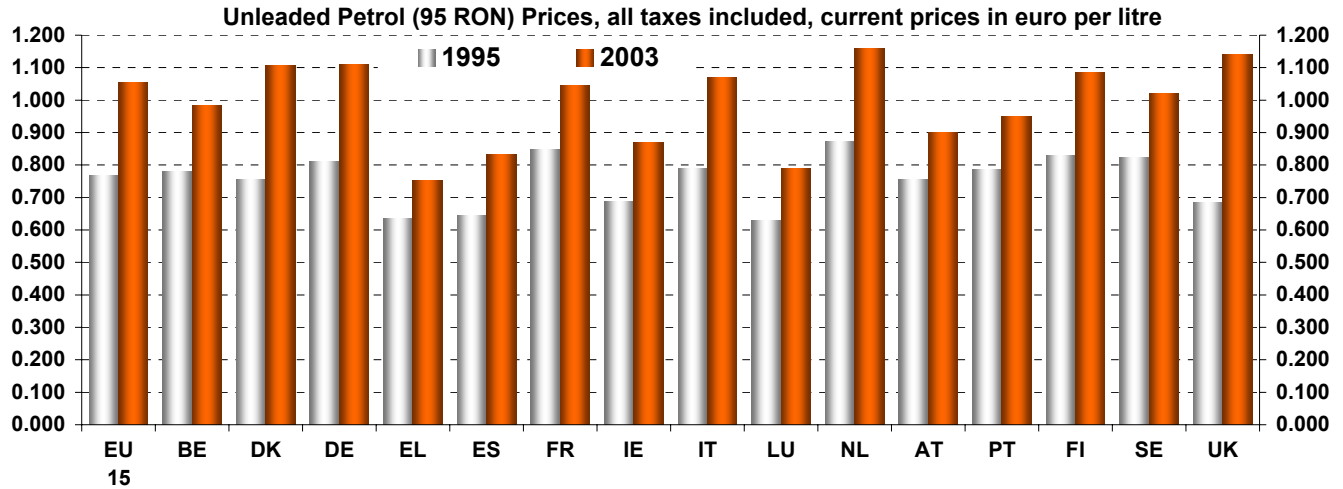
	1990	1995	1999	2000	2001	2002	2003
<b>EU15</b>	0.629	0.769	0.830	1.000	1.018	0.981	1.053
<b>BE</b>	0.644	0.779	0.835	0.957	1.004	0.946	0.983
<b>DK</b>	0.635	0.754	0.876	1.001	1.065	1.040	1.107
<b>DE</b>	0.545	0.811	0.794	0.956	0.972	0.989	1.110
<b>EL</b>		0.636	0.594	0.672	0.725	0.692	0.753
<b>ES</b>		0.644	0.641	0.749	0.788	0.768	0.832
<b>FR</b>		0.847	0.892	1.039	1.003	0.959	1.046
<b>IE</b>	0.759	0.688	0.720	0.815	0.955	0.802	0.869
<b>IT</b>	0.997	0.789	0.878	0.999	1.038	0.996	1.070
<b>LU</b>	0.491	0.628	0.602	0.741	0.781	0.736	0.788
<b>NL</b>	0.693	0.873	0.944	1.057	1.140	1.102	1.159
<b>AT</b>		0.755	0.777	0.868	0.871	0.821	0.899
<b>PT</b>		0.785	0.803	0.803	0.913	0.858	0.950
<b>FI</b>		0.830	0.868	1.062	1.086	1.004	1.084
<b>SE</b>		0.822	0.853	1.004	1.036	0.954	1.022
<b>UK</b>	0.529	0.684	0.895	1.219	1.212	1.134	1.141

Source: Eurostat

### Prices in force on 15 November 2004 (€/l) :

<b>BE</b>	1.118	<b>IT</b>	1.167	<b>AT</b>	0.970
<b>CZ</b>	0.872	<b>CY</b>	7.935	<b>PL</b>	0.901
<b>DK</b>	1.117	<b>LV</b>	0.720	<b>PT</b>	1.077
<b>DE</b>	1.148	<b>LT</b>	0.794	<b>SI</b>	0.862
<b>EE</b>	0.735	<b>LU</b>	0.910	<b>SK</b>	0.918
<b>EL</b>	0.820	<b>HU</b>	1.022	<b>FI</b>	1.148
<b>ES</b>	0.898	<b>MT</b>	0.899	<b>SE</b>	1.110
<b>FR</b>	1.076	<b>NL</b>	1.252	<b>UK</b>	1.206
<b>IE</b>	0.985				

Source: Commission services



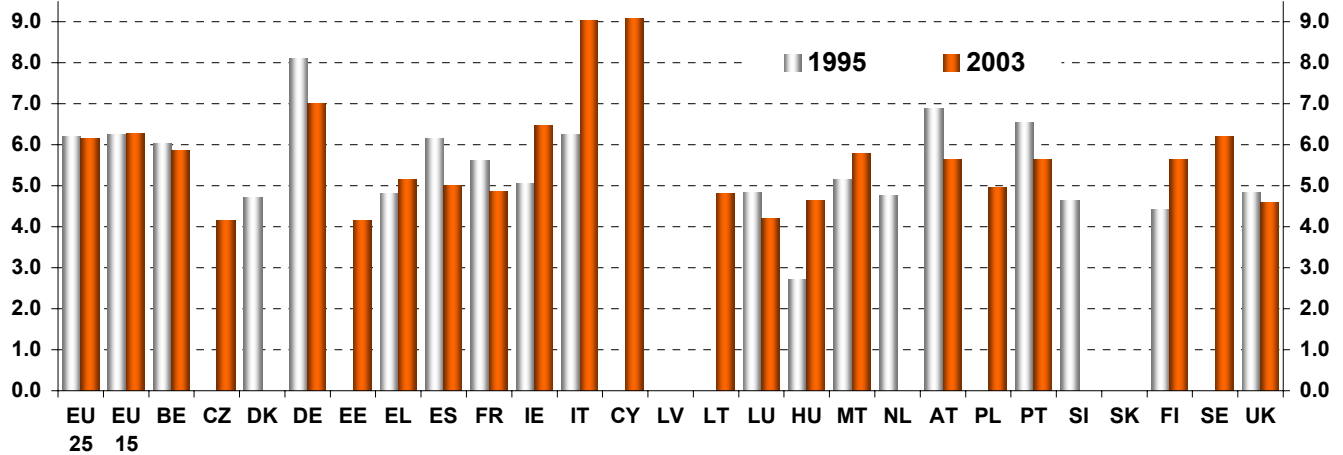
**Electricity Prices for Industry**  
(Excise taxes included)  
Current prices in euro per 100 kWh

	1990	1995	1999	2000	2001	2002	2003
<b>EU25</b>	6.21	6.20	5.52	5.33	5.47	5.50	6.15
<b>EU15</b>	6.21	6.24	5.53	5.44	5.58	5.55	6.27
<b>BE</b>	5.75	6.03	5.54	5.53	5.72	5.84	5.87
<b>CZ</b>				4.11	3.93	4.30	4.16
<b>DK</b>	4.37	4.71	5.29				
<b>DE</b>	7.52	8.10	6.29	5.42	5.72	5.63	7.02
<b>EE</b>						3.49	4.14
<b>EL</b>	5.52	4.82	4.90	4.80	4.80	5.00	5.15
<b>ES</b>	7.08	6.16	5.52	5.63	5.14	4.90	5.00
<b>FR</b>	4.96	5.61	5.04	4.91	4.82	4.87	4.87
<b>IE</b>	5.24	5.06	5.30	5.30	5.31	6.48	6.48
<b>IT</b>	6.00	6.24	6.65	7.21	8.48	8.32	9.02
<b>CY</b>			5.49	8.22	9.90	8.37	9.08
<b>LV</b>							
<b>LT</b>							4.81
<b>LU</b>	4.83	4.83	4.73	4.46	3.94	4.01	4.21
<b>HU</b>		2.72	4.74	3.93	4.01	4.57	4.63
<b>MT</b>		5.14	5.51	5.86	5.93	6.06	5.79
<b>NL</b>	4.53	4.78	4.87				
<b>AT</b>		6.88	6.71				5.65
<b>PL</b>				3.95	4.15	5.16	4.95
<b>PT</b>	6.41	6.55	5.27	5.25	5.30	5.56	5.64
<b>SI</b>		4.64	6.30	5.09	5.09		
<b>SK</b>							
<b>FI</b>		4.42	3.90	3.80	3.77	4.08	5.65
<b>SE</b>			2.76	2.83	2.43	2.62	6.20
<b>UK</b>	5.64	4.84	5.51	5.76	5.32	5.24	4.60

Source: Eurostat



Electricity Prices for Industry, excise taxes included, current prices in euro per 100 kWh



## Residual Fuel Oil Prices for Industry

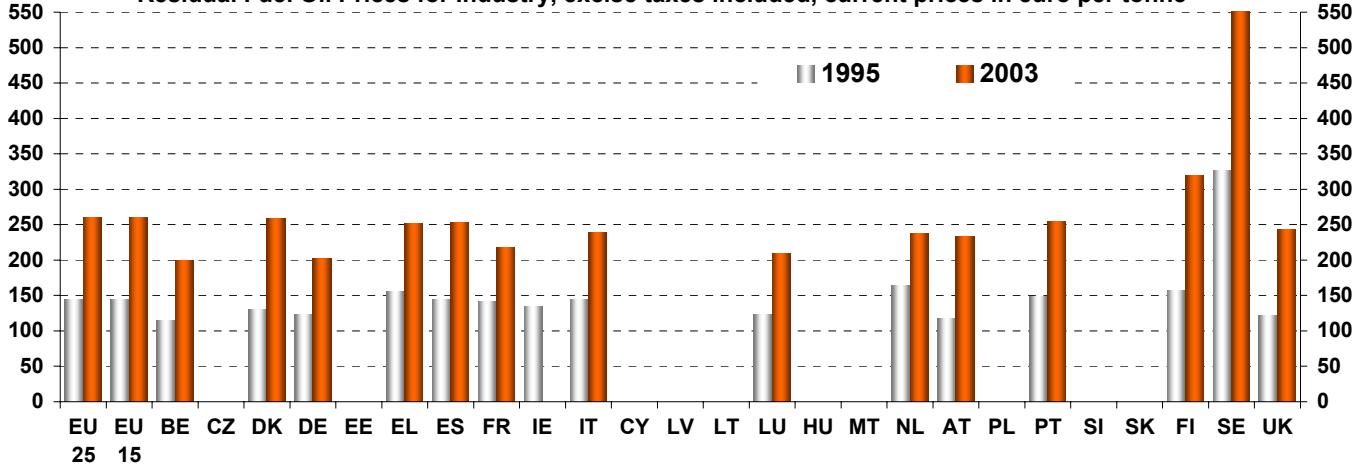
(excise taxes included)

Current prices in euro per tonne

	1990	1995	1999	2000	2001	2002	2003
<b>EU25</b>	129.6	144.0	126.4	197.0	230.3	220.0	259.8
<b>EU15</b>	129.6	144.0	126.4	197.0	230.3	220.0	259.8
<b>BE</b>	116.2	114.5	81.8	142.2	158.7	141.0	199.6
<b>CZ</b>							
<b>DK</b>	154.0	130.8	153.6	194.7	224.9	229.9	258.2
<b>DE</b>	128.8	122.6	91.0	155.0	164.6	169.5	202.5
<b>EE</b>							
<b>EL</b>	127.1	155.7	140.3	209.4	237.2	196.4	250.9
<b>ES</b>	127.5	143.7	128.8	194.3	244.0	210.6	253.0
<b>FR</b>	120.3	141.4	108.9	165.1	189.0	190.9	217.8
<b>IE</b>	138.2	133.7	122.0				
<b>IT</b>	142.2	144.6	118.3	188.3	211.7	202.6	239.3
<b>CY</b>							
<b>LV</b>							
<b>LT</b>							
<b>LU</b>	121.0	123.1	89.5	157.6	180.9	145.4	208.9
<b>HU</b>							
<b>MT</b>							
<b>NL</b>	169.2	164.0	136.4	200.1	220.1	202.0	237.0
<b>AT</b>		117.4	106.8	165.0	190.8	168.4	233.0
<b>PL</b>							
<b>PT</b>	139.4	148.1	133.6	204.9	293.9	247.0	254.0
<b>SI</b>							
<b>SK</b>							
<b>FI</b>		157.2	157.7	207.5	222.2	277.4	318.7
<b>SE</b>		327.0	308.3	418.9	533.7	469.3	550.9
<b>UK</b>	119.3	121.4	108.1				243.9

Source: Eurostat

Residual Fuel Oil Prices for Industry, excise taxes included, current prices in euro per tonne

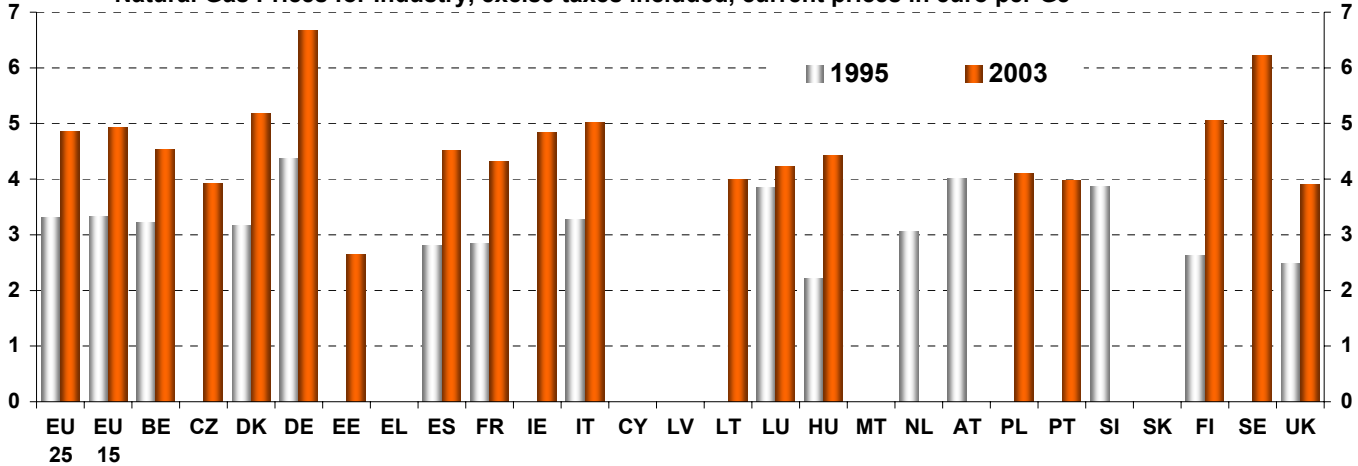


**Natural Gas Prices for Industry**  
(excise taxes included)  
Current prices in euro per GJ (GCV)

	1990	1995	1999	2000	2001	2002	2003
<b>EU25</b>	3.46	3.30	3.18	3.86	5.48	5.10	4.86
<b>EU15</b>	3.46	3.33	3.20	3.91	5.61	5.13	4.92
<b>BE</b>	3.43	3.21	2.60	3.56	5.45	4.38	4.53
<b>CZ</b>				2.98	3.80	4.51	3.92
<b>DK</b>		3.16	2.66	4.29	5.55	4.33	5.18
<b>DE</b>	4.29	4.37	3.97	4.45	7.06	6.57	6.68
<b>EE</b>							2.65
<b>EL</b>							
<b>ES</b>	3.47	2.80	2.67	3.89	5.38	4.18	4.51
<b>FR</b>	3.05	2.84	2.87	3.83	5.50	3.93	4.32
<b>IE</b>	2.27					4.51	4.83
<b>IT</b>	3.09	3.28	3.33	4.00	5.84	5.22	5.03
<b>CY</b>							
<b>LV</b>							
<b>LT</b>							3.99
<b>LU</b>	3.89	3.85	3.72	4.82	6.61	5.12	4.23
<b>HU</b>		2.22	2.39	2.23	3.39	4.15	4.43
<b>MT</b>							
<b>NL</b>	2.84	3.05	2.70	3.68			
<b>AT</b>		4.02	4.80	5.47	6.62	5.88	
<b>PL</b>				3.95	4.15	5.41	4.09
<b>PT</b>						4.17	3.97
<b>SI</b>		3.87	3.52	4.00	6.31		
<b>SK</b>							
<b>FI</b>		2.63	2.56	4.33	5.22	4.90	5.06
<b>SE</b>					8.42	7.73	6.22
<b>UK</b>	3.38	2.47	2.81	2.98	3.52	5.09	3.90

Source: Eurostat

Natural Gas Prices for Industry, excise taxes included, current prices in euro per GJ



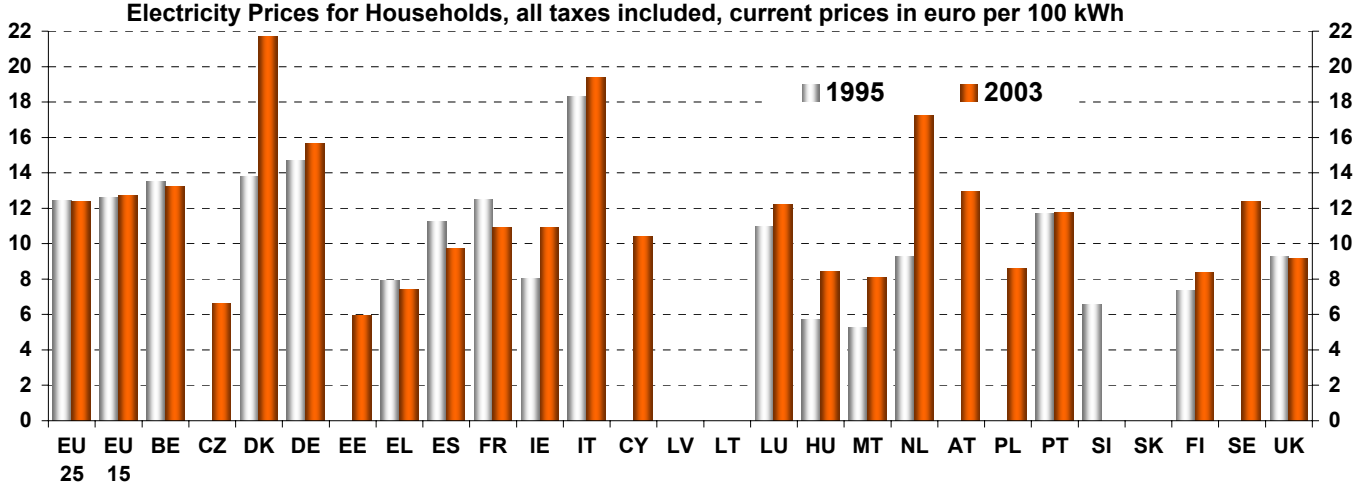
## Electricity Prices for Households

(all taxes included)

Current prices in euro per 100 kWh

	1990	1995	1999	2000	2001	2002	2003
<b>EU25</b>	10.73	12.43	12.14	11.86	12.09	12.27	12.40
<b>EU15</b>	10.73	12.59	12.24	12.23	12.43	12.57	12.73
<b>BE</b>	11.49	13.54	13.19	13.20	13.57	13.43	13.24
<b>CZ</b>				4.86	5.64	7.08	6.61
<b>DK</b>	12.54	13.80	17.28	18.40	19.43	20.74	21.72
<b>DE</b>	11.61	14.69	14.00	14.04	14.66	15.24	15.65
<b>EE</b>						5.48	5.97
<b>EL</b>	7.93	7.95	7.56	6.86	6.85	7.10	7.42
<b>ES</b>	10.37	11.25	10.39	10.01	9.61	9.61	9.76
<b>FR</b>	10.86	12.51	11.73	11.47	11.22	11.33	10.92
<b>IE</b>	8.18	8.06	8.59	8.59	8.59	9.36	10.89
<b>IT</b>	14.99	18.29	19.37	18.48	19.73	18.51	19.35
<b>CY</b>			5.84	9.03	10.80	9.17	10.40
<b>LV</b>							
<b>LT</b>							
<b>LU</b>	9.89	10.95	11.08	10.86	11.33	11.82	12.23
<b>HU</b>		5.71	6.97	7.15	7.28	8.30	8.42
<b>MT</b>		5.25	7.68	8.16	8.27	8.45	8.08
<b>NL</b>	8.58	9.26	12.09	14.21	16.98	16.35	17.23
<b>AT</b>			12.73	12.35	13.30	13.35	12.95
<b>PL</b>				7.99	8.55	9.18	8.60
<b>PT</b>	9.27	11.73	11.21	11.14	11.19	11.43	11.75
<b>SI</b>		6.58	9.04	9.07	9.14		
<b>SK</b>							
<b>FI</b>		7.35	7.54	7.48	7.37	7.89	8.36
<b>SE</b>			9.28	9.52	9.68	10.51	12.38
<b>UK</b>	7.79	9.29	9.64	10.12	9.55	9.83	9.16

Source: Eurostat



## Heating Gasoil Prices for Households

(all taxes included)

Current prices in euro per 1000 litres

	1990	1995	1999	2000	2001	2002	2003
<b>EU15</b>	318.7	291.2	273.6	396.3	431.5	371.0	450.6
<b>BE</b>	194.2	177.5	158.4	278.4	328.2	273.0	318.8
<b>DK</b>	530.2	528.7	573.4	683.0	699.9	664.9	725.5
<b>DE</b>	228.6	214.0	186.5	327.4	377.4	312.9	401.2
<b>EL</b>	197.4	315.3	209.3	278.2	314.8	302.9	348.2
<b>ES</b>	265.4	252.7	242.6	359.5	392.9	339.0	428.5
<b>FR</b>	335.9	308.1	283.6	411.0	407.8	314.1	419.1
<b>IE</b>	270.5	219.8	201.0	405.2	502.5	397.5	465.2
<b>IT</b>	582.2	615.8	688.4	799.5	816.5	816.0	875.0
<b>LU</b>	225.2	196.6	163.6	280.1	309.9	260.0	324.0
<b>NL</b>	304.7	292.8	339.0	490.5	590.8	552.0	622.0
<b>AT</b>		314.0	256.5	395.3	413.9	371.7	422.4
<b>PT</b>				334.2	359.1	359.0	465.0
<b>FI</b>		250.4	228.7	347.3	454.1	334.0	397.5
<b>SE</b>		472.1	413.4	547.6	671.8	648.4	698.2
<b>UK</b>	212.3	176.7	161.8	293.7	322.9	251.9	278.0

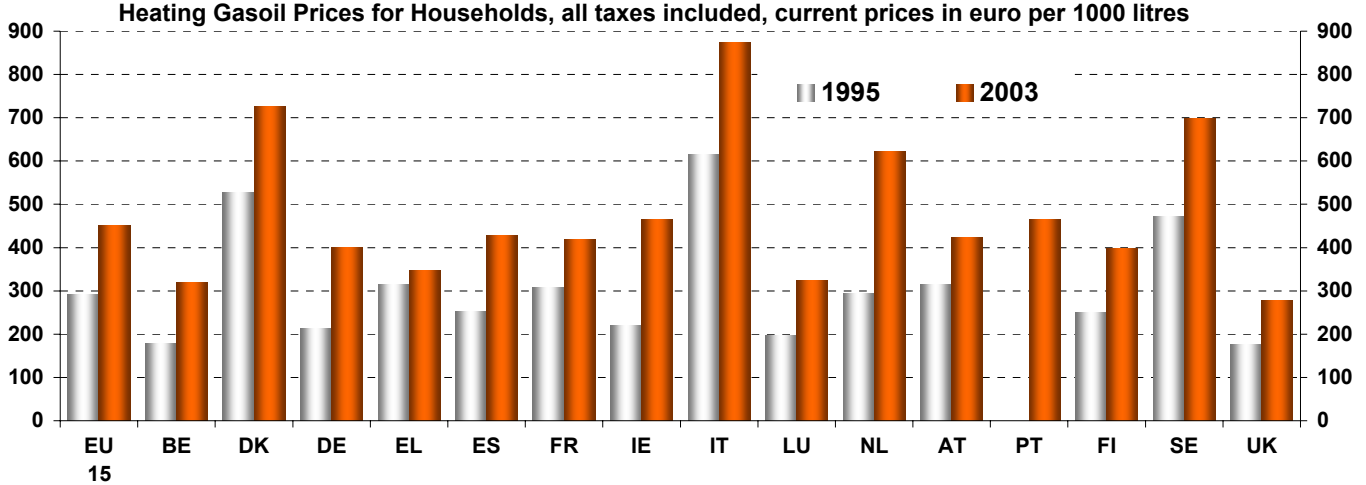
Source: Eurostat

**Prices in force on 15 November 2004 (€ / 1000 l) :**

<b>BE</b>	454.4	<b>IT</b>	974.8	<b>AT</b>	525.9
<b>CZ</b>		<b>CY</b>	730.8	<b>PL</b>	433.9
<b>DK</b>	844.1	<b>LV</b>	481.0	<b>PT</b>	565.0
<b>DE</b>	463.3	<b>LT</b>	407.5	<b>SI</b>	524.7
<b>EE</b>	441.0	<b>LU</b>	402.0	<b>SK</b>	352.9
<b>EL</b>	462.0	<b>HU</b>	955.3	<b>FI</b>	492.1
<b>ES</b>	497.2	<b>MT</b>	268.6	<b>SE</b>	906.2
<b>FR</b>	519.3	<b>NL</b>	713.0	<b>UK</b>	404.6
<b>IE</b>	607.9				

Source: Commission services





## Natural Gas Prices for Households

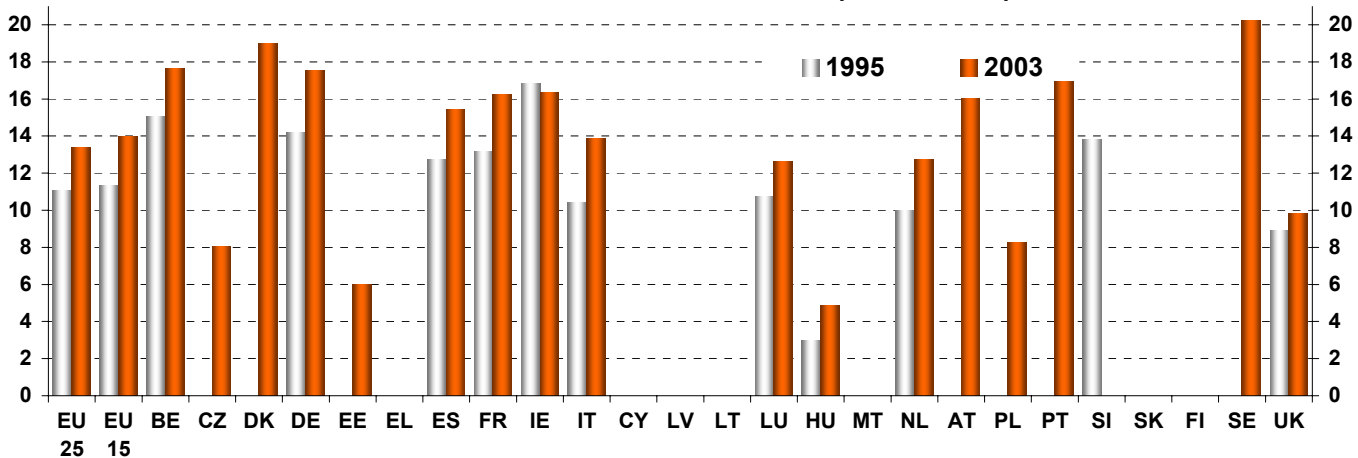
(all taxes included)

Current prices in euro per GJ (GCV)

	1990	1995	1999	2000	2001	2002	2003
<b>EU25</b>	10.31	11.05	11.24	11.62	12.93	13.11	13.37
<b>EU15</b>	10.31	11.32	11.49	12.14	13.54	13.65	13.96
<b>BE</b>	12.77	15.07	14.64	15.87	18.49	17.25	17.66
<b>CZ</b>				5.53	6.85	8.67	8.03
<b>DK</b>			13.97	18.14	22.00	17.98	18.98
<b>DE</b>	12.16	14.19	13.30	14.06	17.16	17.35	17.53
<b>EE</b>							5.99
<b>EL</b>							
<b>ES</b>	12.84	12.77	13.06	13.50	16.30	15.42	15.40
<b>FR</b>	12.65	13.18	13.47	12.81	15.24	16.36	16.24
<b>IE</b>	14.30	16.83	16.18	16.20	16.20	16.19	16.33
<b>IT</b>	11.83	10.44	11.62	12.32	14.42	13.60	13.84
<b>CY</b>							
<b>LV</b>							
<b>LT</b>							
<b>LU</b>	11.00	10.75	10.89	11.30	13.37	12.32	12.61
<b>HU</b>		2.95	3.35	3.66	3.95	4.79	4.86
<b>MT</b>							
<b>NL</b>	7.94	9.99	10.26	10.39	8.57	9.45	12.71
<b>AT</b>			11.27	11.27	15.19	15.19	16.04
<b>PL</b>				6.51	6.83	8.63	8.25
<b>PT</b>						16.66	16.93
<b>SI</b>		13.83	13.47	15.77	12.98		
<b>SK</b>							
<b>FI</b>							
<b>SE</b>			14.86	15.70	18.44	19.75	20.24
<b>UK</b>	8.03	8.91	8.98	10.03	9.56	10.07	9.85

Source: Eurostat

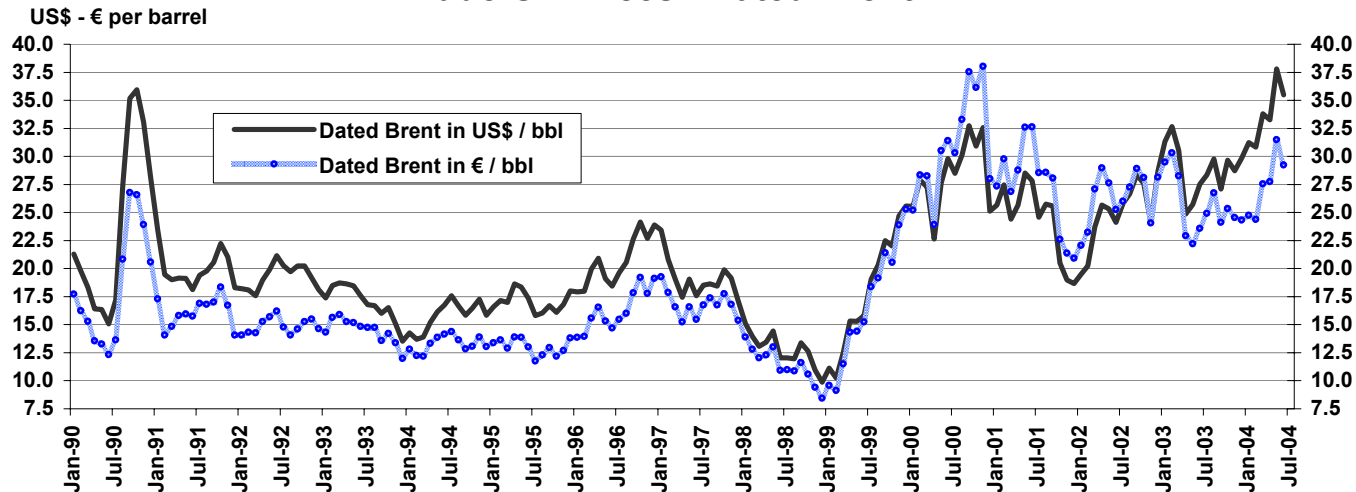
Natural Gas Prices for Households, all taxes included, current prices in euro per GJ



2.5.8

2.5.8

## Crude Oil Prices - Dated Brent



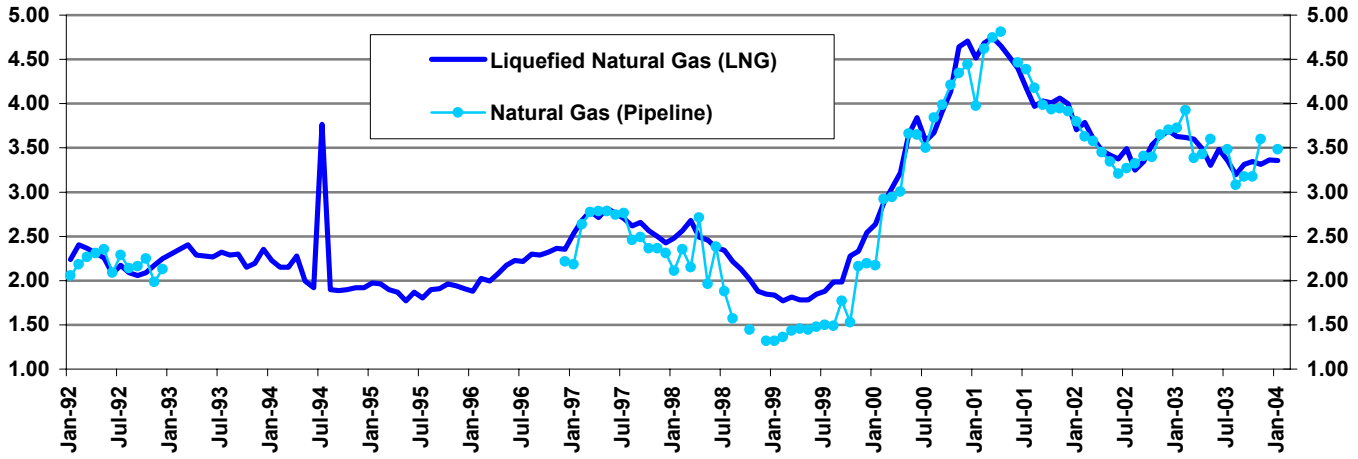
Source: Organisation for Economic Co-operation and Development

2.5.9

2.5.9

### EU15: Natural Gas Import Prices

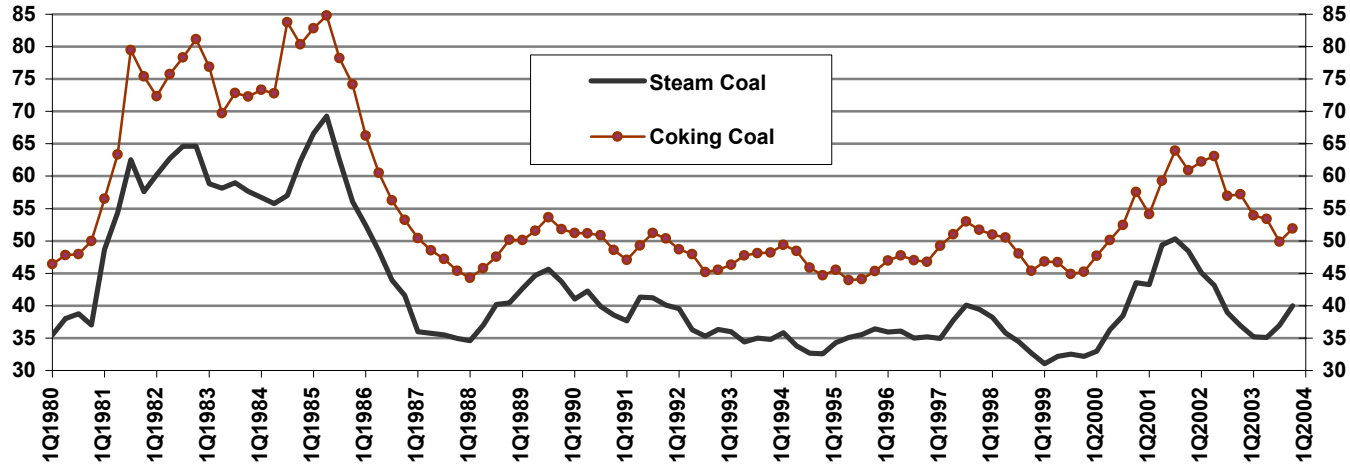
€ per GJ



Source: Organisation for Economic Co-operation and Development

## EU15: Coal Import Prices

€ per tonne



Source: Organisation for Economic Co-operation and Development

# **Part 2 : ENERGY**

## **Chapter 2.6**

### **Country Energy Statistics**

## Energy Statistics for EU-25

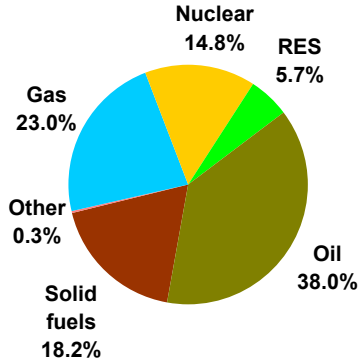
Mtoe	1990	1995	2000	2002
<b>Production</b>	877.84	896.80	896.60	895.86
<b>Solid fuels</b>	351.75	264.46	203.20	200.59
<b>Oil</b>	120.33	162.35	163.77	155.87
<b>Gas</b>	139.63	174.17	196.66	193.27
<b>Nuclear</b>	196.95	215.32	237.66	248.40
<b>Renewables</b>	67.52	78.18	92.62	94.51
<b>Other</b>	1.67	2.34	2.68	3.22
<b>Net Imports</b>	708.96	701.17	801.54	826.24
<b>Solid fuels</b>	75.25	73.92	94.31	101.33
<b>Oil</b>	507.99	490.73	518.22	525.22
<b>Gas</b>	123.39	134.80	186.46	197.39
<b>Electricity</b>	2.18	1.37	2.14	1.86
<b>Renewables</b>	0.14	0.34	0.40	0.43
<b>Derived heat</b>			0.00	0.00
<b>Inland Consumption</b>	1553.01	1571.44	1652.15	1676.89
<b>Solid fuels</b>	431.53	345.42	305.60	305.53
<b>Oil</b>	593.65	621.11	634.76	638.00
<b>Gas</b>	259.14	307.34	376.29	384.92
<b>Nuclear</b>	196.95	215.32	237.66	248.40
<b>Renewables</b>	67.89	78.53	93.01	94.94
<b>Other</b>	3.85	3.71	4.83	5.10
<b>Elec. Generation (TWh)</b>	2379.96	2630.76	2928.49	3018.03
<b>Coal (TWh)</b>	887.51	909.12	887.27	895.43
<b>Oil (TWh)</b>	214.04	217.16	176.40	185.69
<b>Gas (TWh)</b>	180.91	275.75	503.21	542.63
<b>Nuclear (TWh)</b>	780.21	864.56	921.36	964.12
<b>Renewables (TWh) (*)</b>	293.79	335.58	404.17	386.67
<b>Other (TWh)</b>	23.50	28.60	36.09	43.49
<b>Final Energy Demand</b>	1010.46	1023.74	1068.86	1080.07
<b>by fuel/product</b>				
<b>Solid fuels</b>	123.93	81.52	58.20	52.45
<b>Oil</b>	428.58	447.22	469.39	475.16
<b>Gas</b>	202.89	231.62	257.05	258.11
<b>Electricity</b>	176.46	187.82	211.35	218.33
<b>Renewables</b>	33.78	38.01	43.58	45.24
<b>Other</b>	44.82	37.56	29.28	30.77
<b>by sector</b>				
<b>Industry</b>	331.64	304.89	309.89	307.01
<b>Transport</b>	273.14	295.01	333.38	338.09
<b>Households</b>	259.33	274.58	274.11	274.09
<b>Commerce &amp; other</b>	146.35	149.26	151.47	160.87
<b>Non-Energy Uses</b>	94.31	103.55	105.94	100.31
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	3775	3655	3692	3750
<b>Energy intensity (toe/M€95)</b>	246	230	212	209
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.43	2.33	2.23	2.24
<b>Import dependency, %</b>	44.6	43.6	47.3	48.0
<b>Energy per capita (kgoe/cap)</b>	3524	3507	3648	3682
<b>CO<sub>2</sub> per capita (kg/cap)</b>	8566	8157	8152	8233

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

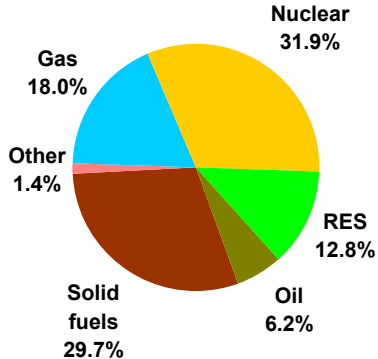


## EU-25 (2002)

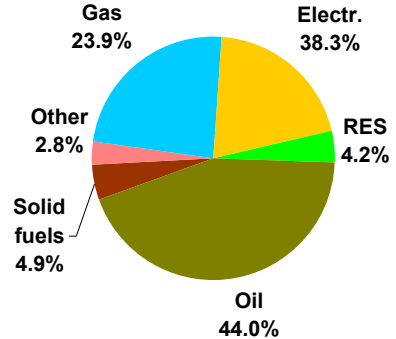
**Gross Inland Consumption**  
1676.9 (Mtoe)



**Electricity Generation**  
3018.0 (TWh)



**Final Energy Consumption**  
1080.1 (Mtoe)



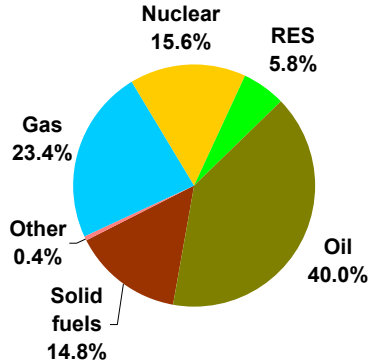
### Energy Statistics for EU-15

Mtoe	1990	1995	2000	2002
<b>Production</b>	708.09	738.31	759.49	754.73
Solid fuels	210.84	137.59	99.22	97.57
Oil	117.71	159.39	160.69	152.47
Gas	132.88	166.76	190.58	187.08
Nuclear	181.44	201.24	222.85	230.56
Renewables	64.32	71.86	84.10	84.48
Other	0.90	1.47	2.06	2.57
<b>Net Imports</b>	643.09	651.87	742.24	763.55
Solid fuels	89.86	94.58	110.15	115.90
Oil	458.53	446.84	472.60	479.39
Gas	92.23	108.61	155.26	163.51
Electricity	2.33	1.50	3.64	3.96
Renewables	0.14	0.34	0.58	0.79
Derived heat			0.00	0.00
<b>Inland Consumption</b>	1318.76	1362.83	1455.27	1475.39
Solid fuels	303.59	237.16	214.79	217.69
Oil	543.82	575.67	587.97	589.82
Gas	222.00	273.57	339.29	345.52
Nuclear	181.44	201.24	222.85	230.56
Renewables	64.68	72.22	84.68	85.27
Other	3.23	2.97	5.70	6.53
<b>Elec. Generation (TWh)</b>	2060.84	2327.23	2600.98	2678.29
Coal (TWh)	677.19	705.16	671.30	686.71
Oil (TWh)	193.57	202.61	163.34	173.35
Gas (TWh)	168.15	264.24	482.64	517.02
Nuclear (TWh)	720.20	810.27	863.92	893.81
Renewables (TWh) (*)	280.52	319.16	387.50	368.88
Other (TWh)	21.20	25.79	32.29	38.54
<b>Final Energy Demand</b>	858.59	895.92	950.20	957.45
by fuel/product				
Solid fuels	80.12	48.45	36.90	33.68
Oil	395.02	417.29	435.61	440.38
Gas	178.55	208.15	233.18	230.97
Electricity	155.93	169.31	191.71	198.17
Renewables	32.27	33.28	37.45	38.01
Other	16.69	19.45	15.35	16.24
by sector				
Industry	265.22	258.63	270.61	269.05
Transport	252.98	275.01	310.50	313.44
Households	219.28	233.61	239.21	236.87
Commerce & other	121.10	128.66	129.87	138.09
<b>Non-Energy Uses</b>	84.22	94.16	95.80	91.75
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	3074	3052	3146	3206
<b>Energy intensity (toe/M€95)</b>	216	207	193	191
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.33	2.24	2.16	2.17
<b>Import dependency, %</b>	47.5	46.6	49.6	50.2
<b>Energy per capita (kgoe/cap)</b>	3607	3655	3849	3870
<b>CO<sub>2</sub> per capita (kg/cap)</b>	8408	8184	8321	8411

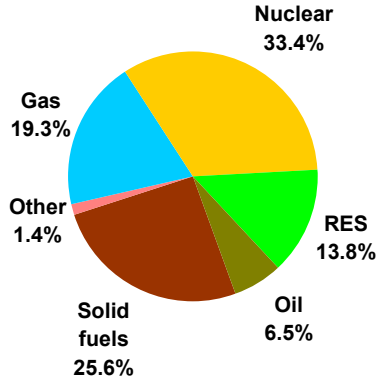
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## EU-15 (2002)

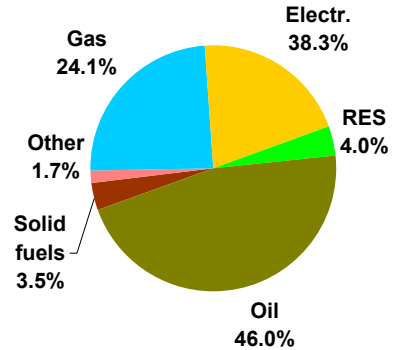
**Gross Inland Consumption**  
1475.4 (Mtoe)



**Electricity Generation**  
2678.3 (TWh)



**Final Energy Consumption**  
957.4 (Mtoe)



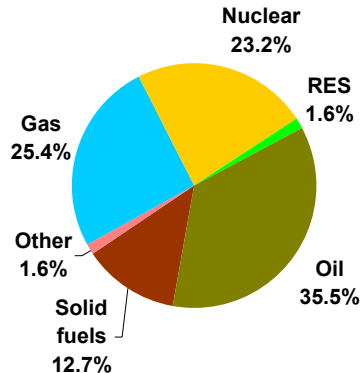
## Energy Statistics for Belgium

Mtoe	1990	1995	2000	2002
<b>Production</b>	12.53	11.34	13.37	13.19
Solid fuels	1.08	0.27	0.19	0.09
Oil				0.01
Gas	0.01	0.00	0.00	
Nuclear	10.71	10.34	12.42	12.22
Renewables	0.65	0.60	0.64	0.68
Other	0.08	0.13	0.11	0.19
<b>Net Imports</b>	38.86	43.78	48.65	45.34
Solid fuels	9.49	9.34	7.57	5.74
Oil	21.47	23.58	27.33	25.16
Gas	8.22	10.42	13.28	13.65
Electricity	-0.32	0.35	0.37	0.65
Renewables		0.09	0.10	0.14
Derived heat				
<b>Inland Consumption</b>	47.26	50.46	57.17	52.57
Solid fuels	10.24	8.55	8.20	6.65
Oil	17.73	19.79	21.95	18.66
Gas	8.17	10.61	13.37	13.38
Nuclear	10.71	10.34	12.42	12.22
Renewables	0.65	0.68	0.75	0.82
Other	-0.24	0.48	0.48	0.84
<b>Elec. Generation (TWh)</b>	70.85	74.43	83.89	82.06
Coal (TWh)	17.10	16.52	12.92	10.03
Oil (TWh)	1.31	1.31	0.80	0.97
Gas (TWh)	8.17	12.94	19.09	20.50
Nuclear (TWh)	42.72	41.36	48.16	47.36
Renewables (TWh) (*)	0.77	0.95	1.33	2.07
Other (TWh)	0.78	1.35	1.60	1.13
<b>Final Energy Demand</b>	31.28	34.49	36.92	35.82
by fuel/product				
Solid fuels	3.79	3.31	3.38	2.45
Oil	14.73	16.25	16.04	15.51
Gas	7.25	8.52	10.01	10.28
Electricity	4.99	5.88	6.67	6.74
Renewables	0.31	0.31	0.34	0.36
Other	0.21	0.22	0.49	0.47
by sector				
Industry	11.87	12.11	13.64	12.68
Transport	7.70	8.48	9.66	9.60
Households	8.34	9.29	9.47	9.28
Commerce & other	3.37	4.60	4.16	4.26
<b>Non-Energy Uses</b>	2.74	3.29	5.81	5.69
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	107	113	116	108
<b>Energy intensity (toe/M€95)</b>	242	239	236	214
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.26	2.24	2.03	2.06
<b>Import dependency, %</b>	75.7	80.5	77.8	76.4
<b>Energy per capita (kgoe/cap)</b>	4741	4978	5580	5089
<b>CO<sub>2</sub> per capita (kg/cap)</b>	10691	11145	11308	10466

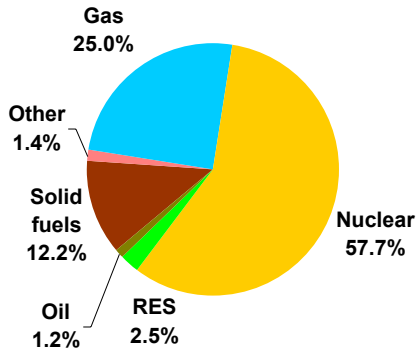
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## Belgium (2002)

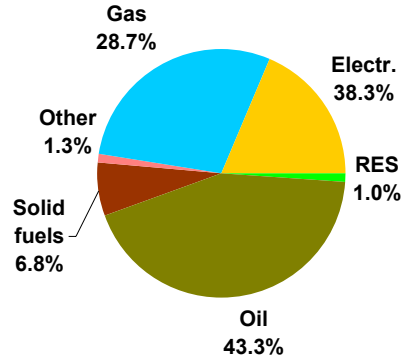
**Gross Inland Consumption**  
52.6 (Mtoe)



**Electricity Generation**  
82.1 (TWh)



**Final Energy Consumption**  
35.8 (Mtoe)



## Energy Statistics for Czech Republic

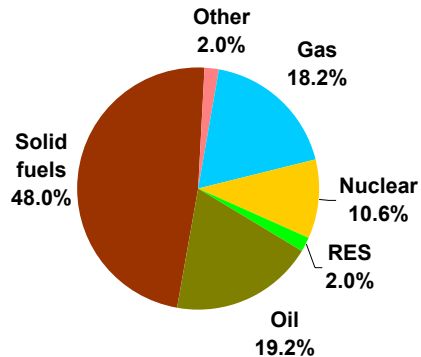
Mtoe	1990	1995	2000	2002
<b>Production</b>	38.32	31.50	29.58	30.10
<b>Solid fuels</b>	34.70	27.49	25.00	24.21
Oil	0.05	0.14	0.18	0.26
Gas	0.20	0.20	0.17	0.11
Nuclear	3.25	3.15	3.51	4.54
Renewables	0.12	0.49	0.60	0.85
Other		0.03	0.13	0.13
<b>Net Imports</b>	7.63	8.43	9.30	10.89
<b>Solid fuels</b>	-5.68	-5.77	-4.75	-3.81
Oil	8.59	7.75	7.43	7.77
Gas	4.79	6.42	7.48	7.92
Electricity	-0.06	0.04	-0.86	-0.98
Renewables				
Derived heat				
<b>Inland Consumption</b>	47.20	40.59	40.10	40.93
<b>Solid fuels</b>	29.85	22.58	21.65	20.47
Oil	8.79	7.75	7.58	8.16
Gas	5.25	6.55	7.50	7.76
Nuclear	3.25	3.15	3.51	4.54
Renewables	0.12	0.49	0.60	0.85
Other	-0.06	0.06	-0.73	-0.85
<b>Elec. Generation (TWh)</b>	62.56	60.85	73.47	76.35
Coal (TWh)	44.58	44.33	52.54	50.01
Oil (TWh)	3.01	0.59	0.37	0.38
Gas (TWh)	0.95	1.00	3.93	3.69
Nuclear (TWh)	12.59	12.23	13.59	18.74
Renewables (TWh) (*)	1.45	2.41	2.28	2.99
Other (TWh)		0.29	0.76	0.54
<b>Final Energy Demand</b>	36.63	25.39	24.08	23.77
<b>by fuel/product</b>				
Solid fuels	17.79	6.44	5.24	3.81
Oil	5.88	5.02	5.35	5.72
Gas	5.15	6.05	6.44	6.93
Electricity	4.14	4.13	4.24	4.37
Renewables		0.30	0.18	0.35
Other	3.67	3.46	2.63	2.59
<b>by sector</b>				
Industry	20.01	12.91	10.59	9.65
Transport	2.80	2.83	4.10	5.14
Households	8.25	5.61	5.26	5.35
Commerce & other	5.56	4.05	4.14	3.62
<b>Non-Energy Uses</b>	2.03	2.13	1.94	1.77
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	154	119	118	112
<b>Energy intensity (toe/M€95)</b>	1064	960	893	867
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	3.26	2.93	2.94	2.74
<b>Import dependency, %</b>	16.2	20.8	23.2	26.6
<b>Energy per capita (kgoe/cap)</b>	4556	3931	3904	4013
<b>CO<sub>2</sub> per capita (kg/cap)</b>	14841	11502	11463	10988

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

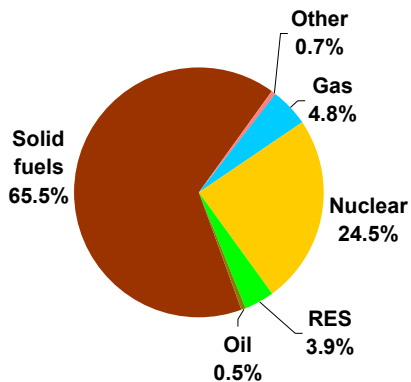
## Czech Republic (2002)

2.6.4

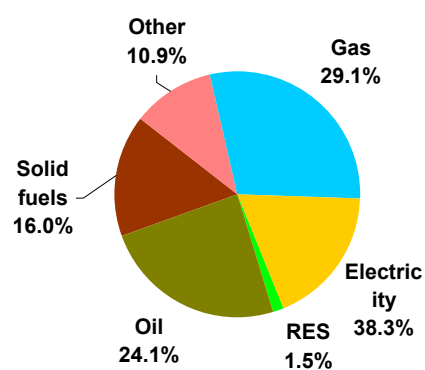
**Gross Inland Consumption**  
40.9 (Mtoe)



**Electricity Generation**  
76.3 (TWh)



**Final Energy Consumption**  
23.8 (Mtoe)



2.6.4

## Energy Statistics for Denmark

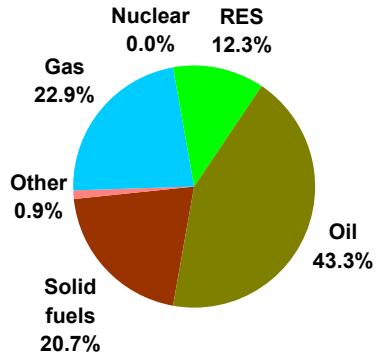
Mtoe	1990	1995	2000	2002
<b>Production</b>	10.69	15.76	27.62	28.49
<b>Solid fuels</b>				
Oil	6.11	9.33	18.14	18.52
Gas	2.77	4.70	7.41	7.60
<b>Nuclear</b>				
<b>Renewables</b>	1.80	1.73	2.06	2.37
<b>Other</b>				
<b>Net Imports</b>	8.63	7.53	-7.10	-8.52
<b>Solid fuels</b>	6.21	7.66	3.78	3.70
Oil	2.73	1.43	-8.10	-9.16
Gas	-0.93	-1.50	-2.88	-2.98
<b>Electricity</b>	0.61	-0.07	0.06	-0.18
<b>Renewables</b>		0.01	0.04	0.10
<b>Derived heat</b>			0.00	0.00
<b>Inland Consumption</b>	18.54	20.44	19.66	19.84
<b>Solid fuels</b>	6.10	6.50	4.01	4.17
Oil	8.21	9.10	9.04	8.74
Gas	1.82	3.17	4.45	4.63
<b>Nuclear</b>				
<b>Renewables</b>	1.80	1.74	2.10	2.48
<b>Other</b>	0.61	-0.07	0.06	-0.18
<b>Elec. Generation (TWh)</b>	25.82	36.79	36.04	39.23
<b>Coal (TWh)</b>	23.32	27.65	16.67	18.26
<b>Oil (TWh)</b>	1.06	3.45	4.44	4.00
<b>Gas (TWh)</b>	0.66	3.56	8.81	9.56
<b>Nuclear (TWh)</b>				
<b>Renewables (TWh) (*)</b>	0.78	2.09	6.03	7.36
<b>Other (TWh)</b>		0.04	0.10	0.05
<b>Final Energy Demand</b>	13.80	14.73	14.56	14.74
<b>by fuel/product</b>				
<b>Solid fuels</b>	0.40	0.41	0.31	0.22
<b>Oil</b>	7.06	7.13	6.95	6.91
<b>Gas</b>	1.16	1.69	1.68	1.66
<b>Electricity</b>	2.52	2.69	2.79	2.78
<b>Renewables</b>	0.57	0.59	0.59	0.76
<b>Other</b>	2.10	2.23	2.25	2.40
<b>by sector</b>				
<b>Industry</b>	2.71	3.02	2.93	2.95
<b>Transport</b>	3.97	4.45	4.72	4.72
<b>Households</b>	4.04	4.47	4.12	4.22
<b>Commerce &amp; other</b>	3.07	2.79	2.80	2.85
<b>Non-Energy Uses</b>	0.29	0.29	0.28	0.25
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	52	59	52	53
<b>Energy intensity (toe/M€95)</b>	148	148	125	123
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.78	2.90	2.67	2.68
<b>Import dependency, %</b>	44.3	34.2	-33.8	-41.1
<b>Energy per capita (kgoe/cap)</b>	3606	3908	3684	3690
<b>CO<sub>2</sub> per capita (kg/cap)</b>	10039	11334	9835	9872

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

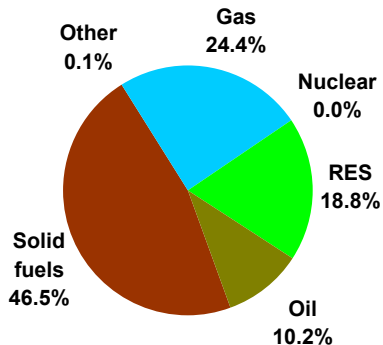


## Denmark (2002)

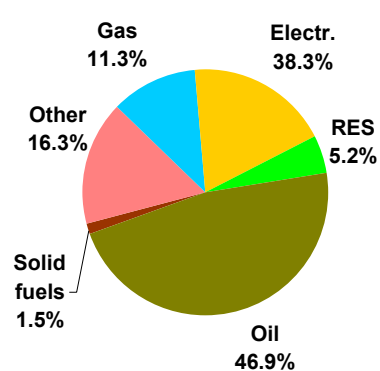
**Gross Inland Consumption**  
19.8 (Mtoe)



**Electricity Generation**  
39.2 (TWh)



**Final Energy Consumption**  
14.7 (Mtoe)



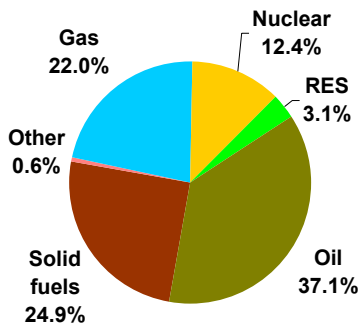
## Energy Statistics for Germany

Mtoe	1990	1995	2000	2002
<b>Production</b>	186.40	141.39	133.36	133.15
<b>Solid fuels</b>	125.04	78.80	59.60	58.76
Oil	3.75	3.21	3.45	4.05
Gas	13.73	14.81	15.80	15.99
<b>Nuclear</b>	37.67	37.32	43.75	42.52
<b>Renewables</b>	5.72	6.34	9.73	10.61
<b>Other</b>	0.49	0.90	1.03	1.22
<b>Net Imports</b>	166.85	195.15	204.70	209.52
<b>Solid fuels</b>	4.84	10.99	21.60	25.30
Oil	120.13	130.81	125.97	123.30
Gas	41.81	52.93	56.87	60.07
<b>Electricity</b>	0.07	0.41	0.26	0.86
<b>Renewables</b>				
<b>Derived heat</b>				
<b>Inland Consumption</b>	356.08	337.14	340.23	343.67
<b>Solid fuels</b>	133.10	92.17	83.72	85.47
Oil	124.04	133.57	129.87	127.42
Gas	55.00	66.42	71.85	75.57
<b>Nuclear</b>	37.67	37.32	43.75	42.52
<b>Renewables</b>	5.72	6.34	9.73	10.61
<b>Other</b>	0.56	1.32	1.29	2.08
<b>Elec. Generation (TWh)</b>	453.59	536.24	571.55	571.65
<b>Coal (TWh)</b>	220.50	289.70	291.50	284.55
<b>Oil (TWh)</b>	10.85	8.98	4.79	4.34
<b>Gas (TWh)</b>	45.40	50.39	59.97	61.06
<b>Nuclear (TWh)</b>	152.47	154.09	169.61	164.84
<b>Renewables (TWh) (*)</b>	20.60	25.24	38.73	46.67
<b>Other (TWh)</b>	3.78	7.84	6.97	10.19
<b>Final Energy Demand</b>	227.14	222.34	213.27	210.49
<b>by fuel/product</b>				
<b>Solid fuels</b>	37.14	14.89	10.93	9.82
<b>Oil</b>	96.74	104.47	98.05	96.21
<b>Gas</b>	42.72	52.59	58.01	56.45
<b>Electricity</b>	38.39	38.91	41.50	42.89
<b>Renewables</b>	2.99	2.73	4.78	5.11
<b>Other</b>	9.15	8.74		
<b>by sector</b>				
<b>Industry</b>	71.43	61.95	58.79	55.63
<b>Transport</b>	58.82	62.91	65.98	64.14
<b>Households</b>	57.56	62.99	58.86	60.36
<b>Commerce &amp; other</b>	39.33	34.49	29.64	30.36
<b>Non-Energy Uses</b>	22.80	22.82	25.19	24.51
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	945	870	826	849
<b>Energy intensity (toe/M€95)</b>	205	179	165	165
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.65	2.58	2.43	2.47
<b>Import dependency, %</b>	46.5	57.5	59.8	60.5
<b>Energy per capita (kgoe/cap)</b>	4487	4129	4140	4167
<b>CO<sub>2</sub> per capita (kg/cap)</b>	11906	10650	10055	10293

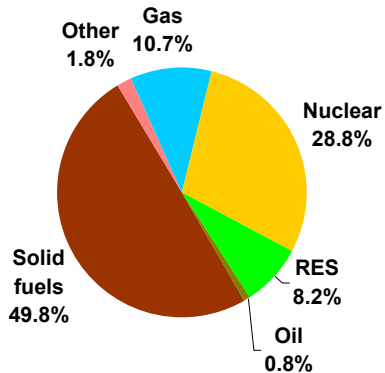
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## Germany (2002)

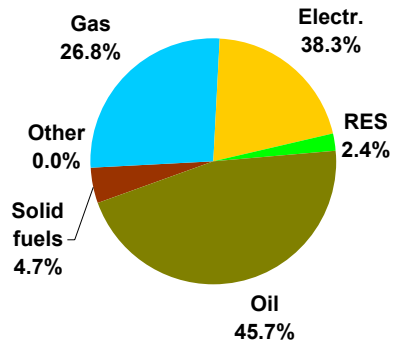
**Gross Inland Consumption**  
343.7 (Mtoe)



**Electricity Generation**  
571.6 (TWh)



**Final Energy Consumption**  
210.5 (Mtoe)



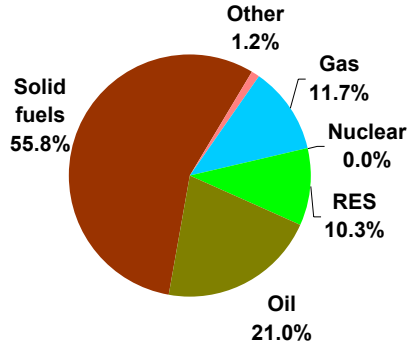
## Energy Statistics for Estonia

Mtoe	1990	1995	2000	2002
<b>Production</b>	5.47	3.35	3.17	3.62
Solid fuels	5.02	2.86	2.67	2.81
Oil			0.00	0.27
Gas				
Nuclear				
Renewables	0.45	0.49	0.50	0.54
Other				
<b>Net Imports</b>	4.46	1.93	1.49	1.49
Solid fuels	0.70	0.29	0.28	0.08
Oil	3.15	1.18	0.63	0.89
Gas	1.22	0.52	0.66	0.60
Electricity	-0.60	-0.07	-0.08	-0.06
Renewables			0.00	-0.02
Derived heat				
<b>Inland Consumption</b>	9.88	5.28	4.57	4.96
Solid fuels	5.94	3.30	2.98	2.84
Oil	2.87	1.04	0.51	1.07
Gas	1.22	0.52	0.66	0.60
Nuclear				
Renewables	0.46	0.48	0.50	0.52
Other	-0.60	-0.07	-0.08	-0.06
<b>Elec. Generation (TWh)</b>	17.18	8.69	8.51	8.53
Coal (TWh)	14.92	8.38	7.68	7.75
Oil (TWh)	1.44	0.10	0.06	0.03
Gas (TWh)	0.82	0.20	0.76	0.71
Nuclear (TWh)				
Renewables (TWh) (*)		0.00	0.02	0.04
Other (TWh)		0.01		
<b>Final Energy Demand</b>	6.00	2.65	2.36	2.59
<b>by fuel/product</b>				
Solid fuels	0.69	0.19	0.12	0.09
Oil	1.80	0.86	0.75	0.93
Gas	0.44	0.19	0.13	0.18
Electricity	0.59	0.39	0.43	0.45
Renewables	0.40	0.43	0.42	0.42
Other	2.09	0.59	0.51	0.51
<b>by sector</b>				
Industry	2.73	0.78	0.53	0.52
Transport	0.84	0.49	0.58	0.68
Households	1.27	1.12	0.93	0.95
Commerce & other	1.16	0.26	0.33	0.43
<b>Non-Energy Uses</b>	0.08	0.21	0.22	0.13
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	37	16	14	14
<b>Energy intensity (toe/M€95)</b>		1837	1215	1156
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	3.75	3.01	3.05	2.80
<b>Import dependency, %</b>	44.4	36.0	31.8	29.2
<b>Energy per capita (kgoe/cap)</b>	6291	3646	3332	3646
<b>CO<sub>2</sub> per capita (kg/cap)</b>	23606	10982	10154	10194

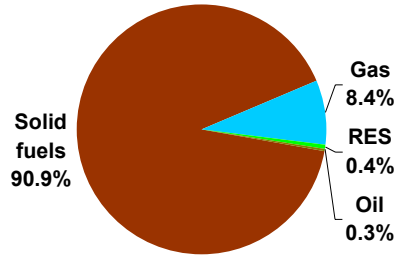
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## Estonia (2002)

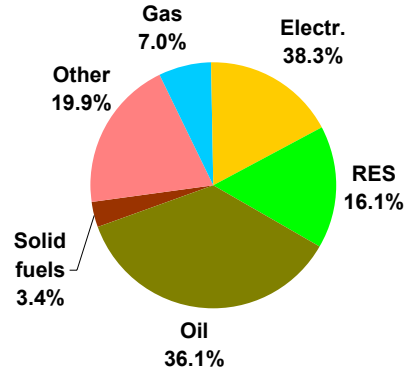
**Gross Inland Consumption**  
5.0 (Mtoe)



**Electricity Generation**  
8.5 (TWh)



**Final Energy Consumption**  
2.6 (Mtoe)



## Energy Statistics for Greece

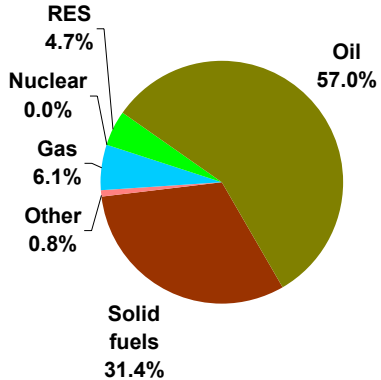
Mtoe	1990	1995	2000	2002
<b>Production</b>	9.15	9.70	9.95	10.67
Solid fuels	7.08	7.91	8.22	8.91
Oil	0.83	0.46	0.28	0.32
Gas	0.14	0.04	0.04	0.04
Nuclear				
Renewables	1.10	1.29	1.40	1.40
Other				
<b>Net Imports</b>	15.37	18.21	21.98	23.21
Solid fuels	0.99	0.92	0.77	0.64
Oil	14.32	17.21	19.53	20.57
Gas			1.69	1.75
Electricity	0.06	0.07	0.00	0.25
Renewables				
Derived heat				
<b>Inland Consumption</b>	22.25	24.14	28.08	29.74
Solid fuels	8.09	8.78	9.04	9.34
Oil	12.85	13.95	15.93	16.95
Gas	0.14	0.04	1.70	1.80
Nuclear				
Renewables	1.10	1.29	1.40	1.40
Other	0.06	0.07	0.00	0.25
<b>Elec. Generation (TWh)</b>	35.00	41.55	53.84	54.61
Coal (TWh)	25.17	28.70	34.31	34.57
Oil (TWh)	7.74	8.86	8.89	8.63
Gas (TWh)	0.09	0.08	5.92	7.06
Nuclear (TWh)				
Renewables (TWh) (*)	1.77	3.56	4.14	3.45
Other (TWh)	0.23	0.36	0.58	0.90
<b>Final Energy Demand</b>	14.53	15.81	18.51	19.50
<b>by fuel/product</b>				
Solid fuels	1.07	1.08	0.89	0.75
Oil	10.05	10.80	12.58	13.32
Gas	0.01	0.01	0.25	0.35
Electricity	2.45	2.93	3.71	4.00
Renewables	0.95	0.98	1.05	1.05
Other			0.03	0.03
<b>by sector</b>				
Industry	3.95	4.11	4.43	4.46
Transport	5.82	6.43	7.20	7.46
Households	3.05	3.33	4.47	4.90
Commerce & other	1.71	1.94	2.41	2.68
<b>Non-Energy Uses</b>	0.64	0.44	0.65	0.71
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	71	78	89	94
<b>Energy intensity (toe/M€95)</b>	263	269	264	258
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	3.20	3.24	3.18	3.15
<b>Import dependency, %</b>	62.1	65.8	69.5	70.7
<b>Energy per capita (kgoe/cap)</b>	2189	2270	2571	2716
<b>CO<sub>2</sub> per capita (kg/cap)</b>	6998	7355	8178	8559

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

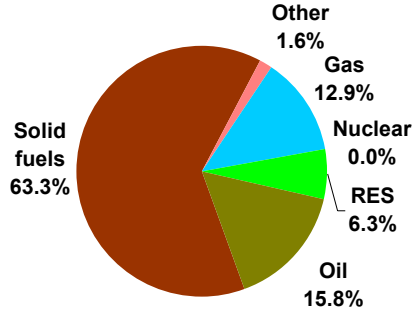
## Greece (2002)

2.6.8

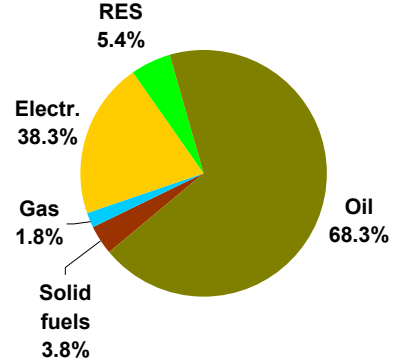
**Gross Inland Consumption**  
29.7 (Mtoe)



**Electricity Generation**  
54.6 (TWh)



**Final Energy Consumption**  
19.5 (Mtoe)



2.6.8

## Energy Statistics for Spain

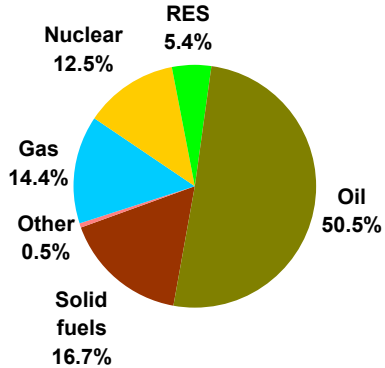
Mtoe	1990	1995	2000	2002
<b>Production</b>	33.72	31.36	31.40	31.59
Solid fuels	11.68	10.17	7.74	7.45
Oil	0.79	0.78	0.23	0.31
Gas	1.27	0.38	0.15	0.47
Nuclear	13.70	14.30	16.05	16.26
Renewables	6.26	5.60	7.09	6.95
Other	0.02	0.12	0.16	0.16
<b>Net Imports</b>	59.86	75.42	98.35	107.04
Solid fuels	7.04	9.15	12.64	14.38
Oil	49.17	58.36	69.87	73.27
Gas	3.69	7.52	15.47	18.93
Electricity	-0.04	0.39	0.38	0.46
Renewables				
Derived heat				
<b>Inland Consumption</b>	89.40	102.21	122.75	129.89
Solid fuels	18.94	19.52	20.64	21.69
Oil	45.55	54.56	63.22	65.63
Gas	4.97	7.72	15.22	18.75
Nuclear	13.70	14.30	16.05	16.26
Renewables	6.26	5.60	7.09	6.95
Other	-0.02	0.51	0.54	0.61
<b>Elec. Generation (TWh)</b>	151.84	167.33	225.15	246.08
Coal (TWh)	59.73	65.91	79.10	81.18
Oil (TWh)	8.60	14.62	22.64	28.59
Gas (TWh)	2.44	4.92	22.46	33.66
Nuclear (TWh)	54.27	55.46	62.21	63.02
Renewables (TWh) (*)	26.03	24.59	36.02	36.20
Other (TWh)	0.77	1.83	2.73	3.43
<b>Final Energy Demand</b>	56.65	63.54	79.41	85.33
by fuel/product				
Solid fuels	3.52	2.23	1.67	1.80
Oil	33.49	38.97	45.78	48.16
Gas	4.87	6.84	12.13	14.08
Electricity	10.82	12.12	16.20	17.76
Renewables	3.93	3.26	3.47	3.46
Other	0.01	0.12	0.16	0.08
by sector				
Industry	20.01	20.47	25.47	28.18
Transport	22.33	26.07	32.85	34.73
Households	9.27	9.99	11.88	12.80
Commerce & other	5.04	7.01	9.21	9.62
<b>Non-Energy Uses</b>	5.85	8.01	9.10	8.93
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	204	226	284	305
<b>Energy intensity (toe/M€95)</b>	216	229	227	229
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.28	2.21	2.31	2.35
<b>Import dependency, %</b>	64.2	71.6	76.4	78.3
<b>Energy per capita (kgoe/cap)</b>	2301	2606	3074	3203
<b>CO<sub>2</sub> per capita (kg/cap)</b>	5238	5770	7110	7516

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

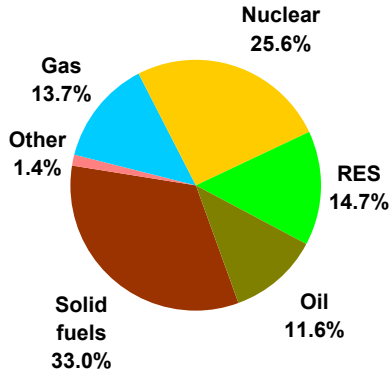


## Spain (2002)

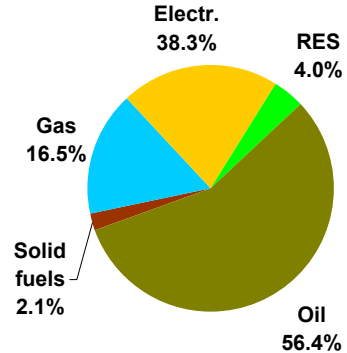
**Gross Inland Consumption**  
129.9 (Mtoe)



**Electricity Generation**  
246.1 (TWh)



**Final Energy Consumption**  
85.3 (Mtoe)



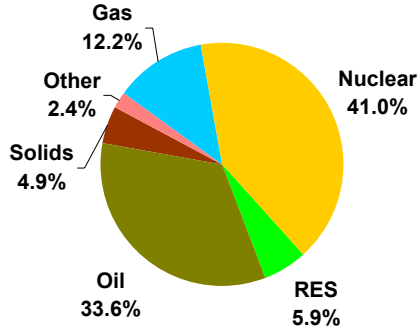
## Energy Statistics for France

Mtoe	1990	1995	2000	2002
<b>Production</b>	108.32	123.32	130.88	132.85
Solid fuels	7.63	5.36	2.27	1.12
Oil	3.49	3.29	2.47	1.78
Gas	2.42	2.79	1.50	1.20
Nuclear	79.13	93.99	107.09	112.66
Renewables	15.66	17.90	17.54	16.09
Other				
<b>Net Imports</b>	119.76	115.30	133.46	132.90
Solid fuels	13.00	9.01	13.20	12.53
Oil	86.56	85.42	90.45	93.95
Gas	24.10	26.88	35.78	33.03
Electricity	-3.91	-6.01	-5.97	-6.61
Renewables			0.00	
Derived heat				
<b>Inland Consumption</b>	223.12	235.63	258.06	261.39
Solid fuels	19.96	15.29	15.24	13.52
Oil	87.67	85.50	88.39	92.13
Gas	24.61	28.96	35.77	33.60
Nuclear	79.13	93.99	107.09	112.66
Renewables	15.66	17.90	17.54	16.09
Other	-3.91	-6.01	-5.97	-6.61
<b>Elec. Generation (TWh)</b>	419.96	493.44	540.65	558.79
Coal (TWh)	31.47	24.18	24.93	22.28
Oil (TWh)	8.87	7.75	7.20	9.04
Gas (TWh)	6.77	6.15	17.60	20.50
Nuclear (TWh)	314.08	377.23	415.16	436.76
Renewables (TWh) (*)	54.77	73.56	70.88	64.89
Other (TWh)	4.00	4.58	4.88	5.32
<b>Final Energy Demand</b>	136.00	141.24	151.56	151.32
by fuel/product				
Solid fuels	9.05	6.90	5.77	5.38
Oil	67.57	68.03	71.43	73.81
Gas	23.69	27.10	31.39	29.44
Electricity	25.96	29.46	33.11	33.79
Renewables	9.73	9.75	9.86	8.89
Other				
by sector				
Industry	36.88	37.05	36.01	36.95
Transport	41.91	44.12	51.60	51.40
Households	35.75	36.09	38.31	37.60
Commerce & other	21.46	23.98	25.65	25.37
<b>Non-Energy Uses</b>	13.08	16.59	15.67	14.01
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	354	345	371	365
<b>Energy intensity (toe/M€95)</b>	198	198	190	187
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	1.59	1.46	1.44	1.40
<b>Import dependency, %</b>	53.1	48.4	51.1	50.3
<b>Energy per capita (kgoe/cap)</b>	3836	3966	4259	4269
<b>CO<sub>2</sub> per capita (kg/cap)</b>	6088	5806	6127	5962

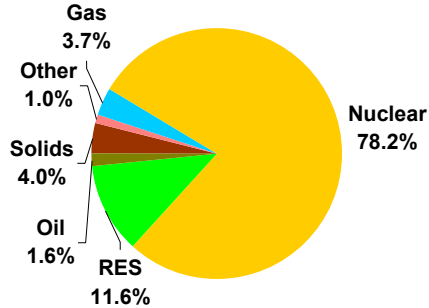
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## France (2002)

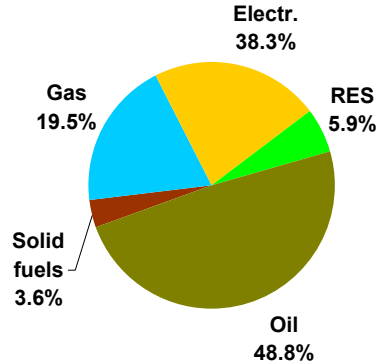
**Gross Inland Consumption**  
261.4 (Mtoe)



**Electricity Generation**  
558.8 (TWh)



**Final Energy Consumption**  
151.3 (Mtoe)



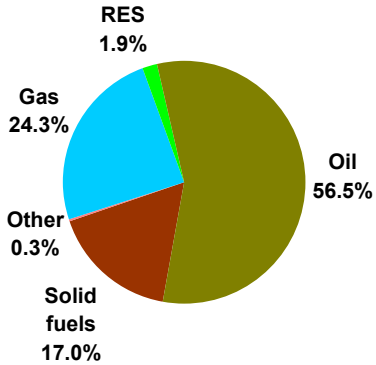
## Energy Statistics for Ireland

Mtoe	1990	1995	2000	2002
<b>Production</b>	3.47	4.26	2.11	1.50
Solid fuels	1.43	1.78	0.89	0.53
Oil				
Gas	1.87	2.25	0.96	0.68
Nuclear				
Renewables	0.17	0.22	0.26	0.29
Other				
<b>Net Imports</b>	7.09	7.61	12.21	13.66
Solid fuels	2.08	1.83	1.70	1.81
Oil	5.01	5.70	8.03	8.80
Gas		0.08	2.48	3.00
Electricity		0.00	0.01	0.04
Renewables				
Derived heat				
<b>Inland Consumption</b>	10.34	11.03	14.24	15.16
Solid fuels	3.53	2.90	2.57	2.58
Oil	4.77	5.57	7.97	8.56
Gas	1.87	2.33	3.44	3.68
Nuclear				
Renewables	0.17	0.22	0.26	0.29
Other		0.00	0.01	0.04
<b>Elec. Generation (TWh)</b>	14.51	17.86	23.98	25.20
Coal (TWh)	8.17	9.04	8.59	8.89
Oil (TWh)	1.43	2.68	4.64	3.74
Gas (TWh)	3.93	5.16	9.26	10.83
Nuclear (TWh)				
Renewables (TWh) (*)	0.69	0.73	1.19	1.38
Other (TWh)	0.29	0.26	0.30	0.35
<b>Final Energy Demand</b>	7.11	7.75	10.51	11.04
<b>by fuel/product</b>				
Solid fuels	1.56	0.88	0.56	0.49
Oil	3.85	4.63	6.87	7.32
Gas	0.57	0.80	1.20	1.20
Electricity	1.02	1.28	1.74	1.88
Renewables	0.11	0.16	0.14	0.16
Other				
<b>by sector</b>				
Industry	1.74	1.91	2.27	2.22
Transport	1.97	2.18	3.92	4.38
Households	2.22	2.19	2.48	2.62
Commerce & other	1.19	1.46	1.83	1.81
<b>Non-Energy Uses</b>	0.62	0.55	0.55	0.61
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	30	33	42	43
<b>Energy intensity (toe/M€95)</b>	256	217	175	164
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.86	2.96	2.92	2.86
<b>Import dependency, %</b>	68.4	68.3	84.9	89.3
<b>Energy per capita (kgoe/cap)</b>	2950	3062	3749	3878
<b>CO<sub>2</sub> per capita (kg/cap)</b>	8443	9055	10934	11073

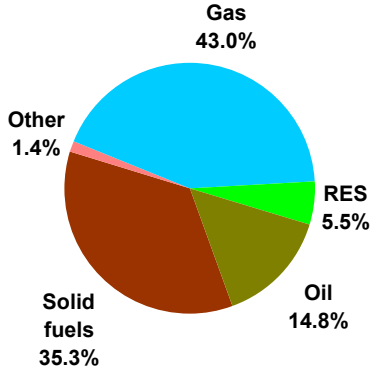
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

Ireland (2002)

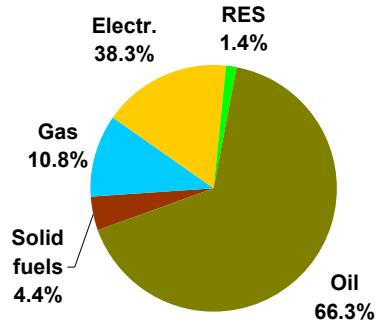
Gross Inland Consumption  
15.2 (Mtoe)



Electricity Generation  
25.2 (TWh)



Final Energy Consumption  
11.0 (Mtoe)



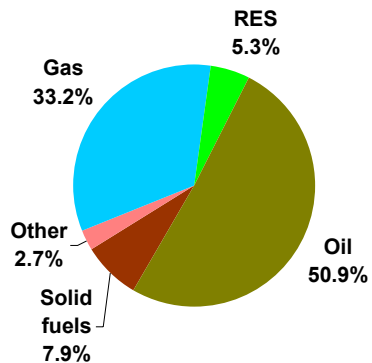
## Energy Statistics for Italy

Mtoe	1990	1995	2000	2002
<b>Production</b>	25.62	29.37	26.91	26.53
Solid fuels	0.34	0.10	0.00	0.10
Oil	4.70	5.29	4.61	5.57
Gas	14.03	16.35	13.62	11.98
Nuclear				
Renewables	6.39	7.54	8.55	8.56
Other	0.15	0.10	0.13	0.33
<b>Net Imports</b>	132.04	134.92	153.07	153.02
Solid fuels	13.79	12.99	13.19	13.11
Oil	89.88	89.96	88.58	86.48
Gas	25.30	28.53	47.01	48.52
Electricity	2.98	3.22	3.81	4.35
Renewables	0.09	0.23	0.49	0.57
Derived heat				
<b>Inland Consumption</b>	153.08	161.50	172.48	173.55
Solid fuels	14.64	12.33	12.66	13.72
Oil	89.82	93.43	88.90	88.33
Gas	39.00	44.65	57.94	57.71
Nuclear				
Renewables	6.48	7.77	9.03	9.13
Other	3.13	3.32	3.95	4.68
<b>Elec. Generation (TWh)</b>	216.88	241.11	276.62	284.40
Coal (TWh)	32.04	24.12	26.27	35.45
Oil (TWh)	102.71	120.80	85.88	87.77
Gas (TWh)	42.18	50.44	105.61	104.44
Nuclear (TWh)				
Renewables (TWh) (*)	35.02	41.62	51.20	47.96
Other (TWh)	4.93	4.13	7.67	8.80
<b>Final Energy Demand</b>	107.10	113.69	123.04	124.53
<b>by fuel/product</b>				
Solid fuels	4.28	4.14	3.51	3.23
Oil	53.62	53.10	56.15	57.24
Gas	29.68	34.51	37.94	37.86
Electricity	18.41	20.44	23.43	24.27
Renewables	0.97	1.42	1.94	1.86
Other	0.14	0.08	0.06	0.06
<b>by sector</b>				
Industry	36.13	36.42	39.27	38.90
Transport	33.40	37.64	41.26	42.38
Households	30.52	31.69	33.90	27.33
Commerce & other	7.04	7.95	8.60	15.92
<b>Non-Energy Uses</b>	9.84	13.88	11.04	10.50
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	388	402	422	430
<b>Energy intensity (toe/M€95)</b>	194	192	187	184
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.54	2.49	2.44	2.48
<b>Import dependency, %</b>	84.8	82.3	87.4	86.7
<b>Energy per capita (kgoe/cap)</b>	2699	2818	2986	2991
<b>CO<sub>2</sub> per capita (kg/cap)</b>	6845	7024	7300	7406

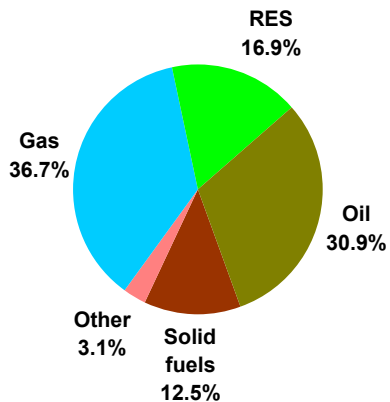
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## Italy (2002)

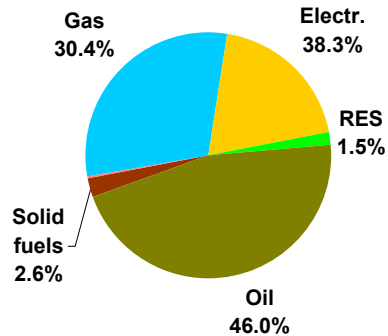
**Gross Inland Consumption**  
173.6 (Mtoe)



**Electricity Generation**  
284.4 (TWh)



**Final Energy Consumption**  
124.5 (Mtoe)



## Energy Statistics for Cyprus

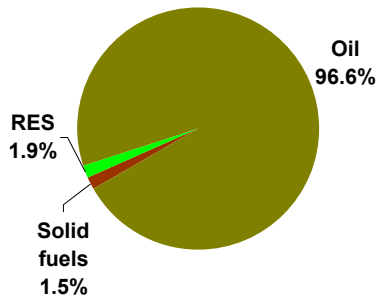
Mtoe	1990	1995	2000	2002
<b>Production</b>	0.01	0.01	0.05	0.04
Solid fuels				
Oil				
Gas				
Nuclear				
Renewables	0.01	0.01	0.05	0.04
Other				
<b>Net Imports</b>	1.93	2.03	2.55	2.57
Solid fuels	0.07	0.02	0.04	0.04
Oil	1.87	2.01	2.51	2.52
Gas				
Electricity				
Renewables			0.00	0.00
Derived heat				
<b>Inland Consumption</b>	1.82	1.95	2.39	2.42
Solid fuels	0.06	0.01	0.03	0.04
Oil	1.76	1.92	2.31	2.34
Gas				
Nuclear				
Renewables	0.01	0.01	0.05	0.04
Other				
<b>Elec. Generation (TWh)</b>	1.97	2.47	3.37	3.79
Coal (TWh)				
Oil (TWh)	1.97	2.47	3.37	3.79
Gas (TWh)				
Nuclear (TWh)				
Renewables (TWh) (*)				
Other (TWh)				
<b>Final Energy Demand</b>	1.27	1.39	1.64	1.65
<b>by fuel/product</b>				
Solid fuels	0.08	0.01	0.03	0.04
Oil	1.04	1.17	1.31	1.27
Gas				
Electricity	0.15	0.19	0.26	0.29
Renewables	0.01	0.01	0.05	0.04
Other				
<b>by sector</b>				
Industry	0.42	0.40	0.45	0.37
Transport	0.64	0.75	0.85	0.90
Households	0.12	0.15	0.22	0.23
Commerce & other	0.08	0.09	0.13	0.15
<b>Non-Energy Uses</b>	0.06	0.06	0.08	0.08
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	6	6	7	7
<b>Energy intensity (toe/M€95)</b>	337	287	293	280
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	3.03	2.99	2.95	2.83
<b>Import dependency, %</b>	103.1	100.7	98.8	100.5
<b>Energy per capita (kgoe/cap)</b>	3143	2992	3447	3408
<b>CO<sub>2</sub> per capita (kg/cap)</b>	9530	8953	10170	9646

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

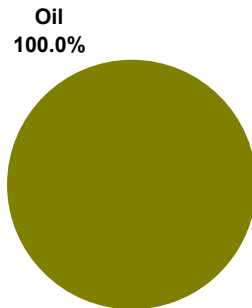


## Cyprus (2002)

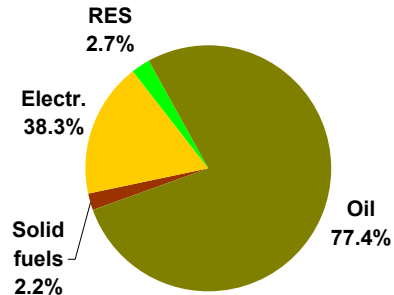
**Gross Inland Consumption**  
2.4 (Mtoe)



**Electricity Generation**  
3.8 (TWh)



**Final Energy Consumption**  
1.6 (Mtoe)



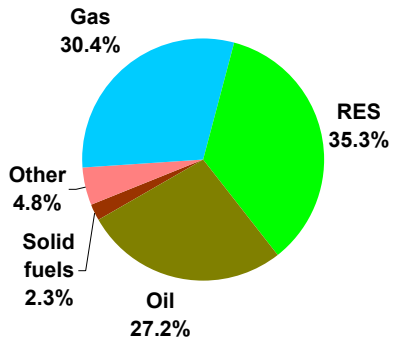
## Energy Statistics for Latvia

Mtoe	1990	1995	2000	2002
<b>Production</b>	0.44	0.32	1.26	1.87
Solid fuels	0.05	0.06	0.03	0.03
Oil				
Gas				
Nuclear				
Renewables	0.39	0.25	1.23	1.84
Other				
<b>Net Imports</b>	3.85	3.39	2.30	2.42
Solid fuels	0.61	0.16	0.06	0.08
Oil	0.63	2.05	1.14	1.32
Gas	2.31	1.00	1.11	1.14
Electricity	0.31	0.19	0.15	0.20
Renewables			-0.17	-0.32
Derived heat				
<b>Inland Consumption</b>	4.11	3.72	3.68	4.24
Solid fuels	0.64	0.26	0.17	0.10
Oil	0.63	2.00	1.20	1.15
Gas	2.14	1.01	1.09	1.29
Nuclear				
Renewables	0.39	0.25	1.06	1.50
Other	0.31	0.19	0.15	0.20
<b>Elec. Generation (TWh)</b>	6.65	3.98	4.14	3.98
Coal (TWh)		0.10	0.08	0.04
Oil (TWh)	2.15	0.42	0.11	0.14
Gas (TWh)		0.53	1.13	1.32
Nuclear (TWh)				
Renewables (TWh) (*)	4.50	2.94	2.82	2.49
Other (TWh)				
<b>Final Energy Demand</b>	3.05	2.84	2.91	3.68
<b>by fuel/product</b>				
Solid fuels	0.31	0.11	0.06	0.07
Oil	0.63	1.18	0.94	1.10
Gas	0.58	0.29	0.33	0.45
Electricity	0.75	0.38	0.38	0.42
Renewables			0.62	1.02
Other	0.78	0.88	0.59	0.63
<b>by sector</b>				
Industry	0.67	0.54	0.67	0.70
Transport	0.53	0.86	0.69	0.89
Households	1.30	0.88	0.97	1.43
Commerce & other	0.55	0.56	0.59	0.66
<b>Non-Energy Uses</b>		0.01	0.08	0.07
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	9	9	6	7
<b>Energy intensity (toe/M€95)</b>	540	994	756	759
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.23	2.43	1.74	1.65
<b>Import dependency, %</b>	93.8	91.3	62.6	54.6
<b>Energy per capita (kgoe/cap)</b>	1538	1496	1549	1815
<b>CO<sub>2</sub> per capita (kg/cap)</b>	3433	3632	2688	3000

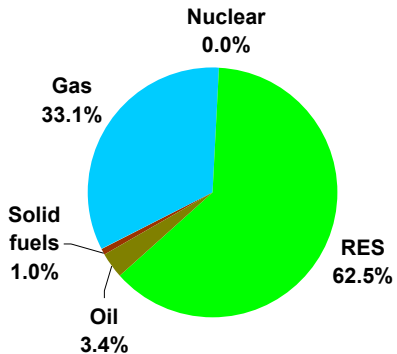
Source: Eurostat (\*) not including pumping (\*\*\*) without maritime bunkers

## Latvia (2002)

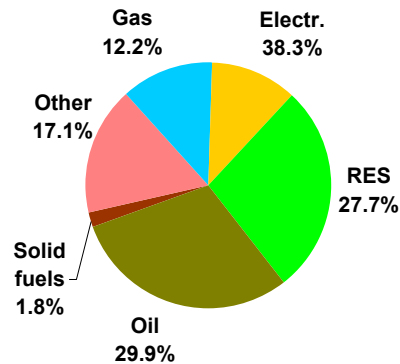
**Gross Inland Consumption**  
4.2 (Mtoe)



**Electricity Generation**  
4.0 (TWh)



**Final Energy Consumption**  
3.7 (Mtoe)



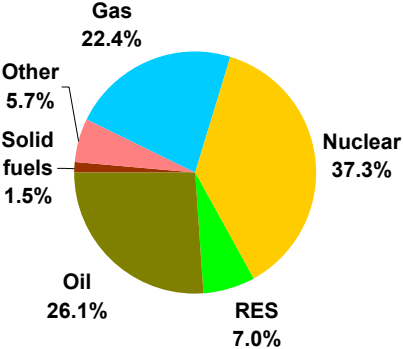
## Energy Statistics for Lithuania

Mtoe	1990	1995	2000	2002
<b>Production</b>	4.48	3.29	3.18	4.85
Solid fuels	0.01	0.01	0.01	0.01
Oil	0.01	0.13	0.34	0.49
Gas				
Nuclear	4.42	3.11	2.17	3.65
Renewables	0.04	0.03	0.66	0.69
Other				
<b>Net Imports</b>	11.94	5.67	4.35	3.75
Solid fuels	0.88	0.18	0.09	0.14
Oil	7.26	3.69	2.30	1.99
Gas	4.82	2.03	2.09	2.20
Electricity	-1.03	-0.23	-0.11	-0.56
Renewables			-0.01	-0.02
Derived heat				
<b>Inland Consumption</b>	16.05	8.31	7.23	8.67
Solid fuels	0.93	0.28	0.10	0.15
Oil	6.87	3.09	2.33	2.55
Gas	4.82	2.03	2.09	2.20
Nuclear	4.42	3.11	2.17	3.65
Renewables	0.04	0.03	0.65	0.69
Other	-1.03	-0.23	-0.11	-0.56
<b>Elec. Generation (TWh)</b>	28.41	13.94	11.42	17.72
Coal (TWh)				
Oil (TWh)	7.12	1.12	0.65	0.74
Gas (TWh)	3.84	0.25	1.60	1.92
Nuclear (TWh)	17.03	11.82	8.42	14.14
Renewables (TWh) (*)	0.41	0.37	0.34	0.36
Other (TWh)		0.38	0.41	0.57
<b>Final Energy Demand</b>	9.87	4.36	3.64	3.89
<b>by fuel/product</b>				
Solid fuels	0.85	0.24	0.09	0.14
Oil	4.25	1.66	1.35	1.40
Gas	0.64	0.37	0.37	0.41
Electricity	1.02	0.55	0.53	0.58
Renewables			0.58	0.59
Other	3.10	1.55	0.72	0.78
<b>by sector</b>				
Industry	3.52	1.22	0.68	0.74
Transport	2.17	1.04	1.05	1.18
Households	1.66	1.24	1.34	1.39
Commerce & other	2.52	0.86	0.57	0.59
<b>Non-Energy Uses</b>	0.85	0.56	0.66	0.79
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	34	14	10	11
<b>Energy intensity (toe/M€95)</b>	1905	1701	1205	1273
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.09	1.63	1.43	1.26
<b>Import dependency, %</b>	73.9	67.1	59.5	42.7
<b>Energy per capita (kgoe/cap)</b>	4341	2291	2064	2500
<b>CO<sub>2</sub> per capita (kg/cap)</b>	9065	3729	2942	3157

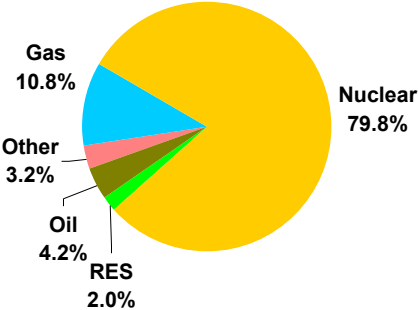
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

Lithuania (2002)

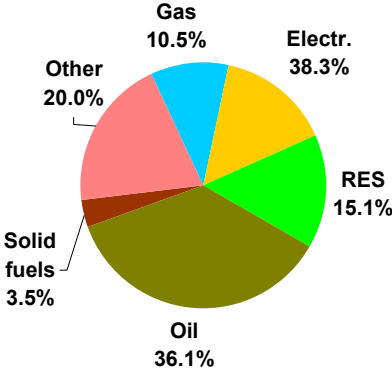
Gross Inland Consumption  
8.7 (Mtoe)



Electricity Generation  
17.7 (TWh)



Final Energy Consumption  
3.9 (Mtoe)



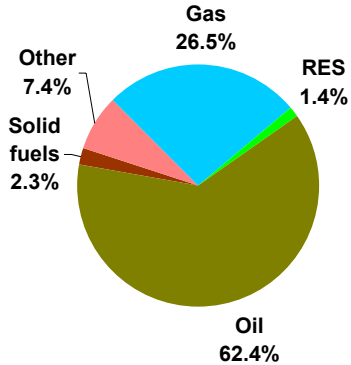
## Energy Statistics for Luxembourg

Mtoe	1990	1995	2000	2002
<b>Production</b>	0.05	0.05	0.06	0.06
Solid fuels				
Oil				
Gas				
Nuclear				
Renewables	0.05	0.05	0.06	0.06
Other				
<b>Net Imports</b>	3.52	3.26	3.62	3.94
Solid fuels	1.13	0.51	0.13	0.09
Oil	1.62	1.76	2.33	2.50
Gas	0.43	0.56	0.67	1.05
Electricity	0.34	0.43	0.49	0.30
Renewables				
Derived heat				
<b>Inland Consumption</b>	3.55	3.34	3.63	3.98
Solid fuels	1.13	0.51	0.13	0.09
Oil	1.61	1.79	2.28	2.48
Gas	0.43	0.56	0.67	1.05
Nuclear				
Renewables	0.05	0.05	0.06	0.06
Other	0.34	0.43	0.49	0.30
<b>Elec. Generation (TWh)</b>	1.38	1.24	1.18	3.68
Coal (TWh)				
Oil (TWh)	0.03	0.01		
Gas (TWh)	0.49	0.34	0.23	2.59
Nuclear (TWh)				
Renewables (TWh) (*)	0.11	0.14	0.20	0.20
Other (TWh)	0.75	0.75	0.74	0.88
<b>Final Energy Demand</b>	3.32	3.15	3.54	3.73
<b>by fuel/product</b>				
Solid fuels	0.75	0.37	0.12	0.09
Oil	1.58	1.75	2.27	2.47
Gas	0.62	0.58	0.62	0.63
Electricity	0.35	0.43	0.49	0.49
Renewables	0.02	0.02	0.02	0.02
Other			0.03	0.04
<b>by sector</b>				
Industry	1.72	1.18	0.95	0.89
Transport	1.01	1.31	1.88	2.13
Households	0.52	0.56	0.60	0.62
Commerce & other	0.07	0.10	0.12	0.11
<b>Non-Energy Uses</b>	0.02	0.02	0.01	0.01
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	11	9	9	10
<b>Energy intensity (toe/M€95)</b>	312	241	186	198
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.99	2.61	2.43	2.57
<b>Import dependency, %</b>	99.0	97.7	99.8	99.0
<b>Energy per capita (kgoe/cap)</b>	9299	8141	8273	8919
<b>CO<sub>2</sub> per capita (kg/cap)</b>	27823	21262	20140	22947

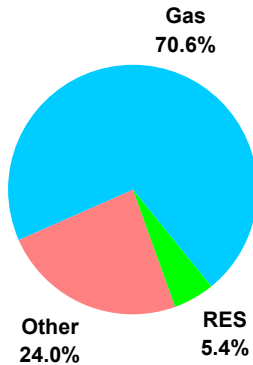
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## Luxembourg (2002)

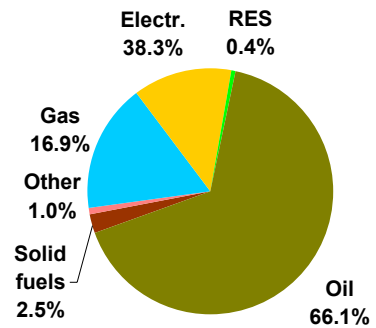
**Gross Inland Consumption**  
4.0 (Mtoe)



**Electricity Generation**  
3.7 (TWh)



**Final Energy Consumption**  
3.7 (Mtoe)



## Energy Statistics for Hungary

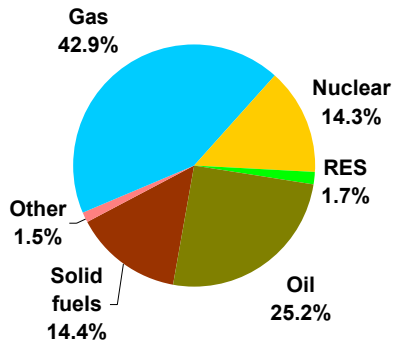
Mtoe	1990	1995	2000	2002
<b>Production</b>	13.64	12.84	11.13	10.57
Solid fuels	3.95	3.10	2.89	2.68
Oil	2.32	2.33	1.67	1.51
Gas	3.81	3.79	2.48	2.36
Nuclear	3.54	3.62	3.66	3.60
Renewables	0.02	0.01	0.44	0.42
Other				
<b>Net Imports</b>	14.40	12.60	14.01	14.64
Solid fuels	1.65	1.37	1.08	0.89
Oil	6.62	5.50	5.35	4.68
Gas	5.17	5.53	7.28	8.70
Electricity	0.96	0.21	0.30	0.37
Renewables				
Derived heat				
<b>Inland Consumption</b>	28.10	25.22	24.94	25.17
Solid fuels	5.94	4.52	3.97	3.62
Oil	8.73	7.69	6.93	6.35
Gas	8.91	9.17	9.66	10.81
Nuclear	3.54	3.62	3.66	3.60
Renewables	0.02	0.01	0.44	0.42
Other	0.96	0.21	0.30	0.38
<b>Elec. Generation (TWh)</b>	28.44	34.02	35.19	36.16
Coal (TWh)	8.55	9.08	9.59	8.98
Oil (TWh)	1.35	5.28	4.40	2.14
Gas (TWh)	4.63	5.46	6.73	10.82
Nuclear (TWh)	13.73	14.03	14.18	13.95
Renewables (TWh) (*)	0.21	0.26	0.29	0.26
Other (TWh)	-0.03	-0.10		
<b>Final Energy Demand</b>	18.76	15.16	15.80	16.49
<b>by fuel/product</b>				
Solid fuels	2.51	0.97	0.79	0.70
Oil	6.00	4.15	4.17	4.35
Gas	5.94	6.37	6.50	7.07
Electricity	2.72	2.39	2.53	2.71
Renewables			0.36	0.35
Other	1.59	1.29	1.44	1.31
<b>by sector</b>				
Industry	6.53	3.81	3.49	3.75
Transport	3.01	2.65	3.25	3.48
Households	5.99	5.45	5.28	5.57
Commerce & other	3.22	3.25	3.78	3.69
<b>Non-Energy Uses</b>	1.71	1.60	1.58	1.19
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	66	57	54	55
<b>Energy intensity (toe/M€95)</b>	738	739	600	564
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.33	2.25	2.16	2.17
<b>Import dependency, %</b>	51.3	50.0	56.2	58.2
<b>Energy per capita (kgoe/cap)</b>	2709	2442	2443	2478
<b>CO<sub>2</sub> per capita (kg/cap)</b>	6319	5506	5264	5388

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

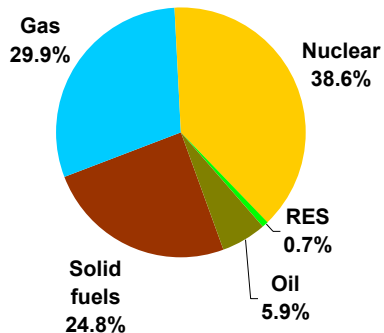


## Hungary (2002)

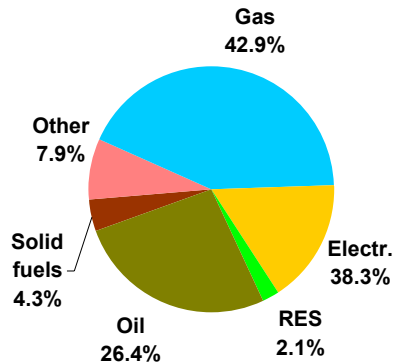
**Gross Inland Consumption**  
25.2 (Mtoe)



**Electricity Generation**  
36.2 (TWh)



**Final Energy Consumption**  
16.5 (Mtoe)



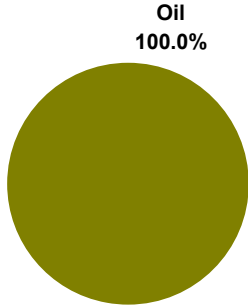
## Energy Statistics for Malta

Mtoe	1990	1995	2000	2002
<b>Production</b>	0.00	0.00	0.00	0.00
Solid fuels				
Oil				
Gas				
Nuclear				
Renewables				
Other				
<b>Net Imports</b>	0.61	0.88	1.23	1.32
Solid fuels				
Oil	0.61	0.88	1.23	1.32
Gas				
Electricity				
Renewables				
Derived heat				
<b>Inland Consumption</b>	0.58	0.80	0.94	0.82
Solid fuels				
Oil	0.58	0.80	0.94	0.82
Gas				
Nuclear				
Renewables				
Other				
<b>Elec. Generation (TWh)</b>	1.10	1.63	1.92	1.99
Coal (TWh)	0.62	0.09		
Oil (TWh)	0.49	1.54	1.92	1.99
Gas (TWh)				
Nuclear (TWh)				
Renewables (TWh) (*)				
Other (TWh)				
<b>Final Energy Demand</b>	0.33	0.44	0.52	0.45
<b>by fuel/product</b>				
Solid fuels				
Oil	0.25	0.33	0.37	0.28
Gas				
Electricity	0.08	0.11	0.15	0.16
Renewables				
Other				
<b>by sector</b>				
Industry		0.04	0.07	0.07
Transport	0.22	0.29	0.32	0.27
Households	0.06	0.07	0.08	0.06
Commerce & other	0.06	0.03	0.05	0.05
<b>Non-Energy Uses</b>	0.01			
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	2	2	3	3
<b>Energy intensity (toe/M€95)</b>		320	303	263
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	3.06	3.10	2.92	3.12
<b>Import dependency, %</b>	100.0	104.5	100.5	100.0
<b>Energy per capita (kgoe/cap)</b>	1613	2105	2410	2078
<b>CO<sub>2</sub> per capita (kg/cap)</b>	4933	6525	7032	6493

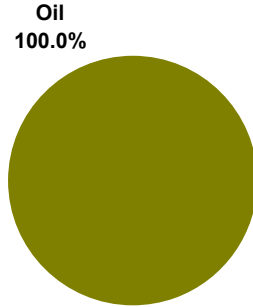
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

**Malta (2002)**

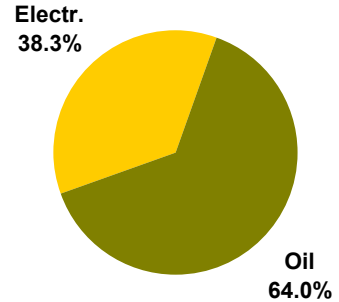
**Gross Inland Consumption**  
0.8 (Mtoe)



**Electricity Generation**  
2.0 (TWh)



**Final Energy Consumption**  
0.4 (Mtoe)



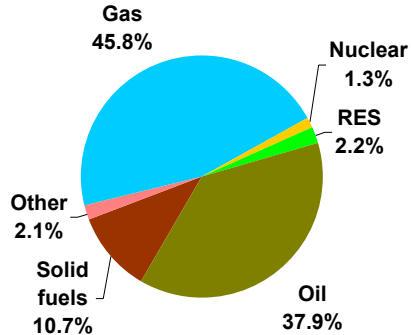
## Energy Statistics for Netherlands

Mtoe	1990	1995	2000	2002
<b>Production</b>	60.29	65.99	57.17	60.39
<b>Solid fuels</b>				
Oil	4.03	3.56	2.42	3.15
Gas	54.61	60.46	51.90	54.27
Nuclear	0.88	1.04	1.01	1.01
Renewables	0.77	0.90	1.62	1.74
Other		0.03	0.21	0.21
<b>Net Imports</b>	17.41	16.34	34.28	31.29
<b>Solid fuels</b>	9.55	8.90	8.17	8.14
Oil	30.88	32.83	41.67	40.19
Gas	-23.80	-26.37	-17.19	-18.45
Electricity	0.79	0.98	1.63	1.41
Renewables				
Derived heat				
<b>Inland Consumption</b>	66.84	73.36	75.66	78.20
<b>Solid fuels</b>	9.18	9.08	7.98	8.38
Oil	24.42	27.24	28.50	29.60
Gas	30.81	34.09	34.71	35.84
Nuclear	0.88	1.04	1.01	1.01
Renewables	0.77	0.90	1.62	1.74
Other	0.79	1.01	1.84	1.62
<b>Elec. Generation (TWh)</b>	71.97	81.07	89.62	95.97
Coal (TWh)	25.05	26.08	22.60	23.94
Oil (TWh)	3.09	3.87	3.13	2.82
Gas (TWh)	39.14	44.83	54.56	59.95
Nuclear (TWh)	3.50	4.02	3.93	3.92
Renewables (TWh) (*)	1.19	1.96	4.22	4.02
Other (TWh)		0.32	1.18	1.33
<b>Final Energy Demand</b>	42.63	47.43	49.74	50.64
<b>by fuel/product</b>				
Solid fuels	1.71	1.41	1.29	1.37
Oil	12.79	14.68	16.47	16.91
Gas	21.24	22.52	21.01	20.99
Electricity	6.32	7.14	8.42	8.58
Renewables	0.30	0.30	0.32	0.24
Other	0.27	1.38	2.24	2.56
<b>by sector</b>				
Industry	12.86	12.67	13.75	13.69
Transport	10.36	12.40	13.82	14.58
Households	9.77	11.12	10.29	10.13
Commerce & other	9.65	11.24	11.89	12.24
<b>Non-Energy Uses</b>	9.49	9.39	9.58	9.66
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	152	167	166	173
<b>Energy intensity (toe/M€95)</b>	234	231	198	202
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.27	2.28	2.20	2.21
<b>Import dependency, %</b>	22.4	19.3	38.5	33.8
<b>Energy per capita (kgoe/cap)</b>	4472	4745	4752	4842
<b>CO<sub>2</sub> per capita (kg/cap)</b>	10167	10823	10454	10707

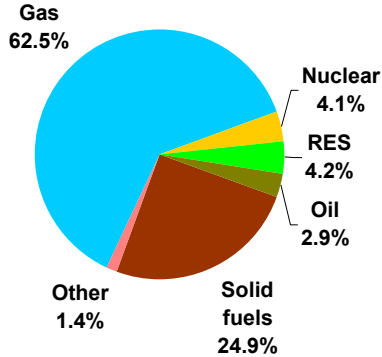
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## Netherlands (2002)

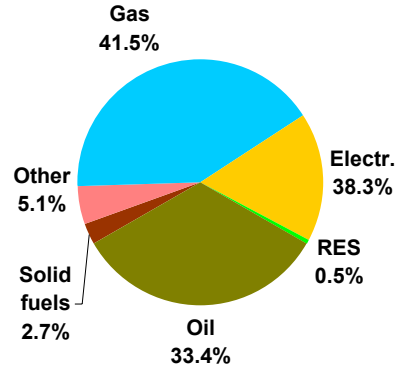
**Gross Inland Consumption**  
78.2 (Mtoe)



**Electricity Generation**  
96.0 (TWh)



**Final Energy Consumption**  
50.6 (Mtoe)



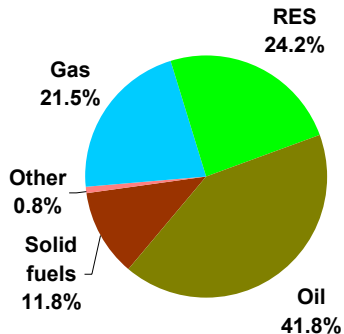
## Energy Statistics for Austria

Mtoe	1990	1995	2000	2002
<b>Production</b>	8.07	8.63	9.53	10.58
Solid fuels	0.64	0.30	0.29	0.33
Oil	1.18	1.06	1.05	1.02
Gas	1.10	1.26	1.53	1.60
Nuclear				
Renewables	5.01	5.86	6.50	7.44
Other	0.14	0.14	0.15	0.19
<b>Net Imports</b>	16.71	17.87	18.81	20.27
Solid fuels	3.11	2.54	3.05	3.31
Oil	9.15	10.12	10.68	12.20
Gas	4.44	5.40	5.25	4.72
Electricity	-0.04	-0.21	-0.12	0.06
Renewables	0.05	0.02	-0.05	-0.02
Derived heat				
<b>Inland Consumption</b>	24.52	26.77	28.43	30.73
Solid fuels	4.04	3.34	3.59	3.62
Oil	10.15	11.25	11.84	12.83
Gas	5.18	6.37	6.52	6.61
Nuclear				
Renewables	5.04	5.89	6.45	7.42
Other	0.10	-0.07	0.04	0.25
<b>Elec. Generation (TWh)</b>	50.29	56.59	61.82	62.48
Coal (TWh)	6.18	4.32	5.73	6.61
Oil (TWh)	1.88	2.16	1.64	1.60
Gas (TWh)	8.54	9.72	9.10	10.18
Nuclear (TWh)				
Renewables (TWh) (*)	32.58	38.22	43.53	41.70
Other (TWh)	1.11	2.16	1.83	2.39
<b>Final Energy Demand</b>	18.60	20.35	22.29	23.94
<b>by fuel/product</b>				
Solid fuels	1.16	0.89	0.76	0.62
Oil	8.02	8.78	9.58	10.70
Gas	2.96	3.63	4.21	3.54
Electricity	3.67	3.95	4.45	4.64
Renewables	2.09	2.16	2.21	3.18
Other	0.69	0.93	1.07	1.27
<b>by sector</b>				
Industry	5.26	5.56	6.50	6.38
Transport	4.99	5.53	6.52	7.23
Households	5.83	6.26	6.47	7.05
Commerce & other	2.51	3.00	2.79	3.29
<b>Non-Energy Uses</b>	2.09	1.84	2.10	2.11
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	52	56	58	61
<b>Energy intensity (toe/M€95)</b>	151	149	138	146
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.12	2.08	2.05	1.99
<b>Import dependency, %</b>	68.2	66.8	66.2	66.0
<b>Energy per capita (kgoe/cap)</b>	3193	3369	3549	3816
<b>CO<sub>2</sub> per capita (kg/cap)</b>	6780	7007	7266	7588

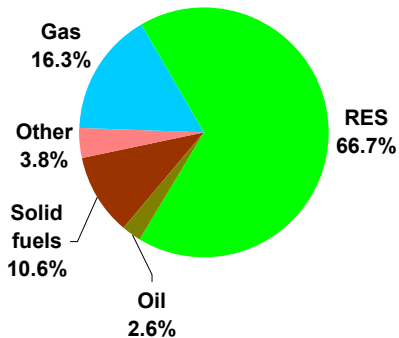
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## Austria (2002)

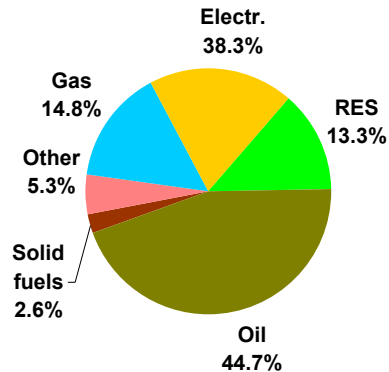
**Gross Inland Consumption**  
30.7 (Mtoe)



**Electricity Generation**  
62.5 (TWh)



**Final Energy Consumption**  
23.9 (Mtoe)



## Energy Statistics for Poland

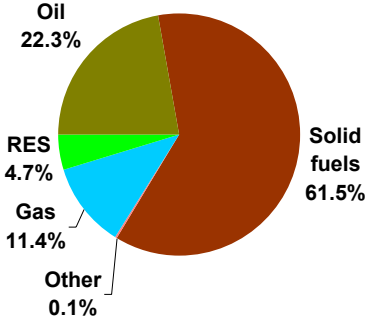
Mtoe	1990	1995	2000	2002
<b>Production</b>	99.37	99.39	79.71	80.18
<b>Solid fuels</b>	94.46	91.10	71.30	71.17
Oil	0.16	0.29	0.84	0.80
Gas	2.38	3.17	3.31	3.57
Nuclear				
Renewables	1.60	3.98	3.81	4.17
Other	0.77	0.84	0.45	0.47
<b>Net Imports</b>	2.24	-0.16	10.13	10.05
<b>Solid fuels</b>	-18.91	-21.21	-16.31	-15.60
Oil	14.47	15.48	20.38	19.58
Gas	6.77	5.81	6.61	6.68
Electricity	-0.09	-0.24	-0.55	-0.61
Renewables				
Derived heat				
<b>Inland Consumption</b>	100.00	99.99	90.19	88.84
<b>Solid fuels</b>	75.41	70.49	56.36	54.80
Oil	13.38	15.93	20.17	19.89
Gas	8.94	8.99	9.96	10.11
Nuclear				
Renewables	1.60	3.98	3.80	4.17
Other	0.68	0.60	-0.10	-0.13
<b>Elec. Generation (TWh)</b>	136.31	138.99	145.18	144.13
Coal (TWh)	130.34	131.69	135.89	132.95
Oil (TWh)	1.57	1.52	1.92	2.38
Gas (TWh)	0.84	1.59	2.71	3.94
Nuclear (TWh)				
Renewables (TWh) (*)	1.87	2.24	2.33	2.89
Other (TWh)	1.70	1.96	2.34	1.97
<b>Final Energy Demand</b>	59.55	63.41	55.57	54.45
<b>by fuel/product</b>				
Solid fuels	17.05	23.30	13.73	12.33
Oil	9.11	11.58	15.44	15.08
Gas	7.99	7.61	7.31	7.50
Electricity	8.23	7.70	8.32	8.24
Renewables	1.11	3.73	3.53	3.81
Other	16.07	9.50	7.25	7.49
<b>by sector</b>				
Industry	25.23	22.72	18.89	16.60
Transport	7.34	8.26	9.18	8.98
Households	18.13	23.28	17.52	18.10
Commerce & other	8.86	9.15	9.99	10.77
<b>Non-Energy Uses</b>	4.19	3.65	4.22	3.49
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	335	334	292	283
<b>Energy intensity (toe/M€95)</b>	1071	962	676	650
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	3.35	3.34	3.24	3.19
<b>Import dependency, %</b>	2.2	-0.2	11.2	11.3
<b>Energy per capita (kgoe/cap)</b>	2623	2591	2334	2324
<b>CO<sub>2</sub> per capita (kg/cap)</b>	8796	8665	7561	7410

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

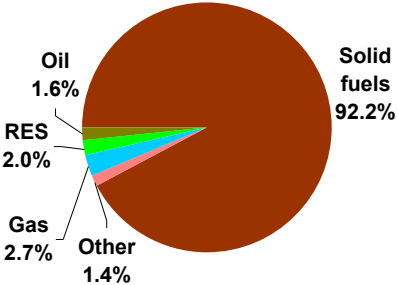


**Poland (2002)**

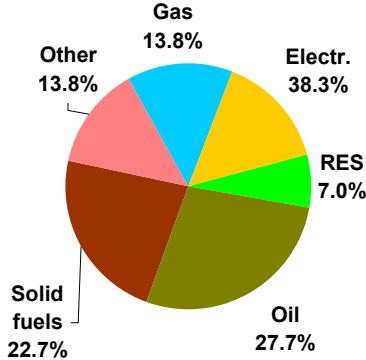
**Gross Inland Consumption**  
88.8 (Mtoe)



**Electricity Generation**  
144.1 (TWh)



**Final Energy Consumption**  
54.4 (Mtoe)



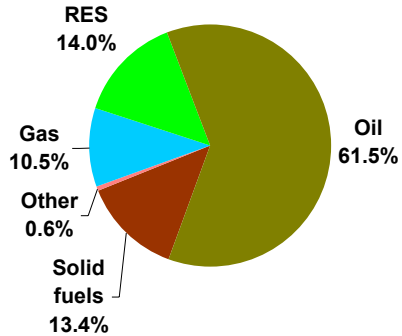
## Energy Statistics for Portugal

Mtoe	1990	1995	2000	2002
<b>Production</b>	2.81	2.60	3.11	3.62
Solid fuels	0.12			
Oil				
Gas				
Nuclear				
Renewables	2.69	2.60	3.11	3.62
Other				
<b>Net Imports</b>	15.16	17.88	21.59	22.25
Solid fuels	2.79	3.80	3.91	3.47
Oil	12.37	14.00	15.56	15.89
Gas			2.04	2.73
Electricity	0.00	0.08	0.08	0.16
Renewables				
Derived heat				
<b>Inland Consumption</b>	16.89	19.61	24.11	25.94
Solid fuels	2.58	3.49	3.80	3.48
Oil	11.61	13.44	15.08	15.95
Gas			2.03	2.73
Nuclear				
Renewables	2.69	2.60	3.11	3.62
Other	0.00	0.08	0.08	0.16
<b>Elec. Generation (TWh)</b>	28.50	33.27	43.76	46.11
Coal (TWh)	9.06	13.41	14.60	15.21
Oil (TWh)	9.40	10.31	8.42	11.41
Gas (TWh)	0.05	0.05	7.23	9.04
Nuclear (TWh)				
Renewables (TWh) (*)	9.85	9.39	13.12	9.99
Other (TWh)	0.15	0.11	0.39	0.46
<b>Final Energy Demand</b>	11.21	13.04	16.94	18.34
<b>by fuel/product</b>				
Solid fuels	0.62	0.55	0.47	0.18
Oil	6.68	8.19	10.47	10.73
Gas	0.10	0.10	0.85	1.18
Electricity	2.02	2.48	3.30	3.57
Renewables	1.75	1.70	1.72	2.48
Other	0.03	0.04	0.13	0.20
<b>by sector</b>				
Industry	4.14	4.25	5.52	5.81
Transport	3.73	4.85	6.52	7.13
Households	2.29	2.57	2.80	3.12
Commerce & other	1.05	1.37	2.10	2.28
<b>Non-Energy Uses</b>	2.10	1.87	2.33	1.94
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	39	48	59	62
<b>Energy intensity (toe/M€95)</b>	222	237	242	255
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.31	2.46	2.43	2.40
<b>Import dependency, %</b>	86.7	89.0	87.2	84.2
<b>Energy per capita (kgoe/cap)</b>	1697	1955	2358	2502
<b>CO<sub>2</sub> per capita (kg/cap)</b>	3923	4815	5723	5997

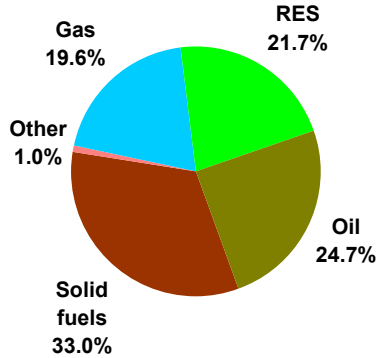
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## Portugal (2002)

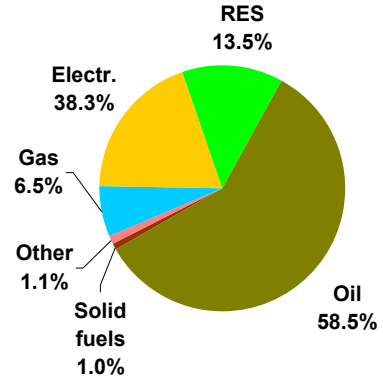
**Gross Inland Consumption**  
25.9 (Mtoe)



**Electricity Generation**  
46.1 (TWh)



**Final Energy Consumption**  
18.3 (Mtoe)



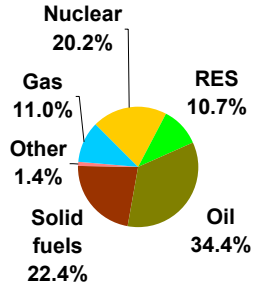
## Energy Statistics for Slovenia

Mtoe	1990	1995	2000	2002
<b>Production</b>	2.90	3.02	3.08	3.36
Solid fuels	1.43	1.22	1.06	1.18
Oil	0.00	0.00	0.00	0.00
Gas	0.02	0.02	0.01	0.00
Nuclear	1.19	1.25	1.23	1.43
Renewables	0.25	0.54	0.74	0.76
Other			0.05	0.00
<b>Net Imports</b>	2.57	3.04	3.32	3.44
Solid fuels	0.13	0.19	0.25	0.33
Oil	1.80	2.24	2.41	2.43
Gas	0.72	0.75	0.78	0.77
Electricity	-0.08	-0.14	-0.11	-0.10
Renewables				
Derived heat				
<b>Inland Consumption</b>	5.52	6.09	6.37	6.88
Solid fuels	1.65	1.40	1.31	1.58
Oil	1.75	2.29	2.38	2.43
Gas	0.76	0.75	0.78	0.78
Nuclear	1.19	1.25	1.23	1.43
Renewables	0.25	0.54	0.74	0.76
Other	-0.08	-0.14	-0.07	-0.10
<b>Elec. Generation (TWh)</b>	12.44	12.65	13.62	14.69
Coal (TWh)	3.82	4.34	4.61	5.30
Oil (TWh)	0.57	0.26	0.06	0.07
Gas (TWh)	0.49	0.03	0.29	0.29
Nuclear (TWh)	4.62	4.78	4.76	5.53
Renewables (TWh) (*)	2.95	3.24	3.86	3.51
Other (TWh)			0.04	
<b>Final Energy Demand</b>	3.37	3.94	4.52	4.59
<b>by fuel/product</b>				
Solid fuels	0.24	0.11	0.10	0.10
Oil	1.51	2.10	2.25	2.30
Gas	0.60	0.47	0.65	0.56
Electricity	0.84	0.81	0.90	1.01
Renewables		0.26	0.40	0.43
Other	0.18	0.19	0.23	0.18
<b>by sector</b>				
Industry	1.47	1.18	1.42	1.30
Transport	0.93	1.33	1.31	1.39
Households	0.85	1.18	1.12	1.19
Commerce & other	0.12	0.26	0.67	0.71
<b>Non-Energy Uses</b>	0.01	0.12	0.13	0.20
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	13	14	14	15
<b>Energy intensity (toe/M€95)</b>	373	397	337	343
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.39	2.31	2.25	2.17
<b>Import dependency, %</b>	46.5	49.9	52.1	49.9
<b>Energy per capita (kgoe/cap)</b>	2760	3061	3200	3448
<b>CO<sub>2</sub> per capita (kg/cap)</b>	6585	7069	7216	7496

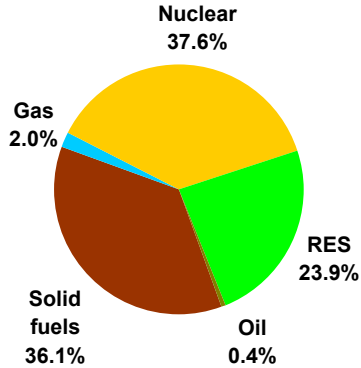
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## Slovenia (2002)

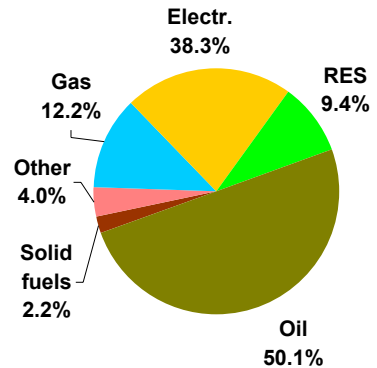
**Gross Inland Consumption**  
6.9 (Mtoe)



**Electricity Generation**  
14.7 (TWh)



**Final Energy Consumption**  
4.6 (Mtoe)



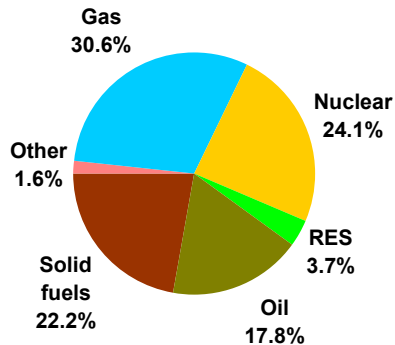
## Energy Statistics for Slovakia

Mtoe	1990	1995	2000	2002
<b>Production</b>	5.13	4.78	5.95	6.52
Solid fuels	1.29	1.02	1.02	0.93
Oil	0.07	0.07	0.05	0.05
Gas	0.34	0.24	0.12	0.15
Nuclear	3.10	2.95	4.25	4.63
Renewables	0.33	0.50	0.51	0.71
Other				0.05
<b>Net Imports</b>	16.23	11.49	10.62	12.12
Solid fuels	5.95	4.13	3.43	3.29
Oil	4.48	3.13	2.23	3.32
Gas	5.35	4.12	5.19	5.87
Electricity	0.45	0.12	-0.23	-0.36
Renewables				0.00
Derived heat				
<b>Inland Consumption</b>	20.98	16.66	16.46	18.56
Solid fuels	7.54	5.41	4.25	4.25
Oil	4.47	2.93	2.44	3.41
Gas	5.09	4.74	5.25	5.87
Nuclear	3.10	2.95	4.25	4.63
Renewables	0.33	0.50	0.50	0.71
Other	0.45	0.12	-0.23	-0.31
<b>Elec. Generation (TWh)</b>	24.07	26.31	30.69	32.43
Coal (TWh)	7.51	5.96	5.58	3.70
Oil (TWh)	0.81	1.24	0.20	0.70
Gas (TWh)	1.20	2.45	3.43	2.93
Nuclear (TWh)	12.04	11.44	16.49	17.95
Renewables (TWh) (*)	1.88	4.96	4.73	5.27
Other (TWh)	0.64	0.27	0.25	1.88
<b>Final Energy Demand</b>	13.05	8.24	7.60	11.08
<b>by fuel/product</b>				
Solid fuels	4.30	1.68	1.15	1.50
Oil	3.09	1.90	1.87	2.34
Gas	3.01	2.14	2.14	4.05
Electricity	2.01	1.87	1.89	1.95
Renewables		0.00	0.00	0.21
Other	0.65	0.65	0.55	1.03
<b>by sector</b>				
Industry	5.84	2.67	2.50	4.27
Transport	1.68	1.51	1.55	1.74
Households	2.42	1.98	2.19	2.95
Commerce & other	3.12	2.08	1.37	2.12
<b>Non-Energy Uses</b>	1.15	1.05	1.23	0.84
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	46	32	28	37
<b>Energy intensity (toe/M€95)</b>		1123	926	964
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.17	1.95	1.69	1.99
<b>Import dependency, %</b>	77.4	69.0	64.5	65.3
<b>Energy per capita (kgoe/cap)</b>	3973	3111	3049	3451
<b>CO<sub>2</sub> per capita (kg/cap)</b>	8625	6061	5164	6879

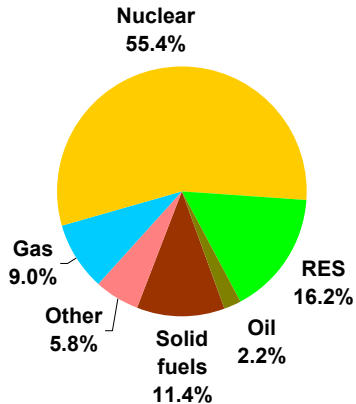
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## Slovakia (2002)

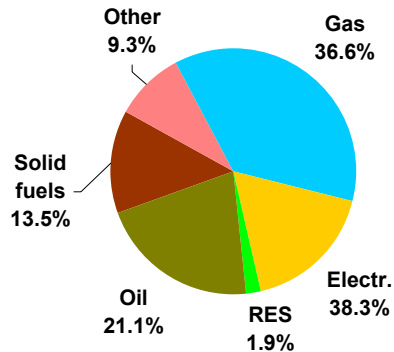
**Gross Inland Consumption**  
18.6 (Mtoe)



**Electricity Generation**  
32.4 (TWh)



**Final Energy Consumption**  
11.1 (Mtoe)



## Energy Statistics for Finland

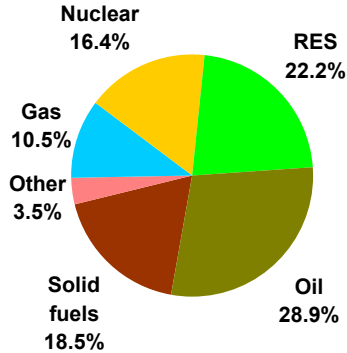
Mtoe	1990	1995	2000	2002
<b>Production</b>	11.74	13.16	15.04	15.91
Solid fuels	1.46	2.06	1.21	2.11
Oil		0.02	0.02	0.03
Gas				
Nuclear	5.01	4.96	5.80	5.75
Renewables	5.27	6.13	7.80	7.81
Other			0.21	0.22
<b>Net Imports</b>	18.03	15.42	18.54	18.80
Solid fuels	4.38	3.77	3.53	3.96
Oil	10.48	8.21	10.57	10.14
Gas	2.26	2.84	3.42	3.68
Electricity	0.92	0.60	1.02	1.03
Renewables				
Derived heat				
<b>Inland Consumption</b>	28.70	28.83	32.51	35.14
Solid fuels	5.07	5.95	5.05	6.49
Oil	9.94	8.34	9.21	10.16
Gas	2.26	2.84	3.42	3.68
Nuclear	5.01	4.96	5.80	5.75
Renewables	5.51	6.14	7.80	7.81
Other	0.92	0.60	1.23	1.24
<b>Elec. Generation (TWh)</b>	54.36	63.90	69.99	74.90
Coal (TWh)	12.75	15.85	12.50	19.06
Oil (TWh)	1.68	1.38	0.61	0.60
Gas (TWh)	4.83	7.76	10.78	11.97
Nuclear (TWh)	19.22	19.22	22.48	22.30
Renewables (TWh) (*)	15.89	19.57	23.30	20.58
Other (TWh)		0.12	0.32	0.39
<b>Final Energy Demand</b>	21.63	22.23	24.55	25.49
<b>by fuel/product</b>				
Solid fuels	1.57	1.30	1.07	1.10
Oil	8.06	7.73	7.83	7.99
Gas	1.51	1.51	1.37	1.36
Electricity	5.07	5.62	6.49	6.85
Renewables	3.52	3.94	4.99	4.96
Other	1.91	2.13	2.80	3.23
<b>by sector</b>				
Industry	9.57	10.18	12.16	12.07
Transport	4.27	4.11	4.39	4.55
Households	5.32	5.46	4.92	5.19
Commerce & other	2.48	2.49	3.09	3.69
<b>Non-Energy Uses</b>	1.41	0.83	0.84	0.92
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	53	56	55	62
<b>Energy intensity (toe/M€95)</b>	277	291	260	272
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	1.85	1.95	1.70	1.78
<b>Import dependency, %</b>	61.6	52.9	55.9	52.6
<b>Energy per capita (kgoe/cap)</b>	5756	5645	6281	6756
<b>CO<sub>2</sub> per capita (kg/cap)</b>	10667	10993	10695	12000

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

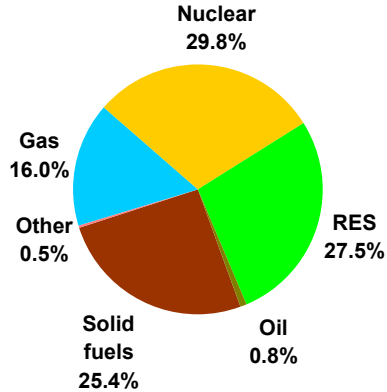


## Finland (2002)

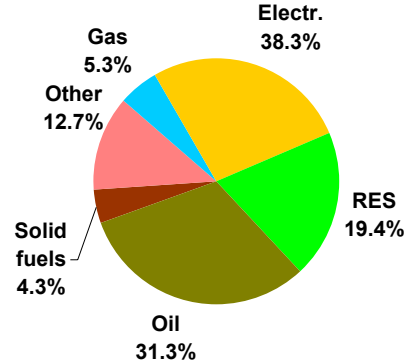
**Gross Inland Consumption**  
35.1 (Mtoe)



**Electricity Generation**  
74.9 (TWh)



**Final Energy Consumption**  
25.5 (Mtoe)



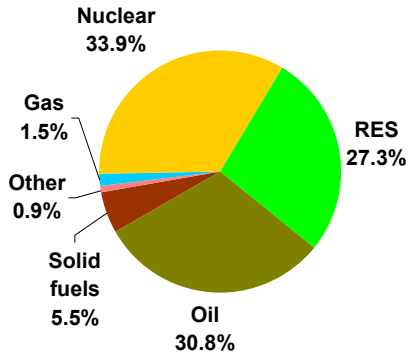
## Energy Statistics for Sweden

Mtoe	1990	1995	2000	2002
<b>Production</b>	29.73	31.51	30.17	31.85
Solid fuels	0.22	0.32	0.23	0.34
Oil	0.00	0.00		
Gas				
Nuclear	17.76	18.04	14.78	17.43
Renewables	11.74	13.15	15.13	14.05
Other	0.00	0.00	0.03	0.03
<b>Net Imports</b>	17.87	19.21	19.09	19.76
Solid fuels	2.33	2.66	2.34	2.28
Oil	15.17	16.01	15.65	16.24
Gas	0.53	0.68	0.70	0.78
Electricity	-0.15	-0.14	0.40	0.46
Renewables				
Derived heat				
<b>Inland Consumption</b>	47.12	50.37	47.86	51.47
Solid fuels	2.68	2.89	2.44	2.84
Oil	14.55	15.75	14.38	15.87
Gas	0.53	0.68	0.70	0.78
Nuclear	17.76	18.04	14.78	17.43
Renewables	11.74	13.15	15.13	14.05
Other	-0.15	-0.14	0.43	0.49
<b>Elec. Generation (TWh)</b>	146.92	148.38	145.59	146.05
Coal (TWh)	1.74	2.45	1.64	2.38
Oil (TWh)	1.20	3.95	1.73	2.89
Gas (TWh)	0.40	1.34	1.42	1.92
Nuclear (TWh)	68.19	69.94	57.32	67.58
Renewables (TWh) (*)	74.63	70.65	83.25	71.09
Other (TWh)	0.76	0.06	0.24	0.19
<b>Final Energy Demand</b>	30.51	33.68	34.53	33.56
<b>by fuel/product</b>				
Solid fuels	1.23	1.19	1.14	1.34
Oil	12.00	12.57	12.65	11.31
Gas	0.59	0.60	0.65	0.71
Electricity	10.35	10.71	11.07	11.31
Renewables	4.63	5.07	5.47	4.90
Other	1.71	3.54	3.55	3.98
<b>by sector</b>				
Industry	11.85	12.61	13.61	13.25
Transport	7.26	7.66	8.12	8.04
Households	6.84	8.03	7.54	7.62
Commerce & other	4.56	5.38	5.27	4.65
<b>Non-Energy Uses</b>	1.77	1.77	1.44	1.97
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	50	54	52	49
<b>Energy intensity (toe/M€95)</b>	258	266	215	224
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	1.07	1.07	1.08	0.96
<b>Import dependency, %</b>	37.4	37.4	38.8	37.5
<b>Energy per capita (kgoe/cap)</b>	5505	5706	5395	5766
<b>CO<sub>2</sub> per capita (kg/cap)</b>	5894	6111	5811	5531

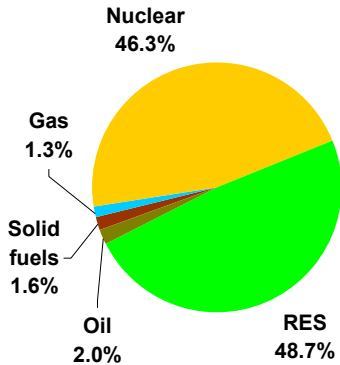
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## Sweden (2002)

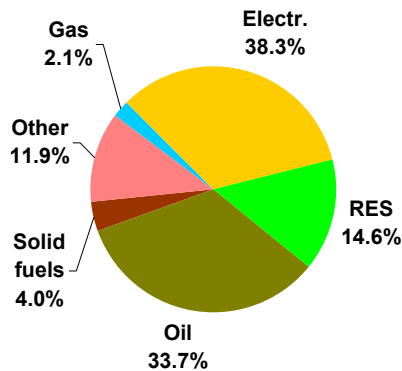
**Gross Inland Consumption**  
51.5 (Mtoe)



**Electricity Generation**  
146.1 (TWh)



**Final Energy Consumption**  
33.6 (Mtoe)



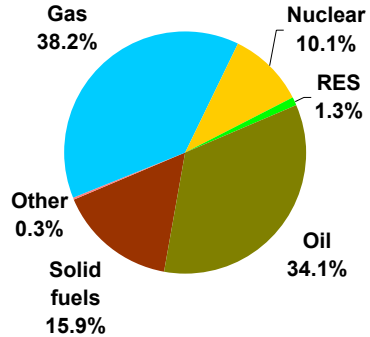
## Energy Statistics for United Kingdom

Mtoe	1990	1995	2000	2002
<b>Production</b>	205.51	249.87	268.82	254.36
Solid fuels	54.13	30.52	18.58	17.81
Oil	92.81	132.39	128.01	117.72
Gas	40.93	63.71	97.65	93.26
Nuclear	16.57	21.25	21.94	22.71
Renewables	1.05	1.95	2.60	2.81
Other	0.02	0.05	0.04	0.04
<b>Net Imports</b>	5.93	-36.02	-39.03	-28.95
Solid fuels	9.12	10.49	14.58	17.44
Oil	-10.40	-48.55	-45.52	-40.13
Gas	6.18	0.64	-9.31	-6.98
Electricity	1.03	1.40	1.22	0.72
Renewables				
Derived heat				
<b>Inland Consumption</b>	211.08	218.01	230.42	224.14
Solid fuels	64.30	45.87	35.72	35.66
Oil	80.90	82.38	81.40	76.49
Gas	47.20	65.12	87.50	85.71
Nuclear	16.57	21.25	21.94	22.71
Renewables	1.05	1.95	2.60	2.81
Other	1.04	1.45	1.25	0.76
<b>Elec. Generation (TWh)</b>	318.96	334.04	377.31	387.11
Coal (TWh)	204.92	157.24	119.96	124.31
Oil (TWh)	33.70	12.48	8.55	6.93
Gas (TWh)	5.08	66.57	150.59	153.76
Nuclear (TWh)	65.75	88.96	85.06	88.04
Renewables (TWh) (*)	5.85	6.90	10.38	11.33
Other (TWh)	3.66	1.89	2.77	2.74
<b>Final Energy Demand</b>	137.06	142.44	150.82	148.98
<b>by fuel/product</b>				
Solid fuels	12.27	8.89	5.03	4.84
Oil	58.77	60.20	62.48	61.80
Gas	41.56	47.15	51.86	51.23
Electricity	23.60	25.27	28.33	28.61
Renewables	0.41	0.88	0.57	0.59
Other	0.46	0.05	2.55	1.92
<b>by sector</b>				
Industry	35.08	35.14	35.32	35.02
Transport	45.45	46.87	52.07	50.97
Households	37.96	39.57	43.10	44.04
Commerce & other	18.58	20.86	20.34	18.95
<b>Non-Energy Uses</b>	11.50	12.55	11.19	9.93
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	567	535	544	541
<b>Energy intensity (toe/M€95)</b>	265	252	227	212
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.69	2.45	2.36	2.41
<b>Import dependency, %</b>	2.8	-16.3	-16.8	-12.8
<b>Energy per capita (kgoe/cap)</b>	3688	3763	3929	3786
<b>CO<sub>2</sub> per capita (kg/cap)</b>	9910	9238	9284	9142

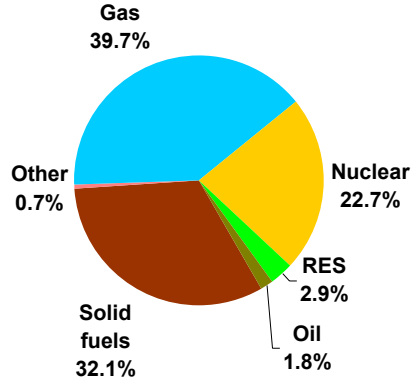
Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

## United Kingdom (2002)

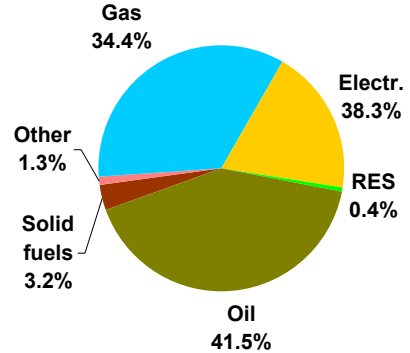
**Gross Inland Consumption**  
224.1 (Mtoe)



**Electricity Generation**  
387.1 (TWh)



**Final Energy Consumption**  
149.0 (Mtoe)



## **Part 2 : ENERGY**

### **Chapter 2.7 Energy Statistics of Candidate Countries and other European Countries**

## Energy Statistics for Bulgaria

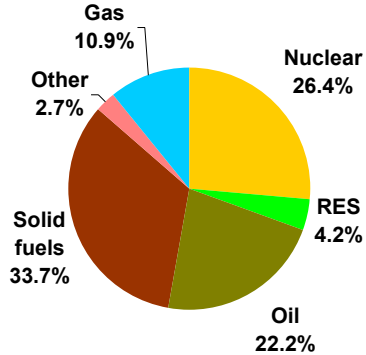
Mtoe	1990	1995	2000	2002
<b>Production</b>	9.14	10.19	9.84	10.54
Solid fuels	5.12	5.29	4.31	4.43
Oil	0.06	0.04	0.04	0.04
Gas	0.01	0.04	0.01	0.01
Nuclear	3.78	4.45	4.69	5.22
Renewables	0.16	0.37	0.78	0.83
Other			0.01	0.01
<b>Net Imports</b>	17.82	13.48	8.41	8.65
Solid fuels	3.53	2.42	2.26	2.50
Oil	8.54	6.51	4.08	4.44
Gas	5.43	4.56	2.47	2.25
Electricity	0.33	-0.01	-0.40	-0.54
Renewables		-0.01	0.00	-0.01
Derived heat				
<b>Inland Consumption</b>	27.96	23.30	18.30	18.72
Solid fuels	8.71	7.67	6.42	6.66
Oil	9.59	6.25	4.16	4.39
Gas	5.40	4.58	2.64	2.16
Nuclear	3.78	4.45	4.69	5.22
Renewables	0.16	0.36	0.78	0.83
Other	0.33	-0.01	-0.39	-0.53
<b>Elec. Generation (TWh)</b>	42.14	41.79	40.92	42.68
Coal (TWh)	14.93	17.32	16.94	17.18
Oil (TWh)	1.97	1.44	0.66	0.83
Gas (TWh)	8.70	3.45	2.18	1.73
Nuclear (TWh)	14.67	17.26	18.18	20.22
Renewables (TWh) (*)	1.88	1.75	2.69	2.19
Other (TWh)		0.57	0.28	0.52
<b>Final Energy Demand</b>	16.04	11.40	8.48	8.62
<b>by fuel/product</b>				
Solid fuels	1.48	1.28	0.86	1.03
Oil	4.92	2.89	2.98	3.14
Gas	2.07	1.79	1.14	0.88
Electricity	3.03	2.47	2.07	2.07
Renewables		0.18	0.55	0.64
Other	4.54	2.80	0.88	0.86
<b>by sector</b>				
Industry	8.97	6.03	3.55	3.41
Transport	2.48	1.98	1.82	2.02
Households	2.23	2.26	2.16	2.17
Commerce & other	2.37	1.14	0.96	1.02
<b>Non-Energy Uses</b>	1.43	1.24	1.18	0.95
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	72	58	42	42
<b>Energy intensity (toe/M€95)</b>	2445	2326	1901	1781
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.59	2.49	2.27	2.23
<b>Import dependency, %</b>	63.61	57.17	45.79	45.93
<b>Energy per capita (kgoe/cap)</b>	3207	2772	2239	2379
<b>CO<sub>2</sub> per capita (kg/cap)</b>	8294	6902	5081	5300

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

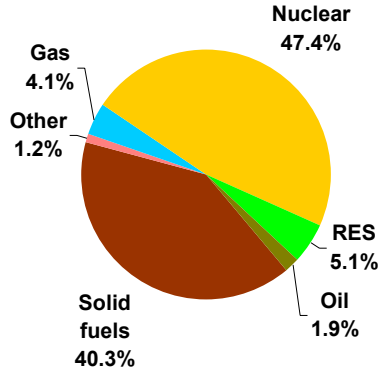
## Bulgaria (2002)

2.7.1

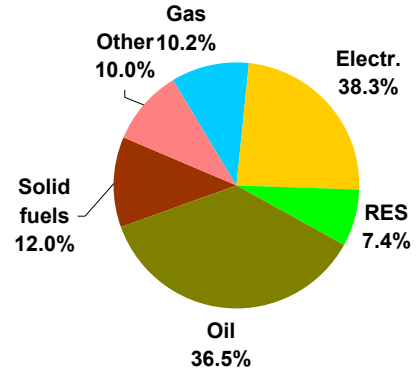
**Gross Inland Consumption**  
18.7 (Mtoe)



**Electricity Generation**  
42.7 (TWh)



**Final Energy Consumption**  
8.6 (Mtoe)



2.7.1



## Energy statistics for Croatia

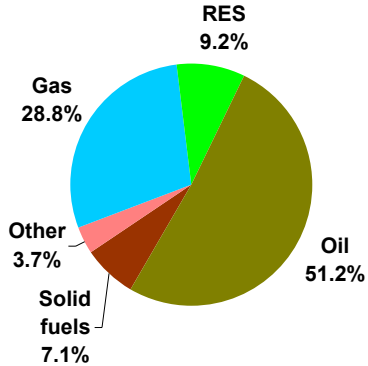
Mtoe	1992	1995	2000	2002
<b>Production</b>	4.35	4.19	3.58	3.71
Solid fuels	0.07	0.05		
Oil	2.17	1.81	1.35	1.22
Gas	1.47	1.61	1.35	1.73
Nuclear				
Renewables	0.63	0.72	0.88	0.76
Other	0.00		0.00	0.00
<b>Net Imports</b>	2.55	2.92	4.12	4.92
Solid fuels	0.39	0.16	0.48	0.59
Oil	1.34	2.24	2.39	3.44
Gas	0.59	0.22	0.91	0.59
Electricity	0.24	0.30	0.34	0.30
Renewables				
Derived heat				
<b>Inland Consumption</b>	6.71	7.12	7.77	8.22
Solid fuels	0.42	0.18	0.43	0.58
Oil	3.32	3.98	3.91	4.21
Gas	2.11	1.93	2.21	2.37
Nuclear				
Renewables	0.63	0.72	0.88	0.76
Other	0.24	0.30	0.35	0.30
<b>Elec. Generation (TWh)</b>	8.89	8.86	10.68	12.22
Coal (TWh)		0.24	1.55	2.11
Oil (TWh)	3.18	2.46	1.69	2.22
Gas (TWh)	1.37	0.89	1.57	2.53
Nuclear (TWh)				
Renewables (TWh)	4.35	5.27	5.88	5.37
Other (TWh)				
<b>Final Energy Demand</b>	4.81	5.25	5.93	6.05
<b>by fuel/product</b>				
Solid fuels	0.17	0.12	0.07	0.09
Oil	2.05	2.41	2.80	2.95
Gas	1.28	1.36	1.46	1.39
Electricity	0.81	0.85	1.02	1.09
Renewables	0.26	0.26	0.37	0.30
Other	0.24	0.25	0.21	0.23
<b>by sector</b>				
Industry	2.09	1.99	1.93	1.80
Transport	0.98	1.22	1.56	1.68
Households	1.22	1.41	1.67	1.74
Commerce & other	0.51	0.63	0.77	0.84
<b>Non-Energy Uses</b>	0.12	0.10	0.15	0.18
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	15	16	18	19
<b>Energy intensity (toe/M€95)</b>	486	495	457	443
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.28	2.23	2.28	2.30
<b>Import dependency, %</b>	38.0	41.0	53.0	59.9
<b>Energy per capita (kgoe/cap)</b>	1420	1599	1748	1852
<b>CO<sub>2</sub> per capita (kg/cap)</b>	3233	3574	3994	4266

Source: Organisation for Economic Co-operation and Development

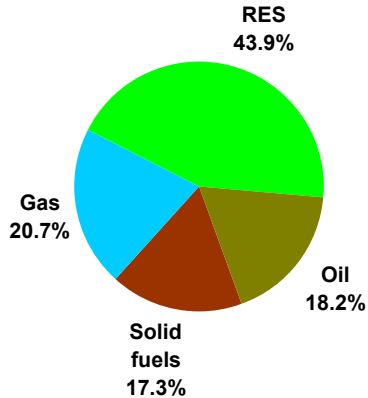
## Croatia (2002)

2.7.2

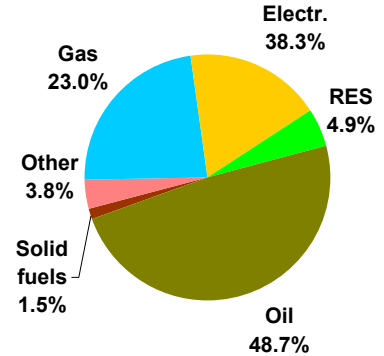
**Gross Inland Consumption**  
8.2 (Mtoe)



**Electricity Generation**  
12.2 (TWh)



**Final Energy Consumption**  
6.1 (Mtoe)



2.7.2

## Energy Statistics for Romania

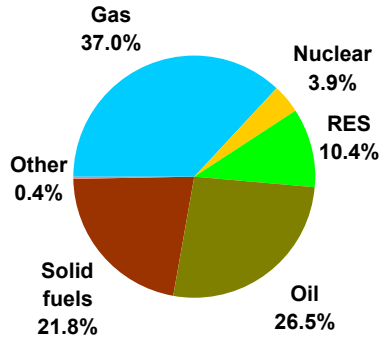
Mtoe	1990	1995	2000	2002
<b>Production</b>	41.40	31.01	28.72	26.85
Solid fuels	7.94	7.89	5.88	5.17
Oil	7.95	6.97	6.34	6.11
Gas	22.91	13.00	10.97	10.28
Nuclear			1.41	1.42
Renewables	2.61	2.80	4.04	3.75
Other		0.36	0.09	0.11
<b>Net Imports</b>	20.35	14.08	8.10	9.12
Solid fuels	2.44	2.87	1.90	2.75
Oil	11.17	6.80	3.54	3.49
Gas	5.93	4.39	2.71	3.13
Electricity	0.81	0.03	-0.06	-0.25
Renewables				
Derived heat				
<b>Inland Consumption</b>	61.32	45.06	37.02	35.75
Solid fuels	10.14	10.79	7.75	7.85
Oil	18.91	13.69	10.10	9.55
Gas	28.84	17.39	13.68	13.31
Nuclear			1.41	1.42
Renewables	2.61	2.80	4.04	3.75
Other	0.81	0.39	0.04	-0.13
<b>Elec. Generation (TWh)</b>	64.31	59.27	51.93	54.94
Coal (TWh)	22.54	20.59	18.93	20.31
Oil (TWh)	6.40	5.80	3.40	3.58
Gas (TWh)	21.38	16.18	9.38	9.48
Nuclear (TWh)			5.46	5.51
Renewables (TWh) (*)	13.88	16.70	14.78	16.05
Other (TWh)	0.10			
<b>Final Energy Demand</b>	33.25	25.19	22.44	23.25
<b>by fuel/product</b>				
Solid fuels	2.67	1.53	0.70	1.10
Oil	8.10	5.38	5.60	6.74
Gas	17.33	9.03	6.87	7.32
Electricity	4.31	3.13	2.92	3.06
Renewables	0.84	1.27	2.74	2.27
Other		4.85	3.61	2.76
<b>by sector</b>				
Industry	21.99	13.79	9.01	10.60
Transport	4.42	3.21	3.42	4.27
Households	4.51	6.15	8.43	7.22
Commerce & other	2.34	2.04	1.58	1.16
<b>Non-Energy Uses</b>	2.94	1.63	2.06	1.66
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	230	111	86	90
<b>Energy intensity (toe/M€95)</b>	2029	1663	1455	1267
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	3.74	2.47	2.32	2.52
<b>Import dependency, %</b>	33.19	31.25	21.88	25.51
<b>Energy per capita (kgoe/cap)</b>	2642	1987	1650	1640
<b>CO<sub>2</sub> per capita (kg/cap)</b>	9894	4906	3828	4129

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

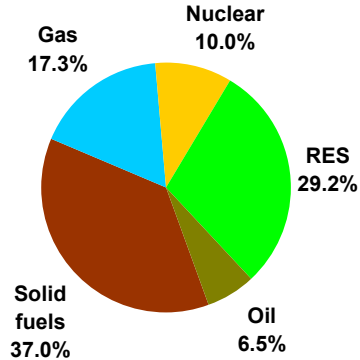
## Romania (2002)

2.7.3

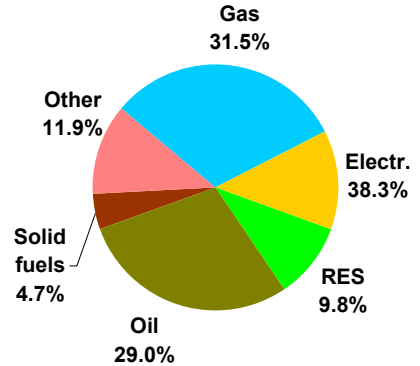
**Gross Inland Consumption**  
35.8 (Mtoe)



**Electricity Generation**  
54.9 (TWh)



**Final Energy Consumption**  
23.2 (Mtoe)



2.7.3

## Energy Statistics for Turkey

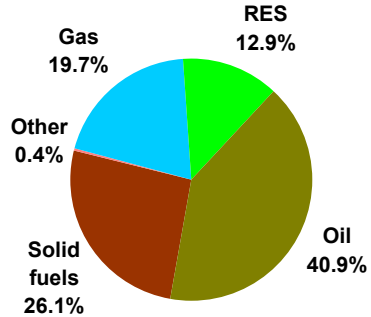
Mtoe	1990	1995	2000	2002
<b>Production</b>	25.95	26.52	26.71	24.06
Solid fuels	12.41	12.08	13.29	11.64
Oil	3.71	3.51	2.75	2.41
Gas	0.17	0.15	0.53	0.31
Nuclear				
Renewables	9.66	10.78	10.14	9.69
Other				
<b>Net Imports</b>	27.27	36.76	50.87	51.19
Solid fuels	4.21	4.48	9.25	8.05
Oil	20.44	26.68	29.28	28.53
Gas	2.68	5.67	12.05	14.34
Electricity	-0.06	-0.06	0.29	0.27
Renewables				
Derived heat				
<b>Inland Consumption</b>	52.28	62.03	77.35	74.95
Solid fuels	16.92	16.62	23.28	19.59
Oil	22.91	28.91	31.00	30.66
Gas	2.86	5.79	12.64	14.74
Nuclear				
Renewables	9.66	10.78	10.14	9.69
Other	-0.06	-0.06	0.29	0.27
<b>Elec. Generation (TWh)</b>	57.54	86.25	124.92	129.40
Coal (TWh)	20.18	27.41	37.33	31.43
Oil (TWh)	3.94	5.77	10.46	10.74
Gas (TWh)	10.19	17.22	45.92	53.22
Nuclear (TWh)				
Renewables (TWh) (*)	23.23	35.85	31.15	34.01
Other (TWh)			0.05	
<b>Final Energy Demand</b>	31.25	37.79	54.14	52.88
<b>by fuel/product</b>				
Solid fuels	8.04	6.67	10.69	9.39
Oil	17.79	22.30	22.97	22.82
Gas	1.16	2.64	4.91	5.23
Electricity	3.87	5.60	8.24	8.73
Renewables	0.39	0.58	7.34	6.70
Other				
<b>by sector</b>				
Industry	11.95	13.16	20.18	19.46
Transport	9.35	11.89	12.17	12.55
Households	7.35	8.99	17.00	14.83
Commerce & other	2.59	3.75	4.79	6.05
<b>Non-Energy Uses</b>	2.77	3.75	3.50	3.90
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	126	150	198	193
<b>Energy intensity (toe/M€95)</b>	473	479	492	477
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	2.41	2.42	2.56	2.57
<b>Import dependency, %</b>	52.03	59.09	65.43	67.82
<b>Energy per capita (kgoe/cap)</b>	930	1006	1147	1076
<b>CO<sub>2</sub> per capita (kg/cap)</b>	2244	2439	2940	2764

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

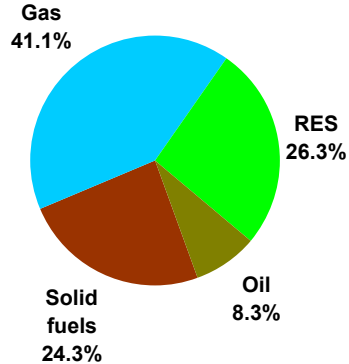
## Turkey (2002)

2.7.4

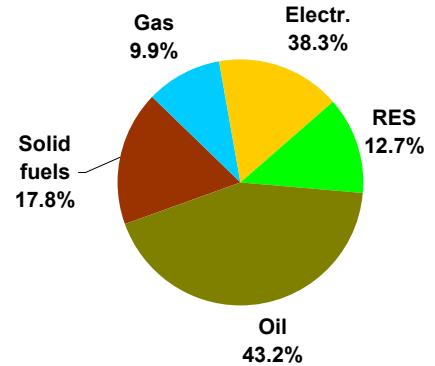
**Gross Inland Consumption**  
75.0 (Mtoe)



**Electricity Generation**  
129.4 (TWh)



**Final Energy Consumption**  
52.9 (Mtoe)



2.7.4

## Energy Statistics for Iceland

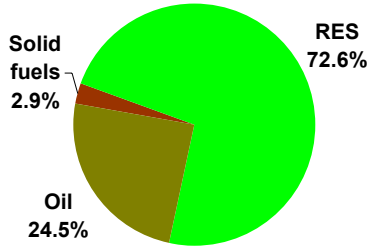
Mtoe	1990	1995	2000	2002
<b>Production</b>	1.46	1.39	2.31	2.46
Solid fuels				
Oil				
Gas				
Nuclear				
Renewables	1.46	1.39	2.31	2.46
Other				
<b>Net Imports</b>	0.79	0.80	1.03	0.96
Solid fuels	0.06	0.06	0.10	0.10
Oil	0.72	0.74	0.93	0.86
Gas				
Electricity				
Renewables				
Derived heat				
<b>Inland Consumption</b>	2.21	2.14	3.23	3.39
Solid fuels	0.06	0.06	0.10	0.10
Oil	0.69	0.70	0.82	0.83
Gas				
Nuclear				
Renewables	1.46	1.39	2.31	2.46
Other				
<b>Elec. Generation (TWh)</b>	4.51	4.98	7.68	8.42
Coal (TWh)				
Oil (TWh)	0.01	0.01	0.01	0.01
Gas (TWh)				
Nuclear (TWh)				
Renewables (TWh) (*)	4.50	4.97	7.68	8.41
Other (TWh)				
<b>Final Energy Demand</b>	1.60	1.66	2.06	2.16
<b>by fuel/product</b>				
Solid fuels	0.06	0.06	0.10	0.10
Oil	0.60	0.62	0.70	0.69
Gas				
Electricity	0.34	0.37	0.59	0.65
Renewables	0.50	0.44	0.49	0.50
Other	0.10	0.18	0.17	0.23
<b>by sector</b>				
Industry	0.38	0.40	0.67	0.74
Transport	0.28	0.27	0.34	0.32
Households	0.58	0.57	0.60	0.66
Commerce & other	0.36	0.42	0.44	0.44
<b>Non-Energy Uses</b>	0.06	0.07	0.12	0.14
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	2	2	3	2
<b>Energy intensity (toe/M€95)</b>	430	409	482	496
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	0.94	0.99	0.78	0.74
<b>Import dependency, %</b>	35.02	36.48	31.24	27.97
<b>Energy per capita (kgoe/cap)</b>	8689	8008	11488	11788
<b>CO<sub>2</sub> per capita (kg/cap)</b>	8169	7961	8973	8672

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

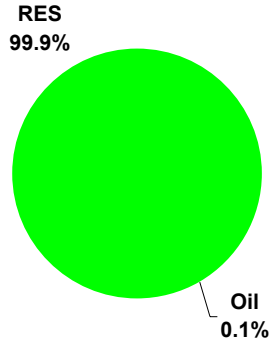
## Iceland (2002)

2.7.5

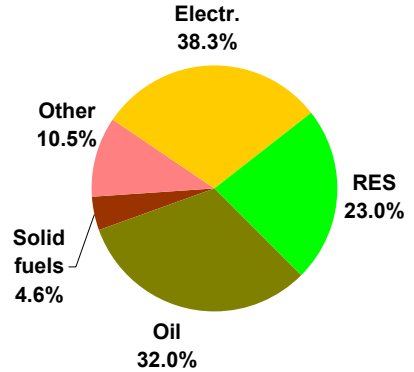
**Gross Inland Consumption**  
3.4 (Mtoe)



**Electricity Generation**  
8.4 (TWh)



**Final Energy Consumption**  
2.2 (Mtoe)



2.7.5



## Energy Statistics for Norway

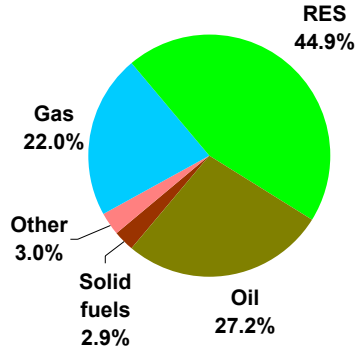
Mtoe	1990	1995	2000	2002
<b>Production</b>	120.05	181.64	224.50	232.88
Solid fuels	0.20	0.19	0.43	1.43
Oil	84.25	141.61	164.96	159.75
Gas	24.15	28.26	45.82	59.17
Nuclear				
Renewables	11.46	11.57	13.29	12.52
Other			0.01	0.01
<b>Net Imports</b>	-96.18	-156.76	-197.83	-205.97
Solid fuels	0.67	0.85	0.60	-0.68
Oil	-73.31	-132.24	-154.62	-151.45
Gas	-22.17	-24.80	-42.19	-53.02
Electricity	-1.37	-0.57	-1.64	-0.84
Renewables			0.01	0.02
Derived heat				
<b>Inland Consumption</b>	21.57	23.68	26.07	26.28
Solid fuels	0.86	1.02	1.08	0.81
Oil	8.64	8.21	9.69	7.61
Gas	1.98	3.46	3.63	6.14
Nuclear				
Renewables	11.46	11.57	13.30	12.54
Other	-1.37	-0.57	-1.63	-0.82
<b>Elec. Generation (TWh)</b>	121.85	123.01	143.03	130.60
Coal (TWh)		0.06	0.04	0.04
Oil (TWh)				
Gas (TWh)		0.33	0.33	0.41
Nuclear (TWh)				
Renewables (TWh) (*)	121.04	121.67	139.12	129.57
Other (TWh)	0.81	0.96	3.54	0.58
<b>Final Energy Demand</b>	16.09	16.85	18.09	18.13
<b>by fuel/product</b>				
Solid fuels	0.81	0.96	1.01	0.71
Oil	5.97	5.86	6.15	6.55
Gas	0.01	0.02	0.19	0.15
Electricity	8.32	8.92	9.42	9.31
Renewables	0.90	0.99	1.19	1.24
Other	0.07	0.11	0.13	0.17
<b>by sector</b>				
Industry	6.10	6.14	6.99	6.30
Transport	4.13	4.20	4.48	4.61
Households	3.57	3.86	3.82	3.94
Commerce & other	2.29	2.65	2.80	3.28
<b>Non-Energy Uses</b>	1.59	1.59	1.91	2.26
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	29	32	33	32
<b>Energy intensity (toe/M€95)</b>	230	209	193	187
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	1.33	1.36	1.26	1.22
<b>Import dependency, %</b>	-436.98	-642.98	-735.79	-764.63
<b>Energy per capita (kgoe/cap)</b>	5086	5433	5805	5791
<b>CO<sub>2</sub> per capita (kg/cap)</b>	6760	7392	7340	7037

Source: Eurostat (\*) not including pumping (\*\*) without maritime bunkers

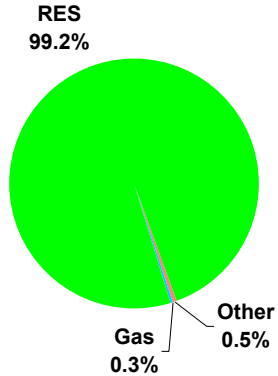
## Norway (2002)

2.7.6

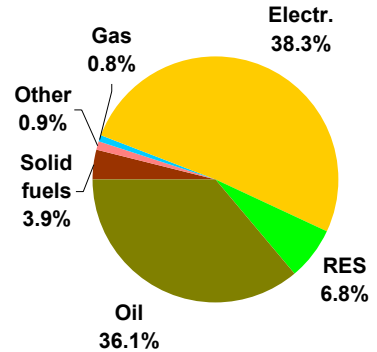
**Gross Inland Consumption**  
26.3 (Mtoe)



**Electricity Generation**  
130.6 (TWh)



**Final Energy Consumption**  
18.1 (Mtoe)



2.7.6

## Energy Statistics for Switzerland

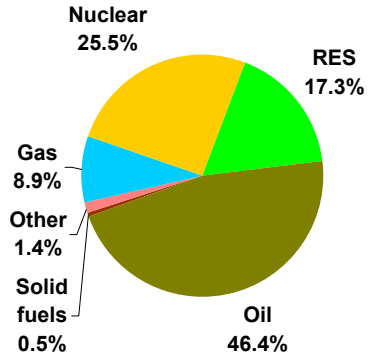
Mtoe	1990	1995	2000	2002
<b>Production</b>	9.83	11.04	11.79	11.94
Solid fuels				
Oil				
Gas	0.00			
Nuclear	6.18	6.51	6.91	7.12
Renewables	3.65	4.54	4.88	4.82
Other				0.00
<b>Net Imports</b>	28.17	20.90	22.27	24.23
Solid fuels	0.34	0.16	0.19	0.11
Oil	13.38	12.17	12.26	13.04
Gas	1.63	2.20	2.43	2.49
Electricity				
Renewables	13.00	7.00	7.99	8.99
Derived heat				
<b>Inland Consumption</b>	50.37	25.27	26.48	27.14
Solid fuels	0.36	0.19	0.14	0.14
Oil	13.46	12.46	12.73	12.96
Gas	1.63	2.20	2.43	2.49
Nuclear	6.18	6.51	6.91	7.12
Renewables	3.66	4.54	4.88	4.83
Other	25.08			
<b>Elec. Generation (TWh)</b>	54.62	62.29	65.96	64.94
Coal (TWh)	0.04	0.00		
Oil (TWh)	0.28	0.37	0.05	0.06
Gas (TWh)	0.30	0.80	1.00	0.89
Nuclear (TWh)	23.64	24.90	26.45	27.23
Renewables (TWh)	30.36	36.22	38.45	36.75
Other (TWh)				
<b>Final Energy Demand</b>	19.23	19.81	20.75	20.63
by fuel/product				
Solid fuels	0.34	0.19	0.14	0.14
Oil	12.42	12.32	12.69	12.34
Gas	1.52	2.05	2.23	2.28
Electricity	4.04	4.19	4.50	4.63
Renewables	0.67	0.77	0.86	0.90
Other	0.25	0.29	0.32	0.35
by sector				
Industry	3.49	3.73	4.31	4.32
Transport	6.29	6.44	7.06	6.71
Households	5.29	5.91	5.60	5.72
Commerce & other	4.16	3.73	3.77	3.88
<b>Non-Energy Uses</b>	0.43	0.40	0.43	0.41
<b>CO<sub>2</sub> Emissions (Mt) (**)</b>	42	42	43	43
<b>Energy intensity (toe/M€95)</b>	105	105	99	101
<b>CO<sub>2</sub> intensity (tCO<sub>2</sub>/toe)</b>	1.65	1.67	1.62	1.60
<b>Import dependency, %</b>	60.5	55.1	53.9	56.2
<b>Energy per capita (kgoe/cap)</b>	3694	3568	3674	3693
<b>CO<sub>2</sub> per capita (kg/cap)</b>	6106	5944	5952	5912

Source: Organisation for Economic Co-operation and Development

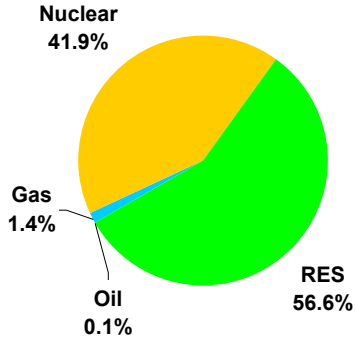
## Switzerland (2002)

2.7.7

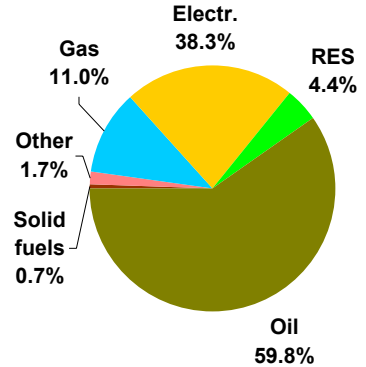
**Gross Inland Consumption**  
27.1 (Mtoe)



**Electricity Generation**  
64.9 (TWh)



**Final Energy Consumption**  
20.6 (Mtoe)



2.7.7

○○○ § ○○○

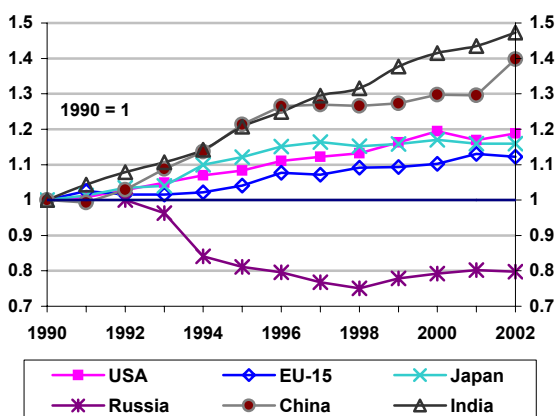
# **Part 2 : ENERGY**

## **Chapter 2.8**

### **World Context**

## Gross Inland Consumption by Country (Mtoe)

Mtoe	World	USA	EU-15	Japan	Russia	China*	India
1990	8 628	1 928	1 327	446	-	891	365
1991	8 723	1 943	1 361	451	-	884	381
1992	8 764	1 982	1 348	461	775	917	394
1993	8 871	2 021	1 347	464	746	969	404
1994	8 936	2 062	1 356	490	652	1 012	417
1995	9 154	2 089	1 381	500	628	1 080	441
1996	9 417	2 141	1 430	513	617	1 126	456
1997	9 507	2 164	1 422	519	595	1 130	473
1998	9 565	2 182	1 448	514	581	1 127	481
1999	9 738	2 242	1 452	516	603	1 134	503
2000	9 951	2 303	1 463	522	614	1 156	517
2001	10 011	2 254	1 500	517	621	1 154	524
2002	10 231	2 290	1 489	517	618	1 245	538

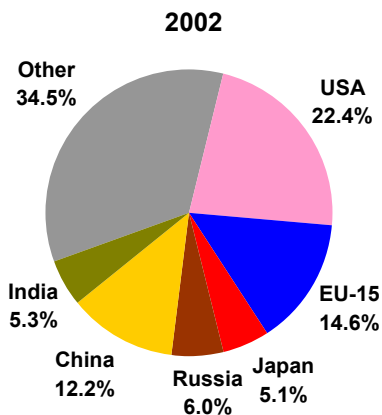


Source: Organisation for Economic Co-operation and Development

\* Note: Includes Hong Kong

## Gross Inland Consumption by Country (shares in %)

	Other	USA	EU-15	Japan	Russia	China *	India
1990	-	22.3	15.4	5.2	-	10.3	4.2
1991	-	22.3	15.6	5.2	-	10.1	4.4
1992	33.0	22.6	15.4	5.3	8.8	10.5	4.5
1993	32.9	22.8	15.2	5.2	8.4	10.9	4.6
1994	33.0	23.1	15.2	5.5	7.3	11.3	4.7
1995	33.2	22.8	15.1	5.5	6.9	11.8	4.8
1996	33.3	22.7	15.2	5.5	6.5	12.0	4.8
1997	33.7	22.8	15.0	5.5	6.3	11.9	5.0
1998	33.8	22.8	15.1	5.4	6.1	11.8	5.0
1999	33.8	23.0	14.9	5.3	6.2	11.6	5.2
2000	33.9	23.1	14.7	5.2	6.2	11.6	5.2
2001	34.4	22.5	15.0	5.2	6.2	11.5	5.2
2002	34.5	22.4	14.6	5.1	6.0	12.2	5.3



**Source:** Organisation for Economic Co-operation and Development

\* **Note:** Includes Hong Kong

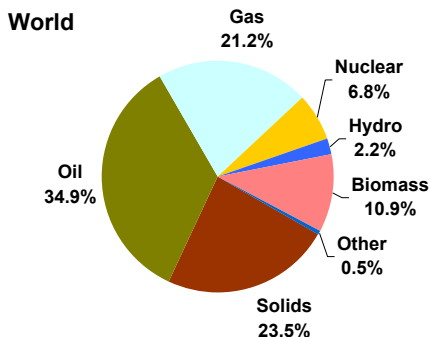


## Gross Inland Consumption by Fuel/Product 2002

in Mtoe	All Products	Solids	Oil	Gas	Nuclear	Hydro	Biomass	Other
<b>USA</b>	2290	542	900	537	210	20	69	12
<b>EU-15</b>	1489	217	597	349	233	24	57	12
<b>Japan</b>	517	100	256	66	77	7	7	4
<b>Russia</b>	618	107	128	326	37	14	7	-1
<b>China *</b>	1245	713	250	34	7	25	217	0
<b>India</b>	538	178	119	23	5	6	208	0
<b>Others</b>	3533	545	1319	838	125	128	552	24
<b>World</b>	10231	2402	3569	2173	694	224	1118	52

### Fuel Shares in %

<b>USA</b>	100	23.7	39.3	23.5	9.2	0.9	3.0	0.5
<b>EU-15</b>	100	14.6	40.1	23.5	15.6	1.6	3.8	0.8
<b>Japan</b>	100	19.3	49.4	12.8	14.9	1.4	1.4	0.8
<b>Russia</b>	100	17.3	20.8	52.7	6.0	2.3	1.1	-0.2
<b>China *</b>	100	57.2	20.1	2.7	0.5	2.0	17.5	0.0
<b>India</b>	100	33.1	22.0	4.2	0.9	1.0	38.7	0.1
<b>Others</b>	100	15.4	37.3	23.7	3.6	3.6	15.6	0.7
<b>World</b>	100	23.5	34.9	21.2	6.8	2.2	10.9	0.5

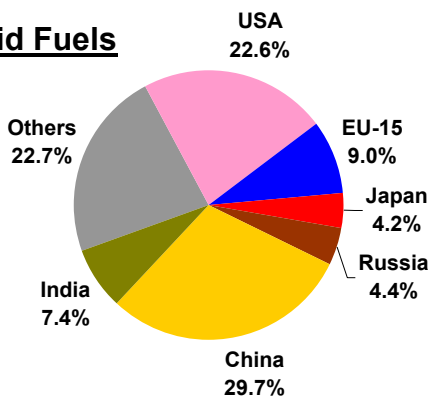


**Source:** Organisation for Economic Co-operation and Development

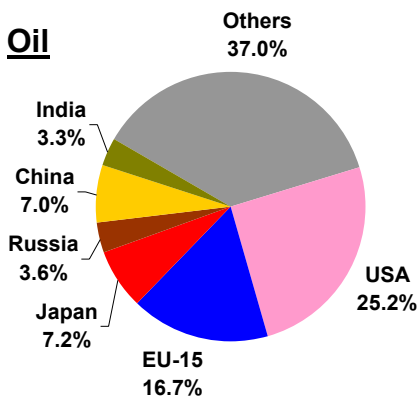
\* **Note:** Includes Hong Kong

## Shares in Gross Fuel Consumption 2002

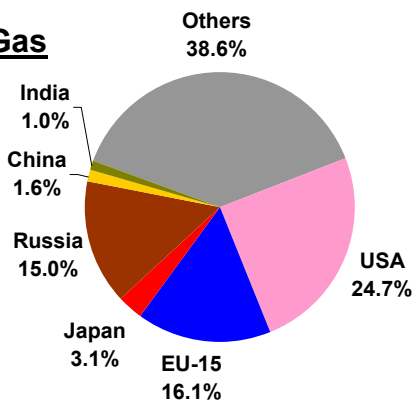
### Solid Fuels



### Oil



### Gas

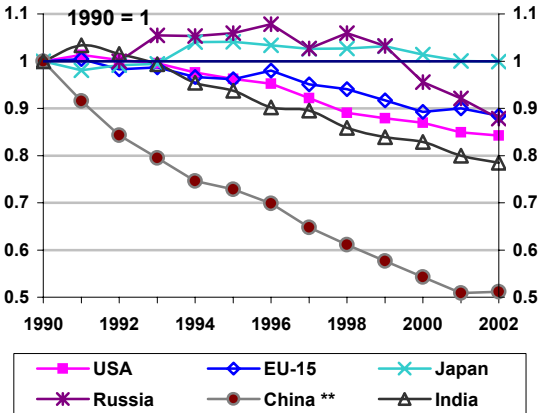


Source: Organisation for Economic Co-operation and Development

Note: China includes Hong Kong

### Energy Intensity toe / Meuro \*

Mtoe	World	USA	EU-15	Japan	Russia	China **	India
1990	427	387	218	118	-	2304	1734
1991	426	392	219	116	-	2109	1793
1992	420	388	214	117	1961	1942	1761
1993	420	385	215	118	2068	1831	1723
1994	411	378	211	123	2065	1719	1655
1995	409	372	210	123	2078	1678	1625
1996	408	368	213	122	2115	1610	1565
1997	398	356	207	122	2013	1493	1552
1998	391	344	205	122	2077	1407	1489
1999	387	340	200	122	2025	1328	1455
2000	380	336	194	120	1874	1250	1438
2001	378	328	196	118	1806	1172	1386
2002	379	326	193	118	1722	1179	1361



**Source:** Organisation for Economic Co-operation and Development  
Definition for "energy intensity" is

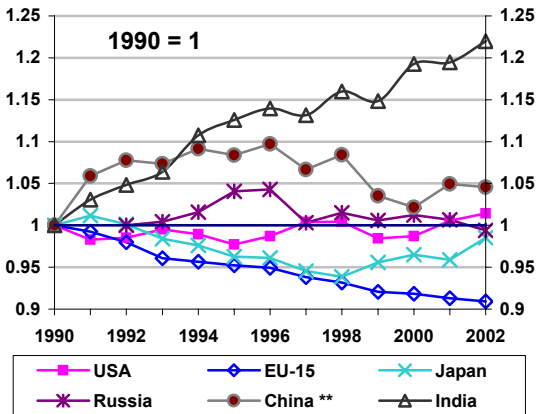
gross inland consumption of energy / gross domestic product

\* Note: For GDP at 1995 market prices, using exchange rates

\*\* Note: Includes Hong Kong

## Carbon Intensity tonne CO<sub>2</sub> / toe

	World	USA	EU-15	Japan	Russia	China **	India
1990	2.39	2.50	2.34	2.28	-	2.57	1.62
1991	2.39	2.46	2.33	2.31	-	2.72	1.67
1992	2.40	2.47	2.30	2.29	2.43	2.77	1.70
1993	2.38	2.49	2.25	2.25	2.44	2.76	1.72
1994	2.38	2.48	2.24	2.23	2.47	2.81	1.79
1995	2.37	2.45	2.23	2.20	2.53	2.79	1.82
1996	2.39	2.47	2.23	2.20	2.53	2.82	1.84
1997	2.38	2.51	2.20	2.16	2.44	2.74	1.83
1998	2.38	2.51	2.18	2.14	2.47	2.79	1.88
1999	2.34	2.46	2.16	2.18	2.44	2.66	1.86
2000	2.35	2.47	2.15	2.20	2.46	2.63	1.93
2001	2.37	2.52	2.14	2.19	2.45	2.70	1.93
2002	2.34	2.54	2.13	2.25	2.41	2.69	1.97



**Source:** Organisation for Economic Co-operation and Development  
Definition for "carbon intensity" is

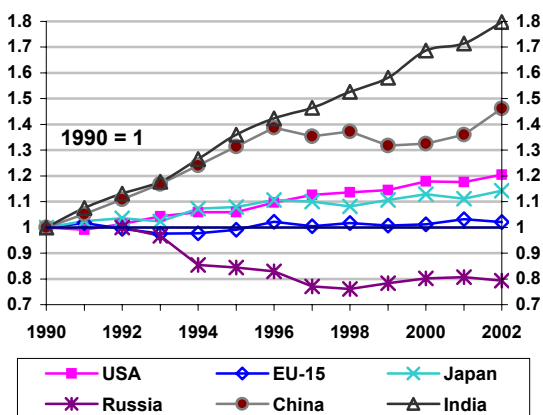
CO<sub>2</sub> emissions / gross inland consumption of energy

\*\* Note: Includes Hong Kong

## CO<sub>2</sub> Emissions from Energy

(Million tonnes CO<sub>2</sub>)

	World	USA	EU-15	Japan	Russia	China*	India
1990	20662	4826	3112	1019	-	2290	591
1991	20844	4781	3166	1043	-	2407	636
1992	21023	4888	3096	1055	1882	2540	669
1993	21144	5035	3035	1042	1821	2674	696
1994	21313	5109	3041	1093	1608	2839	748
1995	21737	5109	3083	1100	1589	3010	804
1996	22472	5290	3181	1127	1562	3177	842
1997	22587	5438	3128	1121	1451	3099	866
1998	22746	5486	3164	1101	1433	3142	903
1999	22815	5527	3133	1128	1473	3017	935
2000	23395	5690	3151	1150	1510	3035	998
2001	23684	5673	3210	1132	1519	3113	1013
2002	23928	5815	3175	1164	1492	3347	1063

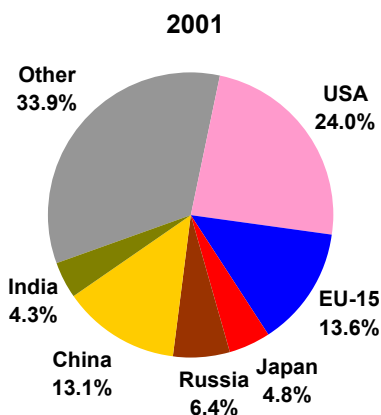


Source: Organisation for Economic Co-operation and Development

\* Note: Includes Hong Kong

## World CO<sub>2</sub> Emissions from Energy (shares in %)

	Other	USA	EU-15	Japan	Russia	China*	India
1990	-	23.4	15.1	4.9	-	11.1	2.9
1991	-	22.9	15.2	5.0	-	11.5	3.1
1992	32.8	23.3	14.7	5.0	9.0	12.1	3.2
1993	32.3	23.8	14.4	4.9	8.6	12.6	3.3
1994	32.3	24.0	14.3	5.1	7.5	13.3	3.5
1995	32.4	23.5	14.2	5.1	7.3	13.8	3.7
1996	32.5	23.5	14.2	5.0	7.0	14.1	3.7
1997	33.1	24.1	13.8	5.0	6.4	13.7	3.8
1998	33.0	24.1	13.9	4.8	6.3	13.8	4.0
1999	33.3	24.2	13.7	4.9	6.5	13.2	4.1
2000	33.6	24.3	13.5	4.9	6.5	13.0	4.3
2001	33.9	24.0	13.6	4.8	6.4	13.1	4.3
2002	32.9	24.3	13.3	4.9	6.2	14.0	4.4



Source: Organisation for Economic Co-operation and Development

\* Note: Includes Hong Kong

# **Part 3 : TRANSPORT**

## **Chapter 3.1 : General**

## Statistical Overview EU Transport

data for 2002, otherwise indicated

Employment	The transport services sector employed about 7.5 million persons in the EU-25. 61% of them worked in land transport (road, rail, inland waterways), 2% in sea transport, 5% in air transport and around one third (32%) in supporting and auxiliary transport activities (such as cargo handling, storage and warehousing, travel and transport agencies, tour operators).
Household expenditure	Private households in the EU-25 spent € 745 billion or roughly 14% of their total consumption on transport. About one sixth of this sum (€ 124 billion) was spent for purchased passenger transport services, the rest (€ 621 billion) for private transport (mainly cars).
Goods transport	The demand for the four transport modes road, rail, inland waterways and pipelines in the EU-25 added up to 2158 billion tkm or 4764 tkm per person. Road accounted for 72.0% of this total, rail for 16.4%, inland waterways for 6.0% and pipelines for the remaining 5.6%. These figures, however, do not include maritime transport, nor air transport. For the EU-15, maritime transport alone had a share of almost 41%.
Passenger transport	Intra-EU-25 and domestic transport demand using passenger cars, buses & coaches, railways as well as tram & metro was ca. 5092 billion pkm or 11240 pkm per person. Passenger cars accounted for 82.5% of this total, buses & coaches for 9.5%, railways for 6.8% and tram & metro for 1.1%. These figures, however, do not include air transport which, in the EU-15, had a share of 5.7% of total transport performance.
Transport growth	<u>Goods transport</u> : ca. 2.4% per year (1995-2002). <u>Passenger transport</u> : ca. 1.7% per year (1995-2002).
Safety	<u>Road</u> : 49719 persons killed in the EU-25 (fatalities within 30 days), 38604 of which in the EU-15. <u>Rail</u> : 121 passengers killed in the EU-15.



## Road transport

### Speed Limits, Blood Alcohol Limits, Maximum Gross Vehicle Weight

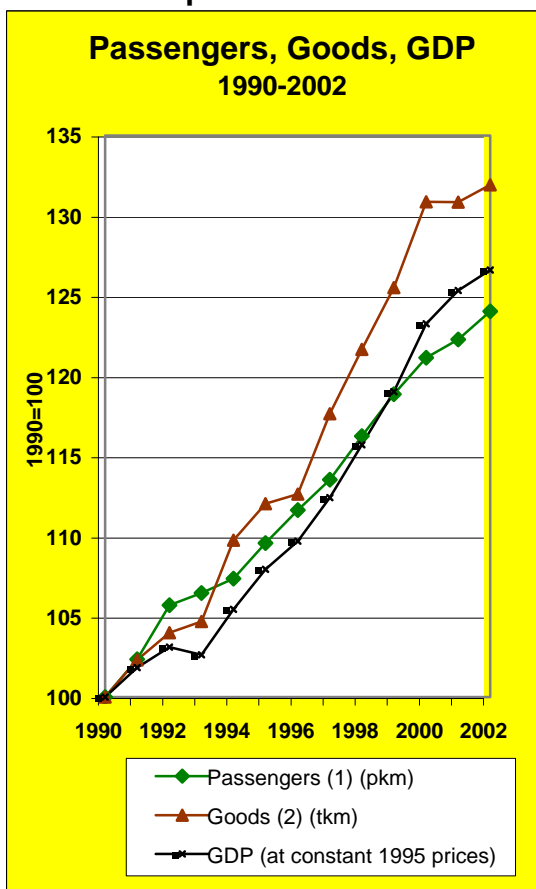
	Speed limit, cars (in general), km/h :			Blood alcohol limit, grams of alcohol in 1 litre of blood	Maximum gross vehicle weight :	
	Built-up areas	Outside built-up areas	Motorways		General, tonnes	Combined transport, tonnes
BE	50	90	120	0.5	44	44
CZ	50	90	130	0.0	42	
DK	50	80	110	0.5	48	48
DE	50	100	(130)	0.5	40	44
EE	50	90	-	0.2	40	
EL	50	90	120	0.5	40	44
ES	50	90	120	0.5	40	44
FR	50	80-90	110-130	0.5	40	44
IE	48	96	112	0.8	40	44
IT	50	90	110-150	0.8	44	44
CY	50	80	100	0.9		
LV	60	90	110	0.5	40	
LT	50	90	110-130	0.4	40	
LU	50	90	130	0.8	44	44
HU	50	80	120	0.0	40	
MT	40	64	-	0.8		
NL	50	80	120	0.5	50	50
AT	50	100	130	0.5	40	44
PL	60	90	130	0.5	40	
PT	50	90-100	120	0.5	40	44
SI	50	90	130	0.5	40	
SK	60	90	130	0.0	40	
FI	50	80-100	100-120	0.5	60	60
SE	30-50	70	110	0.2	60	60
UK	48	96	112	0.8	40	44
BG	50	90	120	0.5	40	
HR	50	80	130	0.5		
RO	50	90	120	0.0	40	
TR	50	90	130	0.5	40	
IS	50	80-90	-	0.5	44	
NO	50	80	90	0.2	50	
CH	50	80	120	0.8	34	

Source : National sources

#### Notes :

**Speed limits : Germany :** Motorways: No general speed limit, recommended speed limit is 130 km/h (more than half the network has a speed limit of 120 km/h or less). **France :** Dual carriageways 110 km/h. If road is wet : motorways 110 km/h, dual carriageways 100 km/h, national roads 80 km. **Italy :** 150 km/h on certain 2x3 lane motorways. If road is wet : motorways 110 km/h, dual carriageways 90 km/h. **Finland :** in Winter : 100 km/h on motorways, 80 km/h on other roads. **Iceland:** 80 km/h on gravel roads.

### Transport Growth EU-15



**Notes :**

(1) : passenger cars, buses & coaches, tram+metro, railways, air

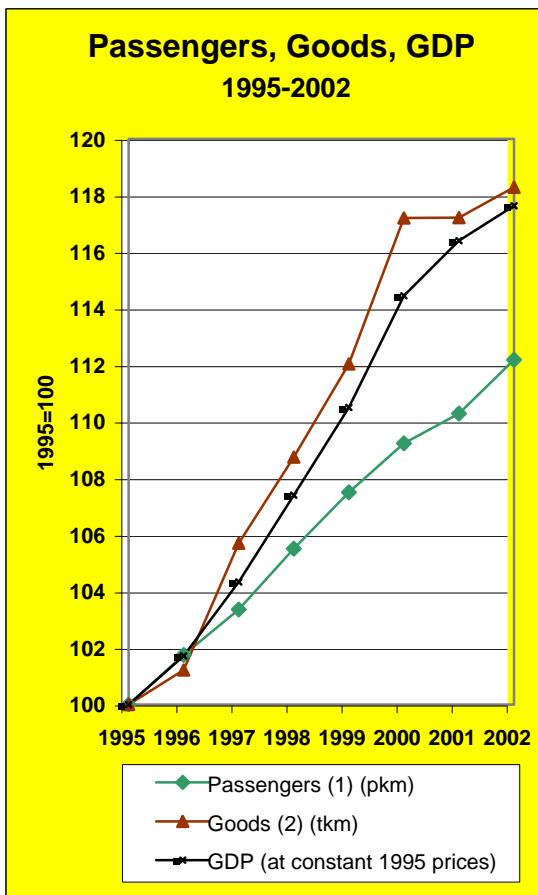
(2) : road, rail, inland waterways, pipelines, sea (intra-EU + domestic)

### Annual Growth Rates EU-15

% change per year

	1980-1990	1991-2001	2001-2002
<b>GDP (real growth)</b>	2.3	2.1	1.0
<b>Industrial production</b>	1.8	1.5	-0.8
<b>Passenger transport</b> pkm ( 5 modes )	3.0	1.8	1.3
<b>Freight transport</b> tkm ( 5 modes )	1.6	2.5	0.8

### Transport Growth EU-25



**Notes :**

(1) : passenger cars, buses & coaches, tram+metro, railways

(2) : road, rail, inland waterways, pipelines

### Annual Growth Rates EU-25

% change per year

	1995-2002	2001-2002
<b>GDP (real growth)</b>	2.3	1.1
<b>Passenger transport</b> pkm ( 4 modes )	1.7	1.7
<b>Freight transport</b> tkm ( 4 modes )	2.4	0.9

3.1.5

3.1.5

### Member States External Trade with World by Mode of Transport

Year 2003 Value (billion €)

	Import							
	Total	Sea	Road	Rail	Inland waterway	Pipeline	Air	Other / unknown
BE	207.1	49.7	78.8	5.3	3.5	8.2	17.4	44.1
CZ	45.2		36.8	3.6		2.6	2.0	0.1
DK	51.0	35.4	7.9	0.3	-		1.9	5.5
DE	531.9	72.7	224.2	15.5	8.0	23.0	54.7	133.9
EE	5.7	2.1	2.4	0.6		0.0	0.5	0.0
EL	38.6	16.4	15.0	0.5		0.3	3.7	2.7
ES	183.8	55.1	104.5	5.2		1.5	9.0	8.4
FR	345.3	58.3	192.8	10.6	1.0	5.6	31.3	45.6
IE	47.4	21.0	3.6	0.7	-	0.2	9.4	12.6
IT	257.1	71.2	125.6	16.1		9.3	17.8	17.1
CY	3.6	2.6	-	-	-	-	0.6	0.4
LV	4.6	0.8	2.8	0.5		0.2	0.2	0.1
LT	8.5	1.7	4.3	0.7		1.1	0.3	0.4
LU	14.4		8.7	1.0	0.2	0.3	2.6	1.6
HU	42.3		22.3	3.8	0.4	2.7	1.2	11.8
MT	2.9	1.7	-	-	-	-	1.2	0.0
NL	232.3	45.6	81.6	1.8	3.3	3.2	12.1	84.8
AT	88.0		64.2	6.4	0.6	4.0	4.3	8.4
PL	60.4	5.9	40.2	6.2		3.9	2.1	1.9
PT	39.9	10.4	26.5	0.2	-	0.5	1.9	0.4
SI	12.2	0.7	9.7	1.0	-	0.3	0.5	0.1
SK	19.9		15.7	1.8	0.1	1.9	0.3	0.1
FI	37.6	26.3	3.0	1.6		0.8	4.3	1.5
SE	73.8	59.6	6.6	0.3		0.5	4.3	2.5
UK	346.1	78.1	0.1	0.6			61.5	205.9
<b>EU25</b>	<b>2699.7</b>	<b>615.5</b>	<b>1077.5</b>	<b>84.2</b>	<b>17.0</b>	<b>70.0</b>	<b>245.1</b>	<b>590.2</b>
<b>EU15</b>	<b>2494.3</b>	<b>599.9</b>	<b>943.2</b>	<b>66.0</b>	<b>16.5</b>	<b>57.3</b>	<b>236.2</b>	<b>575.2</b>

Source : Eurostat

3.1.5

3.1.5

### Member States External Trade with World by Mode of Transport

Year 2003 Value (billion €)

	Export							
	Total	Sea	Road	Rail	Inland waterway	Pipeline	Air	Other / unknown
<b>BE</b>	224.9	27.0	119.0	6.9	3.9	3.3	25.6	39.3
<b>CZ</b>	43.0		34.5	6.8	0.1	0.4	1.0	0.2
<b>DK</b>	59.5	39.6	12.0	0.1	-	0.0	4.3	3.4
<b>DE</b>	661.6	123.0	266.6	29.5	4.3	0.8	58.6	178.7
<b>EE</b>	4.0	2.5	1.2	0.1		0.0	0.2	0.0
<b>EL</b>	11.7	4.2	6.3	0.0		0.0	0.9	0.2
<b>ES</b>	137.8	36.4	79.1	9.5		0.5	7.0	5.3
<b>FR</b>	341.9	53.2	187.5	12.1	1.7	3.5	38.3	45.6
<b>IE</b>	82.0	36.1	7.7	1.3	-	0.0	25.5	11.4
<b>IT</b>	258.2	62.3	145.0	5.1		0.1	23.1	22.7
<b>CY</b>	0.4	0.3	-	-	-	-	0.1	0.0
<b>LV</b>	2.6	1.1	1.2	0.1		0.0	0.0	0.0
<b>LT</b>	6.2	1.5	2.4	1.3		0.1	0.1	0.7
<b>LU</b>	11.8		9.4	0.6		0.0	0.4	1.3
<b>HU</b>	38.1		18.1	1.7	0.5	0.0	0.5	17.3
<b>MT</b>	2.0	0.8	-	-	-	-	1.2	0.0
<b>NL</b>	260.0	30.7	142.4	2.8	7.9	12.1	20.2	43.9
<b>AT</b>	85.9		64.3	5.1	0.4	1.6	6.3	8.2
<b>PL</b>	47.5	5.9	33.9	5.7	0.2	0.4	0.7	0.7
<b>PT</b>	27.7	6.9	18.7	0.0	-	0.0	1.8	0.2
<b>SI</b>	11.3	0.1	10.1	0.5	-	0.1	0.3	0.0
<b>SK</b>	19.3		12.4	6.0	0.3	0.4	0.1	0.0
<b>FI</b>	47.0	32.4	5.5	0.8	0.3	0.2	6.1	1.7
<b>SE</b>	90.2	64.7	11.6	0.8		0.0	11.4	1.6
<b>UK</b>	269.8	62.0		2.4			52.5	152.9
<b>EU25</b>	<b>2744.2</b>	<b>590.8</b>	<b>1189.0</b>	<b>99.4</b>	<b>19.5</b>	<b>23.7</b>	<b>286.4</b>	<b>535.3</b>
<b>EU15</b>	<b>2569.8</b>	<b>578.6</b>	<b>1075.1</b>	<b>77.0</b>	<b>18.4</b>	<b>22.2</b>	<b>282.1</b>	<b>516.3</b>

Source : Eurostat

## 3.1.6

## 3.1.6

### Member States External Trade with Extra EU-25 by Mode of Transport

Year 2003 Value (billion €)

	Import							
	Total	Sea	Road	Rail	Inland waterway	Pipeline	Air	Other / unknown
<b>BE</b>	131.5	29.2	56.2	4.5	1.4	1.8	13.5	24.8
<b>CZ</b>	12.9		8.0	1.3		2.3	1.3	0.0
<b>DK</b>	31.3	21.1	5.3	0.2	-		1.8	2.9
<b>DE</b>	285.8	65.7	95.7	3.1	2.9	19.8	50.1	48.3
<b>EE</b>	2.0	0.5	0.6	0.6		0.0	0.3	0.0
<b>EL</b>	30.7	14.1	10.7	0.3		0.3	2.6	2.6
<b>ES</b>	135.8	49.0	68.4	4.0		1.4	6.8	6.1
<b>FR</b>	231.2	49.4	112.7	6.2	0.4	3.2	26.6	32.7
<b>IE</b>	25.8	12.3	1.2	0.6	-	0.0	8.1	3.5
<b>IT</b>	190.1	67.3	78.2	11.9		8.4	14.2	10.2
<b>CY</b>	1.5	1.1	-	-	-	-	0.2	0.2
<b>LV</b>	1.1	0.2	0.4	0.4		0.2	0.1	0.0
<b>LT</b>	3.8	0.6	1.1	0.7		1.1	0.1	0.2
<b>LU</b>	8.7		4.3	0.5	0.1	0.1	2.6	1.0
<b>HU</b>	15.6		5.5	1.6	0.2	2.4	0.7	5.3
<b>MT</b>	0.9	0.4	-	-	-	-	0.5	0.0
<b>NL</b>	171.3	37.5	49.4	1.4	1.9	1.9	10.8	68.5
<b>AT</b>	66.9		47.5	4.2	0.2	3.9	3.8	7.4
<b>PL</b>	18.6	3.3	7.2	2.4		3.8	1.2	0.7
<b>PT</b>	32.7	8.7	21.5	0.2	-	0.5	1.5	0.4
<b>SI</b>	3.0	0.4	2.0	0.2	-	0.2	0.2	0.0
<b>SK</b>	5.2		2.5	0.7		1.8	0.2	0.0
<b>FI</b>	22.7	14.4	1.8	1.5		0.8	3.3	0.9
<b>SE</b>	44.9	32.2	5.6	0.2		0.4	4.1	2.3
<b>UK</b>	261.5	72.7	0.1	0.3			60.8	127.7
<b>EU25</b>	1735.4	480.1	585.9	46.9	7.1	54.2	215.5	345.6
<b>EU15</b>	1670.7	473.6	558.7	39.2	6.9	42.5	210.7	339.2

Source : Eurostat

3.1.6

3.1.6

### Member States External Trade with Extra EU-25 by Mode of Transport

Year 2003 Value (billion €)

	Export							
	Total	Sea	Road	Rail	Inland waterway	Pipeline	Air	Other / unknown
<b>BE</b>	155.9	18.5	81.1	5.6	2.1	2.2	24.6	21.8
<b>CZ</b>	5.9		3.5	1.7		0.0	0.6	0.1
<b>DK</b>	37.1	23.0	8.3	0.1	-		4.1	1.6
<b>DE</b>	394.8	104.4	127.7	14.7	2.2	0.3	52.0	93.4
<b>EE</b>	0.7	0.4	0.2	0.1		0.0	0.0	0.0
<b>EL</b>	8.9	3.1	4.9	0.0		0.0	0.6	0.2
<b>ES</b>	92.5	29.7	46.7	6.8		0.1	6.2	3.0
<b>FR</b>	235.7	45.7	112.6	6.9	0.9	2.5	33.8	33.3
<b>IE</b>	49.0	16.6	3.3	1.2	-	0.0	23.8	4.0
<b>IT</b>	193.0	58.0	96.3	3.3		0.1	21.4	14.0
<b>CY</b>	0.2	0.1	-	-	-	-	0.1	0.0
<b>LV</b>	0.5	0.2	0.2	0.1		0.0	0.0	0.0
<b>LT</b>	2.3	0.2	0.7	0.9		0.1	0.1	0.3
<b>LU</b>	7.8		6.0	0.5		0.0	0.3	1.0
<b>HU</b>	7.2		3.7	0.9	0.1	0.0	0.3	2.2
<b>MT</b>	1.1	0.2	-	-	-	-	0.8	0.0
<b>NL</b>	171.0	23.3	91.2	2.5	4.8	7.0	17.1	25.2
<b>AT</b>	66.2		46.9	4.0	0.2	1.5	5.8	7.8
<b>PL</b>	9.1	2.9	4.8	0.9		0.0	0.4	0.2
<b>PT</b>	20.8	4.8	14.2	0.0	-		1.6	0.2
<b>SI</b>	3.7	0.1	3.1	0.1	-	0.1	0.3	0.0
<b>SK</b>	3.0		1.0	1.8		0.0	0.1	0.0
<b>FI</b>	31.0	18.9	4.6	0.5	0.1	0.0	5.5	1.4
<b>SE</b>	59.4	36.4	9.7	0.6		0.0	11.0	1.6
<b>UK</b>	193.9	58.0		1.5			51.5	82.9
<b>EU25</b>	<b>1750.7</b>	<b>444.6</b>	<b>670.5</b>	<b>54.9</b>	<b>10.4</b>	<b>13.9</b>	<b>261.9</b>	<b>294.3</b>
<b>EU15</b>	<b>1717.0</b>	<b>440.4</b>	<b>653.4</b>	<b>48.4</b>	<b>10.3</b>	<b>13.7</b>	<b>259.2</b>	<b>291.4</b>

Source : Eurostat

3.1.7

3.1.7

### Member States External Trade with World by Mode of Transport

Year 2003      Quantity (million tonnes)

	Import							
	Total	Sea	Road	Rail	Inland waterway	Pipeline	Air	Other / unknown
<b>BE</b>	260.7	86.2	38.9	3.6	15.1	45.8	0.2	70.9
<b>CZ</b>	51.2		17.1	19.7	0.3	14.2	0.0	0.0
<b>DK</b>	49.9	43.7	3.4	0.2	-	0.0	0.0	2.6
<b>DE</b>	535.7	111.3	102.8	21.8	30.1	124.6	0.8	144.3
<b>EE</b>	7.6	1.9	1.7	3.9		0.0	0.0	0.0
<b>EL</b>	51.6	39.0	7.7	0.8		1.9	0.1	2.1
<b>ES</b>	241.0	184.7	43.6	1.6		6.2	0.2	4.6
<b>FR</b>	335.6	153.7	93.5	9.2	5.3	31.3	0.4	42.3
<b>IE</b>	29.7	20.2	2.1	0.0	-	1.1	0.1	6.2
<b>IT</b>	340.4	219.6	53.8	18.2		38.8	0.2	9.7
<b>CY</b>	3.6	3.3	-	-	-	-	0.0	0.1
<b>LV</b>	6.2	0.8	2.0	3.2		0.2	0.0	0.0
<b>LT</b>	18.6	2.2	2.4	6.1		7.3	0.0	0.3
<b>LU</b>	18.9		10.4	4.7	1.2	2.3	0.0	0.2
<b>HU</b>	37.9		9.9	10.5	1.7	14.1	0.0	0.9
<b>MT</b>	1.5	1.5	-	-	-	-	0.0	0.0
<b>NL</b>	332.1	166.1	62.8	1.6	32.9	19.7	0.1	48.9
<b>AT</b>	75.2		30.3	22.7	4.2	13.8	0.0	4.1
<b>PL</b>	83.1	13.6	18.0	22.7	0.1	26.3	0.0	1.1
<b>PT</b>	49.7	35.0	12.3	0.3	-	2.0	0.0	0.0
<b>SI</b>	14.9	3.0	6.5	2.6	-	2.7	0.0	0.0
<b>SK</b>	33.9		7.3	15.7	0.3	10.7	0.0	0.0
<b>FI</b>	68.0	45.9	4.5	13.2	0.8	3.5	0.0	0.1
<b>SE</b>	74.0	69.5	3.6	0.8		0.0	0.1	0.2
<b>UK</b>	240.7	146.7	0.0	0.1			0.9	93.0
<b>EU25</b>	<b>2961.8</b>	<b>1348.0</b>	<b>534.5</b>	<b>183.3</b>	<b>92.0</b>	<b>366.4</b>	<b>3.3</b>	<b>431.7</b>
<b>EU15</b>	<b>2703.3</b>	<b>1321.7</b>	<b>469.7</b>	<b>98.8</b>	<b>89.6</b>	<b>291.0</b>	<b>3.2</b>	<b>429.2</b>

Source : Eurostat



3.1.7

3.1.7

## Member States External Trade with World by Mode of Transport

Year 2003      Quantity (million tonnes)

	Export							
	Total	Sea	Road	Rail	Inland waterway	Pipeline	Air	Other / unknown
<b>BE</b>	203.6	39.3	68.2	8.7	17.8	17.3	0.7	51.5
<b>CZ</b>	44.5		19.0	20.6	0.4	4.3	0.2	0.0
<b>DK</b>	44.0	38.9	3.7	0.1	-	0.0	0.0	1.2
<b>DE</b>	311.5	54.7	93.2	17.5	12.0	4.3	0.7	129.2
<b>EE</b>	9.6	7.6	1.3	0.7		0.0	0.0	0.0
<b>EL</b>	17.7	12.4	5.0	0.1		0.0	0.1	0.0
<b>ES</b>	103.2	46.5	45.2	1.6		2.3	4.1	3.6
<b>FR</b>	197.4	63.5	91.3	13.8	11.3	5.5	0.4	11.7
<b>IE</b>	12.2	6.2	1.4	0.0	-	0.0	0.1	4.5
<b>IT</b>	119.7	54.3	49.3	3.6		0.5	0.3	11.6
<b>CY</b>	1.3	1.2	-	-	-	-	0.0	0.0
<b>LV</b>	11.0	8.8	1.7	0.5		0.0	0.0	0.0
<b>LT</b>	15.0	4.7	2.6	6.7		0.0	0.0	0.5
<b>LU</b>	9.4		6.7	1.8	0.3	0.0	0.0	0.5
<b>HU</b>	22.3		11.4	5.3	2.4	0.3	0.0	1.4
<b>MT</b>	0.1	0.1	-	-	-	-	0.0	0.0
<b>NL</b>	255.6	49.7	73.7	2.7	59.0	63.2	0.4	6.9
<b>AT</b>	47.1		31.1	10.5	1.7	0.6	0.1	3.0
<b>PL</b>	70.8	24.3	20.5	23.3	1.9	0.2	0.1	0.3
<b>PT</b>	18.2	7.5	10.2	0.2	-	0.0	0.3	0.0
<b>SI</b>	8.5	0.1	5.4	0.7	-	2.3	0.0	0.0
<b>SK</b>	22.5		8.7	11.3	1.6	0.9	0.0	0.0
<b>FI</b>	40.0	35.6	2.8	0.9	0.6	0.0	0.0	0.2
<b>SE</b>	76.4	68.6	5.2	1.2		0.0	0.1	1.3
<b>UK</b>	188.4	56.9		0.3			0.6	130.5
<b>EU25</b>	<b>1850.0</b>	<b>581.1</b>	<b>557.5</b>	<b>132.1</b>	<b>108.9</b>	<b>101.7</b>	<b>8.3</b>	<b>358.1</b>
<b>EU15</b>	<b>1644.3</b>	<b>534.1</b>	<b>487.0</b>	<b>63.0</b>	<b>102.7</b>	<b>93.7</b>	<b>8.0</b>	<b>355.8</b>

Source : Eurostat

## 3.1.8

## 3.1.8

### Member States External Trade with Extra EU-25 by Mode of Transport

Year 2003      Quantity (million tonnes)

	Import							
	Total	Sea	Road	Rail	Inland waterway	Pipeline	Air	Other / unknown
<b>BE</b>	141.2	66.6	24.6	3.1	6.3	10.3	0.2	30.2
<b>CZ</b>	24.6		1.8	9.6		13.1	0.0	0.0
<b>DK</b>	34.7	31.6	1.9	0.1	-		0.0	1.1
<b>DE</b>	281.0	88.6	40.3	7.5	8.0	110.9	0.7	24.9
<b>EE</b>	4.7	0.5	0.5	3.5		0.0	0.0	0.0
<b>EL</b>	47.6	36.4	6.6	0.6		1.9	0.1	2.1
<b>ES</b>	206.2	168.6	27.3	1.3		6.2	0.2	2.7
<b>FR</b>	242.2	133.7	47.9	3.8	1.6	19.2	0.3	35.7
<b>IE</b>	13.8	12.5	0.2	0.0	-	0.0	0.1	1.0
<b>IT</b>	300.2	212.9	33.4	12.9		35.0	0.2	5.9
<b>CY</b>	2.3	2.3	-	-	-	-	0.0	0.0
<b>LV</b>	3.1	0.2	0.4	2.4		0.1	0.0	0.0
<b>LT</b>	15.2	1.4	0.5	5.8		7.3	0.0	0.1
<b>LU</b>	11.8		5.7	3.2	1.1	1.7	0.0	0.2
<b>HU</b>	22.2		1.9	5.8	1.0	13.3	0.0	0.1
<b>MT</b>	0.3	0.3	-	-	-	-	0.0	0.0
<b>NL</b>	259.1	140.5	39.8	1.0	22.2	13.3	0.1	42.4
<b>AT</b>	51.9		22.6	9.3	2.6	13.7	0.0	3.7
<b>PL</b>	51.8	9.2	2.4	16.3		22.6	0.0	0.7
<b>PT</b>	44.0	30.6	11.1	0.2	-	2.0	0.0	0.0
<b>SI</b>	6.9	1.9	1.8	0.6	-	2.7	0.0	0.0
<b>SK</b>	20.7		0.7	9.3		10.7	0.0	0.0
<b>FI</b>	50.2	28.7	3.9	13.2	0.8	3.5	0.0	0.1
<b>SE</b>	46.7	42.5	3.3	0.7		0.0	0.1	0.1
<b>UK</b>	191.7	142.3	0.0	0.0			0.9	48.5
<b>EU25</b>	<b>2074.1</b>	<b>1151.1</b>	<b>278.5</b>	<b>110.2</b>	<b>43.5</b>	<b>287.4</b>	<b>3.0</b>	<b>199.3</b>
<b>EU15</b>	<b>1922.3</b>	<b>1135.4</b>	<b>268.5</b>	<b>56.9</b>	<b>42.5</b>	<b>217.6</b>	<b>3.0</b>	<b>198.4</b>

Source : Eurostat

## 3.1.8

## 3.1.8

### Member States External Trade with Extra EU-25 by Mode of Transport

Year 2003      Quantity (million tonnes)

	Export							
	Total	Sea	Road	Rail	Inland waterway	Pipeline	Air	Other / unknown
BE	131.2	30.7	44.5	6.5	8.5	12.1	0.7	28.1
CZ	3.6		1.2	2.3		0.0	0.1	0.0
DK	22.0	19.0	2.3	0.1	-		0.0	0.6
DE	130.9	40.0	39.3	8.6	3.6	1.6	0.6	37.2
EE	1.7	1.3	0.2	0.2		0.0	0.0	0.0
EL	14.9	10.5	4.2	0.1		0.0	0.1	0.0
ES	69.8	36.1	26.8	1.0		0.0	4.0	1.7
FR	122.9	45.1	55.1	8.4	5.9	2.8	0.4	5.3
IE	4.3	3.2	0.1	0.0	-	0.0	0.1	0.9
IT	91.4	45.5	33.3	2.4		0.5	0.3	9.4
CY	0.4	0.4	-	-	-	-	0.0	0.0
LV	1.1	0.7	0.1	0.3			0.0	0.0
LT	6.1	0.7	0.4	4.5			0.0	0.2
LU	6.6		4.3	1.6	0.2	0.0	0.0	0.5
HU	6.8		3.7	2.1	0.5	0.0	0.0	0.2
MT	0.0	0.0	-	-	-	-	0.0	0.0
NL	165.9	35.8	46.5	2.1	40.8	36.7	0.3	3.6
AT	38.0		24.9	8.5	1.0	0.6	0.1	2.9
PL	14.4	7.7	3.4	3.1		0.0	0.0	0.1
PT	15.1	5.4	9.3	0.1	-		0.3	0.0
SI	2.8	0.1	2.0	0.2	-	0.5	0.0	0.0
SK	2.5		0.6	1.8	0.1	0.0	0.0	0.0
FI	23.1	20.2	1.9	0.6	0.2	0.0	0.0	0.1
SE	43.8	36.8	4.6	1.0		0.0	0.1	1.3
UK	112.6	55.7		0.1			0.6	56.1
<b>EU25</b>	<b>1031.9</b>	<b>395.0</b>	<b>308.5</b>	<b>55.7</b>	<b>60.9</b>	<b>55.0</b>	<b>7.8</b>	<b>148.4</b>
<b>EU15</b>	<b>992.5</b>	<b>384.1</b>	<b>297.0</b>	<b>41.1</b>	<b>60.3</b>	<b>54.4</b>	<b>7.6</b>	<b>147.8</b>

Source : Eurostat

3.1.9

3.1.9

## Household Expenditure for Transport

Final Consumption of Households in  
Transport

as a % of total consumption

	1980	1985	1990	1995	2000	2001	2002
BE				13.6	14.4	14.1	13.9
CZ				10.5	9.9		
DK	12.3	15.5	11.8	13.5	12.0	11.2	11.7
DE				14.2	13.9	13.7	13.7
EE				8.0	7.8	8.4	9.1
EL				9.0	8.9	8.9	8.9
ES				11.6	13.1	12.9	12.4
FR	14.8	14.8	15.5	14.6	14.8	14.9	
IE			11.1	11.3	12.4	11.2	
IT	11.5	11.4	12.3	12.3	12.6	12.4	12.2
CY				14.6	14.6	14.4	
LV				7.8	7.8		
LT				8.2			
LU							
HU				12.6	15.3	15.0	
MT					14.4	13.7	13.1
NL			12.6	12.2	12.3	12.0	12.3
AT	13.7	12.8	12.9	12.6	12.5	12.2	12.6
PL				11.1	13.0	12.8	
PT			15.1	16.2	17.9	17.2	
SI			14.8	16.9	16.1	15.2	
SK					9.1	10.6	10.3
FI	14.1	15.3	15.5	12.7	12.9	12.2	12.3
SE				12.6	13.7	13.1	12.8
UK	13.8	15.0	15.3	14.2	14.3	14.6	

Source : Eurostat

## Household Expenditure for Transport

Final Consumption of Households in  
Transport by Type of Expenditure in 2002

billion euro

	Total consumption in transport, of which:	purchase of personal transport equipment	operation of personal transport equipment	purchased transport services
BE	19.245	8.071	9.871	1.304
CZ	3.606	1.096	1.913	0.597
DK	10.254	3.545	5.361	1.348
DE	169.520	67.340	80.840	21.340
EE	0.508	0.072	0.337	0.099
EL	8.209	1.382	4.109	2.718
ES	51.962	20.718	22.701	8.543
FR	126.253	34.053	72.585	19.615
IE	5.647	2.038	2.265	1.343
IT	91.004	28.207	49.008	13.789
CY	1.183	0.418	0.434	0.331
LV	0.503	0.100	0.258	0.146
LT	1.290	0.214	0.818	0.258
LU	2.073	0.816	1.146	0.111
HU	5.707	1.982	2.863	0.862
MT	0.409			
NL	25.888	10.012	12.896	2.980
AT	16.232	4.974	8.735	2.523
PL	16.947			
PT	13.264	5.017	7.387	0.861
SI	1.951	0.702	1.072	0.177
SK	1.371	0.438	0.674	0.259
FI	8.375	2.823	3.972	1.580
SE	15.840	4.857	8.622	2.362
UK	147.626	57.067	53.141	37.418
<b>EU25</b>	<b>744.868</b>			
<b>EU15</b>	<b>711.393</b>	<b>250.919</b>	<b>342.638</b>	<b>117.835</b>

Source : Eurostat, national statistics

Note: 2001 for CZ, CY, LT, LV, PT, UK

## Employment by Mode of Transport

2001

	Road freight transport	Road passenger transport	Sea transport	Air transport
<b>BE</b>	62 538	31 899	537	5 520
<b>CZ</b>	41 885	96 876		
<b>DK</b>	41 219	30 504	10 030	12 936
<b>DE</b>	312 952	268 532	17 035	40 957
<b>EE</b>	9 810			
<b>EL</b>				
<b>ES</b>	314 182	158 805	6 985	37 677
<b>FR</b>	324 237	193 282	12 772	70 376
<b>IE</b>	13 200			
<b>IT</b>	313 647	139 640	19 626	23 727
<b>CY</b>	2 463	2 529	3 659	2 361
<b>LV</b>	9 103		221	503
<b>LT</b>	21 487	19 269	1 557	1 195
<b>LU</b>	6 126	2 149	369	3 015
<b>HU</b>	60 292	54 447	7	3 320
<b>MT</b>	826	1 444	710	1 993
<b>NL</b>	125 850		6 889	
<b>AT</b>	51 289	42 494	6	8 718
<b>PL</b>				
<b>PT</b>	46 632	37 374	1 246	11 329
<b>SI</b>				
<b>SK</b>	9 612	18 492	0	
<b>FI</b>	37 917	23 959	8 198	8 762
<b>SE</b>	63 050	50 143	14 340	13 525
<b>UK</b>	319 779	210 676	15 889	95 905

**Source :** Eurostat (economic activity according to NACE Rev.1 classification)

## Employment by Mode of Transport

2001

	Railways	Inland water transport	Pipelines	Travel agencies & tour operators	Other* auxiliary transport activities
BE		735		8 532	39 443
CZ				12 816	23 503
DK		181		5 730	26 445
DE		9 223	577	121 640	346 050
EE			0	1 387	9 052
EL					
ES		239		44 820	139 125
FR		3 141		44 072	252 528
IE				5 615	
IT		2 919	3 594	42 831	280 856
CY	0	0	0	3 118	4 538
LV		19		1 100	15 065
LT	14 380	246	0	1 544	10 925
LU	3 212	1 026	0	660	1 897
HU		1 939	59	6 147	21 190
MT	0	0	0	1 688	4 636
NL			159	24 345	62 276
AT		320		11 478	24 090
PL					
PT		605		7 967	27 811
SI					
SK				2 178	6 403
FI		259	0	5 202	19 020
SE		1 059	21	14 259	42 679
UK		2 273	367	126 479	240 573

**Source :** Eurostat (economic activity according to NACE Rev.1 classification)

**Note :** \* : cargo handling and storage, other supporting activities, activities of other transport agencies

## 3.1.12

## 3.1.12

### Number of Enterprises by Mode of Transport

2001

	Road freight transport	Road passenger transport	Sea transport	Air transport
BE	7 847	2 291	76	121
CZ	1 659	29 156	1	30
DK	7 721	4 217	410	95
DE	37 164	25 116	1 113	345
EE	1 181	174	16	8
EL				
ES	127 211	67 064	175	44
FR	43 423	33 879	751	539
IE	3 565			
IT	110 044	22 691	691	193
CY				
LV	1 072	260	10	12
LT	3 113	2 061	14	13
LU	501	171	285	14
HU	23 444	10 248	5	87
MT	346	1 003	177	19
NL	10 140	4 000	700	165
AT	5 485	4 154	14	79
PL	0		88	
PT	6 018	9 173	72	27
SI	9 266	1 093		40
SK	570	106	0	
FI	11 567	9 091	225	67
SE	15 209	9 636	503	170
UK	36 044	9 794	1 011	914

Source : Eurostat (economic activity according to NACE Rev.1 classification)



3.1.12

3.1.12

### Number of Enterprises by Mode of Transport 2001

	Railways	Inland water transport	Pipelines	Travel agencies & tour operators	Other* auxiliary transport activities
BE	4	235	13	1 152	2 243
CZ	42	68	1	6 412	2 877
DK	20	33	2	554	1 494
DE	210	1 222	27	9 106	11 564
EE	9	1	0	220	602
EL					
ES	7	24		6 414	12 145
FR	32	1 191	32	4 479	6 671
IE				269	
IT	119	728	42	9 592	16 211
CY					
LV	4	5	1	215	992
LT	4	10	0	259	740
LU	1	92	0	111	127
HU	14	96	38	1 633	3 380
MT	0	0	0	539	214
NL	10	3 555	15	2 370	3 830
AT	16	54	2	1 324	1 043
PL					5 644
PT		22		942	1 526
SI		23	0	914	818
SK				402	385
FI	4	83	0	811	1 215
SE	32	370	10	2 340	2 595
UK	114	212	30	6 595	9 973

**Source :** Eurostat (economic activity according to NACE Rev.1 classification)

**Note :** \* : cargo handling and storage, other supporting activities, activities of other transport agencies

## Turnover by Mode of Transport

2001

million EUR

	Road freight transport	Road passenger transport	Sea transport	Air transport
BE	8 936.0	1 362.3	1 870.1	2 658.1
CZ	1 782.6	1 983.4		
DK	4 721.1	2 094.0	13 384.5	2 856.2
DE	27 069.5	11 604.8	12 669.2	8 470.6
EE	389.1			
EL				
ES	24 076.3	5 510.3	1 219.4	7 132.4
FR	30 917.0	11 113.3	5 174.5	16 513.7
IE	1 525.7			
IT	31 295.2	5 025.1	5 928.0	10 935.4
CY	62.3	62.3	204.8	387.5
LV	225.1		9.2	63.2
LT	551.8	122.2	58.3	78.8
LU	807.3	96.7	438.8	1 153.9
HU	2 386.4	874.3	0.2	457.2
MT	37.2	29.9	50.9	246.9
NL	14 129.2	2 435.7	4 531.5	7 372.7
AT	5 864.3	2 156.9	18.3	2 276.5
PL	0.0		432.3	
PT	2 840.5	915.9	335.9	1 589.8
SI	856.2	158.3		111.4
SK	302.1	196.6	0.0	
FI	3 971.2	1 311.9	2 278.0	1 673.6
SE	6 801.0	4 000.9	3 303.1	3 053.0
UK	34 773.6	12 824.5	5 503.9	27 625.0

Source : Eurostat (economic activity according to NACE Rev.1 classification)

## Turnover by Mode of Transport

2001

million EUR

	Railways	Inland water transport	Pipelines	Travel agencies & tour operators	Other* auxiliary transport activities
BE		163.1		4 850.2	11 089.4
CZ				1 054.1	2 755.8
DK		16.2		2 355.5	5 803.2
DE	14 621.6	1 535.0	374.7	28 540.1	55 574.5
EE			0.0	129.8	1 173.3
EL					
ES	1 719.6	35.6		11 465.7	20 799.7
FR		464.8		11 819.4	44 628.8
IE				1 742.3	
IT	5 915.5	253.5	1 096.0	12 742.7	29 789.4
CY	0.0	0.0	0.0	119.1	240.1
LV		0.1		68.2	863.3
LT	158.0	3.3	0.0	60.4	414.9
LU	295.0	36.4	0.0	226.6	407.1
HU	838.0	51.9	1.3	551.5	1 457.2
MT	0.0	0.0	0.0	203.0	218.6
NL		1 560.9		4 582.1	13 783.5
AT		74.6		3 540.8	8 264.0
PL					3 609.9
PT		17.6		2 068.1	3 345.4
SI		0.3	0.0	269.5	711.5
SK				478.6	453.7
FI	727.6	22.0	0.0	1 102.4	3 661.3
SE	1 219.8	85.5	2.0	4 439.7	10 750.6
UK	9 306.9	145.2	287.2	61 330.9	46 026.5

Source : Eurostat (economic activity according to NACE Rev.1 classification)

Note : \* : cargo handling and storage, other supporting activities, activities of other transport agencies

## Employment in Railways

Main railways		staff in 1000					
Company		1970	1980	1990	1995	2001	2002
BE	SNCB	56.7	65.7	45.2	41.9	41.8	42.5
CZ	CD				103.2	84.1	81.8
DK	DSB	24.0	22.1	20.4	15.7	8.4	8.0
DE	DB AG	392.7	329.0	236.0	294.9	223.0	214.6
DE-E	DR	252.6	237.9	246.3	(DB)	(DB)	(DB)
EE	EVR	11.6	11.5	9.0	8.3	5.1	4.5
EL	CH	12.6	12.1	13.3	12.5	9.6	9.1
ES	RENFE	85.1	71.5	49.7	39.0	32.9	31.9
FR	SNCF	303.0	254.4	202.1	181.1	177.4	177.5
IE	CIE	22.3	18.1	11.8	11.1	5.7	6.0
IT	FS	197.6	220.7	200.4	129.8	104.0	102.6
LT	LG			18.8	17.5	14.3	13.1
LV	LDZ	28.0	29.2	23.7	21.3	15.2	14.7
LU	CFL	4.4	4.2	3.5	3.2	3.2	3.2
HU	MAV Rt	150.3	136.2	127.2	69.9	54.3	53.1
NL	NS	26.8	26.9	26.2	26.6	24.7	23.0
AT	ÖBB	73.9	72.5	66.9	61.3	48.5	46.9
PI	PKP	360.8	363.4	336.6	240.6	158.8	143.3
PT	CP	25.6	24.7	22.1	13.1	6.1	5.5
SL	SZ	18.8	20.5	21.3	9.8	9.1	8.9
SK	ZSR						22.8
SK	ZSSK				53.0	44.5	20.9
FI	VR	27.7	28.7	20.2	15.2	12.2	11.7
SE	SJ					3.6	3.6
UK	All railways	237.0	191.0	140.0	113.0		

Other railway companies		staff in 1000		
Company		1995	2001	2002
DE	German non-federal rail.	14.0	15.0	
ES	FEVE	2.0	2.0	2.0
ES	FGC	1.3	1.2	1.2
HU	GySEV/ROEE			2.0
UK	EWS	-	6.1	6.1
UK / FR	Eurotunnel	3.0	3.6	3.5
UK	NIR	0.8	0.7	0.8

Source : Union Internationale des Chemins de Fer

DE : 1994 creation of DB AG out of former DB and DR

Infrastructure companies		staff in 1000			
Company		1995	2001	2002	
DK	Banestyrelsen	founded 1.1.97	-	3.2	2.6
NL	Railion	founded 1.1.95		1.4	1.4
PT	REFER	founded 1.7.97	-	5.8	5.2
SE	Banverket	founded 1.1.88	7.4	6.5	5.9
UK	Railtrack	founded 1.4.94	11.5	11.4	11.4

### Airline Companies : Employment, Number of Aircraft, Turnover

2003

Company		Number of employees	Aircraft in fleet	Turnover mio €
Adria Airways	SI	539	8	121.3
Aer Lingus	IE	4 476	30	888.3
Air Berlin	DE	1 800	43	898.0
Air France	FR	71 525	247	12 337.0
Air Malta	MT	1 877	13	219.3
Alitalia	IT	22 200	195	4 385.0
Austrian Airlines	AT	7 137	91	2 242.7
British Airways	UK	47 702	300	10 954.9
British Midland	UK	4 548	43	1 118.7
Cargolux	LU	1 356	12	836.2
Croatia Airlines	CR	1 045	10	141.8
Cyprus Airways	CY	2 170	12	320.7
Czech Airlines	CZ	4 543	35	589.9
Easyjet	UK	3 453	73	1 350.3
Finnair	FI	6 920	58	1 557.6
Iberia	ES	26 314	140	4 619.3
Icelandair	IS	2 110	17	431.6
JAT Yugoslav Air.	YU	3 528	25	168.2
KLM	NL	37 487	126	5 877.0
LOT Polish Airlines	PL	3 789	51	639.1
Lufthansa	DE	39 068	332	9 070.0
Luxair	LU	2 241	16	289.1
Malev Hungarian A.	HU	2 756	31	415.8
Meridiana	IT	1 360	21	373.9
Olympic	EL	1 126	38	816.3*
Ryanair	IE	2 288	74	1556.6**
SAS	DK/SE	22 945	174	5 476.5
SN Brussels Air.	BE	1 977	37	533.5
Spanair	ES	2 904	53	838.8
Swiss Int. Air Lines	CH	8 838	85	2 659.2
TAP	PT	8 360	38	1 144.0
TAROM Romanian	RO	2 608	19	198.5
Turkish Airlines	TR	10 239	65	1 533.6
Virgin Atlantic	UK	6 912	28	1 843.2

**Source** : Association of European Airlines, individual airlines

**Note** : Turnover sometimes refers to the turnover of the group of which the airline is a part.

\*: 2002

\*\* : year to March 2004

### Comparison EU-25 - World : Infrastructure and Vehicles

		EU-25	USA	Japan	China	Russia
<b>Transport infrastructure (2001)</b>						
<b>Road network</b>	1000 km	4 800	7 173	1 172	1 700	585
<b>Motorway network</b>	1000 km	55.6	90.0	6.9	20.0	
<b>Railway network</b>	1000 km	199.7	315.3	23.7	70.1	86.1
<b>Electrified rail lines</b>	1000 km	100.2		16.5	18.7	40.3
<b>Nav. inland waterways</b>	1000 km	34.7	42.0	1.8	121.0	84.6
<b>Oil Pipelines</b>	1000 km	27.5	255.2	0.2	15.1	70.8
<b>Vehicle stock (2000)</b>						
<b>Passenger cars stock</b>	million	199.2	132.4	53.3	8.5	20.4
<b>Motorization</b>						
cars / 1000 persons		441	480	413	7	141
			(1)			
<b>Commercial vehicles</b>	million	26.8	82.3	20.2	7.2	5.4

**Source** : Eurostat, International Road Federation, Union Internationale des Chemins de Fer, Central Intelligence Agency, US Bureau of Transportation Statistics, Japan International Transport Institute

**Note**: (1): In the USA many private vehicles (pick-ups, vans) are classified as commercial vehicles.

3.1.17

3.1.17

**Comparison EU-25 - World :****Passenger and Freight Transport**

	EU-25	USA	Japan	China **	Russia
<b>Passenger transport 2001</b>					
billion pkm					
<b>Passenger car (1)</b>	4 118	6 544	753		
<b>Bus / coach</b>	482	238	86	660	182
<b>Railway</b>	348	24	385	449	158
<b>Tram + metro</b>	57	25	33		71
<b>Waterborne</b>			4	10	1
<b>Air (domestic / intra-EU-25)</b>	300	808	81	100	61
<b>Freight transport 2001</b>					
billion tkm					
<b>Road</b>	1 516	1 534	313	597	22
<b>Rail</b>	358	2 183	22	1 362	1 434
<b>Inland waterways</b>	130	505	-		75
<b>Oil pipeline</b>	124	841	-		1 962
<b>Sea (domestic / intra-EU-25)</b>	1254*	414	244		93
<b>Transport safety 2001</b>					
<b>Road fatalities 1000</b>	50.4	42.1	10.1		30.9

**Source:** Eurostat, Energy and Transport DG, Japan Statistics Bureau, US Bureau of Transportation Statistics, Goskom STAT (Russia), National Bureau of Statistics of China, Organisation for Economic Co-operation and Development, International Road Traffic and Accident Database

**Notes :**

(1): Including light trucks / vans in the USA and light vehicles in Japan

\*: EU-15 data

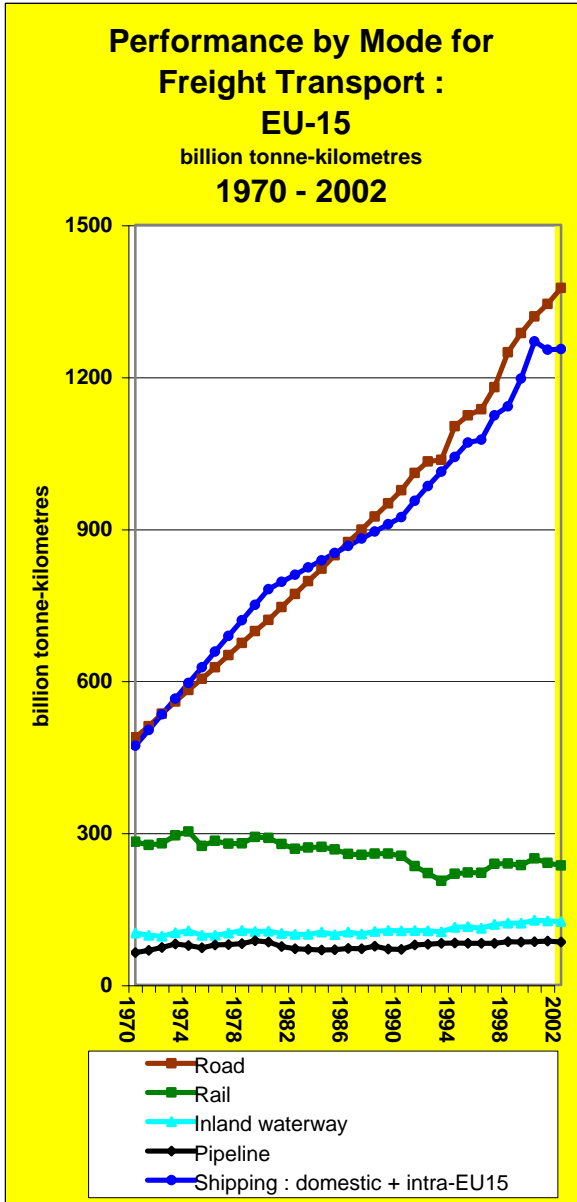
\*\*: **China:** data for 2000

# **Part 3 : TRANSPORT**

## **Chapter 3.2 :**

**Performance of  
Freight Transport  
expressed in  
tonne-kilometres**





**Source :** tables 3.2.7; 3.2.11 to 3.2.13, estimates

**Notes:** Road: haulage on national territory  
Sea: Intra-EU traffic including domestic traffic. The estimates for maritime traffic are based on different statistical sources as from 2001 and remain subject to revision.

### Performance by Mode for Freight Transport : EU-15 (5 modes)

1000 mio tonne-kilometres

	Road	Rail	Inland Waterways	Pipe-lines	Sea	Total
1970	489	282	103	64	472	1 410
1980	720	290	106	85	781	1 982
1990	976	255	107	70	923	2 332
1991	1 010	234	107	79	955	2 386
1995	1 124	222	115	82	1 070	2 613
2000	1 319	250	128	85	1 270	3 052
2001	1 344	241	126	87	1 254	3 051
2002	1 376	236	125	85	1 255	3 076
1995-02	+ 22 %	+ 6 %	+ 9 %	+ 3 %	+ 17 %	+ 18 %

### Average annual change

% per year

	Road	Rail	Inland Waterways	Pipe-lines	Sea	Total
1970-80	+4.0	+0.3	+0.3	+2.9	+5.2	+3.5
1980-90	+3.1	-1.3	+0.1	-1.9	+1.7	+1.6
1990-00	+3.1	-0.2	+1.8	+2.0	+3.2	+2.7
1995-02	+2.9	+0.9	+1.2	+0.4	+2.3	+2.4
2002	+2.4	-2.2	-0.9	-2.4	+0.1	+0.8

### Modal split

%

	Road	Rail	Inland Waterways	Pipe-lines	Sea
1970	34.7	20.0	7.3	4.5	33.5
1980	36.3	14.6	5.3	4.3	39.4
1990	41.9	10.9	4.6	3.0	39.6
1991	42.3	9.8	4.5	3.3	40.0
1995	43.0	8.5	4.4	3.1	41.0
2000	43.2	8.2	4.2	2.8	41.6
2001	44.0	7.9	4.1	2.8	41.1
2002	44.7	7.7	4.1	2.8	40.8

Source : tables 3.2.7; 3.2.11 to 3.2.13, estimates

Notes: Road: haulage on national territory

Sea: Intra-EU traffic including domestic traffic. The estimates for maritime traffic are based on different statistical sources as from 2001 and remain subject to revision.

### Performance by Mode for Freight Transport : EU-15 (4 modes)

1000 mio tonne-kilometres

	Road	Rail	Inland Water-ways	Pipe-lines	Total
1970	489	282	103	64	938
1980	720	290	106	85	1 201
1990	976	255	107	70	1 409
1991	1 010	234	107	79	1 430
1995	1 124	222	115	82	1 543
2000	1 319	250	128	85	1 782
2001	1 344	241	126	87	1 798
2002	1 376	236	125	85	1 821
1995-02	+ 22 %	+ 6 %	+ 9 %	+ 3 %	+ 18 %

### Average annual change

% per year

	Road	Rail	Inland Water-ways	Pipe-lines	Total
1970-80	+4.0	+0.3	+0.3	+2.9	+2.5
1980-90	+3.1	-1.3	+0.1	-1.9	+1.6
1990-00	+3.1	-0.2	+1.8	+2.0	+2.4
1995-02	+2.9	+0.9	+1.2	+0.4	+2.4
2002	+2.4	-2.2	-0.9	-2.4	+1.3

### Modal split

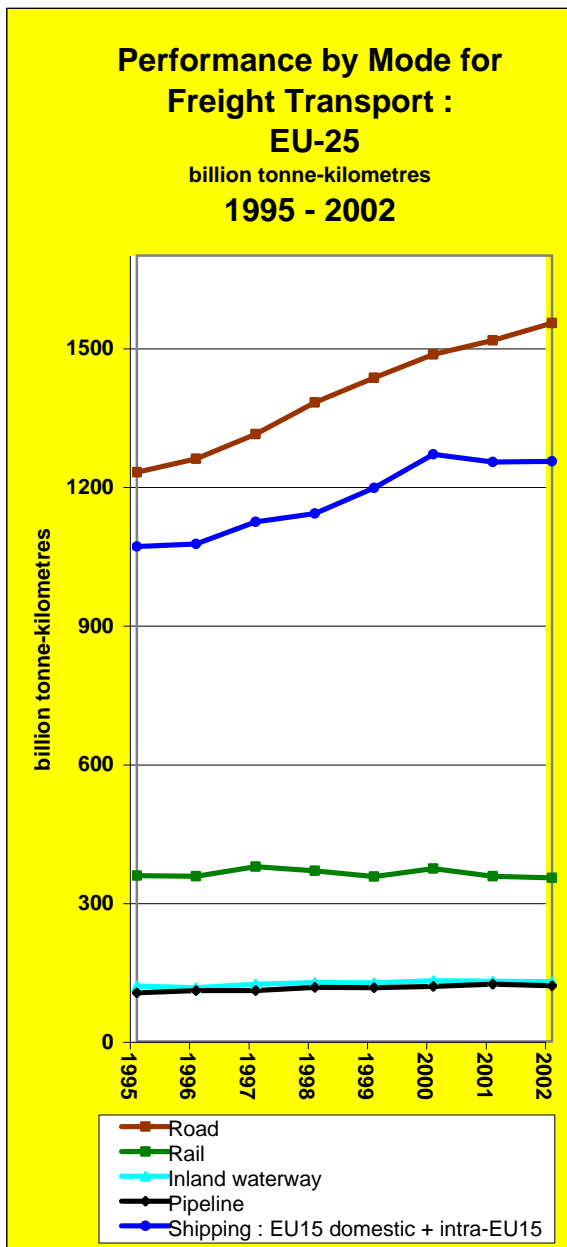
%

	Road	Rail	Inland Water-ways	Pipe-lines
1970	52.1	30.1	10.9	6.8
1980	60.0	24.1	8.8	7.1
1990	69.3	18.1	7.6	5.0
1991	70.6	16.4	7.5	5.5
1995	72.9	14.4	7.4	5.3
2000	74.0	14.0	7.2	4.8
2001	74.7	13.4	7.0	4.8
2002	75.5	12.9	6.9	4.6

Source : tables 3.2.7; 3.2.11 to 3.2.13

#### Note:

Road: haulage on national territory



Source: tables 3.2.10 to 3.2.13

**Notes:**

Road: tkm by vehicles registered in the country

Pipeline: Slovakia not available

Shipping: EU-15 domestic and intra-EU15 only

### Performance by Mode for Freight Transport EU-25 (4 modes)

1000 mio tonne-kilometres

	Road	Rail	Inland Waterways	Pipe-lines	Total
<b>1995</b>	1 231	359	120	105	<b>1 815</b>
<b>1996</b>	1 260	358	117	110	<b>1 844</b>
<b>1997</b>	1 313	378	124	110	<b>1 926</b>
<b>1998</b>	1 382	369	127	117	<b>1 996</b>
<b>1999</b>	1 435	357	127	117	<b>2 035</b>
<b>2000</b>	1 486	374	132	119	<b>2 111</b>
<b>2001</b>	1 516	358	130	124	<b>2 128</b>
<b>2002</b>	1 554	354	129	120	<b>2 158</b>
<b>1995-02</b>	+ 26 %	- 1 %	+ 8 %	+ 15 %	+ 19 %
<b>per year</b>	+ 3.4 %	- 0.2 %	+ 1.1 %	+ 2.0 %	+ 2.5 %
<b>2001-02</b>	+ 2.5 %	- 1.0 %	- 0.7 %	- 2.7 %	+ 1.4 %

### Modal split

%

	Road	Rail	Inland Waterways	Pipe-lines
<b>1995</b>	67.8	19.8	6.6	5.8
<b>1996</b>	68.3	19.4	6.3	6.0
<b>1997</b>	68.2	19.6	6.4	5.7
<b>1998</b>	69.3	18.5	6.4	5.9
<b>1999</b>	70.5	17.5	6.2	5.7
<b>2000</b>	70.4	17.7	6.2	5.6
<b>2001</b>	71.3	16.8	6.1	5.8
<b>2002</b>	72.0	16.4	6.0	5.6

Source: tables 3.2.10 to 3.2.13

## Notes:

Road: tkm by vehicles registered in the country

Pipeline: Slovakia not available

### Modal Split by Country for Freight Transport

(4 modes: not including transport by sea)

Year 2002

tonne-kilometres in %

	Road	Rail	Inland Water - ways	Pipeline
BE	70.0	12.9	14.3	2.8
CZ	70.7	25.6	0.9	2.8
DK	74.1	7.7	-	18.2
DE	69.7	14.5	12.8	3.0
EE	31.3	68.7	-	-
EL	98.1	1.9	-	-
ES	89.3	6.4	-	4.3
FR	77.8	14.0	2.3	5.8
IE	96.1	3.9	-	-
IT	86.3	9.1	0.1	4.5
CY	100.0	-	-	-
LV	22.4	54.7	-	22.9
LT	42.2	38.5	-	19.3
LU	77.3	15.2	7.5	-
HU	59.9	27.2	5.8	7.1
MT	100.0	-	-	-
NL	44.9	4.4	44.2	6.5
AT	51.3	29.7	4.9	14.0
PL	52.1	32.5	0.8	14.6
PT	87.0	13.0	-	-
SI	59.8	40.2	-	-
SK	66.4	30.8	2.8	-
FI	74.4	24.8	0.8	-
SE	62.6	37.4	-	-
UK	84.1	10.0	0.1	5.8
<b>EU25</b>	<b>72.2</b>	<b>16.3</b>	<b>6.0</b>	<b>5.6</b>
<b>EU15</b>	<b>75.5</b>	<b>12.9</b>	<b>6.9</b>	<b>4.6</b>

Source : tables 3.2.10 to 3.2.13

Notes : Road: haulage on national territory for EU15,  
haulage by vehicles registered in the Country for  
new MS

United Kingdom : data refer to Great Britain only

## 3.2.7

## 3.2.7

## Road : Haulage on National Territory

## National and International

1000 mio tkm

	1970	1980	1990	2000	2001	2002
BE	13.5	16.5	25.0	38.4	40.0	39.6
DK	7.0	11.3	13.7	17.8	17.6	17.9
DE	117.2	168.3	221.8	346.3	353.0	349.3
EL	4.9	7.3	10.9	18.8	19.6	20.4
ES	27.9	48.2	78.9	133.1	141.9	161.3
FR	107.4	165.7	193.9	266.5	273.7	277.2
IE (2)	4.0	5.0	3.9	8.3	9.1	10.7
IT	58.7	119.6	177.9	185.1	186.5	192.7
LU	0.3	0.6	1.3	2.4	2.4	2.9
NL	16.3	23.2	31.8	43.1	42.5	41.4
AT	9.0	14.0	16.0	27.5	28.5	29.5
PT	7.2	10.0	12.2	14.3	14.5	14.7
FI	12.8	18.4	26.3	28.5	27.6	29.0
SE (2)	20.9	21.4	26.5	31.4	30.0	31.8
UK (1)	81.6	90.8	136.3	158.0	156.9	157.3
<b>EU15</b>	<b>488.7</b>	<b>720.3</b>	<b>976.3</b>	<b>1319.3</b>	<b>1343.8</b>	<b>1375.8</b>

Source : Eurostat, national statistics, study for Energy and Transport DG

## Notes :

(1) national operators only

(2) national haulage by national operators only

United Kingdom : data refer to Great Britain only

### Road : Haulage by Vehicles Registered in the Country National Haulage

1000 mio tkm

	1995	1999	2000	2001	2002	2003
BE	18.62	15.76	19.75	20.57	20.39	19.58
CZ			14.21	15.01	16.32	17.36
DK	9.33	10.42	11.00	10.89	11.06	11.01
DE	201.30	226.89	226.53	230.02	225.47	227.21
EE		0.61	0.63	0.55	0.93	1.49
EL	12.36	19.90	20.00	20.00	20.00	20.00
ES	78.74	98.13	106.94	114.00	129.51	138.41
FR	135.30	159.03	163.16	168.57	169.74	170.93
IE	4.70	7.74	8.34	9.12	10.73	11.94
IT	150.30	151.97	158.25	154.75	160.08	
CY		1.16	1.16	1.26	1.29	1.37
LV		1.59	1.48	1.65	1.96	2.37
LT		1.61	1.53	1.52	1.52	1.96
LU	0.53	0.38	0.42	0.49	0.58	0.57
HU		12.02	12.15	11.85	10.61	10.67
MT		3.60	3.70	3.70	3.70	
NL	26.68	32.68	31.54	31.00	30.26	
AT	11.07	12.28	12.39	12.45	12.66	13.04
PL			14.29	14.03	15.30	20.31
PT	11.12	14.31	14.22	16.35	14.92	
SI				1.62	1.42	1.54
SK			5.06	5.32	5.02	5.25
FI	21.80	25.81	27.72	26.68	28.07	26.90
SE	28.36		31.45	29.97	31.84	31.47
UK	146.71	149.02	150.34	149.76	150.92	153.93
<b>EU25</b>				<b>1051.1</b>	<b>1074.3</b>	
<b>EU15</b>	<b>856.9</b>	<b>924.3</b>	<b>982.0</b>	<b>994.6</b>	<b>1016.2</b>	
BG			3.06	3.31	3.93	4.59
HR		1.61	1.91	3.21	3.66	4.12
RO		9.73	9.88	10.65	10.98	13.64
TR	112.50	150.97	161.55	151.42	150.91	
NO		11.74	12.11	12.39	12.72	

Source : Eurostat, European Conference of Ministers of Transport (ECMT)



## Road : Haulage by Vehicles Registered in the Country

### International Haulage

(including cross-trade and cabotage)

1000 mio tkm

	1999	2000	2001	2002	2003
BE	21.53	31.29	32.62	32.50	30.96
CZ		23.10	24.06	27.36	29.17
DK	12.81	13.02	11.27	11.46	12.00
DE	51.54	54.18	58.95	59.74	63.55
EE	3.09	3.06	4.14	3.48	4.88
EL	1.50	1.50	1.50	1.50	1.50
ES	36.13	41.78	47.04	55.04	54.18
FR	45.69	40.84	38.30	34.62	32.70
IE	2.47	3.94	3.20	3.55	3.72
IT	25.32	26.43	31.76	32.60	
CY	0.04	0.04	0.04	0.04	0.03
LV	2.57	3.30	3.72	4.21	4.44
LT	6.13	6.23	6.76	9.19	9.50
LU	5.94	7.20	8.21	8.60	9.08
HU	6.59	6.98	6.66	6.54	7.53
MT	0.00	0.00	0.00	0.00	
NL	50.88	48.03	47.49	47.16	
AT	21.70	22.73	25.08	25.84	26.52
PL		58.50	60.40	59.40	
PT	11.78	12.62	13.62	14.81	12.74
SI			3.89	3.19	3.17
SK		16.31	14.92	17.33	20.47
FI	3.85	4.26	3.80	3.90	4.03
SE		4.17	4.19	4.82	5.17
UK	17.24	15.28	13.50	13.12	13.21
<b>EU25</b>			<b>465.1</b>	<b>479.9</b>	
<b>EU15</b>	<b>308.4</b>	<b>327.3</b>	<b>340.5</b>	<b>349.2</b>	
BG		3.34	4.74	4.87	4.91
HR	0.82	0.95	3.57	3.75	4.12
RO	3.73	4.41	7.90	14.37	17.15
NO	3.17	3.02	2.79	2.71	

Source : Eurostat, European Conference of Ministers of Transport (ECMT)

**Road : Haulage by Vehicles  
Registered in the Country  
National and International Haulage**  
(including cross-trade and cabotage)

1000 mio tkm

	1995	1999	2000	2001	2002	2003
BE	45.60	37.30	51.00	53.20	52.90	50.54
CZ	31.30	36.96	37.31	39.07	43.67	46.54
DK	22.40	23.20	24.00	22.20	22.50	23.00
DE	237.80	278.40	280.70	289.00	285.20	290.75
EE	1.55	3.71	3.69	4.69	4.41	6.36
EL	13.20	21.40	21.50	21.50	21.50	21.50
ES	101.60	134.30	148.70	161.00	184.50	192.60
FR	178.20	204.70	204.00	206.90	204.40	203.64
IE	5.50	10.20	12.30	12.30	14.30	15.65
IT	163.00	177.30	184.70	186.50	192.70	
CY	1.10	1.20	1.20	1.30	1.30	1.40
LV	1.83	4.16	4.79	5.36	6.16	6.81
LT	5.20	7.74	7.77	8.27	10.71	11.46
LU	5.50	6.30	7.60	8.70	9.20	9.65
HU	13.80	18.60	19.12	18.50	17.14	18.20
MT	3.20	3.60	3.70	3.70	3.70	
NL	67.10	83.60	79.60	78.50	77.40	
AT	26.50	34.20	35.12	37.53	38.50	39.56
PL	51.20	70.50	72.80	74.40	74.68	
PT	18.80	26.09	26.84	29.97	29.72	
SI	3.30	4.20	5.30	5.51	4.61	4.71
SK	15.90	18.52	21.37	20.23	22.34	25.71
FI	24.50	29.70	32.00	30.50	31.97	30.93
SE	31.60	33.20	35.60	34.20	36.65	36.64
UK	161.50	166.30	165.60	163.30	164.00	167.14
<b>EU25</b>	<b>1231.2</b>	<b>1435.4</b>	<b>1486.3</b>	<b>1516.3</b>	<b>1554.2</b>	
<b>EU15</b>	<b>1102.8</b>	<b>1266.2</b>	<b>1309.3</b>	<b>1335.3</b>	<b>1365.4</b>	
BG			6.40	8.05	8.80	9.80
HR		2.42	2.86	6.78	7.41	8.24
RO	19.70	13.46	14.29	18.54	25.35	30.78
TR (1)	112.50	150.97	161.55	151.42	150.91	
IS	0.50	0.60	0.60	0.60	0.60	
NO	9.70	14.90	15.10	15.20	15.43	
CH	14.96	20.49	21.95			

**Source :** Eurostat, national data(CH), European Conference of Ministers of Transport (ECMT)

**Note :** (1) national transport only

## Railways

1000 mio tkm

	1970	1980	1990	2000	2002	2003
BE	7.88	8.04	8.37	7.67	7.30	7.29
CZ				17.50	15.81	15.85
DK	1.70	1.62	1.73	2.03	1.87	1.89
DE	113.00	121.30	101.70	76.82	72.42	73.95
EE	5.70	6.50	6.98	8.10	9.70	9.67
EL	0.69	0.81	0.61	0.43	0.40	0.40
ES	9.74	11.28	11.15	11.61	11.56	11.74
FR	67.59	68.82	50.67	55.35	50.04	46.84
IE	0.55	0.64	0.59	0.49	0.43	0.40
IT	18.07	18.38	19.36	22.82	20.41	20.30
CY	-	-	-	-	-	-
LV	15.52	17.59	18.54	13.31	15.02	17.96
LT	13.57	18.24	19.26	8.92	9.77	11.46
LU	0.76	0.67	0.62	0.63	0.57	0.52
HU	19.82	24.40	16.80	8.80	7.80	7.61
MT	-	-	-	-	-	-
NL	3.72	3.47	3.07	4.61	4.03	4.40
AT	9.87	11.00	12.16	16.60	17.10	16.87
PL	98.00	132.40	81.60	54.00	46.60	47.40
PT	0.78	1.00	1.46	2.18	2.20	2.07
SI	3.30	3.80	4.21	2.80	3.10	3.27
SK				11.23	10.38	10.11
FI	6.27	8.34	8.36	10.11	9.66	10.05
SE	17.31	16.65	19.10	20.09	19.00	20.14
UK	24.55	17.82	16.00	18.10	18.70	18.73
<b>EU25</b>	<b>494.3</b>	<b>559.0</b>	<b>461.7</b>	<b>374.2</b>	<b>353.9</b>	<b>358.9</b>
<b>EU15</b>	<b>282.5</b>	<b>289.8</b>	<b>254.9</b>	<b>249.5</b>	<b>235.7</b>	<b>235.6</b>
BG	13.70	17.68	14.13	5.54	4.63	5.27
HR				2.80	2.96	
RO	43.10	64.80	48.80	16.40	15.20	15.00
TR	5.50	5.00	7.89	9.76	7.18	8.61
IS	-	-	-	-	-	-
NO	2.60	3.00	2.60	3.00	2.70	2.60
CH	6.90	7.80	8.90	10.43	9.62	9.29

**Source :** Union Internationale des Chemins de Fer, European Conference of Ministers of Transport, Eurostat, national statistics

**Notes :** United Kingdom : data refer to Great Britain only

**DE:** includes DE-E : 1970=41.5, 1980=56.4,

**CS:** 1970: 55.9, 1980: 66.2, 1990: 59.4, 1991: 45.8, 1992: 44.0

## Inland Waterways

1000 mio tkm

	1970	1980	1990	2000	2001	2002
BE	6.7	5.9	5.45	7.22	7.66	8.07
CZ				0.77	0.60	0.55
DK	-	-	-	-	-	-
DE	48.8	51.4	54.80	66.47	64.82	64.17
EE	0.0	0.0	0.00	0.00	0.00	0.00
EL	-	-	-	-	-	-
ES	-	-	-	-	-	-
FR	12.2	10.9	7.60	9.11	8.29	8.27
IE	-	-	-	-	-	-
IT	0.4	0.2	0.12	0.17	0.18	0.14
CY	-	-	-	-	-	-
LV	0.1	0.1	0.29	0.00	0.00	0.00
LT	0.1	0.2	0.16	0.00	0.00	0.00
LU	0.3	0.3	0.34	0.38	0.37	0.28
HU	1.8	2.2	2.04	0.89	1.26	1.67
MT	-	-	-	-	-	-
NL	30.6	33.5	35.66	41.27	41.79	40.80
AT	1.3	1.6	1.66	2.44	2.56	2.85
PL	2.3	2.3	1.03	1.17	1.26	1.13
PT	-	-	-	-	-	-
SI	-	-	-	-	-	-
SK				1.38	1.00	0.93
FI	2.0	1.8	1.10	0.30	0.30	0.30
SE	-	-	-	-	-	-
UK	0.3	0.4	0.30	0.21	0.21	0.20
<b>EU25</b>	<b>109.3</b>	<b>114.2</b>	<b>115.0</b>	<b>131.8</b>	<b>130.3</b>	<b>129.4</b>
<b>EU15</b>	<b>102.6</b>	<b>105.9</b>	<b>107.0</b>	<b>127.6</b>	<b>126.2</b>	<b>125.1</b>
BG	1.8	2.6	1.61	0.31	0.40	0.60
HR	0.3	0.6	0.50	0.08	0.09	0.10
RO	1.4	2.4	2.09	2.63	2.70	3.60
TR	-	-	-	-	-	-
IS	-	-	-	-	-	-
NO	-	-	-	-	-	-
CH	0.1	0.1	0.20	0.13		

**Source :** Eurostat, European Conference of Ministers of Transport, national statistics

**Notes :**

**FI:** data published in national statistics include domestic sea traffic

**DE:** includes DE-E : 1970=2.4, 1980=2.2, 1990=1.9

**CS:** 1970: 2.43, 1980: 3.59, 1989: 5.10, 1990: 4.42, 1991: 3.89, 1992: 2.98

United Kingdom : data refer to Great Britain only

## Pipelines (Oil)

1000 mio tkm

	1970	1980	1990	2000	2001	2002
BE	0.27	1.80	1.02	1.62	1.60	1.60
CZ	-	-	-	1.61	1.66	1.72
DK	0.00	0.00	1.71	4.40	4.40	4.40
DE	16.90	14.30	13.30	15.03	15.80	15.20
EE	-	-	-	-	-	-
EL	-	-	-	-	-	-
ES	1.02	3.01	4.22	7.47	7.78	7.80
FR	28.18	34.60	19.60	21.67	21.20	20.70
IE	-	-	-	-	-	-
IT	7.00	9.00	9.20	10.32	10.62	10.00
CY	-	-	-	-	-	-
LV				6.47	7.52	6.30
LT				3.46	4.78	4.90
LU	-	-	-	-	-	-
HU				1.76	2.03	2.03
MT	-	-	-	-	-	-
NL	4.08	5.04	4.87	5.90	5.80	6.00
AT	3.62	7.06	5.30	7.56	8.07	8.07
PL	6.98	17.12	13.89	20.35	21.09	20.85
PT	-	-	-	-	-	-
SI	-	-	-	-	-	-
SK	-	-	-	-	-	-
FI	-	-	-	-	-	-
SE	-	-	-	-	-	-
UK	2.67	10.08	11.10	11.42	11.50	10.90
<b>EU25</b>	<b>77.1</b>	<b>111.8</b>	<b>91.7</b>	<b>119.1</b>	<b>123.9</b>	<b>120.5</b>
<b>EU15</b>	<b>63.7</b>	<b>84.9</b>	<b>70.3</b>	<b>85.4</b>	<b>86.8</b>	<b>84.7</b>
BG	0.00	0.75	0.64	0.38	0.30	0.30
HR			3.60	0.90	1.29	1.60
RO	1.84	5.19	5.06	1.39	1.80	1.80
TR	1.30	13.80		41.32	33.90	
IS	-	-	-	-	-	-
NO	-	-	2.06	3.49	3.70	3.60
CH	1.20	1.10	1.20	0.22	0.20	0.20

**Source :** European Conference of Ministers of Transport, Eurostat, national sources

**Notes :** Only pipelines longer than 40km are included

**DE:** includes D-E : 1970=2.2, 1980=5.0, 1990=3.3

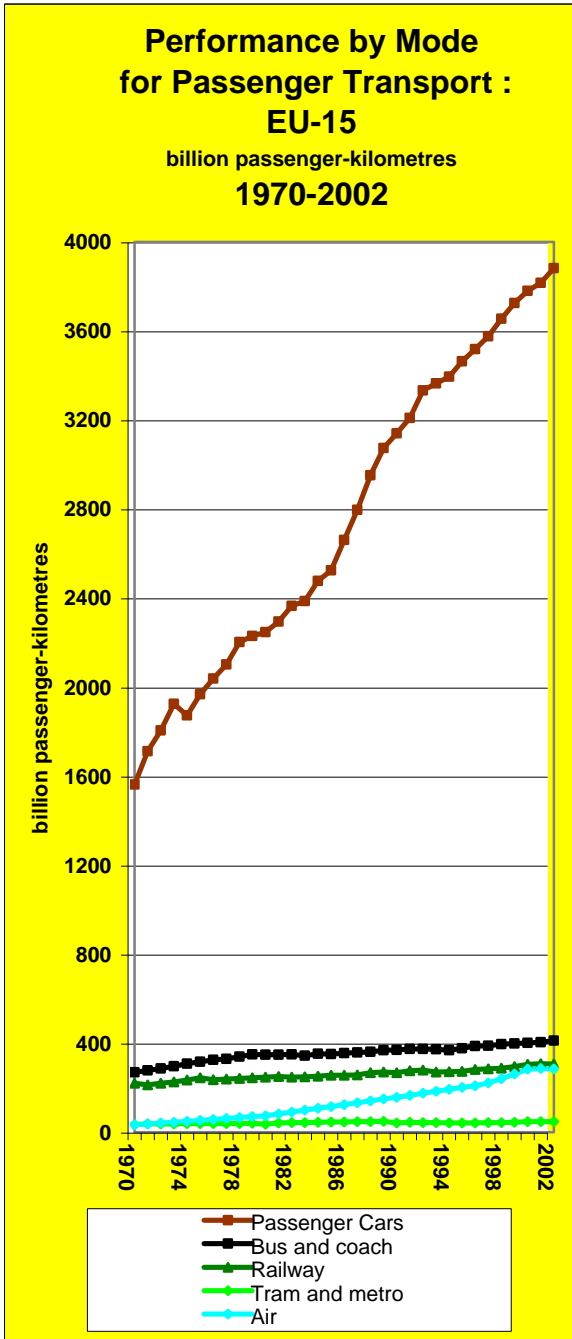
**CS:** 1970: 6.4, 1980: 9.8, 1989: 8.5, 1990: 7.5, 1991: 6.2, 1992: 5.3

United Kingdom : data refer to Great Britain only

# **Part 3 : TRANSPORT**

## **Chapter 3.3 :**

### **Performance of Passenger Transport expressed in passenger-kilometres**



Source : tables 3.3.7 to 3.3.12

Note: Air transport: domestic flights plus intra-EU-15

## 3.3.2

## 3.3.2

### Performance by Mode for Passenger Transport : EU-15 (5 modes)

1000 mio passenger-kilometres

	Passenger Cars	Bus & Coach	Railway	Tram & Metro	Air	Total
1970	1 562	269	219	34	33	2 118
1980	2 246	348	248	35	74	2 951
1990	3 139	369	268	42	157	3 975
1991	3 210	374	276	44	166	4 069
1995	3 463	377	274	41	202	4 357
1999	3 726	398	295	45	261	4 726
2000	3 780	402	304	47	284	4 817
2001	3 816	405	308	48	286	4 862
2002	3 882	411	307	48	280	4 927
1995-02	+ 12 %	+ 9 %	+ 12 %	+ 15 %	+ 39 %	+ 13 %

## Average annual change (% per year)

	Passenger Cars	Bus & Coach	Railway	Tram & Metro	Air	Total
1970-80	+3.7	+2.6	+1.2	+0.4	+8.4	+3.4
1980-90	+3.4	+0.6	+0.8	+1.6	+7.8	+3.0
1990-00	+1.9	+0.9	+1.3	+1.2	+6.1	+1.9
1995-02	+1.6	+1.2	+1.7	+2.0	+4.8	+1.8
2002	+1.7	+1.6	-0.2	-0.1	-2.2	+1.3

## Modal split (%)

	Passenger Cars	Bus & Coach	Railway	Tram & Metro	Air
1970	73.8	12.7	10.4	1.6	1.6
1980	76.1	11.8	8.4	1.2	2.5
1990	79.0	9.3	6.7	1.0	4.0
1991	78.9	9.2	6.8	1.1	4.1
1995	79.5	8.7	6.3	0.9	4.6
1999	78.8	8.4	6.2	0.9	5.5
2000	78.5	8.3	6.3	1.0	5.9
2001	78.5	8.3	6.3	1.0	5.9
2002	78.8	8.3	6.2	1.0	5.7

Source : tables 3.3.7 to 3.3.12

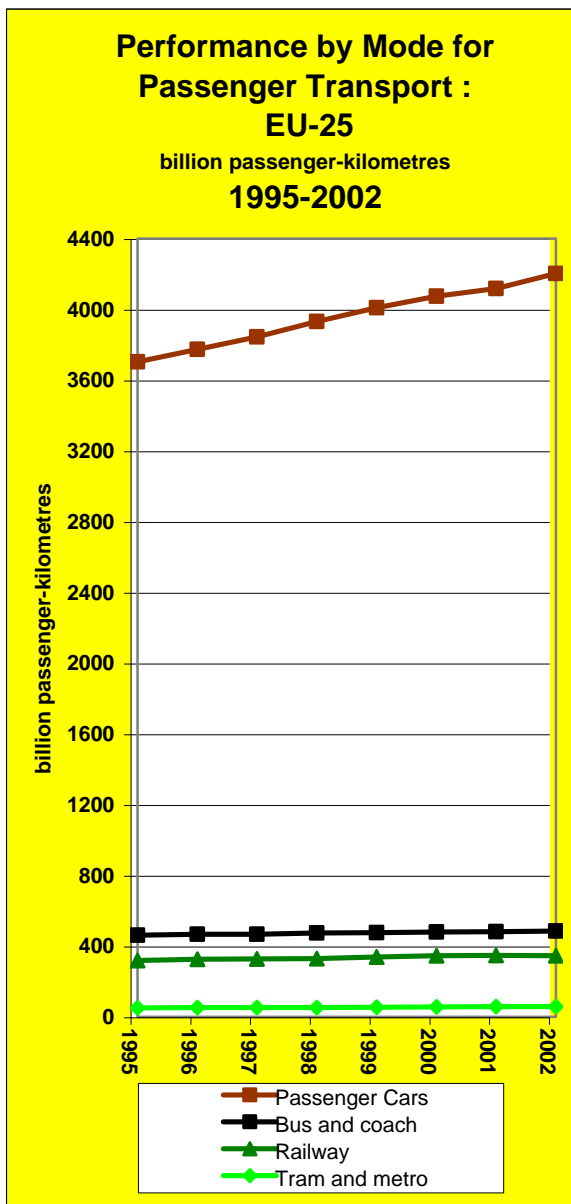
Note: Air transport: domestic flights plus intra-EU15



**Modal Split by Country**  
**for Passenger Transport :**  
**EU-15 (5 modes)**  
**Year 2002**  
passenger-km in %

	Pass - enger Cars	Bus & Coach	Railway	Tram & Metro	Air
<b>BE</b>	79.8	9.9	6.0	0.7	3.6
<b>DK</b>	74.3	11.1	6.8	-	7.8
<b>DE</b>	78.8	8.6	7.8	0.9	3.9
<b>EL</b>	65.9	17.0	1.4	1.0	14.6
<b>ES</b>	71.2	10.6	4.5	1.2	12.5
<b>FR</b>	83.1	4.5	8.2	1.2	3.0
<b>IE</b>	72.8	12.4	3.2	-	11.5
<b>IT</b>	80.2	11.0	5.3	0.6	3.0
<b>LU</b>	74.7	12.8	5.1	-	7.4
<b>NL</b>	81.5	4.1	8.1	0.8	5.5
<b>AT</b>	70.7	13.6	8.4	2.8	4.5
<b>PT</b>	79.7	8.3	3.1	0.5	8.3
<b>FI</b>	77.7	10.3	4.4	0.7	7.0
<b>SE</b>	74.0	8.0	7.2	1.8	9.1
<b>UK</b>	80.9	5.9	5.1	1.1	7.1
<b>EU15</b>	<b>78.8</b>	<b>8.3</b>	<b>6.2</b>	<b>1.0</b>	<b>5.7</b>

Source : tables 3.3.7 to 3.3.12



Source : tables 3.3.7 to 3.3.12

Notes:

**Passenger Cars: HU, CZ, LT, PL, SK** : "Passenger Cars" refers to Passenger Cars plus Powered Two-wheelers

**Passenger Cars:** No EE, CY, LV, LT, MT

**Bus & coach:** No CY, MT

**Tram & Metro:** No EE, PL

## 3.3.5

## 3.3.5

**Performance by Mode for Passenger  
Transport :  
EU-25 (4 modes)**

1000 mio passenger-kilometres

	Pass - enger Cars	Bus & Coach	Railway	Tram & Metro	Total
1995	3 703	462	319	51	4 534
1996	3 774	467	325	52	4 618
1997	3 844	467	327	52	4 690
1998	3 932	474	329	53	4 788
1999	4 009	476	339	55	4 878
2000	4 074	480	346	56	4 957
2001	4 118	483	348	57	5 005
2002	4 203	486	346	57	5 092
1995-02 per year	+ 14 % +1.8	+ 5 % +0.7	+ 9 % +1.2	+ 13 % +1.7	+ 12 % +1.7

**Modal split**

%

	Pass - enger Cars	Bus & Coach	Railway	Tram & Metro
1995	81.7	10.2	7.0	1.1
1996	81.7	10.1	7.0	1.1
1997	81.9	10.0	7.0	1.1
1998	82.1	9.9	6.9	1.1
1999	82.2	9.8	6.9	1.1
2000	82.2	9.7	7.0	1.1
2001	82.3	9.6	7.0	1.1
2002	82.5	9.5	6.8	1.1

Source : tables 3.3.7 to 3.3.12

**Notes:**

**Passenger Cars:** HU, CZ, LT, PL, SK : "Passenger Cars"  
refers to Passenger Cars plus Powered Two-wheelers

**Passenger Cars:** No EE, CY, LV, LT, MT

**Bus & coach:** No CY, MT

**Tram & Metro:** No EE, PL

**Modal Split by Country  
for Passenger Transport :**

**EU-25 (4 modes)**

**Year 2002**

passenger-km in %

	<b>Passenger Cars</b>	<b>Buses and Coaches</b>	<b>Railways</b>	<b>Tram &amp; Metro</b>
<b>BE</b>	82.8	10.3	6.2	0.7
<b>CZ</b>	72.6	10.8	7.3	9.3
<b>DK</b>	80.5	12.1	7.4	-
<b>DE</b>	82.0	8.9	8.1	1.0
<b>EE</b>				
<b>EL</b>	77.2	19.9	1.6	1.2
<b>ES</b>	81.4	12.1	5.1	1.3
<b>FR</b>	85.6	4.7	8.5	1.2
<b>IE</b>	82.3	14.0	3.6	-
<b>IT</b>	82.6	11.3	5.4	0.6
<b>CY</b>			-	-
<b>LV</b>	62.5	24.0	7.6	6.0
<b>LT</b>				-
<b>LU</b>	80.7	13.8	5.5	-
<b>HU</b>	61.2	24.3	13.7	0.8
<b>MT</b>			-	-
<b>NL</b>	86.3	4.3	8.5	0.9
<b>AT</b>	74.0	14.2	8.8	2.9
<b>PL</b>	78.2	13.7	8.1	
<b>PT</b>	87.0	9.1	3.4	0.6
<b>SI</b>	80.0	13.8	6.2	-
<b>SK</b>	69.0	22.8	7.4	0.8
<b>FI</b>	83.5	11.0	4.7	0.8
<b>SE</b>	81.4	8.8	7.9	1.9
<b>UK</b>	87.1	6.3	5.5	1.1
<b>EU25</b>	<b>82.5</b>	<b>9.5</b>	<b>6.8</b>	<b>1.1</b>
<b>EU15</b>	<b>83.5</b>	<b>8.8</b>	<b>6.6</b>	<b>1.0</b>

**Source :** tables 3.3.7 to 3.3.12

**Note:** **HU, CZ, LT, PL, SK** : "Passenger Cars" refers to Passenger Cars plus Powered Two-wheelers

## Passenger Cars

1000 mio pkm

	1970	1980	1990	2000	2001	2002
<b>BE</b>	41.13	64.58	89.23	106.27	108.00	109.42
<b>CZ</b>				63.92	63.41	65.22
<b>DK</b>	33.30	38.10	47.80	59.12	58.59	59.88
<b>DE</b>	394.60	513.70	683.10	714.50	704.90	700.76
<b>EE</b>						
<b>EL</b>	8.60	27.65	48.78	77.06	81.60	86.58
<b>ES</b>	64.30	130.90	174.40	300.90	306.15	335.87
<b>FR</b>	304.70	452.50	585.60	699.60	727.60	740.60
<b>IE</b>	11.00	17.60	18.10	33.33	34.93	37.22
<b>IT</b>	211.93	324.03	522.59	726.53	717.68	711.73
<b>CY</b>						
<b>LV</b>						6.15
<b>LT</b>						
<b>LU</b>	2.10	2.70	4.00	5.08	5.18	5.25
<b>HU</b>			47.00	46.59	46.59	47.10
<b>MT</b>						
<b>NL</b>	67.10	108.10	137.30	141.10	141.60	144.20
<b>AT</b>	32.90	47.80	62.40	69.23	69.50	69.75
<b>PL</b>				149.70	157.70	167.40
<b>PT</b>	13.80	29.00	40.50	86.50	89.35	94.70
<b>SI</b>			6.90	10.03	10.08	9.68
<b>SK</b>				23.93	24.06	24.98
<b>FI</b>	23.70	34.80	51.20	55.70	57.00	58.30
<b>SE</b>	56.10	66.70	86.40	91.10	91.60	93.80
<b>UK</b>	297.00	388.00	588.00	614.00	622.00	634.00
<b>EU25</b>						
<b>EU15</b>	1562.3	2246.2	3139.4	3780.0	3815.7	3882.1
<b>BG</b>			4.55			
<b>TR</b>			34.33			
<b>IS</b>				3.77	3.80	3.85
<b>NO</b>			42.47	46.83	47.93	49.25
<b>CH</b>	41.84	61.82	73.27	82.32	84.26	

**Source :** European Conference of Ministers of Transport, Eurostat, national statistics

**Notes :**

**ES :** revised series from 1991 (Ministerio de Fomento)

**HU, CZ, LT, PL, SK :** data include motorcycles

**DE :** incl.DE-E: 1970=24.5, 1980=56.0, 1990=90.3

United Kingdom : data refer to Great Britain only

### Powered Two-wheelers

1000 mio pkm

	1970	1980	1990	2000	2001	2002
<b>BE</b>	1.08	1.26	1.21	1.03	1.03	1.05
<b>CZ</b>						
<b>DK</b>	0.70	0.60	0.40	0.71	0.74	0.78
<b>DE</b>	19.80	19.60	15.30	16.70	17.60	17.90
<b>EE</b>						
<b>EL</b>	1.00	2.10	6.60	19.20	20.74	22.40
<b>ES</b>	9.30	11.55	12.40	14.34	14.48	14.62
<b>FR</b>	20.00	17.40	14.20	12.30	12.30	12.30
<b>IE</b>	0.19	0.23	0.25	0.37	0.38	0.39
<b>IT</b>	45.00	55.00	60.12	66.93	68.35	69.80
<b>CY</b>						
<b>LV</b>						
<b>LT</b>						
<b>LU</b>	0.02	0.03	0.03	0.06	0.06	0.06
<b>HU</b>						
<b>MT</b>						
<b>NL</b>			1.30	1.00	0.90	0.90
<b>AT</b>	1.81	1.45	1.53	1.62	1.63	1.64
<b>PL</b>						
<b>PT</b>	5.10	5.20	5.80	7.04	7.49	7.97
<b>SI</b>						
<b>SK</b>						
<b>FI</b>	0.80	0.80	0.80	0.90	0.90	0.90
<b>SE</b>	0.80	1.00	0.50	0.80	0.90	1.00
<b>UK</b>	4.20	8.06	5.85	5.00	5.00	5.00
<b>EU25</b>						
<b>EU15</b>			126.3	148.0	152.5	156.7
<b>NO</b>			0.71	1.07		
<b>CH</b>	2.90	3.35	2.20	2.44	2.52	

Source : national statistics, studies

**HU, CZ, LT, PL, SK** : data are included in the "Passenger Cars" pkm data

**NL** : series revised

**DE** : includes DE-E : 1970=8.29, 1975=8.52, 1980=8.14, 1985=7.47, 1990=6.30

United Kingdom : data refer to Great Britain only

## Buses &amp; Coaches

1000 mio pkm

	1970	1980	1990	2000	2001	2002
BE	9.32	9.08	10.85	13.19	13.47	13.64
CZ				9.35	10.61	9.67
DK	4.60	7.30	9.30	9.13	9.03	8.97
DE	67.70	90.00	73.10	69.00	68.70	76.50
EE	2.61	3.66	4.45	2.63	2.46	2.33
EL	9.43	15.62	17.72	21.70	22.02	22.35
ES	20.91	28.10	33.36	50.30	51.70	50.05
FR	25.20	38.00	41.30	43.00	41.30	40.30
IE	3.30	4.50	3.86	6.11	6.26	6.35
IT	32.00	57.84	83.96	94.00	95.80	97.50
CY				0.57	0.57	0.57
LV	3.28	4.55	5.86	2.35	2.31	2.36
LT			7.89	2.16	2.12	2.00
LU	0.80	0.80	0.90	0.90	0.90	0.90
HU			19.26	18.73	18.62	18.69
MT				0.10	0.10	0.10
NL	9.50	11.20	13.00	7.50	7.60	7.20
AT	9.10	9.80	8.70	13.10	13.24	13.40
PL	29.14	49.22	46.30	31.74	31.00	29.30
PT	4.36	7.60	10.30	11.83	11.20	9.90
SI			7.40	2.24	2.00	1.67
SK				8.44	8.25	8.24
FI	7.50	8.50	8.50	7.70	7.70	7.70
SE	5.50	7.30	8.00	9.30	9.60	10.10
UK	60.20	52.20	46.20	45.00	46.00	46.00
<b>EU25</b>				<b>480.1</b>	<b>482.6</b>	<b>485.8</b>
<b>EU15</b>	<b>269.4</b>	<b>347.8</b>	<b>369.0</b>	<b>401.8</b>	<b>404.5</b>	<b>410.9</b>
BG			25.96	14.59	14.96	16.99
HR	3.30	7.10	7.00	4.55		
RO	8.20	24.90	24.01	7.70	7.07	5.28
TR				87.39	76.80	
IS				0.48	0.48	0.48
NO	3.73	4.26	3.89	4.14	4.11	4.13
CH	1.89	2.49	3.32	3.06	3.08	

Source : Eurostat, European Conference of Ministers of Transport, national statistics, study for Energy and Transport DG

## Notes :

PL, SK : data include only inter-rurban traffic

CH : public transport only

NL : figures include bus/tram/metro

SE : figures revised (Eurostat)

DE : includes D-E: 1970=19.1, 1980=24.4, 1990=16.5

CS : 1970: 21.4, 1980: 33.8, 1990: 43.4, 1991: 43.1, 1992: 35.0

United Kingdom : data refer to Great Britain only

## Tram + Metro

1000 mio pkm

	1970	1980	1990	2000	2001	2002
BE	0.86	0.77	0.74	0.87	0.88	0.90
CZ				8.07	8.23	8.31
DK	-	-	-	-	-	-
DE	9.80	8.50	8.50	8.30	8.50	8.20
EE						
EL	0.63	0.68	0.83	1.19	1.33	1.35
ES	3.67	3.88	4.38	5.23	5.34	5.50
FR	6.50	7.70	9.70	10.10	10.30	10.40
IE	-	-	-	-	-	-
IT	2.21	3.66	4.57	5.38	5.41	5.31
CY	-	-	-	-	-	-
LV				0.60	0.59	0.59
LT	-	-	-	-	-	-
LU	-	-	-	-	-	-
HU				0.60	0.60	0.60
MT	-	-	-	-	-	-
NL	1.24	1.35	1.26	1.43	1.44	1.45
AT	1.50	1.65	2.10	2.76	2.79	2.77
PL						
PT	0.93	0.74	0.67	0.58	0.60	0.60
SI	-	-	-	-	-	-
SK				0.30	0.30	0.30
FI	0.10	0.13	0.35	0.50	0.50	0.55
SE	1.44	1.97	2.01	2.14	2.18	2.22
UK	5.20	4.30	6.50	8.29	8.29	8.27
<b>EU25</b>						
<b>EU15</b>	<b>34.1</b>	<b>35.3</b>	<b>41.6</b>	<b>46.8</b>	<b>47.6</b>	<b>47.5</b>

**Source** : 1970-95: International Union of Public Transport,  
1996-98: national statistics, study for Energy and Transport  
DG

**Note** :

**FR** : Metro and RER (Réseau Express Régional)

United Kingdom : data refer to Great Britain only

**DE** : includes DE-E: 1970=4.83, 1975=5.06,  
1980=5.34, 1985=7.07, 1990=6.50



## Railways

1000 mio pkm

	1970	1980	1990	2000	2002	2003
BE	7.57	6.96	6.54	7.73	8.26	8.26
CZ				7.30	6.60	6.48
DK	3.90	3.80	4.86	5.32	5.49	5.36
DE	62.40	62.50	61.06	74.01	69.29	69.03
EE	1.23	1.55	1.51	0.26	0.18	0.18
EL	1.53	1.46	1.98	1.89	1.84	1.84
ES	14.01	14.83	15.48	20.15	21.14	21.00
FR	40.98	54.26	63.76	69.87	73.52	72.20
IE	0.76	1.03	1.23	1.39	1.63	1.60
IT	32.61	39.59	44.71	47.13	46.78	46.10
CY	-	-	-	-	-	-
LV	3.82	4.77	5.37	0.72	0.74	0.76
LT	2.13	3.26	3.64	0.61	0.50	0.43
LU	0.26	0.25	0.21	0.33	0.36	0.35
HU	15.17	13.71	11.40	9.69	10.53	10.40
MT	-	-	-	-	-	-
NL	8.01	8.91	11.06	14.76	14.29	13.85
AT	6.44	7.59	8.73	8.21	8.30	8.25
PL	36.89	46.33	50.37	19.71	17.31	19.64
PT	3.55	6.08	5.66	3.67	3.68	3.59
SI	1.50	1.44	1.43	0.71	0.75	0.78
SK				2.87	2.68	2.32
FI	2.16	3.22	3.33	3.41	3.31	3.34
SE	4.64	7.00	6.35	8.23	9.10	9.10
UK	30.60	30.40	33.19	38.40	39.90	40.90
<b>EU25</b>	<b>300.6</b>	<b>336.9</b>	<b>361.3</b>	<b>346.4</b>	<b>346.2</b>	<b>345.8</b>
<b>EU15</b>	<b>219.4</b>	<b>247.9</b>	<b>268.1</b>	<b>304.5</b>	<b>306.9</b>	<b>304.8</b>
BG	6.22	7.06	7.79	3.47	2.60	2.52
HR	3.73	3.62	3.43	1.00	1.20	1.16
RO	17.79	23.22	30.58	11.63	8.50	8.51
TR	5.60	6.00	6.40	5.83	5.16	5.89
IS	-	-	-	-	-	-
NO	1.90	2.40	2.01	2.86	2.49	2.40
CH	8.17	9.17	11.05	12.84	12.11	12.26

Source : Union Internationale des Chemins de Fer,  
European Conference of Ministers of Transport, Eurostat,  
national statistics

## Notes :

IS, CY, MT : no passenger railway network

United Kingdom : data refer to Great Britain only

DE : includes DE-E: 1970=17.7, 1980=22.0,  
1990=17.5

CS : 1970: 20.5, 1980: 18.0, 1989: 19.7, 1990:19.4,  
1992: 16.6

**Air Transport**  
**From Country of Origin within EU**  
**Intra-EU plus domestic flights**

1000 million pkm

	EU15					EU25
	1990	1995	2000	2001	2002	2002
<b>BE</b>	2.96	3.86	6.50	6.27	4.94	5.22
<b>CZ</b>						2.16
<b>DK</b>	3.54	4.47	6.30	6.56	6.29	6.81
<b>DE</b>	20.91	28.66	38.30	36.86	35.00	36.56
<b>EE</b>						19.10
<b>EL</b>	11.94	16.07	21.40	21.50	19.23	19.70
<b>ES</b>	30.34	40.07	59.30	61.07	59.00	59.81
<b>FR</b>	18.00	21.18	27.20	25.66	26.54	27.51
<b>IE</b>	1.95	2.80	5.10	5.52	5.90	6.14
<b>IT</b>	14.36	18.14	27.20	27.51	26.20	26.71
<b>CY</b>						6.07
<b>LV</b>						0.16
<b>LT</b>						0.21
<b>LU</b>	0.30	0.38	0.50	0.54	0.52	0.52
<b>HU</b>						1.60
<b>MT</b>						2.00
<b>NL</b>	4.08	5.82	9.59	9.44	9.74	10.48
<b>AT</b>	2.60	3.72	4.60	4.49	4.44	4.69
<b>PL</b>						1.72
<b>PT</b>	5.25	6.82	8.82	9.03	9.88	9.93
<b>SI</b>						0.16
<b>SK</b>						0.10
<b>FI</b>	3.72	3.86	5.70	5.65	5.22	5.57
<b>SE</b>	8.85	9.02	12.60	12.58	11.58	12.02
<b>UK</b>	28.44	36.62	50.50	53.58	55.49	61.98
<b>EU25</b>						<b>308.0</b>
<b>EU15</b>	<b>157.3</b>	<b>201.5</b>	<b>283.6</b>	<b>286.3</b>	<b>279.9</b>	

Source : Eurostat, national statistics

Note : excluding non-EU traffic

# **Part 3 : TRANSPORT**

## **Chapter 3.4 :**

### **Performance of Freight and Passenger Transport Using Other Indicators**

## 3.4.1

## Air traffic between Member States, including domestic flights

## 3.4.1

2002

thousand passengers

Partner	BE	CZ	DK	DE	EE	EL	ES	FR	IE	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	PT	SI	SK	FI	SE	UK	Total of declarer
<b>Declarer</b>																										
<b>BE</b>	1	122	489	1074	0	626	2591	681	129	1579	42	-	0	0	81	57	222	299	109	386	17	0	182	347	1798	<b>10 834</b>
<b>CZ</b>	122	<b>148</b>	142	667	-	393	427	460	86	279	72	64	36	0	121	16	297	132	69	15	14	150	99	77	914	<b>4 802</b>
<b>DK</b>	484	142	<b>1684</b>	1717	116	579	1186	1035	205	571	62	157	140	41	118	34	748	286	358	172	13	0	656	2050	2047	<b>14 601</b>
<b>DE</b>	1060	644	1698	<b>20402</b>	39	4544	15828	4884	539	5471	378	66	116	223	858	377	2240	2814	731	1933	189	8	848	1023	7688	<b>74 601</b>
<b>EE</b>	1	-	117	40	<b>13</b>	3	14	2	0	3	2	10	20	-	0	-	0	24	15	-	0	0	155	95	38	<b>552</b>
<b>EL</b>	626	393	579	<b>4544</b>	3		259	1322	111	1493		-	-	43	195	17	1340	<b>860</b>		5		75	265	867	6246	<b>19 244</b>
<b>ES</b>	2800	450	1226	17442	14	259	<b>29688</b>	5196	2088	4654	3	9	9	301	126	24	4060	730	175	1493	7	15	721	1867	29052	<b>102 409</b>
<b>FR</b>	729	459	1009	5242	2	1322	5097	<b>27921</b>	1121	5578	103	1	12	156	319	169	1902	656	335	1715	61	1	315	913	9679	<b>64 819</b>
<b>IE</b>	476	86	205	636	0	111	2050	1110	<b>659</b>	381	85	0	-	8	51	39	517	72	0	296	5	0	59	61	9606	<b>16 513</b>
<b>IT</b>	1771	279	549	5385	2	1493	4530	5463	374	<b>22527</b>	59	1	0	107	170	326	1703	629	210	558	3	2	173	287	6443	<b>53 044</b>
<b>CY</b>	42	72	62	378	2		3	103	85	59		-	-	3	50	11	133	<b>88</b>		0	-	9	81	189	2683	<b>4 051</b>
<b>LV</b>	-	<b>64</b>	157	66	10	-	9	1	0	1	-			0	-	0	-	16		-	-	-	69	54		<b>447</b>
<b>LT</b>	0	36	140	116	20	-	9	12	-	0	-			-	0	-	52	24		-	-	0	45	12	0	<b>467</b>
<b>LU</b>	1	0	41	243	-	43	295	168	0	104	3	0	-		-	3	70	40		98	-	0	-	19	195	<b>1 324</b>
<b>HU</b>	80	118	118	847	0	195	126	345	51	170	50	-	0	0		13	307	119	82	1	0	0	134	52	359	<b>3 168</b>
<b>MT</b>	57	15	33	384	-	17	25	170	39	333	11	0	-	3	13	<b>47</b>	96	51	6	6	5	0	3	17	1018	<b>2 348</b>
<b>NL</b>	262	296	750	2236	0	1340	3797	1852	521	1757	133	-	52	70	309	97	<b>204</b>	500	229	864	13	0	332	779	7434	<b>23 826</b>
<b>AT</b>	296	132	286	2833	24	860	726	625	73	655	88	16	24	52	115	51	505	<b>530</b>	171	42	45	9	109	211	1435	<b>9 911</b>
<b>PL</b>	109	69	<b>358</b>	731	15		175	335	0	210					82	6	229	171		15		2	92	78	467	<b>3 146</b>
<b>PT</b>	387	15	157	1978	-	5	1469	1724	293	632	0	-	-	98	2	6	933	42	15	<b>2930</b>	0	0	83	173	3947	<b>14 890</b>
<b>SI</b>	17	14	13	189	0		7	61	5	3	-	-	-	-	0	5	13	45		0	0	0	0	0	48	<b>420</b>
<b>SK</b>	0	160	0	3	0	75	17	1	0	3	9	-	0	0	0	0	0	7	2	0	0	<b>32</b>	-	2	2	<b>314</b>
<b>FI</b>	177	98	654	844	156	265	698	323	60	178	81	69	45	0	133	2	330	104	92	78	0	-	<b>2766</b>	1199	599	<b>8 952</b>
<b>SE</b>	354	78	1867	1024	96	867	1878	871	66	305	189	54	12	19	53	16	779	212	78	149	0	2	1277	<b>7445</b>	1509	<b>19 200</b>
<b>UK</b>	2343	918	2078	8691	38	6246	28952	9944	9814	7654	2683		0	184	360	1025	7804	1443	467	3967	48	2	659	1976	<b>22617</b>	<b>119 912</b>

Source: Eurostat

Note: figures in italics refer to figures from the partner countries. Domestic traffic is not available for these countries.

## 3.4.2

## 3.4.2

### Air : Number of Passengers Travelling by Air Within the Same Country

thousand

	2000	2001	2002	2002 / 2001 (%)
BE	8	3	1	-58.1%
CZ			148	
DK		1 800	1 684	-6.5%
DE	22 076	20 920	20 402	-2.5%
EE			13	
EL	6 111			
ES	28 884	29 688	29 025	-2.2%
FR	30 814	28 556	27 931	-2.2%
IE	667	674	658	-2.4%
IT	22 935	22 487	22 587	0.4%
CY	-	-	-	
LV	-	-	-	
LT	-	-	-	
LU	-	-	-	
HU	-	-	-	
MT			47	
NL	211	186	204	9.8%
AT	545	559	529	-5.3%
PL	519	670	727	8.5%
PT	2 822	2 937	2 984	1.6%
SI	-	-	-	
SK			32	
FI	3 122	3 058	2 766	-9.6%
SE	8 043	8 086	7 448	-7.9%
UK	19 501	20 789	22 617	8.8%

Source : Eurostat

Note: only the top 50 airports declaring

## 3.4.3

## 3.4.3

### Air : Main EU Town-to-Town Routes in the EU

Inter-city pairs	Number of Passengers		cha - nge 02/01 %
	2001	2002	
	thousand		
London - Dublin	4 204	4 390	4.4
Madrid - Barcelona	3 971	3 997	0.7
London - Amsterdam	3 524	3 615	2.6
Milan - Rome	3 320	3 058	-7.9
London - Paris	2 700	2 899	7.3
Toulouse - Paris	2 286	2 345	2.6
Nice - Paris	2 324	2 257	-2.9
Paris - Marseille	1 890	2 146	13.5
London - Malaga	1 854	2 081	12.3
London - Frankfurt	2 083	2 045	-1.8
London - Barcelona	1 516	1 696	11.9
London - Milan	1 606	1 655	3.0
London - Madrid	1 644	1 653	0.5
Paris - Madrid	1 771	1 634	-7.8
London - Rome	1 685	1 624	-3.6
Frankfurt - Berlin	1 594	1 620	1.6
London - Edinburgh	1 579	1 604	1.6
London - Palma de M.	1 446	1 469	1.6
Munich - Berlin	1 407	1 461	3.8
Barcelona - Palma de M.	1 462	1 459	-0.2
London - Glasgow	1 390	1 449	4.2
Madrid - Palma de M.	1 464	1 415	-3.3
Frankfurt - Munich	1 467	1 375	-6.3
Paris - Rome	1 259	1 349	7.2
Frankfurt - Hamburg	1 402	1 348	-3.9
Dusseldorf - Munich	1 332	1 323	-0.7
London - Manchester	1 285	1 307	1.7
Hamburg - Munich	1 267	1 295	2.2
Madrid - Gran Canaria	1 242	1 272	2.5
London - Alicante	1 069	1 271	18.9
London - Copenhagen	1 214	1 242	2.3
London - Brussels	1 210	1 225	1.3
London - Nice	1 158	1 216	5.0
London - Munich	1 328	1 204	-9.3
Stockholm - Copenhagen	1 199	1 178	-1.7
Madrid - Malaga	1 186	1 154	-2.7
Paris - Milan	1 128	1 142	1.2

Source : Eurostat

Note : Based on departure declarations, so the figures refer to passengers departing from each of the pair of cities for the other.

## Air : Traffic at Selected Major Airports

**Passengers arriving and departing and in transit (counted once)**

million passengers

Airport		1990	2002	2003	change 03/02 %
London Heathrow	UK	43.0	63.4	63.2	-0.2
Frankfurt Rhein-Main	DE	29.4	48.5	48.0	-0.9
Paris Ch. de Gaulle	FR	22.5	48.4	48.0	-0.7
Amsterdam Schiphol	NL	16.5	40.7	39.8	-2.3
Madrid Barajas	ES	16.2	33.9	35.4	+4.3
London Gatwick	UK	21.2	29.6	29.9	+0.9
Rome Fiumicino	IT	17.7	25.3	25.1	-1.1
Munich	DE	11.4	23.2	24.0	+3.4
Barcelona	ES	9.0	21.3	22.5	+5.4
Paris Orly	FR	24.3	23.2	22.5	-3.1
Manchester	UK	10.1	19.0	19.5	+2.6
Palma de Mallorca	ES	11.3	17.8	19.1	+7.2
London Stansted	UK	-	16.1	18.7	+16.6
Copenhagen Kastrup	DK	12.1	18.2	17.7	-2.9
Milan Malpensa	IT	-	17.4	17.5	+0.2
Zurich	CH		17.9	17.0	-5.4
Dublin	IE	5.5	15.1	15.9	+5.5
Stockholm Arlanda	SE	14.0	16.5	15.3	-7.5
Brussels National	BE	7.1	14.4	15.1	+4.7
Dusseldorf	DE	11.9	14.7	14.1	-4.2
Istanbul	TR		13.4	13.8	+3.6
Oslo Gardermoen	NO		13.4	13.6	+1.5
Vienna	AT	5.5	12.0	12.7	+6.1
Athens E.V.	EL	-	11.8	12.2	+3.4
Malaga	ES		10.4	11.4	+9.5
Berlin Tegel	DE		9.9	11.0	+11.6
Helsinki	FI		9.6	9.7	+1.1
Lisbon	PT		9.4	9.5	+1.4
Hamburg	DE		10.2	9.4	-7.8
Geneva	CH		7.5	8.0	+6.2
Prague	CZ		6.3	7.5	+18.1
Warsaw	PL		4.9	5.2	+4.7
Budapest	HU		4.5	5.0	+11.8
Larnaca	CY		5.0	4.8	-3.7
Ankara	TR		2.9	2.8	-1.5
Luqa	MT		2.7	2.7	+0.3
Bucharest Otopeni	RO		2.2	2.3	+9.2
Luxembourg	LU	1.1	1.5	1.5	-3.7
Keflavik	IS		1.2	1.4	+12.2
Sofia	BG		1.2	1.4	+11.8
Ljubljana	SI		0.9	0.9	+6.4
Vilnius	LT		0.6	0.7	+13.4
Tallinn	EE		0.6	0.7	+18.0
Riga	LV		0.6	0.7	+12.3
Bratislava	SK		0.4	0.5	+33.0

Source: Airports Council International, International Civil Aviation Organisation, Aéroports Magazine, airport authorities

**Air : Major Airports :**  
**Total Movements of Aircraft**  
 (take-off + landing)

thousand

Airport, Country	1998	2002	2003	change 03/02 %
Paris Ch. de Gaulle <i>FR</i>	429.7	510.1	515.0	+1.0
London Heathrow <i>UK</i>	451.5	466.5	463.5	-0.7
Frankfurt Rhein/Main <i>DE</i>	416.2	458.4	458.9	+0.1
Amsterdam Schiphol <i>NL</i>	392.8	417.1	408.3	-2.1
Madrid Barajas <i>ES</i>	269.3	368.1	383.8	+4.3
Munich <i>DE</i>	278.5	344.4	335.6	-2.6
Rome Fiumicino <i>IT</i>	258.2	282.8	300.8	+6.4
Barcelona <i>ES</i>	217.5	271.0	282.0	+4.1
Zurich* <i>CH</i>	306.2	282.2	269.4	-4.5
Copenhagen Karstrup <i>DK</i>	280.8	266.9	259.0	-3.0
Bruxelles <i>BE</i>	300.0	256.9	252.2	-1.8
London Gatwick <i>UK</i>	251.3	242.4	242.7	+0.1
Stockholm Arlanda <i>SE</i>	267.6	245.7	231.5	-5.8
Milan Malpensa <i>IT</i>	76.9	236.4	216.9	-8.2
Vienna Schwechat <i>AT</i>	188.7	206.3	216.6	+5.0
Manchester <i>UK</i>	180.3	192.5	207.1	+7.6
Paris Orly <i>FR</i>	246.2	211.1	206.8	-2.0
London Stansted <i>UK</i>	126.6	170.5	186.5	+9.3
Dusseldorf <i>DE</i>	187.7	190.3	186.2	-2.2
Oslo* <i>NO</i>	220.6	180.4	184.1	+2.1
Nice <i>FR</i>	204.1	188.5	181.3	-3.8
Dublin <i>IE</i>	162.1	181.9	177.8	-2.3
Athens E.V. <i>EL</i>	-	159.5	170.1	+6.7
Palma De Mallorca <i>ES</i>	154.3	160.2	169.0	+5.5
Geneva* <i>CH</i>	159.3	164.2	163.7	-0.3
Istanbul* <i>TR</i>	177.3	160.4	161.8	+0.9
Helsinki Vantaa <i>FI</i>	166.3	157.7	161.5	+2.4
Cologne / Bonn <i>DE</i>	143.0	138.9	153.4	+10.4
Stuttgart <i>DE</i>	145.6	144.2	149.5	+3.7
Hamburg <i>DE</i>	152.0	150.3	149.4	-0.6
<b>Total of top 30 above</b>	<b>6810.6</b>	<b>7405.6</b>	<b>7444.5</b>	<b>+0.5</b>
Berlin Tegel <i>DE</i>	120.2	127.5	140.9	+10.6
Lisbon <i>PT</i>	99.5	115.7	117.7	+1.7
Prague* <i>CZ</i>	89.6	103.9	115.8	+11.4
Lyon St Exupery* <i>FR</i>	121.9	118.6	114.3	-3.6
Warsaw* <i>PL</i>	83.1	108.8	112.4	+3.3
Luxembourg <i>LU</i>	77.9	82.5	91.7	+11.2

Source : airport authorities

Note: \*: 1999 instead of 1998



### Air : Major Airports : Cargo and Mail loaded and unloaded

1000 tonnes

Airport, Country		1995	2000	2002	2003	change 03/02 %
Paris Ch. de Gaulle	FR	824	1610	1626	1724	+6.0
Frankfurt Rhein/Main	DE	1297	1710	1631	1650	+1.2
Amsterdam Schiphol	NL	978	1267	1289	1354	+5.1
London Heathrow	UK	1043	1402	1311	1300	-0.8
Luxembourg	LU	286	501	550	657	+19.5
Brussels National	BE	427	687	510	586	+15.0
Cologne/Bonn	DE	276	442	509	531	+4.3
Liege	BE	8	270	329	374	+13.8
Madrid Barajas	ES	230	338	331	340	+2.9
Copenhagen	DK	310	419	374	336	-10.2
Milan Malpensa	IT	126	301	294	320	+8.7
Zurich	CH		417	333	305	-8.5
East Midlands	UK	83	194	234	251	+7.3
London Gatwick	UK	232	338	252	234	-7.0
Istanbul	TR		234	215	231	+7.5
London Stansted	UK	93	183	193	207	+7.0
Rome Fiumicino	IT	257	201	176	173	-2.0
Munich	DE	65	148	167	163	-2.6
Dublin	IE	60	120	117	134	+14.7
Stockholm Arlanda	SE	104	154	155	131	-15.1
Milan Bergamo	IT		99	115	127	+11.1
Vienna Schwechat	AT	93	135	124	127	+2.3
Manchester	UK	51	122	118	127	+7.6
Athens E.Venizelos	EL	98*		107	110	+2.1
Paris Orly	FR	276	121	125	106	-15.1
Lisbon	PT	89	116	92	96	+3.8
Helsinki	FI	78	96	86	88	+2.0
Barcelona	ES		93	81	76	-5.8
Oslo	NO		78	69	72	+4.0
Budapest	HU		43	46	51	+8.9
Prague	CZ		35	40	46	+17.0
Keflavik	IS		40	44	42	-3.2
Geneva	CH		45	38	42	+10.6
Warsaw	PL		45	45	38	-15.3
Larnaca	CY		33	32	32	-0.3
Basel - Mulhouse	CH		80	31	31	-0.4
Ankara	TR		21	17	19	+12.6

Source : Airports Council International, Aéroports Magazine, national sources

Note: \*: previous Athens airport

## Air : Major Regular European Airlines

## International + Domestic

1000 million pkm

Airline		1980	1990	2000	2002	2003	change 03/02
British Airways	UK	16.1	67.0	119.4	99.1	100.9	+1.7
Air France	FR	25.4	36.8	91.8	98.5	99.1	+0.6
Lufthansa	DE	21.1	42.0	94.3	93.6	96.7	+3.2
KLM	NL	14.1	26.4	60.3	59.2	56.6	-4.4
Iberia	ES	14.9	22.1	40.0	40.5	42.0	+3.7
Alitalia	IT	12.9	23.4	40.8	29.6	31.4	+6.1
Virgin Atlantic	UK	-	-	29.5	27.2	26.9	-0.9
SWISS (Crossair)	CH			3.5	21.8	25.0	+14.8
SAS Scand.	DK/NO/SE	7.5	16.7	22.9	24.2	23.5	-2.9
Austrian Airlines	AT	1.1	2.8	8.8	13.8	18.0	+30.2
Easyjet	UK	-	-	4.7	9.2	17.7	+92.6
Ryanair	IE	-	0.4	5.0	10.9	16.8	+54.6
THY Turkish	TR		5.8	17.4	15.7	16.1	+2.5
Air Berlin	DE			7.8	12.7		
TAP Air Portugal	PT	3.4	6.9	10.4	11.3	12.0	+6.8
Aer Lingus	IE	2.0	4.6	8.9	8.7	10.2	+17.2
Spanair	ES	-		9.7	4.3	9.0	+110.3
Finnair	FI	2.1	9.3	7.5	8.5	8.7	+2.3
Olympic Airways	EL	5.1	7.8	8.9	7.5	6.2	-17.3
LOT Polish Air.	PL		4.2	5.7	5.2	6.2	+19.8
Czech Airlines	CZ		2.3	3.6	3.8	5.1	+32.5
bmi British Mid.	UK		2.0	4.5	4.6	4.6	+0.6
SN Brussels Air.*	BE	-	-	2.3	2.6	4.0	+51.9
Malev Hungarian	HU		1.6	3.6	3.1	3.9	+27.0
Icelandair	IS		1.8	4.1	3.2	3.5	+11.2
Cyprus Airways	CY		2.4	2.8	3.3	3.4	+2.4
Virgin Express	BE	-	-	2.5	2.8	3.3	+16.3
Meridiana	IT	-	-	2.4	2.2	2.6	+16.4
Air Malta	MT		1.8	2.9	2.3	2.6	+10.7
Tarom Romanian	RO			2.2	1.6	1.7	+7.4
Croatia Airlines	HR	-	-	0.6	0.8	1.1	+38.1
Luxair	LU			1.0	0.6	1.0	+77.7
Adria	SI		1.6	0.9	0.7	0.8	+23.5
Swissair**	CH		15.9	36.2	-	-	
Sabena***	BE	4.9	7.6	19.4	-	-	
Balkan Bulg.****	BG		3.8	1.7	-	-	

Source : Association of European Airlines, International Air Transport Association, air companies

Notes: Scheduled and non-scheduled flights

\* until 2002 flying for SABENA under the name Delta Air Transport \*\* ceased activity in March 2002

\*\*\* ceased activity in November 2001

\*\*\*\* ceased activity in March 2001

3.4.8

3.4.8

### Sea : Passengers Embarked and Disembarked in All Sea Ports by Country

thousand

	1997		2001		2002	
	in-wards	out-wards	in-wards	out-wards	in-wards	out-wards
BE	0.93	1.02	0.69	0.69	0.55	0.58
CZ	-	-	-	-	-	-
DK	37.90	38.03	23.99	23.87	24.09	24.09
DE			15.99	15.83	16.75	16.47
EE			3.40	2.50		
EL	16.17	16.09	25.12	25.01	50.64	50.55
ES	6.95	6.99	9.84	8.78	10.13	8.81
FR	16.58	16.55	13.89	13.84	14.56	14.54
IE	2.21	2.17	1.94	1.96	1.94	1.96
IT	40.13	40.06	43.44	43.44	41.39	41.31
CY			0.20	0.20		
LV						
LT			0.50	0.50		
LU	-	-	-	-	-	-
HU	-	-	-	-	-	-
MT			0.90	0.90		
NL	0.97	0.99	1.02	1.02	1.10	1.10
AT	-	-	-	-	-	-
PL			2.20	2.20		
PT			0.27	0.27	0.25	0.25
SI						
SK	-	-	-	-	-	-
FI	7.62	7.57	8.41	8.32	8.34	8.24
SE	20.58	20.37	16.20	16.15	16.16	15.95
UK	18.10	18.18	17.23	17.29	17.84	17.79
<b>EU25</b>						
<b>EU15</b>			<b>178.01</b>	<b>176.47</b>	<b>203.73</b>	<b>201.63</b>

Source : Eurostat

Note : CY: cruise passengers only

## Sea Port Traffic ( Major Seaports )

million tonnes loaded / unloaded

Port, Country		1980	1990	2001	2002	change 02/01 %
Rotterdam	NL	276.0	288.0	313.7	320.9	+2.3
Antwerp	BE	82.0	102.0	130.1	131.6	+1.2
Hamburg	DE	63.0	61.0	92.7	98.3	+6.0
Marseille	FR	103.0	90.0	92.4	92.3	-0.1
Le Havre	FR	77.0	54.0	69.0	68.0	-1.5
Amsterdam	NL	34.0	47.0	68.4	70.4	+3.0
Grimsby & Imm.	UK		59.7	51.4	52.2	+1.6
London	UK	48.0	58.0	50.7	51.2	+1.0
Genoa	IT	51.0	44.0	50.2	51.7	+3.1
Tees & Hartlep.	UK	38.0	40.0	49.7	50.4	+1.4
Trieste	IT	38.0	34.0	49.1	47.2	-4.0
Algeciras	ES	22.0	25.0	49.0	51.3	+4.5
Bremen/B'haven	DE	25.0	28.0	46.0	46.5	+1.1
Dunkirk	FR	41.0	37.0	44.5	47.6	+7.1
Forth ports	UK	29.0	25.4	41.6	42.0	+1.0
Wilhelmshaven	DE	32.0	16.0	40.9	38.8	-5.2
Ventspils	LV			37.9	28.7	-24.3
Southampton	UK	25.0	29.0	35.7	34.2	-4.3
Constantza	RO			33.8	40.5	+19.9
Milford Haven	UK	39.0	32.0	33.8	34.5	+2.2
Gothenburg	SE	22.0	26.0	33.5	33.4	-0.4
St. Nazaire	FR		24.9	33.1	35.7	+8.1
Calais	FR			32.7	34.4	+5.0
Zeebrugge	BE	12.0	30.0	32.1	32.9	+2.7
Tallinn	EE			32.1	37.5	+17.0
Barcelona	ES		18.0	31.5	32.6	+3.6
Felixstowe	UK		16.1	30.5	25.1	-17.6
Liverpool	UK	13.0	23.0	30.5	30.6	+0.2
Valencia	ES			28.4	32.8	+15.2
Tarragona	ES	19.8	24.2	26.7	29.5	+10.8
Bilbao	ES	21.0	25.0	26.7	25.6	-3.9
Dublin	IE	7.0	8.0	21.9	22.2	+1.6
Gdansk	PL			17.8	17.4	-2.6
Klaipeda	LT			17.2	19.7	+14.5
Pireas	EL		9.9	16.3	18.4	+12.9
Szczecin	PL			16.1	16.0	-1.1

Source : Institute of Shipping Economics and Logistics,  
Bremen

## Sea Container Port Traffic

1000 TEU

Port, Country		1990	2000	2001	2002	change 02/01 %
Rotterdam	NL	3 667	6 268	6 102	6 515	+6.8
Hamburg	DE	1 969	4 248	4 689	5 374	+14.6
Antwerp	BE	1 549	4 082	4 218	4 777	+13.3
Bremen/B'h.	DE	1 198	2 712	2 896	3 032	+4.7
Gioia Tauro	IT	-	2 653	2 488	2 955	+18.7
Felixstowe	UK		2 853	2 800	2 750	-1.8
Algeciras	ES	553	2 009	2 152	2 234	+3.8
Valencia	ES	387	1 308	1 507	1 821	+20.9
Le Havre	FR	858	1 465	1 525	1 720	+12.8
Genoa	IT	310	1 501	1 527	1 531	+0.3
Barcelona	ES	448	1 388	1 411	1 461	+3.6
Piraeus	EL	426	1 161	1 196	1 405	+17.5
Southampton	UK	345	1 061	1 161	1 275	+9.8
La Spezia	IT	450	910	975	975	+0.0
Zeebrugge	BE	342	965	876	959	+9.5
Marseille	FR	482	722	742	811	+9.3
Gothenburg	SE	352	696	698	756	+8.4
Tilbury	UK			513	569	+10.9
Livorno	IT		501	532	547	+2.8
Liverpool	UK	239	540	524	535	+2.1
<b>Sum of 1st 20 ports</b>			<b>38 531</b>	<b>42 003</b>		<b>+9.0</b>
Lisbon	PT	264	389	438	488	+11.2
Helsinki	FI	246	376	438	457	+4.2
Dublin	IE	215	445	435	456	+4.8
Aarhus	DK		404	409	403	-1.5
Hong Kong		5 101	18 098	17 900	19 140	+6.9
Singapore		5 224	17 087	15 520	16 800	+8.2

Source : Containerisation International; Institute of Shipping Economics and Logistics, Bremen

## 3.4.11

## 3.4.11

## Sea : Container Service Maritime Operators

as of October 1, 2004

Carrier	Country	TEU in service
1 AP Moller Group <sup>1</sup>	Denmark	900 509
2 Mediterranean Shipping Co	Sw./Italy	618 025
3 Evergreen Group <sup>2</sup>	Taiwan	437 618
4 P&O Nedlloyd <sup>3</sup>	UK / NL	426 996
5 CMA - CGM <sup>4</sup>	France	373 191
6 APL	Sg./USA	295 321
7 Hanjin Group <sup>5</sup>	S. Korea	284 710
8 NYK <sup>6</sup>	Japan	265 192
9 Cosco Container Lines	China	253 007
10 China Shipping Container Lines	China	236 079
11 OOCL	China	216 527
12 Mitsui Lines (MOL)	Japan	213 195
13 Zim Israel Navigation	Israel	196 420
14 CP Ships <sup>7</sup>	Canada	196 317
15 K Line	Japan	195 750
16 Compania Sud Americana de Vapores <sup>8</sup>	Chile	190 143
17 Hapag-Lloyd	Germany	186 610
18 Yang Ming Marine Transport Corp	Taiwan	168 006
19 Hyundai Merchant Marine	Korea	139 243
20 Hamburg Sud <sup>9</sup>	Germany	131 713
<b>Sum of the above</b>		<b>5 924 572</b>

**Source :** Containerisation International Yearbook

**Notes :**

- 1: includes Maersk Sealand, Portlink, Safmarine
- 2: includes Hatsu and Lloyd Trestino
- 3: includes Farrell Lines, Mercosul Line-Oceanica AGW
- 4: includes ANL and Feeder Associates, Ybarra CGM and MacAndrews
- 5: includes Senator Lines
- 6: includes TSK Lines
- 7: includes of ANZDL, Canmar, Cast, Contship, Italia, Lykes and TMM Lines
- 8: includes Libra, Montemar & Norasia
- 9: includes Alianca, Columbus Line and CAT and Ellermans

### Combined Transport : Traffic by Company

<b>Traffic of UIRR companies</b>					
<b>Consignments* (thousand)</b>					
Company	2000	2002	2003	change 03/02 %	
<b>International traffic</b>					
Kombiverkehr, DE	374.8	378.1	412.0	+9.0	
Hupac, CH	231.1	216.4	244.4	+12.9	
Cemat, IT	149.4	176.5	219.4	+24.3	
Ökombi, AT	148.8	181.1	169.5	-6.4	
Novatrans, FR	77.3	74.7	67.0	-10.2	
Hungarocombi, HU	61.8	66.1	62.8	-5.0	
T.R.W., BE	57.7	64.6	62.7	-2.9	
Bohemiacombi, CZ	59.0	35.8	46.4	+29.7	
Hupac NV, NL	26.4	34.1	36.9	+8.2	
Adria Combi, SI	19.2	31.9	34.3	+7.6	
<b>National traffic</b>					
Cemat, IT	194.3	161.5	171.5	+6.2	
Kombiverkehr, DE	163.3	155.2	171.1	+10.3	
Novatrans, FR	176.1	169.0	152.1	-10.0	
Ökombi, AT	117.1	155.2	146.0	-5.9	
Hupac, CH	16.2	17.7	17.1	-3.2	
*Consignment = equivalent of an average road transport (= 2.3 TEU)					
<b>Tonne-kilometres (billion)</b>			<b>Traffic % of consignments</b>		
Year	of which: national		Semi- trailers	Rolling road	Swap bodies
1990	19.0	7.0	20.0%	18.0%	62.0%
2000	32.5	8.2	9.0%	23.0%	68.0%
2002	33.1	8.0	7.7%	23.4%	68.9%
2003	34.0	7.7	7.4%	22.3%	70.3%
<b>Traffic of Intercontainer-Interfrigo</b>					
<b>1000 TEU</b>					
Type of transport	2000	2002	2003	change 03/02 %	
<b>Combined transport</b>	961.7	758.6	734.1	-3.2	

**Source:** International Union of Road-Rail Transport  
Intercontainer

**Note :** TEU : twenty foot equivalent unit (corresponds to 10-12 tonnes)

## Rail

## High Speed Rail Transport

1000 mio pkm

	BE	DE	ES	FR	IT	NL	FI	SE	UK	EU15
1990	-	-	-	14.9	0.3	-	-	0.0	-	15.2
1991	-	2.0	-	17.9	0.4	-	-	0.1	-	20.4
1992	-	5.2	0.4	19.0	0.4	-	-	0.2	-	25.2
1993	-	7.0	0.9	18.9	0.5	-	-	0.3	-	27.6
1994	-	8.2	0.9	20.5	0.8	-	-	0.3	-	30.7
1995	-	8.7	1.2	21.4	1.1	-	-	0.4	-	32.8
1996	0.3	8.9	1.1	24.8	1.3	0.0	0.0	1.1	-	37.5
1997	0.6	10.1	1.3	27.6	2.4	0.1	0.1	1.3	-	43.4
1998	0.8	10.2	1.5	30.6	3.6	0.1	0.1	1.6	-	48.5
1999	0.8	11.6	1.7	32.2	4.5	0.1	0.1	1.8	-	52.7
2000	0.9	13.9	2.2	34.7	5.1	0.1	0.1	2.0	-	59.1
2001	0.9	15.5	2.4	37.4	6.8	0.2	0.1	2.2	-	65.5
2002	0.9	15.3	2.5	39.9	7.1	0.2	0.1	2.3	-	68.2
2003	0.9	17.5	2.5	39.6	7.4	0.2	0.1	2.3	-	70.5

Source : Union Internationale des Chemins de Fer

## Channel Tunnel

(United Kingdom - France)

	Shuttle			Through-train	
	Number of vehicles		Number of pass - engers	Pass - enger	Freight
	Pass - enger	Freight			
	1000	1000	1000	1000	1000 tonnes
1995	1 246	391	4 161	2 920	1 411
1996	2 135	519	7 933	4 866	2 361
1997	2 383	268	8 609	6 004	2 925
1998	3 448	705	12 189	6 307	3 141
1999	3 342	839	10 831	6 593	2 865
2000	2 864	1 133	9 280	7 130	2 947
2001	2 605	1 198	9 366	6 947	2 447
2002	2 408	1 231	8 649	6 603	1 464
2003	2 361	1 285	8 384	6 315	1 744

Source : UK Department for Transport, Local Government and the Regions; Eurotunnel

Note : the Channel Tunnel opened in 1994



## 3.4.14

## 3.4.14

**Traffic through the Alps**

( Alpine Arc : Mt. Cenis / Fréjus to Brenner )

**Rail**

million tonnes

	<u>Switzerland</u>		<u>Austria</u>	<u>France</u>	<b>Total</b>
	St. Gotthard	Simplon/ Lötsch- berg	Brenner	Mont- Cenis	
<b>1985</b>	11.2	2.8	4.7	7.5	<b>26.2</b>
<b>1990</b>	13.6	4.3	5.5	7.2	<b>30.6</b>
<b>1995</b>	13.6	4.4	8.4	8.0	<b>34.4</b>
<b>2000</b>	16.8	3.8	8.7	9.4	<b>38.7</b>
<b>2001</b>	15.8	4.8	10.7	8.6	<b>39.9</b>
<b>2002</b>	14.2	4.8	10.5	8.6	<b>38.1</b>
<b>2003</b>	14.3	5.6	10.7	7.8	<b>38.4</b>
<b>average annual growth (%)</b>					
<b>85-90</b>	4.0 %	9.0 %	3.2 %	-0.8 %	<b>3.2 %</b>
<b>90-02</b>	0.4 %	0.9 %	5.5 %	1.5 %	<b>1.8 %</b>
<b>02-03</b>	0.7 %	16.7 %	1.9 %	-9.3 %	<b>0.8 %</b>

**Road**

million tonnes

	<u>Switzerland</u>		<u>Austria</u>	<u>France</u>	<b>Total</b>
	St. Gotthard	Simplon Gr.St. Bernard St. Bern- ardino	Brenner	Fréjus Mont- Blanc	
<b>1985</b>	1.9	0.8	14.3	12.3	<b>29.3</b>
<b>1990</b>	3.1	1.1	13.6	21.8	<b>39.6</b>
<b>1995</b>	5.5	1.1	20.0	25.8	<b>52.4</b>
<b>2000</b>	7.6	1.3	25.4	25.8	<b>60.1</b>
<b>2001</b>	7.4	3.0	25.0	25.7	<b>61.1</b>
<b>2002</b>	7.5	3.0	25.8	25.4	<b>61.7</b>
<b>2003</b>	9.2	2.4	27.0	25.2	<b>63.8</b>
<b>average annual growth (%)</b>					
<b>85-90</b>	10.3 %	6.6 %	-1.0 %	12.1 %	<b>6.2 %</b>
<b>90-02</b>	7.6 %	8.7 %	5.5 %	1.3 %	<b>3.8 %</b>
<b>02-03</b>	22.7 %	-20.0 %	4.7 %	-0.8 %	<b>3.4 %</b>
<b>Number of heavy goods vehicles (1000)</b>					
<b>1990</b>	548	185	925	1 279	<b>2 937</b>
<b>2000</b>	1 187	217	1 560	1 553	<b>4 517</b>
<b>2001</b>	966	405	1 550	1 549	<b>4 470</b>
<b>2002</b>	858	391	1 600	1 531	<b>4 380</b>
<b>2003</b>	1 004	287	1 650	1 521	<b>4 462</b>

**Source** : Gesamtverkehrsfragen, Switzerland**Note** : internal, import, export and transit traffic

## Pyrenee Crossing Traffic

### Rail goods transport

million tonnes

	West coast Hendaye - Irun	East coast Cerbère / Port Bou	Total
1997	2.0	2.8	4.8
1998	1.9	2.5	4.4
1999	1.6	2.6	4.2
2000	1.8	2.8	4.6
2001	1.8	2.4	4.2
2002	1.7	2.4	4.2

### Road goods traffic

Goods vehicles crossing the French / Spanish  
border per day

	West coast Bariatou (inc. A63)	East coast Le Perthus (inc. A9)	Other crossings	Total
1997	5 657	6 729	880	13 266
1998	6 447	7 413	905	14 765
1999	6 914	8 018	914	15 846
2000	7 604	8 429	2 017	18 050
2001	8 200	8 855	2 128	19 183
2002	7 210	8 436	3 051	18 697

### Road passenger car traffic

vehicles per day

	West coast Bariatou (inc. A63)	East coast Le Perthus (inc. A9)	Other crossings	Total
1997	30 200	19 400	27 800	77 400
1998	30 230	20 601	33 168	83 999
1999	33 188	20 678	33 412	87 278
2000	40 923	24 390	31 962	97 274
2001	41 847	25 201	34 096	101 144
2002	41 812	28 544	37 654	108 010

**Source :** Observatoire des trafics au travers des Pyrénées,  
Ministère de l'Équipement, France; Transporte y  
Comunicaciones, Spain

## USA

### Performance by Mode of Transport : Freight

1000 mio tkm

	Road (1)	Rail (2)	Inland Water- ways	Pipe- lines	Total
1970	602	1 117	343	629	2 691
1980	810	1 342	422	859	3 433
1985	891	1 280	410	824	3 405
1990	1 073	1 510	516	853	3 951
1995	1 345	1 906	534	878	4 663
1998	1 499	2 010	521	905	4 935
1999	1 546	2 093	528	902	5 069
2000	1 568	2 140	526	843	5 077
2001	1 534	2 183	505	841	5 064
1990-01	+ 43.0 %	+ 44.6 %	- 2.2 %	- 1.4 %	+ 28.1 %

Average length of haul (km)

1999	733	1 336	781	880	1 011
------	-----	-------	-----	-----	-------

Source : US Department of Transport, Eurostat

Notes : (1) Intercity truck traffic

(2) Class 1 railways ( ca. 90% of rail freight traffic)

### Average annual change

% per year

	Road	Rail	Inland Water- ways	Pipe- lines	Total
1970-80	+3.0	+1.9	+2.1	+3.2	+2.5
1980-90	+2.8	+1.2	+2.0	-0.1	+1.4
1990-00	+3.9	+3.6	+0.2	-0.1	+2.5
2001	-2.1	+2.0	-4.1	-0.2	-0.3

### Modal split

%

	Road	Rail	Inland Water- ways	Pipe- lines
1970	22.4	41.5	12.8	23.4
1980	23.6	39.1	12.3	25.0
1985	26.2	37.6	12.0	24.2
1990	27.2	38.2	13.1	21.6
1999	30.5	41.3	10.4	17.8
2000	30.9	42.2	10.4	16.6
2001	30.3	43.1	10.0	16.6

## USA

### Performance by Mode of Transport : Passengers

1000 mio pkm

	Passenger Cars *	Railway	Bus & Coach	Tram & Metro	Air	Total
1970	3 181	17	81	18	189	3 486
1980	4 076	18	111	18	353	4 575
1985	4 478	18	153	17	467	5 134
1990	5 280	21	196	19	578	6 094
1995	5 702	22	219	18	667	6 629
1999	6 321	23	261	23	809	7 436
2000	6 457	24	259	24	855	7 619
2001	6 544	24	238	25	808	7 640
1990-2001	24%	15%	22%	29%	40%	25%

Source : US Department of Transport

**Notes :**

\* : Passenger Cars (2001: 4143 billion pkm) and other 2-axle 4-tyre vehicles (2001: 2400 billion pkm)

Air : includes general aviation (2001 : 26 billion pkm)

Motorcycles (not included in above total): 2001 : 16.9 bio pkm

### Average annual change

% per year

	Passenger Cars *	Railway	Bus & Coach	Tram & Metro	Air	Total
1970-1980	+2.5	+0.2	+3.2	+0.1	+6.4	+2.8
1980-1990	+2.6	+1.8	+5.9	+1.0	+5.1	+2.9
1990-2000	+2.0	+1.3	+2.8	+2.3	+4.0	+2.3
2001	1%	1%	-8%	3%	-5%	0%

### Modal split

%

	Passenger Cars *	Railway	Bus & Coach	Tram & Metro	Air
1970	91.3	0.5	2.3	0.5	5.4
1980	89.1	0.4	2.4	0.4	7.7
1985	87.2	0.4	3.0	0.3	9.1
1990	86.6	0.3	3.2	0.3	9.5
1999	85.0	0.3	3.5	0.3	10.9
2000	84.7	0.3	3.4	0.3	11.2
2001	85.7	0.3	3.1	0.3	10.6

## **Part 3 : TRANSPORT**

### **Chapter 3.5 : Infrastructure**

## Railways : Density of Lines

	Area (1000 km <sup>2</sup> )	Length of railway lines (2003)			Railway lines density (length of lines/area) m/km <sup>2</sup>
		km	of which: electrified		
			km	%	
BE	30.5	3 521	2 927	83	115
CZ	78.9	9 501	2 943	31	120
DK	43.1	2 273	624	27	53
DE	357.0	36 054	19 829	55	101
EE	45.2	959	131	14	21
EL	132.0	2 414	83	3	18
ES	506.0	14 387	8 145	57	28
FR	544.0	29 269	14 505	50	54
IE	70.3	1 919	52	3	27
IT	301.3	16 288	11 166	69	54
CY	9.3	-	-	-	-
LV	64.6	2 269	257	11	35
LT	65.2	1 774	122	7	27
LU	2.6	275	262	95	106
HU	93.0	7 950	2 848	36	85
MT	0.3	-	-	-	-
NL	41.5	2 812	2 064	73	68
AT	83.9	5 661	3 325	59	67
PL	312.7	19 900	12 035	60	64
PT	91.9	2 818	1 076	38	31
SI	20.3	1 229	504	41	61
SK	48.8	3 657	1 556	43	75
FI	338.1	5 851	2 400	41	17
SE	450.0	11 849	8 232	69	26
UK	244.1	17 052	5 142	30	70
<b>EU25</b>	<b>3974.6</b>	<b>199 682</b>	<b>100 228</b>	<b>50</b>	<b>50</b>
<b>EU15</b>	<b>3236.3</b>	<b>152 443</b>	<b>79 832</b>	<b>52</b>	<b>47</b>
BG	110.9	4 318	2 847	66	39
HR	56.5	2 726	983	36	48
RO	237.5	11 364	3 929	35	48
TR	780.6	8 697	1 752	20	11
IS	103.0	-	-	-	-
NO	324.2	4 077	2 519	62	13
CH	41.3	3 231	3 231	100	78

Source : Union Internationale des Chemins de Fer, national statistics, Eurostat

## Railways : Length of Lines

km

	1970	1980	1990	1995	2000	2002	2003
BE	4 232	3 971	3 479	3 368	3 471	3 518	3 521
CZ				9 342	9 365	9 499	9 501
DK	2 352	2 015	2 344	2 349	2 047	2 273	2 273
DE	43 777	42 765	40 981	41 718	36 642	35 867	36 054
EE				1 018	968	967	959
EL	2 571	2 461	2 493	2 474	2 365	2 383	2 414
ES	15 850	15 724	14 539	14 291	13 868	13 856	14 387
FR	36 117	34 382	34 260	31 939	29 273	29 352	29 269
IE	2 189	1 987	1 944	1 954	1 915	1 919	1 919
IT	16 069	16 133	16 086	16 003	16 187	16 307	16 288
CY	-	-	-	-	-	-	-
LV				2 413	2 331	2 296	2 269
LT				2 002	1 905	1 775	1 774
LU	271	270	271	275	274	274	275
HU				7 503	8 005	7 950	7 950
MT	-	-	-	-	-	-	-
NL	3 148	2 760	2 798	2 739	2 802	2 806	2 812
AT	5 901	5 857	5 624	5 672	5 665	5 691	5 661
PL				23 986	22 560	20 223	19 900
PT	3 588	3 609	3 064	2 850	2 814	2 818	2 818
SI				1 102	1 201	1 229	1 229
SK				3 548	3 662	3 657	3 657
FI	5 870	6 096	5 867	5 880	5 854	5 850	5 851
SE	11 544	11 377	10 801	11 289	11 560	11 827	11 849
UK	19 330	18 030	16 914	17 069	17 044	17 052	17 052
<b>EU25</b>				<b>210784</b>	<b>201778</b>	<b>199389</b>	<b>199682</b>
<b>EU15</b>	<b>172809</b>	<b>167437</b>	<b>161465</b>	<b>159870</b>	<b>151781</b>	<b>151793</b>	<b>152443</b>
BG				4 294	4 320	4 318	4 318
HR					2 726	2 726	2 726
RO				11 376	11 364	11 364	11 364
TR				8 549	8 671	8 671	8 697
IS	-	-	-	-	-	-	-
NO				3 821	4 179	4 077	4 077
CH					3 216	3 222	3 231

Source : Union Internationale des Chemins de Fer, national statistics, Eurostat

Note: DE: includes DE-E: 1970=14250, 1980=14248, 1990=14031

## Railways : High Speed Rail Network

### Length in kilometres

	BE	DE	ES	FR	IT	EU-15
1981	-	-	-	285	-	285
1983	-	-	-	402	-	402
1988	-	-	-	402	-	402
1990	-	-	-	667	-	-
1995	-	-	476	1 124	-	-
1996	12	434	476	1 152	237	2 311
1997	71	434	476	1 152	259	2 392
1998	71	486	476	1 147	259	2 439
1999	73	491	476	1 147	259	2 446
2000	73	510	476	1 147	259	2 465
2001	73	510	476	1 395	259	2 713
2002	135	687	476	1 395	259	2 952
2003	142	796	1 031	1 520	259	3 748

**Note :** Lines capable of speeds of 250 km/h or more

### High speed lines under construction\*

LINE	Length km
BE Liege - German border	33
BE Antwerp - Dutch border	38
NL Amsterdam/Schiphol - Belgian border	120
DE Nuremberg - Ingolstadt	88
ES Lerida - Barcelona	42
ES Barcelona - French border	49
ES Madrid - Valladolid	203
ES Madrid - Valencia	104
ES Madrid - Toledo	24
ES Cordoba - Malaga	150
ES Leon - Asturias	25
ES Orense - Santiago	68
FR TGV-Est	302
FR Angouleme - Bordeaux	120
FR Nimes - Montpellier	60
IT Milan - Bologna	196
IT Bologna - Florence	77
IT Turin - Novara	92
IT Novara - Milan	51
IT Verona - Padova	77
IT Rome - Naples	220
SE Södertälje - Linköping	140
SE Nyland - Umeå	190
UK Ebbsfleet - London (St. Pancras)	38

**Source :** Union Internationale des Chemins de Fer, Community of European Railways

#### Notes:

The length under construction is not the distance between the above-mentioned places.

Also in operation : **UK** : 74 km; **SE** : 31 km

\* As defined by Directive 96/48/EC : specially built or upgraded lines, not all capable of speeds of 250 km/h.



### Railways : Main Railway Gauge and Electric Current Used

	Track Gauge mm	Electric current	
		dc volts	ac volts
BE	1435	3000	25000 50Hz
CZ	1435		15000 16.7Hz
DK	1435	3000	25000 50Hz
DE	1435	800-1200 (contact rail)	15000 16.7Hz
EE	1524		15000 16.7Hz
EL	600 1000 1435		25000 50Hz
ES*	1000 1435 1668	1500 3000	25000 50Hz
FR	1000 1435	750-850 (contact rail) 1500	25000 50Hz
IE	1600	1500	
IT	1435	3000	
CY	-		-
LV	1524		15000 16.7Hz
LT	1524		15000 16.7Hz
LU	1435		25000 50Hz
HU	1435		15000 16.7Hz
MT	-		-
NL	1435	1500	
AT	1435		15000 16.7Hz
PL	1435		15000 16.7Hz
PT	1000 1668		25000 50Hz
SI	1435		15000 16.7Hz
SK	1435		15000 16.7Hz
FIN	1524		25000 50Hz
SE	1435		15000 16.7Hz
UK	1435 1600 (N-IRL)	750 (contact rail)	25000 50Hz

**Source:** Union Internationale des Chemins de Fer, railway companies

**Notes :** 1435 mm = standard gauge

\* **ES:** new lines have a gauge of 1435 mm and an electric current of 25000 50Hz

## 3.5.5

## 3.5.5

**Road : Length of Motorways**

(at end of year)

km

	1970	1980	1990	2000	2001	2002
BE	488	1 203	1 631	1 702	1 727	1 729
CZ			357	517	517	518
DK	184	516	601	922	971	1 010
DE	6 061	9 225	10 809	11 712	11 786	12 037
EE			41	94	94	
EL	11	91	190	707	742	
ES	387	2 008	4 693	9 049	9 571	9 910
FR	1 553	4 862	6 824	9 766	10 068	10 223
IE	0	0	26	103	125	
IT	3 913	5 900	6 193	6 478	6 478	6 487
CY			120	257	257	268
LV	-	-	-	-	-	-
LT			421	417	417	417
LU	7	44	78	115	126	147
HU			267	448	448	
MT	-	-	-	-	-	-
NL	1 209	1 798	2 092	2 289	2 291	
AT	478	938	1 445	1 633	1 645	1 645
PL			257	399	398	405
PT	66	132	316	1 482	1 659	1 835
SI			228	435	435	457
SK			192	296	296	302
FI	108	204	225	549	591	603
SE	403	850	939	1 506	1 529	
UK	1 183	2 683	3 180	3 612	3 605	
<b>EU25</b>			<b>41 125</b>	<b>54 488</b>	<b>55 776</b>	
<b>EU15</b>	<b>16 051</b>	<b>30 454</b>	<b>39 242</b>	<b>51 625</b>	<b>52 914</b>	
BG			273	324	328	
HR			291	411	429	
RO			113	113	113	
TR			281	1 851	1 851	
IS	-	-	-	-	-	-
NO			395	173		
CH			1 148	1 270	1 305	1 342

Source : Eurostat, International Road Federation, United Nations, national sources

## 3.5.6

## 3.5.6

## Road : Length of Road Network

Year 2000

km

	Motorways	Highways, Main or National Roads	Secondary or Regional Roads	Other Roads
BE	1 702	12 600	1 349	132 540
CZ	517	20 727	34 183	72 300
DK	922	718	9 986	60 018
DE	11 712	41 321	177 899	
EE	94	3 902	12 439	35 603
EL	707	9 100	31 300	75 600
ES	9 049	24 124	139 656	489 698
FR	9 766	27 500	358 500	586 000
IE	103	5 326	11 628	78 657
IT	6 478	46 011	113 835	312 149
CY	257	2 178		8 973
LV	-	6 962	13 358	49 412
LT	417	1 307	19 592	55 258
LU	115	837	1 911	2 347
HU	448	30 060	23 057	105 233
MT	-	185	196	1 873
NL	2 289	6 650	57 500	59 400
AT	1 633	10 280	23 086	98 000
PL	399	17 637	28 381	318 280
PT	1 482	11 991	58 990	
SL	435	1 101	4 796	13 904
SK	296	3 221	3 828	35 611
FI	549	13 271	28 633	35 993
SE	1 506	15 349	82 892	114 720
UK	3 612	48 194	113 105	207 256
<b>EU25</b>	<b>54 488</b>	<b>360 552</b>	<b>1350 100</b>	
<b>EU15</b>	<b>51 625</b>	<b>273 272</b>	<b>1210 270</b>	
BG	324	3 011	3 818	30 133
HR	411	7 427	10 499	10 197
RO	113	14 711	63 791	119 988
TR	1 851	31 376	29 929	291 217
IS	-	4 310	3 897	4 791
NO	173	26 762	27 153	37 455
CH	1 270	18 110	51 397	

Source : International Road Federation, national statistics

Note : the definition of road types varies from country to country

## Pipelines

### Length of oil pipelines

km

	1970	1980	1990	1999	2000	2001
BE	52	458	301	294		
CZ					736	736
DK	-	77	444	330	330	330
DE	2 879	2 880	3 038	2 370	2 370	2 370
EE	-	-	-	-	-	-
EL	-	-	-	-	-	-
ES	1 099	1 753	2 678	3 698	3 780	3 779
FR	3 609	5 254	4 948	5 746	5 746	5 746
IE	-	-	-	-	-	-
IT	1 860	3 069	4 086	4 364	4 347	
CY	-	-	-	-	-	-
LV			766		766	766
LT					500	500
LU	-	-	-	-	-	-
HU			2 574		848	848
MT	-	-	-	-	-	-
NL	323	391	391	418		
AT	604	777	777	777	777	777
PL					2 278	
PT	-	-	-	-	-	-
SI	-	-	-	-	-	-
SK	-	-	-	-	-	-
FI	-	-	-	-	-	-
SE	-	-	-	-	-	-
UK	1 634	3 166	2 422	3 923	3 954	4 368
<b>EU25</b>						
<b>EU15</b>	<b>12 060</b>	<b>17 825</b>	<b>19 085</b>	<b>21 920</b>		
BG			578		578	578
RO			3 694		4 423	4 423
TR					2 112	2 112
IS	-	-	-	-	-	-
NO			521		7 908	7 941
CH			239		108	108

**Source :** Eurostat, United Nations, European Conference of Ministers of Transport, Eurogas, national statistics

**Note:**

**DE :** includes DE-E : 1970=1300, 1980=1301, 1990=1323

## Inland Waterways

### Length in use

(Navigable canals, rivers and lakes regularly used for transport)

	km					
	1970	1980	1990	1999	2000	2001
BE	1 553	1 510	1 513		1 534	1 527
CZ					664	664
DK	-	-	-	-	-	-
DE	6 808	6 697	6 669		6 754	
EE					30	30
EL	6	6	6			
ES	70	70	70	70		
FR	7 433	6 568	6 197	5 576	5 789	5 378
IE	-	-	-	-	-	-
IT	2 337	2 337	1 366	1 477	1 477	
CY	-	-	-	-	-	-
LV					106	
LT			369		380	436
LU	37	37	37			
HU			1 373	1 373	1 373	1 484
MT	-	-	-	-	-	-
NL	5 599	4 843	5 046			
AT	350	350	351	351	351	351
PL			3 997		3 812	
PT	124	124	124			
SI	-	-	-	-	-	-
SK					172	172
FI	6 000	6 057	6 237	6 245	6 245	6 245
SE	390	390	390			
UK	1 631	1 631	1 631	1 153	1 153	1 153
<b>EU25</b>						
<b>EU15</b>	<b>32 338</b>	<b>30 620</b>	<b>29 637</b>			
BG			470	470	470	470
HR						
RO			1 782		1 779	1 779
TR	-	-	-	-	-	-
IS	-	-	-	-	-	-
NO	-	-	-	-	-	-
CH					745	

**Source :** Eurostat, United Nations, national statistics

**Notes :** the inland waterways of Greece (Korinthos Canal), Spain (Guadalquivir), Portugal (Douro, Guadiana, Tejo) and Sweden are used by seagoing ships only.

Sweden: data relate to Göta canal system; only 91 km (Göta river) are regularly used for goods transport.

Germany: includes 978 km of non-classified waterways, some of them not regularly used for transport.

Italy: figure includes 428 km of rivers (of which Po: 389 km), 201 km of canals, 225 km coastal and Venice lagoon waterways (total 854 km) and in addition 612 km of passenger transport lines on the lakes in Northern Italy and in Venice.

Austria : Danube canal in Vienna not regularly used.

# **Part 3 : TRANSPORT**

## **Chapter 3.6 : Means of transport**

**Road : Motorization**  
**Number of passenger cars**  
**per 1000 inhabitants**

	1970	1980	1990	2000	2001	2002
BE	213	321	388	457	462	464
CZ	69	173	233	335	344	357
DK	219	271	310	348	350	352
DE	193	331	449	533	540	542
EE	22	86	153	338	298	294
EL	26	90	171	289	312	339
ES	71	203	309	437	450	459
FR	236	355	416	478	486	491
IE	134	218	227	349	362	374
IT	190	314	484	565	575	591
CY	98	176	312	388	402	408
LV	17	66	106	234	248	264
LT	14	73	133	334	325	340
LU	213	354	484	630	640	646
HU	23	94	187	231	243	249
MT				497	499	519
NL	198	323	370	412	420	425
AT	161	298	391	512	521	496
PL	15	67	138	258	272	285
PT	48	95	186	352	365	378
SI	88	220	290	437	444	458
SK	36	111	166	236	240	247
FI	154	257	390	412	417	422
SE	286	347	422	451	452	454
UK	214	277	360	420	431	447
EU25				441	450	459
EU15	184	293	394	474	483	491
BG	19	93	151	243	263	
HR				246	269	280
RO	2	11	56	139	144	
TR				66	66	66
IS			473	569	564	565
NO	179	302	381	410	415	419
CH			447	495	504	510

Source : Energy and Transport DG calculations

### Road : Passenger Cars Stock of vehicles

thousand

	1970	1980	1990	2000	2001	2002
<b>BE</b>	2 060	3 159	3 864	4 678	4 740	4 787
<b>CZ</b>	685	1 780	2 410	3 439	3 530	3 647
<b>DK</b>	1 077	1 390	1 590	1 854	1 872	1 888
<b>DE</b>	15 107	25 870	35 502	43 772	44 383	44 660
<b>EE</b>	30	127	241	464	407	401
<b>EL</b>	227	863	1 735	3 156	3 415	3 730
<b>ES</b>	2 378	7 557	11 996	17 449	18 151	18 730
<b>FR</b>	11 900	19 100	23 550	28 060	28 700	29 160
<b>IE</b>	393	738	796	1 319	1 385	1 460
<b>IT</b>	10 181	17 686	27 416	32 584	33 239	33 706
<b>CY</b>	60	90	179	268	280	288
<b>LV</b>	40	166	283	557	586	619
<b>LT</b>	44	247	493	1 172	1 134	1 180
<b>LU</b>	72	129	183	273	281	287
<b>HU</b>	240	1 010	1 944	2 365	2 483	2 530
<b>MT</b>				189	195	205
<b>NL</b>	2 564	4 550	5 509	6 539	6 710	6 850
<b>AT</b>	1 197	2 247	2 991	4 097	4 182	3 987
<b>PL</b>	479	2 380	5 261	9 991	10 503	11 028
<b>PT</b>	421	919	1 849	3 593	3 746	3 900
<b>SI</b>	151	416	578	868	884	914
<b>SK</b>	164	552	880	1 274	1 293	1 330
<b>FI</b>	712	1 226	1 939	2 130	2 160	2 190
<b>SE</b>	2 288	2 883	3 601	3 999	4 019	4 044
<b>UK</b>	11 900	15 600	20 700	25 067	25 783	26 460
<b>EU25</b>				<b>199157</b>	<b>204061</b>	<b>207980</b>
<b>EU15</b>	<b>62477</b>	<b>103915</b>	<b>143222</b>	<b>178570</b>	<b>182766</b>	<b>185839</b>
<b>BG</b>	160	820	1 320	1 993	2 086	
<b>HR</b>				1 125	1 195	1 244
<b>RO</b>	40	240	1 290	3 129	3 226	
<b>TR</b>				4 422	4 535	4 600
<b>IS</b>			120	159	160	162
<b>NO</b>	690	1 230	1 613	1 835	1 868	1 897
<b>CH</b>			2 985	3 545	3 630	3 701

**Source :** Eurostat, national statistics , study for Energy and Transport DG



## 3.6.3

## 3.6.3

### Road : Buses and Coaches

#### Stock of vehicles

thousand

	1970	1980	1990	2000	2001	2002
BE	16.17	19.56	15.64	14.72	14.68	14.77
CZ		20.30	26.00	18.90	18.38	21.34
DK	5.04	7.35	8.11	13.97	13.95	13.99
DE	63.94	95.76	100.37	86.66	86.46	85.88
EE		6.40	7.90	6.10	5.50	5.30
EL	10.55	18.01	21.43	28.00	30.00	31.20
ES	30.73	42.63	45.77	54.73	56.15	57.00
FR	41.00	59.00	70.00	85.75	86.80	86.80
IE	2.01	2.72	4.05	6.96	7.37	7.80
IT	32.90	58.15	77.73	87.96	89.85	91.72
CY		1.60	2.31	2.95	3.00	3.00
LV				11.80	11.60	11.48
LT		10.50	15.20	15.54	15.64	15.84
LU	0.56	0.65	0.76	1.05	1.12	1.18
HU		22.20	26.10	18.10	18.10	18.10
MT				1.10	1.10	1.10
NL	9.50	11.20	12.10	11.37	11.33	11.38
AT	6.80	8.98	9.40	9.92	9.90	9.18
PL		66.40	92.00	82.60	82.50	83.39
PT	5.87	8.49	12.10	19.78	20.76	21.39
SI		2.50	3.10	2.30	2.20	2.19
SK		10.00	14.30	11.10	10.90	10.83
FI	8.12	8.96	9.33	9.85	9.77	10.01
SE	14.25	12.80	14.60	14.42	14.25	14.02
UK	84.20	83.30	78.00	95.00	95.20	95.00
<b>EU25</b>				<b>710.6</b>	<b>716.5</b>	<b>723.9</b>
<b>EU15</b>	<b>331.6</b>	<b>437.6</b>	<b>479.4</b>	<b>540.1</b>	<b>547.6</b>	<b>551.3</b>
BG		21.00	25.30	43.00	43.60	
HR				4.66	4.77	4.79
RO		25.00	28.30	48.10	48.50	
TR				354.30	358.70	361.80
IS			1.32	1.67	1.71	1.70
NO			21.20	36.69	35.61	
CH			12.50	40.26	41.34	42.40

**Source :** Eurostat, national statistics, Comité des Constructeurs Français d'Automobiles, study for Energy and Transport DG

**Note:** DE : includes DE-E : 1970=16.7, 1980=25.3, 1990=30.0

### Road : Goods Vehicles Stock of vehicles

thousand

	1970	1980	1990	2000	2001	2002
BE	212.2	267.7	343.2	503.0	526.3	540.6
CZ				298.3	321.2	349.5
DK	245.0	249.0	286.6	373.3	380.2	389.4
DE	1 188.0	1 511.0	1 653.0	2 611.0	2 649.0	2 619.3
EE		51.1	67.7	82.1	80.5	80.2
EL	105.0	401.0	743.2	1 043.0	1 047.0	1 076.0
ES	710.0	1 338.3	2 332.9	3 780.2	3 949.0	4 092.0
FR	1 504.0	2 457.0	4 670.0	5 456.0	5 816.0	5 903.0
IE	49.0	65.0	143.2	205.6	220.0	239.0
IT	877.0	1 338.0	2 349.0	3 377.6	3 541.6	3 751.7
CY		23.6	74.3	114.7	117.9	117.8
LV				97.1	99.7	102.7
LT		65.7	83.0	98.6	100.4	105.6
LU	9.0	9.0	11.3	20.4	21.8	22.7
HU		197.0	262.0	353.0	380.0	400.0
MT				50.0	50.0	50.0
NL	286.0	314.0	553.0	939.0	985.6	1 027.2
AT	121.0	184.0	253.0	327.0	331.0	320.0
PL				1 880.0	1 979.3	2 162.6
PT	157.0	350.0	781.0	1 658.0	1 752.7	1 829.2
SI				54.5	56.4	60.3
SK				153.0	161.5	171.3
FI	103.0	149.0	264.0	304.3	312.6	319.7
SE	145.0	181.6	309.5	374.3	395.7	409.0
UK	1 749.0	1 828.0	2 706.0	2 861.0	2 960.0	3 047.0
<b>EU25</b>				<b>27015.0</b>	<b>28235.4</b>	<b>29185.7</b>
<b>EU15</b>	<b>7460.2</b>	<b>10642.5</b>	<b>17398.9</b>	<b>23833.7</b>	<b>24888.4</b>	<b>25585.7</b>
BG				301.0	312.0	
HR				113.1	119.9	129.0
RO		250.0	259.0	449.0	456.0	
TR				1 229.0	1 271.0	1 318.0
IS			13.1	19.4	20.0	
NO			199.0	228.8	222.2	220.1
CH		169.4	246.2	270.3	276.6	281.1

**Source :** Eurostat, national statistics , Association des Constructeurs Européens d'Automobiles, study for Energy and Transport DG

**Notes:**

**CS :** 1980: 130.0 1990: 156.0

**DE :** includes DE-E : 1970=160, 1980=234, 1990=264

## Road : Powered Two-wheelers

## Stock of vehicles

## Motorcycles

thousand

	1995	1999	2000	2001	2002
BE	198.5	257.9	276.9	289.8	301.2
DK	51.9	69.2	73.7	78.4	82.7
DE	2 267.4	3 177.4	3 337.8	3 557.4	3 626.9
EL					
ES	1 301.2	1 403.8	1 445.6	1 483.4	1 517.2
FR	727.0	912.0	968.0	1 019.0	1 054.0
IE					
IT	2 530.8	2 967.9	3 373.1	3 729.9	4 049.5
LU	8.4	10.8	11.5	12.0	
NL	308.0	414.0	437.8	460.8	494.5
AT	174.9	261.7	279.7	294.8	292.6
PT	97.2	125.0	144.0	158.0	149.0
FI	64.6	79.6	90.3	102.1	115.3
SE	117.4	150.0	163.3	178.8	
UK	758.7	905.1	994.7	1 033.2	1 278.6

## Mopeds

thousand

	1995	1999	2000	2001	2002
BE					
DK					
DE	1 652.8	1 742.7	1 724.9	1 577.6	
EL					
ES	2 100.8	2 268.3	2 202.5	2 112.6	2 007.8
FR	1 562.0	1 461.0	1 442.0	1 421.0	1 387.0
IE					
IT	5 375.0	6 395.0	6 375.0	6 231.0	6 106.2
LU	20.1	20.9	21.3	21.6	
NL	540.0	550.0	533.0	504.0	508.0
AT	371.5	351.2	342.6	342.0	302.7
PT	741.3	610.0	590.0	551.0	455.0
FI	94.4	102.2	101.7	102.6	106.6
SE	141.5	150.0	150.0	150.0	
UK	141.5	136.0	163.0	178.8	178.8

Source : Association des Constructeurs Européens de Motocycles

3.6.6

3.6.6

## Road : Vehicle Registrations Passenger Cars

thousand

	1998	1999	2000	2001	2002	2003
<b>BE</b>	452.1	489.6	515.2	488.7	467.6	458.8
<b>DK</b>	162.5	143.7	112.7	96.2	111.6	96.1
<b>DE</b>	3 736.0	3 802.2	3 378.3	3 341.7	3 252.9	3 236.9
<b>EL</b>	180.1	261.7	290.2	280.2	268.5	257.3
<b>ES</b>	1 192.5	1 406.2	1 381.3	1 425.6	1 331.9	1 383.1
<b>FR</b>	1 943.6	2 148.4	2 133.9	2 254.7	2 145.1	2 009.2
<b>IE</b>	145.7	174.2	230.8	164.7	156.1	145.2
<b>IT</b>	2 378.5	2 338.5	2 423.1	2 413.5	2 279.6	2 246.1
<b>LU</b>	35.9	40.5	41.9	42.8	43.4	43.6
<b>NL</b>	543.0	611.5	597.6	530.2	510.7	488.8
<b>AT</b>	295.9	314.2	309.4	293.5	279.5	300.1
<b>PT</b>	248.4	272.9	257.8	255.2	226.1	189.8
<b>FI</b>	125.8	136.3	134.6	109.5	116.9	147.2
<b>SE</b>	253.4	295.2	290.5	246.6	254.6	261.2
<b>UK</b>	2 247.4	2 197.6	2 221.7	2 458.8	2 563.6	2 579.1
<b>EU15</b>	<b>13 940.8</b>	<b>14 632.8</b>	<b>14 319.1</b>	<b>14 401.9</b>	<b>14 008.0</b>	<b>13 842.7</b>

### Registrations in other countries :

	2003
<b>CZ</b>	153.0
<b>EE</b>	15.6
<b>CY</b>	7.8
<b>LV</b>	8.7
<b>LT</b>	7.5
<b>HU</b>	208.4
<b>PL</b>	358.4
<b>SI</b>	59.5
<b>SK</b>	59.7

	2003
<b>IS</b>	9.9
<b>NO</b>	89.9
<b>CH</b>	270.3

**Source :** Association des Constructeurs Européens d'Automobiles

## 3.6.7

## 3.6.7

## Road : Motorcycle Registrations and Sales of Bicycles

### Motorcycle Registrations

thousand

	1995	2000	2001	2002	2003
BE	14.6	25.3	21.2	21.5	21.0
DK	2.3	3.3	1.7	2.6	
DE	218.2	252.6	227.0	204.1	191.3
EL	25.5	64.0	66.8	56.1	59.1
ES	34.6	72.0	64.1	62.2	74.8
FR	85.0	179.6	179.6	168.8	176.0
IE	1.9	3.5	3.6	3.2	2.9
IT	81.3	524.6	420.4	392.8	407.1
LU	1.0	1.3	0.0	0.0	
NL	17.8	19.6	17.6	16.8	16.7
AT	18.7	23.8	20.0	16.7	17.9
PT	12.8	17.7	17.1	14.2	11.2
FI	1.0	5.2	4.4	4.9	
SE	4.4	15.2	21.1	23.1	23.2
UK	47.4	121.9	123.9	123.4	119.3
<b>EU15</b>	<b>566.5</b>	<b>1329.6</b>	<b>1188.4</b>	<b>1110.4</b>	

Source : Association des Constructeurs Européens de  
Motocycles

### Sales of Bicycles

thousand

	1998	2000	2001	2002	2003
BE*	415	440	370	477	450
DK	430	380	365	425	425
DE	4 500	5 260	4 510	4 650	4 900
EL	210	190	161		
ES	620	790	470	586	739
FR	2 076	2 660	2 280	2 422	3 258
IE	120	95	80		
IT	1 350	1 720	1 680	1 384	1 432
LU*					
NL	1 350	1 517	1 365	1 324	1 219
AT	430	470	400	372	393
PT	350	350	295	300	300
FI	225	210	265	214	275
SE	440	430	365		
UK	2 150	2 190	2 400	2 300	2 500
<b>EU15</b>	<b>14 666</b>	<b>16 702</b>	<b>15 006</b>		

Source : BOVAG-RAI (NL)

Note: \* : Luxembourg included in Belgian figures

## Road : Vehicle Registrations

### Commercial vehicles

thousand

	Heavy goods vehicles > 3.5 tonnes			Light goods vehicles < 3.5 tonnes		
	1990	2002	2003	1990	2002	2003
<b>BE</b>	10.69	10.07	10.22	52.49	47.69	50.62
<b>DK</b>	3.54	4.15	4.25	19.65	31.44	31.89
<b>DE</b>	73.77	82.18	82.51	125.38	182.65	176.56
<b>EL</b>	0.50	1.79	2.12	29.48	18.16	17.68
<b>ES</b>	30.43	33.58	34.74	229.82	267.63	296.59
<b>FR</b>	50.03	51.55	45.62	393.80	404.02	380.84
<b>IE</b>	2.75	3.97	4.47	24.14	33.64	29.45
<b>IT</b>	31.97	39.69	35.56	157.00	268.36	199.53
<b>LU</b>	1.14	1.03	1.21	1.86	3.91	3.43
<b>NL</b>	14.80	14.55	13.60	53.08	80.27	76.48
<b>AT</b>	7.22	6.90	8.03	21.54	22.26	25.41
<b>PT</b>	7.19	4.76	3.75	64.24	78.78	68.66
<b>FI</b>	4.22	3.23	3.97	27.51	14.62	14.39
<b>SE</b>	6.00	5.06	5.11	26.36	28.33	28.09
<b>UK</b>	45.79	51.09	54.13	247.73	259.57	296.05
<b>EU15</b>	<b>290.0</b>	<b>313.6</b>	<b>309.3</b>	<b>1474.1</b>	<b>1741.3</b>	<b>1695.7</b>

### Registrations in other countries in 2003 :

	Heavy goods vehicles	Light goods vehicles
<b>CZ</b>		14.57
<b>EE</b>	0.50	2.58
<b>LV</b>	0.71	1.03
<b>LT</b>	1.47	1.65
<b>HU</b>		24.98
<b>PL</b>	8.92	24.51
<b>SI</b>	1.17	9.32
<b>SK</b>	2.59	6.64
<b>IS</b>	0.30	1.08
<b>NO</b>	6.19	24.31
<b>CH</b>	3.27	19.23

Source : Association des Constructeurs Européens d'Automobiles

## Road : Vehicle Registrations

## Commercial vehicles

thousand

	Buses and coaches > 3.5 tonnes			Total commercial vehicles		
	1990	2002	2003	1990	2002	2003
	<b>BE</b>	0.58	1.02	0.85	63.8	58.8
<b>DK</b>	0.31	0.57	0.46	23.5	36.2	36.6
<b>DE</b>	4.24	5.59	5.53	203.4	270.4	264.6
<b>EL</b>	0.63	0.19	0.82	30.6	20.1	20.6
<b>ES</b>	2.38	3.08	3.09	262.6	304.3	334.4
<b>FR</b>	3.16	5.30	4.91	447.0	460.9	431.4
<b>IE</b>	0.02	0.08	0.30	26.9	37.7	34.2
<b>IT</b>	3.83	4.81	4.44	192.8	312.9	239.5
<b>LU</b>	0.06	0.09	0.14	3.1	5.0	4.8
<b>NL</b>	1.07	0.71	0.89	69.0	95.5	91.0
<b>AT</b>	0.45	0.70	0.73	29.2	29.9	34.2
<b>PT</b>	0.48	0.69	0.56	71.9	84.2	73.0
<b>FI</b>	0.43	0.36	0.38	32.2	18.2	18.7
<b>SE</b>	0.86	1.17	1.06	33.2	34.6	34.3
<b>UK</b>	3.32	4.83	5.80	296.8	315.5	356.0
<b>EU15</b>	<b>21.81</b>	<b>29.18</b>	<b>29.96</b>	<b>1785.9</b>	<b>2084.1</b>	<b>2034.9</b>

## Registrations in other countries in 2003 :

Buses and coaches	
<b>LV</b>	0.27
<b>SI</b>	0.13
<b>SK</b>	0.21
<b>NO</b>	0.68
<b>CH</b>	0.54

Source : Association des Constructeurs Européens  
d'Automobiles

## 3.6.9

## 3.6.9

### Rail : Locomotives and Railcars Stock of vehicles

	1970	1980	1990	2000	2001	2002
BE	1 536	1 740	1 727	1 670	1 706	1 678
CZ				3 596	3 481	3 301
DK	480	461	524	415	495	566
DE	14 071	14 086	14 703	9 656	9 514	9 149
EE			300	194	194	236
EL	514	313	400	244	290	278
ES	1 928	1 791	1 922	1 693	1 951	1 931
FR	6 261	6 204	7 279	7 158	7 224	7 336
IE	307	192	166	172	169	225
IT	4 715	4 916	4 818	4 697	4 650	5 205
CY	-	-	-	-	-	-
LV			739	433	403	392
LT			389	419	406	390
LU	95	85	97	124	132	131
HU			2 040	1 453	1 442	1 363
MT	-	-	-	-	-	-
NL	2 140	2 174	2 372	1 965	2 128	2 029
AT	1 423	1 428	1 543	1 530	1 606	1 555
PL			6 801	5 293	5 232	5 028
PT	626	583	530	589	536	515
SI			358	300	304	310
SK				1 570	1 512	1 451
FI	877	752	669	735	724	731
SE	1 408	1 576	1 350	887		869
UK	9 510	5 452	5 610			4 430
<b>EU25</b>			<b>60 347</b>			<b>49 099</b>
<b>EU15</b>	<b>45 891</b>	<b>41 753</b>	<b>43 710</b>			<b>36 628</b>
BG	1 005	1 009	1 119	762	753	680
HR	588	565	563	480	397	396
RO		4 564	4 515	3 440	3 341	3 594
TR	1 055	1 101	897	849	838	819
IS	-	-	-	-	-	-
NO	439	430	502	299	303	269
CH	1 116	1 205	1 254	1 528	2 011	2 008

**Source :** Union Internationale des Chemins de Fer; **UK:** Department of Transport, Local Government and the Regions; **ES:** Red Nacional de Ferrocarriles Espanoles only, **NL:** Centraal Bureau voor Statistiek, **LU:** Chemins de Fer Luxembourgeois

**Notes :** data relate to main railways (UIC members)

**DE :** includes DE-E : 1970=6000; 1980=5898; 1990=6597

**CS :** 1970: 4998; 1990: 6010



## 3.6.10

## 3.6.10

**Rail : Passenger Transport Vehicles**

(coaches + railcars + trailers)

**Stock of vehicles**

	1970	1980	1990	2000	2001	2002
<b>BE</b>	3 415	3 609	3 286	3 494	3 462	3 413
<b>CZ</b>				5 252	5 223	5 103
<b>DK</b>	1 526	1 613	1 594	1 590	1 573	1 704
<b>DE</b>	31 506	29 118	24 139	21 097	21 139	21 728
<b>EE</b>			596	241	308	203
<b>EL</b>	574	660	810	475	509	660
<b>ES</b>	3 904	3 721	3 839	3 765	4 262	4 345
<b>FR</b>	15 663	16 032	15 748	15 656	15 650	15 685
<b>IE</b>	484	348	314	421	421	419
<b>IT</b>	11 060	13 444	14 025	11 914	11 933	11 007
<b>CY</b>	-	-	-	-	-	-
<b>LV</b>			1 226	702	621	597
<b>LT</b>			664	563	537	509
<b>LU</b>	114	102	114	149	152	150
<b>HU</b>			4 385	3 232	3 142	3 376
<b>MT</b>	-	-	-	-	-	-
<b>NL</b>	1 919	1 958	2 268	2 742	2 742	2 693
<b>AT</b>	4 125	4 025	3 689	3 468	3 332	3 320
<b>PL</b>	8 522	7 493	11 928	9 761	9 529	8 965
<b>PT</b>	980	1 137	1 232	1 303	1 313	876
<b>SI</b>			606	461	470	482
<b>SK</b>				2 273	1 915	2 189
<b>FI</b>	1 032	1 100	957	1 003	1 011	1 030
<b>SE</b>	2 746	1 998	1 747	1 000	781	912
<b>UK</b>	18 678	17 042	12 514	10 150	10 425	16 982
<b>EU25</b>			<b>105 681</b>	<b>100 712</b>	<b>100 450</b>	<b>106 348</b>
<b>EU15</b>	<b>97 726</b>	<b>95 907</b>	<b>86 276</b>	<b>78 227</b>	<b>78 705</b>	<b>84 924</b>
<b>BG</b>	1 762	2 441	2 386	2 099	1 935	1 655
<b>HR</b>	1 062	1 038	1 052	720	698	681
<b>RO</b>		5 579	6 352	6 234	6 245	5 467
<b>TR</b>	1 548	1 351	1 443	1 415	1 385	1 356
<b>IS</b>	-	-	-	-	-	-
<b>NO</b>	1 067	908	900	918	942	930
<b>CH</b>	3 816	4 006	4 136	3 333	3 925	4 020

**Source :** Union Internationale des Chemins de Fer, national statistics

**Notes :** data relate to main railways (UIC members)

**DE :** includes DE-E : 1970=10000, 1980=10761, 1990=9635

**CS :** 1970=10145 1990=8597

## 3.6.11

## 3.6.11

## Rail : Goods Transport Wagons

## Stock of vehicles

thousand

	1970	1980	1990	2000	2001	2002
BE	44.7	43.0	30.3	18.8	19.7	20.3
CZ				58.5	50.2	46.8
DK	11.0	6.9	4.6	2.2	2.2	2.2
DE	459.0	476.4	366.7	189.6	173.0	121.5
EE				5.9	6.1	7.5
EL	9.0	10.9	11.0	3.5	3.5	3.5
ES	53.3	40.8	37.7	26.5	25.9	26.2
FR	291.5	239.8	148.1	94.8	109.8	107.0
IE	9.7	4.4	1.8	1.9	1.9	1.9
IT	125.2	115.2	99.7	70.1	73.1	56.9
CY	-	-	-	-	-	-
LV			11.1	9.1	8.1	7.9
LT			12.9	13.2	12.5	12.4
LU	4.2	3.7	2.7	2.6	2.9	3.1
HU				23.5	22.8	21.8
MT	-	-	-	-	-	-
NL	18.8	11.4	6.7	4.7	3.3	2.1
AT	39.1	38.7	34.3	24.0	25.0	24.1
PL	229.2	231.4	275.6	130.1	130.7	95.4
PT	9.0	5.9	4.6	4.2	4.2	4.3
SI			8.7	6.3	6.0	5.8
SK				27.0	24.6	24.5
FI	22.8	21.5	15.2	12.6	12.3	11.8
SE	53.4	45.9	27.5	17.6	17.6	9.9
UK	389.8	141.2	34.4		19.1	19.1
<b>EU25</b>					<b>754.3</b>	<b>636.2</b>
<b>EU15</b>	<b>1540.6</b>	<b>1205.5</b>	<b>825.4</b>		<b>493.4</b>	<b>414.0</b>
BG	33.9	37.3	42.5	29.7	16.6	17.5
HR		12.9	13.7	10.0	9.5	8.8
RO		144.5	166.1	118.0	96.8	101.8
TR	17.4	23.2	21.9	17.9	17.6	17.0
IS	-	-	-	-	-	-
NO					2.7	
CH	32.5	31.4	27.1	19.9	20.4	19.6

Source : Union Internationale des Chemins de Fer, national statistics

Notes : data relate to main railways (UIC members)

DE : includes DE-E : 1970=138.0; 1980=140.2;  
1990=163.2

**Sea : EU Merchant Fleet**

Ships of 1000 grt and over

Data as at January 1st, 2003

	Total fleet controlled		National flag		Foreign flag		Share of foreign flag in total fleet %	
	Number	mto dwt	Number	mto dwt	Number	mto dwt	Number	mto dwt
BE	114	6.5	2	0.0	112	6.5	98.2	99.9
CZ								
DK*	587	16.5	296	8.3	291	8.1	49.6	49.4
DE	2 274	40.7	368	7.6	1 906	33.2	83.8	81.4
EE	74	0.3	48	0.2	26	0.1	35.1	30.5
EL	3 064	148.9	755	44.9	2 309	104.0	75.4	69.8
ES	231	3.8	146	1.9	85	1.9	36.8	50.6
FR	211	5.6	115	2.6	96	3.0	45.5	53.7
IE	42	0.2	25	0.1	17	0.1	40.5	31.1
IT	573	11.9	460	8.2	113	3.7	19.7	31.2
CY	67	2.8	30	0.8	37	2.0	55.2	70.5
LV	89	1.7	3	0.0	86	1.7	96.6	99.6
LT	53	0.3	47	0.3	6	0.0	11.3	6.8
LU	2	0.0	2	0.0	0	0.0	0.0	0.0
HU	1	0.0	0	0.0	1	0.0	100.0	100.0
MT	13	0.0	13	0.0	0	0.0	0.0	0.0
NL	648	5.6	491	3.4	157	2.2	24.2	38.8
AT	22	0.6	6	0.0	16	0.6	72.7	93.6
PL	90	1.6	10	0.2	80	1.4	88.9	85.1
PT	47	1.4	30	0.5	17	0.9	36.2	67.0
SI	19	0.5	0	0.0	19	0.5	100.0	100.0
SK								
FI	121	1.8	82	0.8	39	1.0	32.2	57.4
SE	311	6.9	155	1.4	156	5.4	50.2	79.2
UK	605	17.1	258	7.3	347	9.7	57.4	57.1
<b>EU25</b>	<b>9258</b>	<b>274.4</b>	<b>3342</b>	<b>88.5</b>	<b>5916</b>	<b>185.9</b>	<b>63.9</b>	<b>67.7</b>
<b>EU15</b>	<b>8852</b>	<b>267.2</b>	<b>3191</b>	<b>87.0</b>	<b>5661</b>	<b>180.2</b>	<b>64.0</b>	<b>67.5</b>
BG	98	1.7	68	1.3	30	0.4	30.6	25.9
HR	99	2.2	65	1.0	34	1.2	34.3	53.9
RO	75	1.3	41	0.5	34	0.8	45.3	60.3
TR	569	8.9	437	7.3	132	1.6	23.2	17.7
IS	25	0.2	1	0.0	24	0.2	96.0	100.0
NO	1 346	56.5	645	26.0	701	30.5	52.1	54.0
CH	231	6.5	12	0.7	219	5.8	94.8	89.4

**Source** : ISL merchant fleet data bases; aggregates based on quarterly updates from the Lloyd's Maritime Information System.

\* : including international registers like the Danish International Ship Register; including vessels registered at territorial dependencies

### Sea : World Merchant Fleet by world region

<b>Total controlled fleet</b> dwt (million)					
	1995	1999	2000	2002	2003
<b>Europe*</b>	311.2	344.6	350.1	372.3	371.7
of which: EU-25	<b>217.2</b>	<b>247.8</b>	<b>253.4</b>	<b>271.6</b>	<b>274.4</b>
of which: EU-15	<b>207.5</b>	<b>242.0</b>	<b>247.5</b>	<b>264.5</b>	<b>267.2</b>
<b>North America</b>	51.0	46.5	49.4	42.6	45.8
<b>Latin America</b>	18.7	16.0	15.7	15.5	14.6
<b>Asia/Oceania</b>	246.7	287.7	292.7	304.7	313.8
<b>Africa</b>	6.7	7.0	7.1	5.1	4.8
<b>Unknown</b>	37.9	40.1	38.1	51.1	57.4
<b>Total</b>	<b>672.4</b>	<b>741.9</b>	<b>753.2</b>	<b>791.3</b>	<b>808.2</b>
EU-25 control of total	32.3%	33.4%	33.6%	34.3%	34.0%
EU-15 control of total	30.9%	32.6%	32.9%	33.4%	33.1%
EU-25 : Foreign flag share	56.0%	66.0%	67.4%	67.1%	67.7%
EU-15 : Foreign flag share	57.7%	66.4%	67.7%	66.7%	67.5%

**Notes:** only ships of 1000 gt and over

\*: In this table Europe includes EU-25, EFTA, Monaco, Turkey, Western Balkan countries, Russia, Ukraine and Moldova

### by type of ship

<b>Total registered fleet</b>					EU-15 cont - rolled*
January 1st, 2003  (ships of 300 gt and over)	Number		dwt (1000)		
	World	EU-15 flag	World	EU-15 flag	dwt 1000
<b>Oil tankers</b>	7 397	991	305.2	50.9	93.9
<b>Chemical tk.</b>	1 290	208	8.3	1.4	
<b>Liquid gas tk.</b>	1 120	172	19.6	2.4	
<b>Bulk carriers</b>	5 970	418	284.1	23.4	
<b>Ore/bulk/oil carriers</b>	183	6	12.8	0.4	2.3
<b>General cargo</b>	15 486	1 524	88.6	7.6	
<b>Container</b>	2 905	569	83.7	21.0	
<b>Pass./Cargo &amp; Ro-Ro</b>	3 663	1 115	12.4	4.6	
<b>Passenger</b>	1 401	339	1.6	0.4	2.3
[ gt (1000) ]			[11 053]	[2 690]	
<b>Cruise ships</b> (ships of 1000 gt and over)	258	65			
[ gt (1000) ]			[10246]	[2694]	

**Source :** Institute for Shipping Economics and Logistics, Bremen

**Note :** \* : ships of 1000 gt and over. Ro-Ro cargo with general cargo instead of passenger ships.

3.6.14

3.6.14

### Air : Number of Civil Aircraft in Service : Passenger

October 2004

	Passenger aircraft				Total
	50 seats or less	51 to 150 seats	151 to 250 seats	251 seats and more	
BE	12	40	18	4	74
CZ	13	32	14	0	59
DK*	32	27	17	3	79
DE	129	248	172	95	644
EE	4	9	0	0	13
EL	16	41	7	7	71
ES	53	162	152	26	393
FR	112	133	107	87	439
IE	5	46	77	7	135
IT	36	134	148	22	340
CY	0	3	14	2	19
LV	11	10	1	0	22
LT	15	6	0	0	21
LU	12	5	0	0	17
HU	7	22	12	0	41
MT	5	9	5	0	19
NL	37	72	53	27	189
AT	43	40	20	15	118
PL	30	28	8	0	66
PT	15	30	31	9	85
SI	7	0	3	0	10
SK	14	9	5	0	28
FI	6	45	18	6	75
SE*	65	17	21	2	105
UK	128	299	236	162	825
<b>EU25</b>	<b>807</b>	<b>1467</b>	<b>1139</b>	<b>474</b>	<b>3887</b>
<b>EU15</b>	<b>701</b>	<b>1339</b>	<b>1077</b>	<b>472</b>	<b>3589</b>

Source : Airclaims

**Notes:**

\* : includes those SAS passenger aircraft registered in Denmark and Sweden respectively, for which the operator country is "multi-national".

More than 30000 small private planes not included.

3.6.15

3.6.15

### Air : Number of Civil Aircraft in Service : Freight, Special, Business

October 2004

	Freight / Cargo		Quick-change convertible	Special purpose / Ambulance	Business / Corporate / Executive
	under 100 000lbs mtow	over 100 000lbs mtow			
BE	12	33	0	2	22
CZ	3	0	0	0	4
DK	1	4	8	1	39
DE	17	20	5	12	220
EE	4	0	0	0	1
EL	5	1	0	0	12
ES	37	11	9	0	49
FR	6	15	18	3	91
IE	5	4	1	0	9
IT	11	1	1	0	101
CY	0	0	0	0	6
LV	7	0	0	0	4
LT	5	0	1	0	4
LU	3	13	0	1	36
HU	8	2	2	1	1
MT	0	0	0	0	1
NL	1	10	4	0	20
AT	1	2	0	3	82
PL	8	0	1	1	1
PT	0	0	4	1	64
SI	1	0	0	0	3
SK	0	0	0	0	0
FI	0	0	1	2	10
SE	18	0	10	1	30
UK	32	42	14	4	170
<b>EU25</b>	<b>185</b>	<b>158</b>	<b>79</b>	<b>32</b>	<b>980</b>
<b>EU15</b>	<b>149</b>	<b>156</b>	<b>75</b>	<b>30</b>	<b>955</b>

Source : Airclaims

**Note:**

Special purpose / Ambulance contains data about Hospital / Ambulance / Medevac and Special Role / Operations / Mission aircraft.

## **Part 3 : TRANSPORT**

### **Chapter 3.7 : Safety**

## Road Fatalities

## Number of persons killed

	1970	1980	1990	2000	2002	2003
<b>BE</b>	2 950	2 396	1 976	1 470	1 315	
<b>CZ</b>				1 486	1 431	1 447
<b>DK</b>	1 208	690	634	498	463	432
<b>DE</b>	21 332	15 050	11 046	7 503	6 842	6 613
<b>EE</b>				204	224	164
<b>EL</b>	1 099	1 445	2 050	2 037	1 654	1 615
<b>ES</b>	5 456	6 522	9 032	5 777	5 347	5 394
<b>FR</b>	16 448	13 672	11 215	8 079	7 655	6 058
<b>IE</b>	540	564	478	418	376	339
<b>IT</b>	11 004	9 220	7 137	6 649	6 736	6 015
<b>CY</b>				111	94	97
<b>LV</b>				588	518	493
<b>LT</b>				641	697	709
<b>LU</b>	132	98	71	76	62	53
<b>HU</b>				1 200	1 429	1 326
<b>MT</b>				15	16	16
<b>NL</b>	3 181	1 997	1 376	1 082	987	1 028
<b>AT</b>	2 507	2 003	1 558	976	956	931
<b>PL</b>				6 294	5 827	5 640
<b>PT</b>	1 842	2 941	3 017	1 877	1 655	1 546
<b>SI</b>				313	269	242
<b>SK</b>				628	610	
<b>FI</b>	1 055	551	649	396	415	379
<b>SE</b>	1 307	848	772	591	560	529
<b>UK</b>	7 770	6 240	5 402	3 580	3 581	3 658
<b>EU25</b>				52 489	49 719	
<b>EU15</b>	77 831	64 237	56 413	41 009	38 604	
<b>BG</b>			1 567	1 012	1 011	959
<b>HR</b>			1 360	655	647	627
<b>RO</b>			3 782	2 499	2 461	2 398
<b>TR</b>			6 286	5 510	4 386	4 093
<b>IS</b>			24	32	29	23
<b>NO</b>			332	341	275	310
<b>CH</b>			954	592	544	513

**Source:** From 1991: CARE / Energy and Transport DG, UN-ECE, national statistics.

Up to 1990: IRTAD(OECD)

**Notes:** Persons killed are all persons deceased within 30 days of the accident.

Corrective factors are applied to the figures from the Member States not currently using this definition:

**France** (6 days): 1.09 up to 1993, 1.057 from 1994; **Italy** (7 days): 1.078; **Portugal** (1 day): 1.3

Corrective factors applied to some previous figures:

**Greece** : 1.18 (up to 1995); **Spain** : 1.3 (up to 1992); **Austria** : 1.12 (up to 1991)



## 3.7.2

## 3.7.2

## Road Fatalities by Type of User

	BE 2001	DK 2002	DE 2002	EL 2001	ES 2002	FR 2002	IE 2002	IT 2002	LU 2002	NL 2002	AT 2003	PT 2002	FI 2002	SE 2002	UK* 2002	EU15
<b>Killed at 30 days</b>	1 486	463	6 842	1 880	5 347	7 655	378	6 736	62	987	931	1 655	415	560	3 431	<b>38 828</b>
<b>driver</b>	1 054	310	5 969	1 131	3 139	5 241	211	4 112	41	731	624	938	280	378	1 975	<b>20 165**</b>
<b>passenger</b>	274	90		411	1 431	1 549	81	1 436	15	159	175	384	95	124	681	<b>6 905**</b>
<b>pedestrian</b>	158	63	873	338	776	866	86	1 188	6	97	132	333	40	58	775	<b>5 789</b>
<b>by type of vehicle:</b>																
<b>car or taxi</b>	899	246	4 005	803	3 117	4 864	202	3 515	52	479	524	712	267	379	1 740	<b>21 804</b>
<b>motor cycle &amp; moped</b>	210	62	1 044	503	784	1 450	44	1 191	0	191	156	357	29	49	609	<b>6 679</b>
<b>bus or coach</b>	9	4		4	15	11	1	13	0	1	0	8	3	5	26	<b>100</b>
<b>pedal cycle</b>	130	52	583	29	96	223	18	364	1	169	56	57	53	42	130	<b>2 003</b>
<b>agricultural tractor</b>	0	0		72	16	20	0	23	0	2	10	30	2	3	1	<b>179</b>
<b>heavy goods vehicle</b>	28	5	244	28	173	132	3	249	3	11	14	18	5	13	63	<b>989</b>
<b>lorry, under 3.5 tonnes</b>	48	29		94	342	80	17			36	28	139	12	8	70	<b>903</b>
<b>other/not specified</b>	162	65	966	347	804	875	93	1 381	6	98	143	334	44	61	792	<b>6 171</b>

Source: CARE / Energy and Transport DG, national statistics

Notes: \*: United Kingdom: not including Northern Ireland

\*\*: total without DE

### Road Accidents

#### Number of accidents involving personal injury

thousand

	1970	1980	1990	2000	2001	2002
BE	76.97	60.76	62.45	49.07	47.44	41.75
CZ				25.45	26.03	26.59
DK	19.78	12.33	9.16	7.35	6.86	7.13
DE	377.61	412.67	389.35	382.95	375.35	362.05
EE			2.10	1.50	1.89	2.16
EL	18.29	18.23	19.61	23.00	19.67	16.85
ES	57.97	67.80	101.51	101.73	100.39	98.43
FR	228.05	248.47	162.57	121.22	116.75	105.47
IE	6.41	5.68	6.07	7.76	6.91	6.63
IT	173.13	163.77	161.78	211.94	235.14	237.81
CY			3.17	2.41	2.39	2.37
LV			4.33	4.48	4.77	5.08
LT			5.14	5.81	5.97	6.09
LU	1.61	1.58	1.22	0.91	0.77	0.77
HU		18.99	27.80	17.49	18.51	19.69
MT			0.48	1.18	1.23	1.31
NL	58.88	49.38	44.89	37.95	35.31	33.54
AT	51.63	46.21	46.34	42.13	43.07	43.18
PL		40.37	50.53	57.33	53.80	53.56
PT	22.66	33.89	45.11	44.16	42.52	42.22
SI					9.20	10.27
SK					8.18	7.87
FI	11.44	6.79	10.18	6.63	6.45	6.20
SE	16.64	15.23	16.98	15.77	15.80	16.95
UK	267.46	257.28	265.60	233.73	229.01	221.75
<b>EU25</b>					<b>1413.41</b>	<b>1375.70</b>
<b>EU15</b>	<b>1388.52</b>	<b>1400.09</b>	<b>1342.80</b>	<b>1286.28</b>	<b>1281.45</b>	<b>1240.72</b>
BG			6.48	6.89	6.71	6.77
HR			14.47	14.43	15.66	17.07
RO			9.71	7.56	7.24	7.05
TR			55.77	75.20	66.24	65.75
IS			0.58	1.00	0.86	
NO			8.80	8.44	8.24	8.72
CH			23.83	23.74	23.90	23.65

**Source :** United Nations (Statistics of road traffic accidents), national sources

**Notes :** definition of an accident involving personal injury differs from country to country

**CS :** 1980: 18.33; 1990: 21.91

### Railway Fatalities

Number of railway passengers killed in accidents involving railways

	1970	1980	1990	1996	2000	2002	2003
BE	3	4	0	6	3	0	4
CZ				2	1	4	2
DK	7	3	1	0	3	2	0
DE	151	74	50	25	38	26	23
EE							
EL	1	1	0	0	20	4	
ES	17	17	4	0	0	3	16
FR	54	33	30	14	15	24	7
IE	0	16	1	0	2	1	
IT	41	48	9	14	8	17	9
CY	-	-	-	-	-	-	-
LV							
LT							
LU	0	1	0	0	0	0	0
HU			33	11	11	12	9
MT	-	-	-	-	-	-	-
NL	10	8	2	1		0	0
AT	26	9	6	3	4	13	7
PL	20		21	0	20	16	11
PT	19	29	22	10	2	8	15
SI				0	0	1	1
SK				0	0	2	2
FI	5	4	0	3	2	0	0
SE	6	25	3	0	0	0	
UK	41	46	37	17	20	23	10
<b>EU25</b>							
<b>EU15</b>	<b>381</b>	<b>318</b>	<b>165</b>	<b>93</b>	<b>117</b>	<b>121</b>	<b>91</b>
BG				0		0	
HR							
RO				0	0	4	0
TR	7	44	17	12	9	7	8
IS	-	-	-	-	-	-	-
NO	1	1	4	0	32	0	
CH	13	7	8	14	2	4	9

Source : Union Internationale des Chemins de Fer, national statistics

Note: DE : includes DE-E : 1970=5, 1980=5, 1990=5

## Air and Sea Fatalities

### Victims in aviation accidents

	Over EU-25 territory by any operator	By EU-25 operators anywhere
1970-79	2 841	2 883
1980-89	2 416	1 366
1990-99	574	549
1996	50	58
1997	76	30
1998	37	66
1999	53	80
2000	122	122
2001	125	18
2002	101	25
2003	12	12

Source : Airclaims

Note: onboard fatalities only

### Lives lost at sea

throughout the world, by type of ship

Type of ship	1996	1998	1999	2000	2001	2002	2003
Oil and oil products	10	7	7	11	26	2	5
Bulk dry cargo	50	111	3	20	65	5	
General cargo	172	158	257	107	118	82	130
Passenger / general cargo	0	0	0	0	0	0	11
RoRo cargo	1	2	0	0	43	2	7
Passenger / RoRo cargo	342	150	0	90	0	1119	15
Passenger	4	40	74	0	0	1	0
other	131	98	98	144	54	62	29
Total	710	566	439	372	306	1273	197

Source : Lloyd's Register : World Casualty Statistics

## Oil Spills at Sea

### Number of oil spills, total amount spilt

Period	Number of 7 to 700 tonnes	Number over 700 tonnes	tonnes of oil spilt
1970-1979 ) avge	53	24	313 000
1980-1989 ) per	35	9	108 000
1990-1999 ) year	27	7	110 000
2000	18	3	12 000
2001	16	3	8 000
2002	12	3	81 000
2003	15	4	42 000

Source : International Tanker Owners Pollution Federation Ltd.

### Selected major oil spills

#### World outside Europe

Shipname	Year	Location	Oil lost (t)
Atlantic Empress	1979	off Tobago, West Indies	287 000
ABT Summer	1991	700 miles off Angola	260 000
Castillo de Bellver	1983	off Saldanha Bay, South Africa	252 000
Odyssey	1988	700 miles off Nova Scotia, Canada	132 000
Sea Star	1972	Gulf of Oman	115 000
Hawaiian Patriot	1977	300 miles off Honolulu	95 000
:	:	:	:
Exxon Valdez	1989	Prince William Sound, Alaska	37 000

#### Europe

Shipname	Year	Location	Oil lost (t)
Amoco Cadiz	1978	off Brittany, France	223 000
Haven	1991	Genoa, Italy	144 000
Torrey Canyon	1967	Scilly Isles, United Kingdom	119 000
Irenes Serenade	1980	Navarino Bay, Greece	100 000
Urquiola	1976	La Coruna, Spain	100 000
Independenta	1979	Bosphorus, Turkey	95 000
Jakob Maersk	1975	Oporto, Portugal	88 000
Braer	1993	Shetland Islands, United Kingdom	85 000
Prestige	2002	Cape Finistere, Spain	77 000*
Aegean Sea	1992	La Coruna, Spain	74 000
Sea Empress	1996	Milford Haven, United Kingdom	72 000
:	:	:	:
Erika	1999	Brittany, France	20 000

Source : International Tanker Owners Pollution Federation Ltd.

Note: \*: amount in the hold

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