

the **dme**

Department
Minerals and Energy
REPUBLIC OF SOUTHAFRICA

DIGEST OF SOUTH AFRICAN ENERGY STATISTICS

2006

Directorate: Energy Planning and Development



DEPARTMENT: MINERALS AND ENERGY REPUBLIC OF SOUTH AFRICA

Directorate: Energy Planning and Development

DIGEST OF

SOUTH AFRICAN

ENERGY STATISTICS

2006

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FOREWORD

Basic energy information is vital to provide a reliable picture of the energy situation in South Africa especially with the liberalisation and transformation of our minerals and energy sectors in South Africa.

As far back as 1992 the DME initiated the collection of energy statistics in order to develop an Energy Balance for South Africa. The Energy Balance presents an overview of the energy flows for a specific time period. It shows, inter alia, the production, transformation and final consumption of all forms of energy for a given geographical area and a given period of time, with quantities expressed in terms of a single accounting unit for purposes of comparison and aggregation.

It gives me pleasure to introduce the fourth issue of the *Digest of South African Energy Statistics*, 2006.

The digest is published by the Directorate: Energy Planning and Development, formerly known as Database and Administration. The Directorate is responsible for the collection, analysis of energy statistics and the compilation of Energy Balances.

However a number of challenges face the Department of Minerals and Energy in terms of the collection, verification and publication of energy statistics. These relate to the fact that the supply of energy data is voluntary, capacity constraints, different formats for collecting data etc. To address some of these issues the DME will be making the provision of energy data mandatory through the Energy Bill, developing a methodology manual for the collection of energy data and establishing an Energy Advisory Statistics Committee to review and verify the data.

The *Digest* is now published bi-annually instead of tri-annually, as was the case in the past. This is to ensure that readers get updated information in

time. This age, our age is referred to as the information age. This means that

without reliable and updated information we are unable to make informed and

accurate decisions. It is for this reason that the Department of Minerals and

Energy has deemed it necessary to increase the frequency of publication.

Energy is often referred to as one of the drivers of development. Therefore

investors and policy makers need information on various aspects of energy in

order to plan. This publication carries such information. We have tried and I

hope managed to compile statistics of our various energy resources, energy

supply as well as demand. It is my belief that, this will contribute towards

lowering the cost of doing business in the country, hence making South Africa

an attractive destination for investment.

As a Department we seek to continually improve energy governance and

provide the necessary infrastructure for the integrated energy planning. This

Digest forms part of this effort and I hope it will become a standard work of

reference among energy professionals in South Africa and abroad.

Finally, I would like to thank and congratulate all the staff in the Directorate:

Energy Planning and Development for the hard and successful work that went

into the compilation of this publication.

Advocate Sandile Nogxina

Director-General

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Introduction

The challenges presented by data collection are legend among statisticians. This publication has faced its own challenges in this regard. It has been necessary to meld together data collected by two different organizations and by the Department of Minerals and Energy itself during the period 1992 to 2002. Although all organisations used supply side figures (i.e. sales data) to measure energy consumption, they used slightly different data collection methodologies. They also used different assumptions when deciding how to allocate energy consumption to different sectors. This last is a problem particularly associated with using supply side data to measure energy consumption. The result is that for example certain of the time series might not be as smooth as expected. In particular, estimates for the use of biomass as a source of primary energy, can vary greatly, depending on assumptions made. These factors should be taken into account when interpreting the data in this publication.

Section 1

Overview

South Africa has a well-developed energy supply and production system. The country is well endowed with large resources of coal. Natural gas and crude oil production is very limited and consequently the bulk of our crude oil is imported. Uranium reserves are large. Renewable energy plays a limited but plays a significant role, particularly large hydroelectric power generation. However the country generally has a low rainfall, which limits the exploitation of this form of energy. South Africa's abundant sunshine is only beginning to be tapped in more remote areas for electricity generation for domestic and institutional application. Wind energy is a potential source of commercial energy in some parts, but like other renewable energy technologies it struggles to match the lower costs basis of conventional energy, in particular our cheap coal. With the setting of renewable energy targets and with carbon trading under the Kyoto protocol, the role of renewable energy is expected to expand.

Primary Energy Supply

The South African energy sector is dominated by coal (see the graph below), which is abundant and relatively cheap by international standards.

Most of South Africa's liquid fuel requirements are imported in the form of crude oil. Approximately 35% is sourced from coal through Sasol and 100% of the natural gas production from PetroSA is converted into liquid fuels, supplying about 7% of liquid fuel requirements.

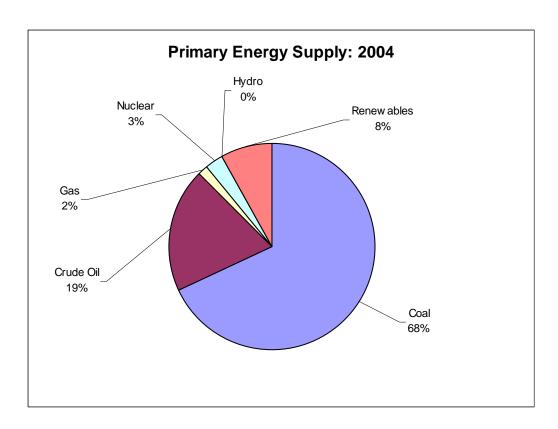
Renewable energy comprises biomass and natural processes that are replenished and can be used as an energy source. Biomass is used

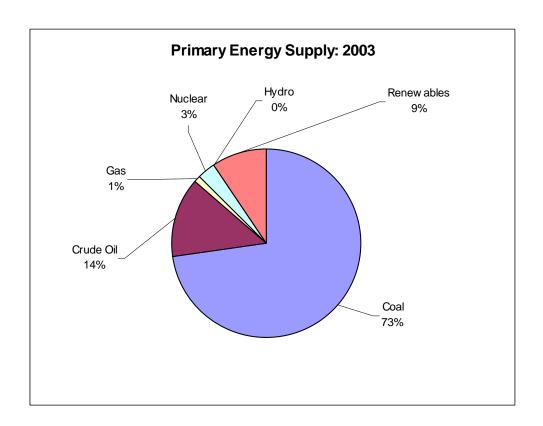
commercially in the pulp and paper mills and sugar refineries by burning bulk from logs, black liquor and bagasse to produce process heat. The energy produced is used by the industries concerned to meet their needs. In future, some of this energy could be sold to the national grid (depending on electricity prices and environmental regulations). However, given the limited potential for agricultural expansion (lack of water and arable land), it is unlikely that this would be a major contribution.

In households, biomass is used for cooking and heating. It is very difficult to get an estimate of the total biomass reserves. Biomass is estimated to comprise 8% of South Africa's primary energy supply.

Total Primary Energy Supply - TJ

	2003	%	2004	%
Coal	3,277,600	72.7%	3,573,343	68.2%
Crude Oil	615,689	13.7%	1,016,664	19.4%
Gas	50,218	1.1%	84,152	1.6%
Nuclear	138,142	3.1%	145,801	2.8%
Hydro	2,890	0.1%	2,890	0.1%
Renewables	422,979	9.4%	418,058	8.0%
TOTAL	4,507,518		5,240,908	





Total Primary Energy Supply - TJ

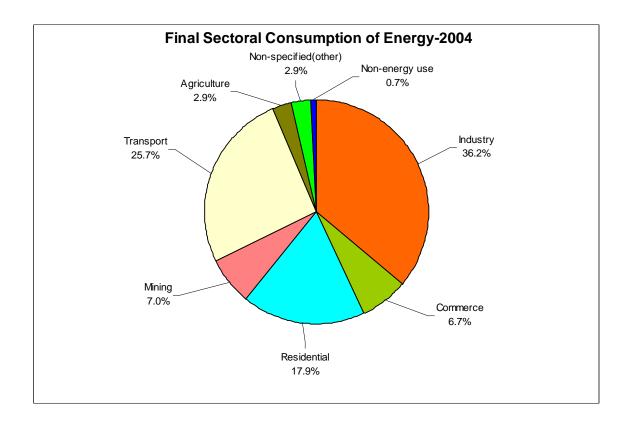
	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Coal	2,990,691	3,028,745	3,117,230	3,243,737	3,299,787	3,370,254	3,268,198	3,413,499	3,425,725	3,065,619	2,961,026	3,277,600	3,573,343
Crude Oil	414,946	334,047	428,321	459,980	376,059	450,863	933,682	764,067	420,746	452,895	1,018,769	615,689	1,016,664
Gas	11,969	71,814	71,814	71,814	71,814	71,814	53,983	70,628	65,024	84,478	83,764	50,218	84,152
Nuclear	101,324	79,145	105,785	123,284	128,455	137,967	148,375	140,040	141,927	116,935	130,811	138,142	145,801
Hydro	2,707	526	3,866	1,904	4,748	7,531	5,742	2,614	4,835	7,420	8,485	2,890	2,890
Renewables	414,000	419,000	433,432	408,739	408,739	408,739	237,400	237,400	237,400	237,400	426,467	422,979	418,058
TOTAL	3,935,637	3,933,277	4,160,448	4,309,458	4,289,602	4,447,168	4,647,379	4,628,248	4,295,657	3,964,746	4,629,322	4,507,518	5,240,908

Final Sectoral Consumption

The three major energy-consuming sectors are industry, residential and transport. In 2002 they accounted together for 80,4% whilst in 2003 and 2004 they accounted for 79,4% and 79,6% respectively of final energy demand. This shows a decrease of energy consumption from these three major energy – consuming sectors combined together of 1% in 2003 and 0.6% in 2004. The value for residential is boosted by the inclusion of estimated biomass consumption figures. The category "non-energy use" is for energy carriers such as petroleum product solvents, lubricants and bitumen, which are not utilised for their energy properties.

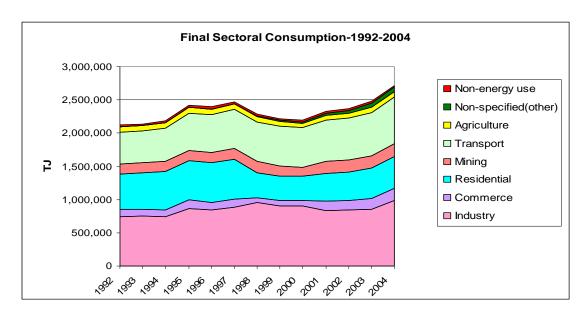
Final Sectoral Consumption of Energy-TJ

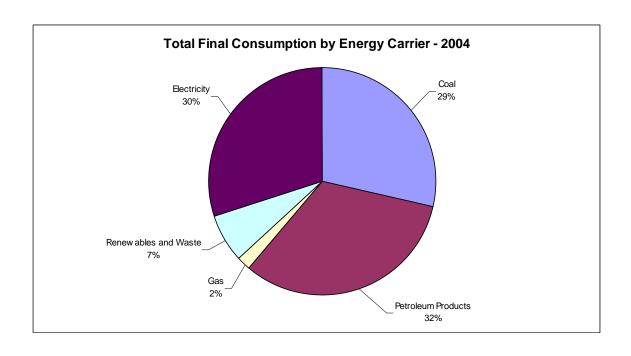
Sector	2003	%	2004	%
Industry	854,793	34.5%	983,167	36.2%
Commerce	162,272	6.5%	183,359	6.7%
Residential	455,733	18.4%	485,692	17.9%
Mining	180,699	7.3%	190,274	7.0%
Transport	656,520	26.5%	698,552	25.7%
Agriculture	74,998	3.0%	77,988	2.9%
Non-specified(other)	64,574	2.6%	78,830	2.9%
Non-energy use	31,000	1.2%	20,000	0.7%
Total	2,480,589		2,717,860	



Final Sectoral Consumption of Energy-TJ

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Industry	745,401	749,869	745,633	867,356	848,516	886,831	951,810	900,717	906,785	837,675	839,654	854,793	983,167
Commerce	111,089	102,935	97,082	124,281	107,321	118,429	76,022	85,140	82,975	134,447	143,556	162,272	183,359
Residential	530,249	553,865	584,484	593,359	596,938	603,557	376,504	369,078	360,467	419,903	425,379	455,733	485,692
Mining	153,207	144,908	145,981	154,043	159,369	164,098	166,934	145,386	130,759	183,744	183,795	180,699	190,274
Transport	475,345	484,636	502,798	563,367	564,195	583,569	599,766	605,790	603,985	620,916	636,332	656,520	698,552
Agriculture	77,708	74,892	83,446	85,380	87,661	84,456	79,387	74,832	64,109	70,003	72,904	74,998	77,988
Non-specified(other)	0	0	0	0	0	0	11,979	11,111	21,911	32,033	34,583	64,574	78,830
Non-energy use	28,938	26,983	29,109	28,357	31,600	29,828	26,100	24,740	22,352	29,721	31,687	31,000	20,000
Total	2,121,937	2,138,087	2,188,534	2,416,142	2,395,599	2,470,770	2,288,502	2,216,793	2,193,342	2,328,443	2,367,889	2,480,589	2,717,860





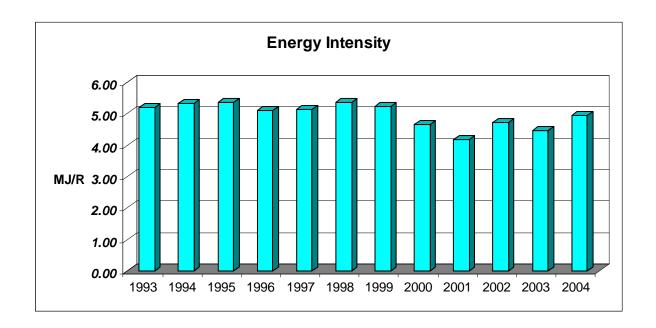
Energy Intensity

South Africa's economic growth as measured by the growth in Gross Domestic Product (GDP) was 39,9% for the period 1993 to 2004. The Total Primary Energy Supply for these years increased from 3 933PJ in 1993 to 5 241PJ in 2004, an increase of 33,6%. This resulted in the energy intensity for the individual years depicted in the following table and graph.

Year	GDP at market prices	Primary Energy Supply TJ	Intensity MJ/R
1993	755,009	3,924,315	5.20
1994	779,424	4,150,999	5.33
1995	803,710	4,299,195	5.35
1996	838,326	4,269,622	5.09
1997	860,516	4,423,365	5.14
1998	864,968	4,639,614	5.36
1999	885,365	4,636,914	5.24
2000	922,151	4,298,220	4.66
2001	947,373	3,972,681	4.19
2002	982,327	4,637,437	4.72
2003	1,011,556	4,507,518	4.46
2004	1,056,771	5,240,908	4.96

Sources: National Energy Balances

Stats SA Quartely GDP by industry at constant 2000 prices (R million)



Section 2

Energy Balances

The energy balance is a useful way to present an overview of the energy flows for a specific time period. A balance shows, in a consistent accounting framework, the production, transformation and final consumption of all forms of energy for a given geographical area and a given period of time, with quantities expressed in terms of a single accounting unit for purposes of comparison and aggregation. The format enjoying international recognition is that developed by the International Energy Agency (IEA). Energy balances in this format for 2003 and 2004 for South Africa using the terajoule (TJ) as accounting unit are presented on the following pages.

Interested readers are referred to the IEA for details on the methodologies and conventions used in balance format (Internet site at: http://www.iea.org).

	RSA 2003	(Version	12)		
(TJ)	Coal	Crude Oil	Petroleum	Gas	Nuclear
Indigenous Production	5,282,380.82	191,521.20	Products	50,217.88	138,141.82
Import	49,170.90	732,329.61	41,398.03	-	100,141.02
Export	-2,004,605.75	-18.72	-237,987.34	-	- [
Intl. Marine Bunkers	-	-	-111,553.57	-	-,
Stock Changes Total Primary Energy Supply	-49,345.55 3,277,600.42	923,832.10	-308,142.87	50,217.88	138,141.82
Total Filmary Energy Supply	3,277,000.42	923,032.10	-300, 142.07	30,217.00	130,141.02
Transfers	-	-	-	-	-
Statistical Differences	514,436.97	-186,377.16	31,000.40	-0.00	-
Public Electricity Plant	-2,132,681.65				-138,141.82
Autoproducer Electricity Plant	-82,036.05	-	-	-	-130,141.02
Public CHP Plant	-	-	-	-	-
Autoproducer CHP Plant	-	-	-	-	-,
Public Heat Plant Autoproducer Heat Plant		-	-	-	
Heat pumps	-	-	-	-	
Electric boilers	-	-	-	-	-
Gas Works	-		-	48,844.39	-,
Oil Refineries Coal Transformation	- -11,524.03	-737,454.93	1,127,950.32	-	
Liquefaction	-862,100.47	-	_	-50,217.88	
Non-specified (Transformation)	-	-	-	-	-
Own Use	-	-	-	-	-
Distribution Losses			_		
Distribution Losses	·	-	-	•	-,
Total Final Consumption	703,695.19		850,807.85	48,844.39	-
Industry Sector	545,087.53	_	47,133.60	48,749.09	
Iron and Steel	185,466.05	-	-	26,146.99	-
Chemical and Petrochemical	136,842.56	-	-	7,701.16	-]
Memo: Feedst. Use In Petchem. Ind.	136,058.51	-	-	-	
Non-Ferrous Metals Non-Metallic Minerals	46,072.96	-	-	- 4,740.41	
Transport Equipment	-	-	-	-	-
Machinery	-	-	-	2,184.17	-]
Mining and Quarrying	36,834.87	-	30,673.42	2,333.91	-,
Food and Tobacco Paper Pulp and Print	-	-	-	1,115.94 2,511.11	
Wood and Wood Products	-	-	-	-	-
Construction	-	-	16,460.18	-	-]
Textile and Leather Non-specified (Industry)	- 139,871.09	-	-	2,015.39	
Non-specified (industry)	139,071.09			2,013.39	
Transport Sector	-	-	636,485.90	-	-
International Civil Aviation	-	-	36,883.85	-	-,
Domestic Air Transport Road	-	-	35,400.04 555,291.75	-	
Rail		-	8,910.26	-	
Pipeline Transport	-	-	· -	-	-
Internal Navigation	-	-	-	-	-,
Non-specified (Transport)	-	-	-		
Other Sectors	158,607.66	-	136,187.95	95.30	-
Agriculture	3,321.83	-	53,161.58	-	-
Commerce and Public Services	52,258.60	-	34,061.57	95.30	-,
Residential Non-specified (Other)	103,027.23	-	39,637.20 9,327.60	-	
Non opcomed (exici)			0,027.00		
Non-Energy Use	-	-	31,000.40	-	-
Memo:Non-Energy Use Ind/Transf/Ener	-	-	31,000.40	-	-,
Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Oth. Sect		-	-	-	
Momentum Energy Coo III Citi. Cook	1				
	· '	1	ı		
Elect Output public close plant	202,464	-	-	4	12,663
Elect.Output-public elec. plant Elect.Output-autoprod. elec. plant	194,046 8,418	-	-	0 4	12,663
Elect.Output-public CHP plant	-	-	-	-	-
Elect.Output-autoprod. CHP plant	-	-	-	-	-
Heat Output public CUD.					
Heat Output-public CHP plant Heat Output-autoproducer CHP plant		-	-	-	-
Heat Output-public heat plant	-	-	-	-	-
		-	-	-	-
Heat Output-autoprod. heat plant Heat Output in TJ					

	RSA 2	2003 (Ve	rsion 2)			
(TJ)	Hydro	Geothermal Solar etc	Renewables & Waste	Electricity	Heat	Total
Indigenous Production	2,889.67	2,031.22	428,396.00	-	-	6,095,578.62
Import	-	-	-	29,498.40	-	852,396.94
Export Intl. Marine Bunkers	-	-	-	-36,946.80	-	-2,279,558.60 -111,553.57
Stock Changes	-	-	-	-	_	-49,345.55
Total Primary Energy Supply	2,889.67	2,031.22	428,396.00	-7,448.40		4,507,517.84
Transfers Statistical Differences	-	-	-	4,551.95	-	363,612.14
Public Electricity Plant	-1,813.10	-2,031.22	_	747,999.71	-	-1,526,668.08
Autoproducer Electricity Plant	-1,076.58	-	-	31,394.10	-	-51,718.52
Public CHP Plant	-	-		-	-	-
Autoproducer CHP Plant Public Heat Plant	-		-237,996.00	933.54	-	-237,062.46
Autoproducer Heat Plant	_	_	-	-	_	-
Heat pumps	-	-	-	-	-	-
Electric boilers	-	-	-	-	-	-
Gas Works Oil Refineries	-	-	-	- 25 152 22	-	48,844.39 365,342.07
Coal Transformation	-	-	-	-25,153.32	-	-11,524.03
Liquefaction	-	-	-	-	-	-912,318.35
Non-specified (Transformation)	-	-	-	-	-	-
Own Use	-	-	-	-14,460.02	-	-14,460.02 -
Distribution Losses	-	-	-	-50,976.00	-	-50,976.00
Total Final Consumption	-	-	190,400.00	686,841.56	-	2,480,588.98
Industry Sector	-	-	-	394,521.36	-	1,035,491.58
Iron and Steel	-	-	-	80,392.22	-	292,005.26
Chemical and Petrochemical Memo: Feedst. Use In Petchem. Ind.	-	-	-	33,980.12	-	178,523.85 136,058.51
Non-Ferrous Metals	_	-	-	58,529.78	-	58,529.78
Non-Metallic Minerals	-	-	-	8,205.74	-	59,019.10
Transport Equipment	-	-	-	342.91	-	342.91
Machinery Mining and Quarting	-	-	-	152.54	-	2,336.71
Mining and Quarrying Food and Tobacco	-	-	-	110,856.52 2,572.26	-	180,698.72 3,688.19
Paper Pulp and Print	_	-	-	5,265.39	_	7,776.51
Wood and Wood Products	-	-	-	974.49	-	974.49
Construction	-	-	-	479.02	-	16,939.20
Textile and Leather Non-specified (Industry)	-	-	-	1,879.62	-	1,879.62
Non-specified (industry)	-	-	-	90,890.74	-	232,777.22
Transport Sector	-	-	-	20,034.04	-	656,519.94
International Civil Aviation	-	-	-		-	36,883.85
Domestic Air Transport Road	-	-	-	153.56 71.50	-	35,553.60
Rail	_	-	-	11,756.88	-	555,363.25 20,667.14
Pipeline Transport	-	-	-	277.87	-	277.87
Internal Navigation	-	-	-	177.77	-	177.77
Non-specified (Transport)			-	7,596.47	-	7,596.47
Other Sectors	-	-	190,400.00	272,286.16	-	757,577.07
Agriculture	-	-	-	18,514.50	-	74,997.92
Commerce and Public Services Residential	-	-	190,400.00	75,856.24 122,668.53	-	162,271.71 455,732.96
Non-specified (Other)	-	-	-	55,246.88	-	64,574.48
Non-Energy Use	-	-	-	_	_	31,000.40
Memo:Non-Energy Use Ind/Transf/Ener	-	-	-	-	-	31,000.40
Memo:Non-Energy Use in Transport	-	-	-	-	-	-
Memo:Non-Energy Use in Oth. Sect	-	-	-	-	-	-
Float Output in CW/h	000	504	050	1		040.750
Elect.Output in GWh Elect.Output-public elec. plant	803 504	564 564	259	-	-	216,758 207,778
Elect.Output-autoprod. elec. plant	299	-	-	-	-	8,721
Elect.Output-public CHP plant	-	-	-	-	-	-,
Elect.Output-autoprod. CHP plant	-	-	259	-	-	259
Light Output public CLID alast		-				
Heat Output-public CHP plant Heat Output-autoproducer CHP plant	-	-	-	-	-	-
Heat Output-public heat plant	_	-	-	-	-	-
Heat Output-autoprod. heat plant	-	-	-	-	-	-
Heat Output in TJ	-	3,159.68	-		-	-

	RSA 2004	4 (Version	1)		
(TJ)	Coal	Crude Oil	Petroleum Products	Gas	Nuclear
Indigenous Production	5,372,630.01	206,291.98	-	77,171.78	145,801.34
Import	52,105.61	1,006,340.73	82,674.73	6,980.54	-,
Export Intl. Marine Bunkers	-1,905,254.08	-25.24	-178,000.87 -100,616.85	-	
Stock Changes	53,861.05	-	-100,010.03	_	
Total Primary Energy Supply	3,573,342.58	1,212,607.47	-195,942.99	84,152.32	145,801.34
Transfers Statistical Differences	- 467,623.74	-198,047.85	20,000.10	0.00	
Public Electricity Plant	-2,295,836.31	-	_	_	-145,801.34
Autoproducer Electricity Plant	-64,333.72	-	-	-	-
Public CHP Plant	-	-	-	-	-,
Autoproducer CHP Plant Public Heat Plant	-	-	-	-	
Autoproducer Heat Plant	_	-	-	-	
Heat pumps	-	-	-	-	-
Electric boilers	-	-	-	-	-
Gas Works	-	4 044 550 00	4 050 000 40	43,690.10	-,
Oil Refineries Coal Transformation	- -8,462.76	-1,014,559.62	1,058,263.49	-	
Liquefaction	-894,103.63	-	-	-77,171.78	_
Non-specified (Transformation)	-	-	-	-	-
Own Use	-	-	-	-	=
Distribution Losses	-	-	-	-	-:
Total Final Consumption	778,229.90	•	882,320.60	50,670.64	-
Industry Sector	592,703.14	_	46,590.71	50,360.78	_
Iron and Steel	207,160.37	-	-	22,835.94	-
Chemical and Petrochemical	109,296.91	-	-	9,108.99	-
Memo: Feedst.Use In Petchem.Ind.	109,296.91	-	-	-	
Non-Ferrous Metals Non-Metallic Minerals	- 53,297.21	-	-	6,151.16	
Transport Equipment	-	-	-	0,131.10	
Machinery	-	-	-	1,917.37	-
Mining and Quarrying	38,986.75	-	30,795.21	2,312.14	-
Food and Tobacco	-	-	-	924.09	-,
Paper Pulp and Print Wood and Wood Products	-	-	-	2,251.43	
Construction	-	-	15,795.51	-	-
Textile and Leather	-	-	-	-	-
Non-specified (Industry)	183,961.90	-	-	4,859.66	-,
Transport Sector	_	_	675,862.58	_	
International Civil Aviation	-	_	32,419.70	-	-
Domestic Air Transport	-	-	39,567.18	-	-
Road	-	-	596,002.80	-	-,
Rail Pipeline Transport	-	-	7,872.90	-	-,
Internal Navigation	-	-	-	-	
Non-specified (Transport)	-	-	-		
Other Contains	405 500 51		400.00= 0:	000 00	
Other Sectors Agriculture	185,526.76 3,154.55	-	139,867.21 52,660.76	309.86	
Commerce and Public Services	60,790.73	-	32,294.99	309.86	
Residential	121,581.47	-	43,278.05	-	-
Non-specified (Other)	-	-	11,633.40	-	
Non-Energy Use	_	_	20,000.10	_	
Memo:Non-Energy Use Ind/Transf/Ener	-	_	20,000.10	-	-
Memo:Non-Energy Use in Transport	-	-	· -	-	-
Memo:Non-Energy Use in Oth. Sect	-	-	-	-	
	1	I	I		
Elect.Output in GWh	212,406	-	-	3	13,365
Elect.Output-public elec. plant	203,565	-	-	0	13,365
Elect Output-public CHP plant	8,841	-	-	3	
Elect.Output-public CHP plant Elect.Output-autoprod. CHP plant		-	-	-	-
Heat Output-public CHP plant	-	-	-	-	-
Heat Output-autoproducer CHP plant Heat Output-public heat plant		-	-	-	-,
Heat Output-autoprod. heat plant		-	-	-	-
Heat Output in TJ	-	-	-	-	-

	RSA 2	2004 (Ve	rsion 1)			
(TJ)	Hydro	Geothermal	Renewables	Electricity	Heat	Total
Indigenous Production	2,889.67	Solar etc 2,031.22	& Waste 428,396.00			6,235,212.01
Import	2,009.07	2,031.22	426,396.00	35,344.80	-	1,183,446.41
Export	-	-	-	-47,714.40	_	-2,130,994.59
Intl. Marine Bunkers	-	-	-	-	-	-100,616.85
Stock Changes	-	-	-	-	-	53,861.05
Total Primary Energy Supply	2,889.67	2,031.22	428,396.00	-12,369.60	-	5,240,908.02
Transfers	-	-	-	-	_	-
Statistical Differences	-	-	-	72,230.07	-	361,806.06
Bur El Com Bur	0.007.04	0.004.00		705 040 70		4 000 000 40
Public Electricity Plant Autoproducer Electricity Plant	-2,267.24 -622.43	-2,031.22	-	785,246.70 32,461.62	-	-1,660,689.42 -32,494.53
Public CHP Plant	-	-	-	-	-	-
Autoproducer CHP Plant	-	-	-237,996.00	692.41	-	-237,303.59
Public Heat Plant	-	-	-	-	-	-
Autoproducer Heat Plant Heat pumps		-	-	-	-	_
Electric boilers	-	-	-	-	-	-
Gas Works	-	-	-	-	-	43,690.10
Oil Refineries	-	-	-	-27,267.77	-	16,436.10
Coal Transformation Liquefaction		-	-	-	-	-8,462.76 -971,275.41
Non-specified (Transformation)		-	-	-	_	-
Own Use	-	-	-	-15,789.97	-	-15,789.97
Branch and				40.004.00		-
Distribution Losses	-	-	-	-18,964.80	-	-18,964.80
Total Final Consumption	-	-	190,400.00	816,238.67	-	2,717,859.80
Industry Sector	_	_	_	483,785.64	_	1,173,440.28
Iron and Steel		-	-	83,774.92	_	313,771.22
Chemical and Petrochemical	-	-	-	35,600.08	-	154,005.98
Memo: Feedst.Use In Petchem.Ind.	-	-	-	-	-	109,296.91
Non-Ferrous Metals Non-Metallic Minerals		-	-	64,630.01 7,900.81	-	64,630.01 67,349.18
Transport Equipment	-	_	-	304.42	_	304.42
Machinery	-	-	-	153.18	-	2,070.55
Mining and Quarrying	-	-	-	118,179.61	-	190,273.71
Food and Tobacco Paper Pulp and Print		-	-	2,591.71 5,445.11	-	3,515.80 7,696.54
Wood and Wood Products	_	-	-	1,043.82	_	1,043.82
Construction	-	-	-	186.52	-	15,982.02
Textile and Leather	-	-	-	1,890.25	-	1,890.25
Non-specified (Industry)	-	-	-	162,085.22	-	350,906.78
Transport Sector		-	_	22,688.97	_	698,551.55
International Civil Aviation	-	-	-	-	-	32,419.70
Domestic Air Transport	-	-	-	155.16	-	39,722.34
Road Rail		-	-	72.86 11,853.58	-	596,075.67 19,726.47
Pipeline Transport	-	_	-	290.09	_	290.09
Internal Navigation	-	-	-	181.37	-	181.37
Non-specified (Transport)			-	10,135.92	-	10,135.92
Other Sectors		_	190,400.00	309,764.05	_	825,867.87
Agriculture	-	-	-	22,172.21	-	77,987.52
Commerce and Public Services	-	-	-	89,963.04	-	183,358.63
Residential	-	-	190,400.00	130,432.42	-	485,691.94
Non-specified (Other)	-	-	-	67,196.38	-	78,829.78
Non-Energy Use	-	-	-	-	-	20,000.10
Memo:Non-Energy Use Ind/Transf/Ener	-	-	-	-	-	20,000.10
Memo:Non-Energy Use in Transport	-	-	-	-	-	-
Memo:Non-Energy Use in Oth. Sect		-	-	-	1	-
			1	ı	1	
Elect.Output in GWh	803	564	192	-	-	227,334
Elect.Output-public elec. plant	630	564	-	-	-	218,124
Elect.Output-autoprod. elec. plant Elect.Output-public CHP plant	173	-	-	-	-	9,017
Elect.Output-autoprod. CHP plant		-	192	-	-	192
		-				
Heat Output-public CHP plant	-	-	-	-	-	-
Heat Output-autoproducer CHP plant Heat Output-public heat plant		-	-	-	-	-
Heat Output-autoprod. heat plant		-	-	-	-	-
Heat Output in TJ	-	3,159.68	-	-	-	-

Notes

Section 3

National Energy Consumption

The Energy Balances on the previous pages combine in one document all the various fuels as measured in energy units (terajoules). However, it is also of value to have these in the units that the various fuels are normally measured. The following tables provide this information for 2003 and 2004.

			BALANCE -		aggregated					
Supply & Consumption	Hard	Coking	Bituminous	Coke oven	Gasworks	Coke oven	Blast	Solid		Crude + NGLs
	Coal	tons	Coal	tons	Gas TJ	Gas TJ	Furnace Gas TJ	Biomass TJ	Gas TJ	+ Feedstocks tons
Indigenous Production	238,751,013	1,206,105	237,544,908	1,606,781	48,844		0 31,137	428,396	50,218	114,312
From Other Sources	0	0		0	0		0 0	0	0	4,368,897
Import Export	1,586,158 -71,530,492	1,586,158 -583,990		0	0		0 0	0	0	17,166,658 -439
Intl. Marine Bunkers	0	-300,330		0	0		0 0	0	0	0
Stock Changes	-2,234,853	C		0	0		0 0	0	0	0
Domestic Supply	166,571,826	2,208,273	164,363,553	1,606,781	48,844		0 31,137	428,396	50,218	21,649,428
Transfers	0	C	0	0	0		0 0	0	0	0
Statistical Differences	-3,931,083	-775,158	-3,155,925	0	0		0 0	0	0	8,737,795
Transformation Sector Public Electricity Plant	145,124,232 99,704,612	2,468,376		393,214 0	0		0 0 0	237,996 0	50,218 0	12,911,633
Autoproducer Electricity Plant	3,369,037	C		0	0		0 0	0	0	0
Public CHP Plant Autoproducer CHP Plant	0	C		0	0		0 0	237,996	0	0
Public Heat Plant	0	C		0	0		0 0	0	0	0
Autoproducer Heat Plant	0	C		0	0		0 0	0	0	0
Heat pumps	0	C		0			0 0	0	0	0
Electric Boilers Patent Fuel Plants	0	0	-	0	0		0 0	0	0	0
Coke Ovens	2,468,376	2,468,376		0	0		0 0	0	0	0
Gas Works	0	C			0		0 0	0	0	0
For Blast Furnace Gas	0	C		393,214	0		0 0	0	0	0
Petrochemical Industry	0	C		0	0		0 0	0	0	0
For BKB Oil Refineries	0	C		0	0		0 0	0	0	12,911,633
Liquefaction	39,582,207			0	0		0 0	0	50,218	12,911,633
Non-specified (Transformation)	0	Č		0	0		0 0	0	0	0
Energy Sector	0	0	0	0	0		0 0	0	0	0
Coal Mines	0	C		0	0		0 0	0	0	0
Oil and Gas Extraction	0	C	0	0	0		0 0	0	0	0
Patent Fuel Plants	0	C		0	0		0 0	0	0	0
Coke Ovens Gas Works	0	0		0	0		0 0	0	0	0
BKB	0			0	0		0 0	0	0	0
Oil Refineries	0	C		0	0		0 0	0	0	0
Own use in Elec., CHP and Heat plant	0	C		0			0 0	0	0	0
Used for Pump Storage	0	C		0	0		0 0	0	0	0
Nuclear Industry	0	C		0	0		0 0	0	0	0
Non-specified (Energy)	0		0				0 0	0	U	U
Distribution Losses	0	C	0	0	0		0 0	0	0	0
Final Consumption	25,378,677	515,055	24,863,622	1,213,567	48,844		0 31,137	190,400	0	0
Industry Sector	19,476,736	462,723	19,014,013	1,213,567	48,749		0 31,137	0	0	0
Iron and Steel	4,325,208	250,051	4,075,157	1,213,567	26,147		0 31,137	0	0	0
Chemical and Petrochemical	7,000,188	53,631	6,946,557	0	7,701		0 0	0	0	0
Non-Ferrous Metals Non-Metallic Minerals	0	C		0	0 4,740		0 0	0	0	0
									0	
Transport Equipment	1,684,918	101,499		0	0				0	0
Transport Equipment Machinery	0	C	0	0	0 2,184			0	0	0
Machinery Mining and Quarrying	0 0 1,416,308	2,173	0 0 1,414,135	0 0 0	2,184 2,334		0 0 0 0 0 0	0 0 0	0 0 0	0
Machinery Mining and Quarrying Food and Tobacco	0 0 1,416,308 0	2,173 0	0 0 1,414,135	0 0 0	2,184 2,334 1,116		0 0 0 0 0 0 0 0	0 0 0	0 0 0	0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print	0 0 1,416,308 0	2,173 0	0 0 1,414,135 0	0 0 0 0	2,184 2,334 1,116 2,511		0 0 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0
Machinery Mining and Quarrying Food and Tobacco	0 0 1,416,308 0	2,173 0	0 0 1,414,135 0 0	0 0 0	2,184 2,334 1,116		0 0 0 0 0 0 0 0	0 0 0	0 0 0	0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products	0 0 1,416,308 0 0	2,173 0 0 0	0 0 1,414,135 0 0 0	0 0 0 0 0	2,184 2,334 1,116 2,511		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction	0 0 1,416,308 0 0 0	2,173 C C C C	0 0 1,414,135 0 0 0 0	0 0 0 0 0 0	2,184 2,334 1,116 2,511 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry)	0 0 1,416,308 0 0 0 0	2,173 C C C C C C C C C S 55,369	0 0 1,414,135 0 0 0 0 4,994,745	0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation	0 0 1,416,308 0 0 0 0 0 0 5,050,114	C C C C C C C C C C C C C C C C C C C	0 0 1,414,135 0 0 0 0 0 0 4,994,745	0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 2,015		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport	0 0 1,416,308 0 0 0 0 0 0 5,050,114 0 0	2,173 C C C C C C C C S 55,369	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0	0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 2,015 0 0 2,015		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road	0 0 1,416,308 0 0 0 0 0 0 5,050,114 0 0	2,173 C C C C C C C 55,369	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 2,015 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation Domestic Air Transport Road Rail	0 0 1,416,308 0 0 0 0 0 5,050,114	2,173 2,173 0 0 0 0 0 0 55,369	0 0 0 1,414,135 0 0 0 0 4,994,745 0 0 0	0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport	0 0 1,416,308 0 0 0 0 0 0 5,050,114 0 0	2,173 C C C C C C C 55,369	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation Domestic Air Transport Road Rail	0 0 1,416,308 0 0 0 0 0 5,050,114 0 0 0 0	2,173 C C C C C C C 55,369 C C C C C C C C C C C C C C C C C C C	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,1116 2,511 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport)	0 1,416,308 0 0 0 0 0 0 5,050,114 0 0 0 0 0 0	2,173 C C C C C C C C C C C C C C C C C C C	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation	0 0 1,416,308 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,173 2,173 0 0 0 0 0 0 55,369	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,1116 2,511 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internat Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services	0 0 1,416,308 0 0 0 0 0 0 5,050,114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (ITransport) Other Sectors Agriculture Commerce and Public Services Residential	0 0 1,416,308 0 0 0 0 0 5,050,114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services	0 0 1,416,308 0 0 0 0 0 0 5,050,114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use	0 0 1,416,308 0 0 0 0 0 0 5,050,114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 2,015 0 0 0 0 0 0 0 0 95 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo: Non-Energy Use Ind/Transf/Ener	0 0 1,416,308 0 0 0 0 0 0 0 5,050,114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 0,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (ITransport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use Ind/Transf/Ener	0 0 1,416,308 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use Ind/Transf/Ener	0 0 1,416,308 0 0 0 0 0 0 0 5,050,114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Trans/Ener Memo:Non-Energy Use ind/Trans/Ener Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Oth.Sect. Memo:Feedst.Use in Petchem. Ind.	0 0 0 1,416,308 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transl/Ener Memo:Non-Energy Use Ind/Transl/Ener Memo:Non-Energy Use In Transport Memo:Non-Energy Use In Transport Memo:Non-Energy Use In Transport Memo:Non-Energy Use In Cht.Sect. Memo:Peedst.Use in Petchem. Ind. Elect.Output in GWh	0 0 0 1,416,308 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 1,414,135 0 0 0 0 0 4,994,745 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Petchem. Ind. Elect.Output in GWh Elect.Output in GWh Elect.Output in GWh	0 0 1,416,308 0 0 0 0 0 0 5,050,114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Cht.Sect. Memc:Peedst.Use in Petchem. Ind. Elect.Output in GWh	0 0 0 1,416,308 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 0 1,414,135 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transi/Ener Memo:Non-Energy Use ind/Transi/Ener Memo:Non-Energy Use in Oth.Sect. Memo:Feedst.Use in Petchem. Ind. Elect.Output in GWh Elect.Output in GWh Elect.Output-public clec. plant Elect.Output-public clec. plant Elect.Output-autoprod. cHP plant	0 0 1,416,308 0 0 0 0 0 0 5,050,114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Trans/Ener Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Oth. Sect. Memo: Feedst. Use in Petchem. Ind. Elect. Output in GWh Elect. Output-public elec. plant Elect. Output-public CHP plant	0 0 1,416,308 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 0 1,414,135 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,1116 2,511 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (ITransport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use ind/Transf/Ener Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Petchem. Ind. Elect.Output-public celec. plant Elect.Output-autoprod. elec. plant Elect.Output-autoprod. cHP plant Heat Output-autoprod. CHP plant Heat Output-autoprod. CHP plant	0 0 1,416,308 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transt/Ener Memc:Non-Energy Use Ind/Transt/Ener Memc:Non-Energy Use In Oth. Sect. Memc:Pon-Energy Use In Oth. Memc:Pon-	0 0 1,416,308 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 0 0 1,414,135 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (ITransport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use ind/Transf/Ener Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Petchem. Ind. Elect.Output-public celec. plant Elect.Output-autoprod. elec. plant Elect.Output-autoprod. cHP plant Heat Output-autoprod. CHP plant Heat Output-autoprod. CHP plant	0 0 0 1,416,308 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C C C C C C C C C C C C C C C C C C C	0 0 0 0 1,414,135 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,184 2,334 1,116 2,511 0 0 2,015 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Supply & Consumption	Crude Oil	Natural Gas	NCE - 2003 (Non-Conventional	DISaggreg LPG	Petrol	Avgas	Jet Fuel	Other	Diesel	Residual
		Liquids	Crude					Kerosene		Fuel
Indigenous Production	tons 0	tons 114,312	tons 0	kl 569,313	kl 11.577.945	kl 72,464	kl 2,367,009	kl 775,794	kl 9,066,560	kl 5,252,714
From Other Sources	0	0	4,368,897	0	0		0	0	0	(
Import	17,166,658	0	0	122			13,315	1	311	107,524
Export Intl. Marine Bunkers	-439 0	0	0	-734 0	-1,278,629 0		-295,189 0	-6,670 0	-1,519,574 -284,026	-2,411,278 -2,421,447
Stock Changes	0	0	0	0	0	0	0	0	0	0
Domestic Supply	17,166,219	114,312	4,368,897	568,701	10,668,950	22,530	2,085,135	769,125	7,263,272	527,513
Transfers	0	0	0	0	0	0	0	0	0	0
Statistical Differences	0	0	8,737,795	0	0	0	0	0	0	0
Transformation Sector	17,166,219	114,312	-4,368,897	0	0	0	0	0	0	0
Public Electricity Plant	0	0	0	0				0	0	0
Autoproducer Electricity Plant	0		0					0	0	0
Public CHP Plant Autoproducer CHP Plant	0	0	0	0			-	0	0	0
Public Heat Plant	0	0	0	0			0	0	0	0
Autoproducer Heat Plant Heat pumps	0	0	0	0			-	0	0	0
Electric Boilers	0	0	0	0				0	0	0
Patent Fuel Plants	0		0	0	0	0		0	0	0
Coke Ovens Gas Works	0		0	0				0	0	0
For Blast Furnace Gas	0		0	0				0	0	0
Petrochemical Industry	0	0	0	0	0	0	0	0	0	0
For BKB Oil Refineries	17,166,219		-4,368,897	0				0	0	0
Liquefaction	17,166,219	114,312	-4,500,09/	0				0	0	0
Non-specified (Transformation)	0	0	0	0			0	0	0	0
Energy Sector	0	0	0	0	0	0	0	0	0	0
Coal Mines	0	0	0	0				0	0	0
Oil and Gas Extraction	0	0	0	0				0	0	0
Patent Fuel Plants Coke Ovens	0	0	0	0				0	0	0
Gas Works	0	0	0	0				0	0	0
BKB	0	0	0	0				0	0	0
Oil Refineries Own use in Elec., CHP and Heat plant	0	0	0	0				0	0	0
Used for Pump Storage	0		0	0				0	0	0
Nuclear Industry	0		0	0				0	0	0
Non-specified (Energy)	0	0	0	0	0	0	0	0	0	0
Distribution Losses	0	0	0	0	0	0	0	0	0	0
Final Consumption	0	0	0	568,701	10,668,950	22,530	2,085,135	769,125	7,263,272	527,513
rmai consumption		U	· · ·	300,701	10,000,930	22,330	2,003,133	709,123	1,203,212	327,313
Industry Sector	0	0	0	11,347	20,274		0	18,986	950,212	5,455
Iron and Steel Chemical and Petrochemical	0	0	0	0				0	0	0
Non-Ferrous Metals	0	0	0	0				0	0	0
Non-Metallic Minerals	0	0	0	0				0	0	0
Transport Equipment Machinery	0	0	0	0	0			0	0	0
								0	0	
Mining and Quarrying	0	0	0	8,337	17,404		0	14,940	706,133	3,430
Food and Tobacco	0	0	0	8,337 0	17,404 0	0	0	14,940 0	706,133 0	3,430 0
Food and Tobacco Paper Pulp and Print	0 0 0	0 0 0	0 0 0	8,337 0 0	17,404 0	0 0	0 0 0	14,940 0 0	706,133 0	3,430 0 0
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction	0 0 0 0	0 0 0 0	0 0 0 0	8,337 0 0 0 3,011	17,404 0 0 0 2,869	0 0 0	0 0 0 0	14,940 0 0 0 4,045	706,133 0 0 0 244,079	3,430 0 0 0 2,025
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	8,337 0 0 0 0 3,011	17,404 0 0 0 2,869	0 0 0 0 0	0 0 0 0	14,940 0 0 0 4,045	706,133 0 0 0 0 244,079	3,430 0 0 0 2,025
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction	0 0 0 0	0 0 0 0 0	0 0 0 0	8,337 0 0 0 3,011	17,404 0 0 0 2,869	0 0 0 0 0	0 0 0 0	14,940 0 0 0 4,045	706,133 0 0 0 244,079	3,430 0 0 0 2,025
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	8,337 0 0 0 3,011 0 0	17,404 0 0 0 2,869 0 0	0 0 0 0 0 0 0 0 22,530	0 0 0 0 0 0 0 0 2,085,135	14,940 0 0 0 4,045 0 0 7,641	706,133 0 0 0 0 244,079 0 0 5,093,018	3,430 0 0 0 2,025 0 0
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	8,337 0 0 0 3,011 0 0	17,404 0 0 0 0 2,869 0 0 10,445,636	0 0 0 0 0 0 0 0 22,530	0 0 0 0 0 0 0 0 0 2,085,135 1,075,331	14,940 0 0 0 4,045 0 0 7,641	706,133 0 0 0 244,079 0 5,093,018	3,430 0 0 0 2,025 0 0 3,357
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	8,337 0 0 0 3,011 0 0	17,404 0 0 0 2,869 0 0 10,445,636	0 0 0 0 0 0 0 0 22,530	0 0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804	14,940 0 0 0 4,045 0 0 7,641	706,133 0 0 0 0 244,079 0 0 5,093,018	3,430 0 0 0 2,025 0 0
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 3,011 0 0 678 0 678	17,404 0 0 0 0 0 2,869 0 0 10,445,636 0 10,444,598 1,038	0 0 0 0 0 0 0 0 22,530 0 22,530 0 0	0 0 0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558	706,133 0 0 0 0 244,079 0 0 5,093,018 0 4,864,513 228,505	3,430 0 0 0 2,025 0 0 3,357 0 3,357
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 3,011 0 678 0 678 0	17,404 0 0 0 2,869 0 0 10,445,636 0 0 10,444,598 1,038	0 0 0 0 0 0 0 0 22,530 0 22,530 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83	706,133 0 0 0 244,079 0 5,093,018 0 4,864,513	3,430 0 0 0 2,025 0 0 3,357 0 0 3,357
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 3,011 0 0 678 0 0 678 0 0	17,404 0 0 0 2,869 0 0 10,445,636 0 0 10,444,598 1,038	0 0 0 0 0 0 0 0 22,530 0 22,530 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558	706,133 0 0 0 244,079 0 5,093,018 0 0 4,864,513 228,505	3,430 0 0 0 2,025 0 0 3,357 0 3,357
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 3,011 0 678 0 0 678 0 0	17,404 0 0 0 0 0 2,869 0 0 10,445,636 0 10,444,598 1,038 0 0 0	0 0 0 0 0 0 0 0 22,530 0 22,530 0 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0	14,940 0 0 0 4,045 0 0 7,641 0 7,558 83 0 0	706,133 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0	3,430 0 0 2,025 0 0 3,357 0 0 3,357 0 0
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navagation Non-specified (Transport) Other Sectors	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 3,011 0 0 678 0 0 678 0 0 0 556,676	17,404 0 0 0 2,869 0 0 10,445,636 0 10,444,598 0 0 203,040	0 0 0 0 0 0 0 0 22,530 0 0 0 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0	14,940 0 0 4,045 0 0 0 7,641 0 0 7,558 83 0 0 0	706,133 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0	3,430 0 0 0 2,025 0 0 3,357 0 0 0 0 5 18,702
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 3,011 0 0 678 0 0 0 0 556,676 47 100,918	17,404 0 0 0 2,869 0 10,445,636 0 10,444,598 1,038 0 0 203,040 148,897 23,534	0 0 0 0 0 0 0 0 22,530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 0 7,558 83 0 0 0 2 85,531 2,875 1,8	706,133 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 0 1,220,042 1,104,751 62,205	3,4300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 3,011 0 678 0 0 678 0 0 0 556,676 47 100,918 455,711	17,404 0 0 0 0 2,869 0 0 10,445,636 1,038 0 0 23,040 148,897 23,534	0 0 0 0 0 0 0 0 22,530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 0 7,558 85,531 2,876 654,090	706,133 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 0 1,220,042 1,104,751 62,205 53,085	3,4300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 3,011 0 678 0 0 678 0 0 0 556,676 47 100,918 455,711	17,404 0 0 0 0 2,869 0 0 10,445,636 1,038 0 0 23,040 148,897 23,534	0 0 0 0 0 0 0 0 22,530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 0 7,558 83 0 0 0 2 85,531 2,875 1,8	706,133 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 0 1,220,042 1,104,751 62,205	3,4300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Senices Residential Non-specified (Other) Non-Energy Use	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 3,011 0 678 0 0 678 0 0 0 556,676 47 100,918 455,711 0	17,404 0 0 0 0 2,869 0 0 10,445,636 0 0 10,444,598 1,038 0 0 203,040 223,534 30,608	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0 0	14,940 0 0 0 4,045 0 0 0 7,641 0 0 7,558 83 0 0 0 7,558 83 0 0 0 0 0 0 0 0 0 0 0 0 0	706,133 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 1,220,042 1,104,751 62,205 53,085 0	3,4303
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Senices Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use Ind/Trans//Ener	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 3,011 0 0 678 0 0 0 0 556,676 47 100,918 455,711 0	17,404 0 0 0 0 2,869 0 0 10,445,636 0 0 10,444,598 0 0 203,040 148,897 23,534 30,608 0 0 0	0 0 0 0 0 0 0 0 22,530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 742,498 85,531 2,876 654,090 0 0 0	706,133 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 1,220,042 1,104,751 62,205 53,085 0	3,4303
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Senices Residential Non-specified (Other) Non-Energy Use	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 3,011 0 0 678 0 0 0 0 556,676 47 100,918 455,711 0	17,404 0 0 0 0 2,869 0 0 10,445,636 1,038 1,038 23,534 23,534 30,608 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 22,530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0 0 0	14,940 0 0 0 4,045 0 0 0 7,641 0 0 7,558 83 0 0 0 7,558 83 0 0 0 0 0 0 0 0 0 0 0 0 0	706,133 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 1,220,042 1,104,751 62,205 53,085 0	3,4303
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use Ind/Trans//Ener	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 3,011 0 678 0 0 678 0 0 0 0 556,676 47 100,918 455,711 0	17,404 0 0 0 0 2,869 0 0 10,445,636 0 0 10,444,598 1,038 0 0 203,040 23,534 30,608 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 22,530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 742,498 85,531 2,876 654,090 0 0 0 0	706,133 0 0 0 0 244,079 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 0 1,220,042 1,104,751 62,205 53,085 0 0 0 0 0	3,4303 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Oth.Sect. Memo:Feedst.Use in Petchem. Ind.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 0 3,011 0 0 678 0 0 678 0 0 0 0 556,676 47 100,918 455,711 0 0 0 0 0 0 0 0 0 0 0	17,404 0 0 0 0 2,869 0 0 10,445,636 0 0 10,444,598 1,038 0 0 203,040 21,038 30,608 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 74,2498 85,531 2,876 654,090 0 0 0 0 0	706,133 0 0 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 1,220,042 1,104,751 62,205 53,085 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,4303
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 0 3,011 0 0 678 0 0 0 678 0 0 0 556,676 47 100,918 455,711 0 0 0 0 0 0 0	17,404 0 0 0 0 2,869 0 0 10,445,636 0 0 10,444,538 0 0 0 203,040 148,897 23,534 30,608 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 22,530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 7,558 654,090 0 0 0 0 0 0	706,133 0 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 1,220,042 1,104,751 62,205 53,085 0 0 0 0 0 0 0 0 0	3,4303
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Mon-Energy Use Memo:Non-Energy Use in Transport Memo:Non-Energy Use Memo:Non-Energy Use in Transport Memo:No	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 0 3,011 0 0 678 0 0 678 0 0 0 556,676 47 100,918 455,711 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17,404 0 0 0 0 2,869 0 0 10,445,636 0 0 10,444,588 0 0 0 23,840 148,897 23,534 30,608 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 22,530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 0 742,498 85,5311 2,876 654,090 0 0 0 0 0 0 0 0 0	706,133 0 0 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 1,1220,042 1,104,751 62,205 53,085 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,4303
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use in d'Transf/Ener Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Oth.Sect. Memo:Chon-Energy Use in Oth.Sect. Memo:Chon-Ene	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 3,011 0 0 3,011 0 678 0 0 0 556,676 47 10,918 455,711 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17,404 0 0 0 0 2,869 0 0 10,445,636 0 0 10,444,598 0 0 203,040 148,897 23,534 30,608 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 22,530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 0 742,498 85,531 2,876 654,090 0 0 0 0 0 0 0 0 0 0 0 0 0	706,133 0 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 1,220,042 1,104,751 62,205 53,085 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,4303
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use in d/Transf/Ener Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Oth.Sect. Memo:Reds Use in Petchem. Ind. Elect.Output in GWh Elect.Output-autoprod. elec. plant Elect.Output-public CHP plant Elect.Output-public CHP plant Elect.Output-public CHP plant Elect Output-put CHP plant Elect Output CHP plant	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 0 3,011 0 0 678 0 0 678 0 0 0 556,676 47 100,918 455,711 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17,404 0 0 0 0 2,869 0 0 10,445,636 0 0 10,444,598 1,038 0 0 203,040 203,040 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 0 742,498 85,5311 2,876 654,090 0 0 0 0 0 0 0 0 0	706,133 0 0 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 1,1220,042 1,104,751 62,205 53,085 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,4303
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sector Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Oth.Sect. Memo:Non-Energy Use in Oth.Sect. Memo:Non-Energy Use in Oth.Sect. Memo:Pedst.Use in Petchem. Ind. Elect.Output in GWh Elect.Output-public elec. plant Elect.Output-public elec. plant Elect.Output-public cHe plant Heat Output-autoprod. CHP plant Heat Output-duprodrouce (HP plant Heat Output-autoprod. CHP plant Heat Output-Autoproduce (HP plant	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 0 3,011 0 0 678 0 0 678 0 0 0 556,676 47 100,918 455,711 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17,404 0 0 0 0 2,869 0 0 0 10,445,636 0 0 10,444,598 1,038 0 0 203,040 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 742,498 85,531 2,876 654,090 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	706,133 0 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 1,1220,042 1,104,751 62,205 53,085 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,4303
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use in d/Transf/Ener Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Oth.Sect. Memo:Reds Use in Petchem. Ind. Elect.Output in GWh Elect.Output-autoprod. elec. plant Elect.Output-public CHP plant Elect.Output-public CHP plant Elect.Output-public CHP plant Elect Output-put CHP plant Elect Output CHP plant	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,337 0 0 0 0 3,011 0 0 678 0 0 0 0 678 0 0 0 0 556,676 47 100,918 455,711 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17,404 0 0 0 0 2,869 0 0 10,445,636 0 0 10,444,588 0 0 0 203,040 148,897 23,534 30,608 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 22,530 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 2,085,135 1,075,331 1,009,804 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14,940 0 0 0 4,045 0 0 7,641 0 0 7,558 83 0 0 0 0 742,498 85,531 2,876 654,090 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	706,133 0 0 0 0 244,079 0 0 5,093,018 0 0 4,864,513 228,505 0 0 1,1220,042 1,104,751 62,205 53,085 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,4303

Supply & Consumption	White	Lubricants	Bitumen		gated, Natui Other Petroleum		Hydro	Solar	Wind	Electricity
	Spirit	Lubricants	Dituilleli	Wax	products	Nuclear	Hydro	Solai	wind	Electricity
Indigenous Production	kl 77,960	tons 446,127	tons 408,211	tons 74,803	tons 18,859	GWh 38,373	GWh 3,808	GWh 1,043,000	GWh 32	MWh 219,763,32
From Other Sources	0	440,127	400,211	74,803	10,059			1,043,000		219,763,32
Import	1,502	147,005	595	29,755	0	0	0	0	0	8,194,00
Export	-1,767	-184,420	-137,018	-91,599	0			0		-10,263,00
Intl. Marine Bunkers Stock Changes	0	0	0	0	0		0	0		- (
Domestic Supply	77,695	408,712	271,788	12,959	18,859			1,043,000		217,694,323
Transfers	0	0	0	0	0	0	0	0	0	(
Statistical Differences	0	0	0	0	0	0	0	0	0	-2,660,733
Transformation Sector	0	0	0	0	0	38,373	3,808	0	32	4,399,023
Public Electricity Plant	0	0	0	0	0	38,373	3,509	0	5	(
Autoproducer Electricity Plant	0	0	0					0		4,399,023
Public CHP Plant Autoproducer CHP Plant	0	0	0					0		(
Public Heat Plant	0	0	0			0		0		
Autoproducer Heat Plant	0	0	0		0		-	0		(
Heat pumps	0	0	0		0			0		
Electric Boilers Patent Fuel Plants	0	0	0				-	0		(
Coke Ovens	0	0	0		0			0		
Gas Works	0	0	0		0			0		
For Blast Furnace Gas	0	0	0		0			0		(
Petrochemical Industry	0	0	0		0			0		(
For BKB Oil Refineries	0	0	0		0			0		(
Liquefaction	0	0	0		0			0		(
Non-specified (Transformation)	0	0	0		0			0		(
Energy Sector	0	0	0	0	0	0	0	0	0	11,006,711
Coal Mines	0	0	0	0	0	0	0	0	0	(
Oil and Gas Extraction	0	0	0		0		-	0		(
Patent Fuel Plants	0	0	0		0		-	0		
Coke Ovens Gas Works	0	0	0		0	_	-	0		(
BKB	0	0	0	0	0			0		
Oil Refineries	0	0	0		0			0		6,987,032
Own use in Elec., CHP and Heat plant	0	0	0		0		-	0		351
Used for Pump Storage	0	0	0		0			0		4,019,328
Nuclear Industry Non-specified (Energy)	0	0	0	0	0			0		(
Non-specified (Effergy)	0	U	0		0	0	U		, ,	
Distribution Losses	0	0	0	0	0	0	0	0	0	14,160,000
Final Consumption	77,695	408,712	271,788	12,959	18,859	0	0	1,043,000	0	190,789,322
Industry Sector	630	65,091	157,961	317	2	0	0	0	0	109,589,267
Iron and Steel	0	00,031	0	0	0			0		22,331,171
Chemical and Petrochemical	0	0	0	0	0	0	0	0	0	9,438,923
Non-Ferrous Metals	0	0	0		0			0		16,258,273
Non-Metallic Minerals	0	0	0		0		-	0		2,279,371 95,253
Transport Equipment Machinery	0	0	0		0	_		0	0	42,373
						_			0	
Mining and Quarrying	569	55,329	1	232	1	0		0		30,793,477
Mining and Quarrying Food and Tobacco	569 0	55,329 0		232 0	0		0		0	30,793,477 714,516
Food and Tobacco Paper Pulp and Print	0	0	1 0	0	0	0	0 0 0	0	0 0	714,516 1,462,609
Food and Tobacco Paper Pulp and Print Wood and Wood Products	0 0 0	0 0 0	1 0 0	0 0	0	0	0 0 0	0 0 0	0 0 0	714,516 1,462,609 270,693
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction	0 0 0 61	0 0 0 9,762	1 0 0 0 157,960	0 0 0 85	0 0 0 0	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	714,516 1,462,609 270,693 133,061
Food and Tobacco Paper Pulp and Print Wood and Wood Products	0 0 0	0 0 0	1 0 0	0 0 0 85	0	0 0 0 0	0 0 0 0 0	0 0 0	0 0 0 0 0 0	714,516 1,462,609 270,693
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry)	0 0 0 61 0	0 0 0 9,762 0	1 0 0 0 0 157,960 0	0 0 0 85 0	0 0 0 1 1 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,609 270,693 133,061 522,118 25,247,429
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector	0 0 0 61 0 0	0 0 0 9,762 0 0	1 0 0 0 157,960 0	0 0 0 85 0	0 0 0 1 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	714,516 1,462,609 270,693 133,061 522,118 25,247,429 5,565,011
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation	0 0 0 61 0 0	0 0 0 9,762 0 0 310,231	1 0 0 0 157,960 0 0	0 0 0 85 0 0	0 0 0 0 1 1 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	714,516 1,462,608 270,693 133,061 522,118 25,247,429 5,565,011
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector	0 0 0 61 0 0	0 0 0 9,762 0 0	1 0 0 0 157,960 0	0 0 0 85 0	0 0 0 1 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	714,516 1,462,609 270,693 133,061 522,118 25,247,429 5,565,011
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail	0 0 0 61 0 0 136 0 0 100 36	0 0 9,762 0 0 310,231 0 0 306,146 4,085	1 0 0 0 157,960 0 0 2 0 0	0 0 0 85 0 0 0 0	0 0 0 1 1 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,118 25,247,425 5,565,011 42,655 19,866 3,265,800
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textille and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport	0 0 0 61 0 0 0 136 0 0 0 100	0 0 9,762 0 0 310,231 0 0 306,146 4,085	1 0 0 0 157,960 0 0 2 0 0 2 0 0	0 0 85 0 0 0 0 0 0	0 0 0 0 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,118 25,247,425 5,565,011 (42,655 19,860 3,265,800 77,188
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textille and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipelline Transport Internal Navigation	0 0 0 61 0 0 0 136 0 100 36 0	0 0 9,762 0 0 310,231 0 0 306,146 4,085 0	1 0 0 0 157,960 0 0 2 2 0 0 0 2	0 0 85 0 0 0 0 0 0	0 0 0 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,118 25,247,428 5,565,011 (42,655 19,860 3,265,800 77,188 49,381
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textille and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport	0 0 0 61 0 0 0 136 0 0 0 100	0 0 9,762 0 0 310,231 0 0 306,146 4,085	1 0 0 0 157,960 0 0 2 0 0 2 0 0	0 0 85 0 0 0 0 0 0	0 0 0 0 1 1 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,118 25,247,425 5,565,011 (42,655 19,860 3,265,800 77,188
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internat Navigation Non-specified (Transport) Other Sectors	0 0 0 61 0 0 136 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 9,762 0 0 310,231 0 0 306,146 4,085 0 0	1 0 0 0 157,960 0 0 2 2 0 0 0 2 2 0 0	0 0 0 85 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,1118 25,247,425 5,565,011 (42,655 19,866 3,265,800 77,188 49,381 2,110,130
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textilie and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Navigation Non-specified (Transport) Other Sectors Agriculture	0 0 0 61 0 0 0 136 0 0 100 36 0 0 0 76,929	0 0 0 9,762 0 0 310,231 0 0 306,146 4,085 0 0	1 0 0 0 157,960 0 0 2 2 0 0 0 2 2 0 0 0	0 0 0 85 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,118 25,247,426 5,565,011 (42,655 19,860 3,265,800 77,186 49,381 2,110,130 75,635,044
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services	0 0 0 61 0 0 136 0 0 0 0 0 0 0 0 0 0 0 76,929 3,571 73,357	0 0 9,762 0 0 310,231 0 306,146 4,085 0 0 333,390 33,390 2,337	1 0 0 0 157,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 85 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,118 25,247,426 5,565,011 42,655 19,866 3,265,800 77,188 49,381 2,110,130 75,635,044 5,142,918 21,071,177
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textilie and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Navigation Non-specified (Transport) Other Sectors Agriculture	0 0 0 61 0 0 0 136 0 0 100 36 0 0 0 76,929	0 0 0 9,762 0 0 310,231 0 0 306,146 4,085 0 0	1 0 0 0 157,960 0 0 2 2 0 0 0 2 2 0 0 0	0 0 0 85 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 1 1 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,118 25,247,426 5,565,011 (42,655 19,860 3,265,800 77,186 49,381 2,110,130 75,635,044
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other)	0 0 0 61 136 0 0 100 36 0 0 0 0 0 0 76,929 3,571 73,357	0 0 0 9,762 0 0 310,231 0 0 306,146 4,085 0 0 0 336,146 3,339 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 157,960 0 0 2 2 0 0 0 2 2 0 0 0 13,7,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 85 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 1 8,856 2 18,856 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,600 270,693 133,061 522,118 25,247,428 5,565,011 42,655 19,866 3,265,000 77,188 49,381 2,110,130 75,635,044 5,142,918 21,071,73 34,074,593 15,346,356
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textilie and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internati Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use	0 0 0 61 0 0 0 136 0 0 100 36 0 0 0 0 76,929 3,571 73,357 1 0	0 0 0 0 9,762 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 157,960 0 0 0 2 2 0 0 0 0 0 0 113,825 444 109,246 4,134 0	0 0 0 0 85 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 18,854 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,118 25,247,425 5,565,011 (42,655 19,866 3,265,800 77,188 49,381 2,110,133 75,635,044 5,142,918 21,071,177 34,074,363
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memc:Non-Energy Use Ind/Transt/Ener	0 0 0 61 0 0 136 0 0 0 0 0 0 0 0 76,929 3,571 73,357	0 0 0 9,762 0 0 310,231 0 0 306,146 4,085 0 0 0 336,146 3,339 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 157,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 85 85 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 1 8.854 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,600 270,693 133,061 522,118 25,247,425 5,565,011 42,655 19,866 3,265,804 77,186 49,381 2,110,130 75,635,044 5,142,918 21,071,533
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textilie and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transl/Ener Memo:Non-Energy Use Ind/Transl/Ener Memo:Non-Energy Use in Transport	0 0 0 61 0 0 136 0 0 100 36 0 0 0 0 0 76,929 3,571 73,357 1 0 0	0 0 0 9,762 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 157,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,161 25,247,425 5,565,011 (42,655 19,860 3,265,800 77,188 49,381 2,110,130 75,635,044 5,142,916 21,071,177 34,074,593
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internati Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transt/Ener Memo:Non-Energy Use Ind/Transt/Ener	0 0 0 61 10 0 0 136 0 0 100 36 0 0 0 0 0 76,929 3,571 73,357 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 157,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,118 25,247,425 5,565,011 (42,655 19,866 3,265,800 77,186 49,381 2,110,130 75,635,044 5,142,918 21,071,177 34,074,593
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textilie and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sector Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transt/Ener Memc:Non-Energy Use Ind/Transt/Ener Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Petchem. Ind.	0 0 0 61 0 0 136 0 0 0 100 36 0 0 0 0 0 76,929 3,571 73,357 1 0 77,695 77,695	0 0 0 0 9,762 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 157,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 85 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 18,854 0 0 18,859	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,118 25,247,425 5,565,011 (42,655 19,866 3,265,800 77,188 49,381 2,110,130 75,635,044 5,142,918 21,071,177 34,077,436 (6)
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textilie and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transl/Ener Memo:Non-Energy Use Ind/Transl/Ener Memo:Non-Energy Use in Transport	0 0 0 61 0 0 136 0 0 100 36 0 0 0 0 0 76,929 3,571 73,357 1 0 0	0 0 0 9,762 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 157,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 714,516 714,516 717,683 717,683 717,181 717,18
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transt/Ener Memc:Non-Energy Use Ind/Transt/Ener Memc:Non-Energy Use In Transport Memc:Non-Energy Use In Oth. Sect. Memc:Feedst. Use in Petchem. Ind. Elect.Output in GWh Elect.Output in GWh Elect.Output-public elec. plant Elect.Output Elect. Plant Elect.Output elec. Plant Elect.Output elec. Plant	0 0 0 0 61 0 0 0 136 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 9,762 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 157,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,600 270,083 133,06 522,111 25,247,425 5,565,01 (1,9,866,00 77,188 4,9,38 2,110,130 75,635,04 6,10 6,10 6,10 6,10 7,10 7,10 7,10 7,10 7,10 7,10 7,10 7
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use Ind/Trans//Ener Memo:Non-Energy Use in Oth.Sect. Memo:Poot-Sub-Use in Petchem. Ind. Elect.Output in GWh Elect.Output-public clec. plant Elect.Output-public clec. plant Elect.Output-public clec. plant Elect.Output-public clep.	0 0 0 61 136 0 0 0 100 36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 157,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 714,516 714,516 714,516 717,689 717,689 718,680
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textilie and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Petchern. Ind. Elect.Output in GWh Elect.Output in GWh Elect.Output-public elec. plant	0 0 0 0 61 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 9,762 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 0 0 0 157,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 714,516 714,516 720,089 133,06° 522,111 25,247,425 5,565,01° (1,265,047,425 1,9,665,01° 77,181 4,9,38° 2,110,136 2,1071,77 34,074,955 ((((((((((((((((((
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Irransport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memc:Non-Energy Use in dransport Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Oth-Sect. Memc:Non-Energy Use in Oth-Sect. Memc:Poor-Energy Use in Oth-Sect. Memc:Non-Energy Use lect. plant Elect.Output-public elec. plant Elect.Output-public CHP plant	0 0 0 61 136 0 0 0 100 36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 157,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 714,516 714,516 714,516 717,683,067 71,181 71,182 71,182 71,182 71,182 71,183
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internat Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Oth. Sect. Memc:Feedst. Use in Petchem. Ind. Elect.Output-public elec. plant Elect.Output-public CHP plant Elect.Output-public CHP plant Elect.Output-public CHP plant Heat Output-public CHP plant Heat Output-public CHP plant Heat Output-public CHP plant Heat Output-public CHP plant	0 0 0 61 136 0 0 0 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 9,762 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 157,960 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,161 25,247,425 5,565,011 (42,655 19,860 3,265,800 77,188 49,381 2,110,130 75,635,044 5,142,916 21,071,177 34,074,593
Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internat Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Oth. Sect. Memc:Pener Sectors Memc:Pener Secto	0 0 0 61 136 0 0 0 100 36 0 0 0 0 0 0 0 76,929 3,571 77,695 77,695 77,695 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	714,516 1,462,605 270,693 133,061 522,118 25,247,425 5,565,011 (

			BALANCE -							
Supply & Consumption	Hard	Coking	Bituminous	Coke oven	Gasworks	Coke oven	Blast	Solid		Crude + NGLs
	tons	tons	Coal tons	tons	Gas TJ	Gas TJ	Furnace Gas	Biomass TJ	Gas TJ	+ Feedstocks tons
Indigenous Production	242,821,694	1,247,422		1,940,317	43,455		31,137	428,396	77,172	183,203
From Other Sources	0	0		0			0 0	0	0	4,642,472
Import	1,680,826	1,680,826		0			0 0	0	0	23,589,797
Export	-67,946,518	-917,192		0			0 0	0	0	-592
Intl. Marine Bunkers	0	0		0			0 0	0	0	0
Stock Changes	2,439,359 178,995,361	2,011,056		1,940,317			0 0 31,137	428,396	77 472	28,414,880
Domestic Supply	178,995,361	2,011,056	176,984,305	1,940,317	50,671		31,137	428,396	77,172	28,414,880
Transfers	0	0	-	0	0	(0 0	0	0	0
Statistical Differences	-2,043,109	-1,222,628	-820,481	0	0		0	0	0	9,284,944
Transformation Sector	153,658,620	2,632,762	151,025,858	434,376	0		0 0	237,996	77,172	19,129,936
Public Electricity Plant	107,332,226	2,002,702		0	0		0 0	0	0	13,123,330
Autoproducer Electricity Plant	2,642,042	0		0	0	-	0 0	0	0	0
Public CHP Plant	0	0		0			0 0	0	0	0
Autoproducer CHP Plant	0	0		0			0	237,996	0	0
Public Heat Plant Autoproducer Heat Plant	0	0		0			0 0	0	0	0
Heat pumps	0	0		0			0 0	0	0	0
Electric Boilers	0	0		0			0 0	0	0	0
Patent Fuel Plants	0	0	0	0	0	-	0 0	0	0	0
Coke Ovens	2,632,762	2,632,762	0	0	0	-	0 0	0	0	0
Gas Works	0	0		0			0 0	0	0	0
For Blast Furnace Gas	0	0		434,376			0	0	0	0
Petrochemical Industry	0	0		0			0	0	0	0
For BKB Oil Refineries	0	0		0			0 0	0	0	19,129,936
Liquefaction	41,051,590	0		0			0 0	0	77,172	19,129,930
Non-specified (Transformation)	41,031,390	0		0			0 0	0	0	0
Energy Sector	0	0		0	0		0	0	0	0
Coal Mines	0	0	-	0			0 0	0	0	0
Oil and Gas Extraction Patent Fuel Plants	0	0		0			0 0	0	0	0
Coke Ovens	0	0		0			0 0	0	0	0
Gas Works	0	0		0			0 0	0	0	0
BKB	0	0		0			0 0	0	0	0
Oil Refineries	0	0		0			0 0	0	0	0
Own use in Elec., CHP and Heat plant	0	0		0			0	0	0	0
Used for Pump Storage	0	0		0			0 0	0	0	0
Nuclear Industry Non-specified (Energy)	0	0		0			0 0	0	0	0
Non-specified (Effergy)	U		U	- 0	U		5 0	U	U	- 0
Distribution Losses	0	0	0	0	0		0 0	0	0	0
Final Consumption	27,379,850	600,922	26,778,928	1,505,941	50,671	1	0 31,137	190,400	0	0
Industry Sector	20,489,267	453,659	20,035,608	1,505,941	50,361		0 31,137	0	0	0
Iron and Steel	4,815,535	242,456	4,573,079	1,505,941	22,836		31,137	0	0	0
Chemical and Petrochemical	5,577,087	66,447	5,510,640	0			0 0	0	0	0
Non-Ferrous Metals	0	0		0			0 0	0	0	0
Non-Metallic Minerals Transport Equipment	1,953,496	86,873		0			0 0	0	0	0
Machinery	0	0	-	0			0 0	0	0	0
Mining and Quarrying	1,499,007	2,514		0			0 0	0	0	0
Food and Tobacco	0	0	0	0	924		0 0	0	0	0
Paper Pulp and Print	0	0		0			0 0	0	0	0
Wood and Wood Products	0		0	0	0		0 0	0		0
Construction		0							0	
	0	0	0	0			0 0	0	0	0
Textile and Leather	0	0	0	0	0		0 0	0	0	0
	-	0	0	0	0		0 0		0	0
Textile and Leather	0	0	0 0 6,588,773	0	0 4,860	(0 0	0	0	0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation	0 6,644,142 0 0	0 0 55,369 0 0	0 0 6,588,773 0 0	0 0 0	0 4,860 0 0	(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	0 0 0	0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport	0 6,644,142 0 0	0 0 55,369 0 0	0 0 6,588,773 0 0	0 0 0 0	0 4,860 0 0	(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road	0 6,644,142 0 0 0	0 0 55,369 0 0 0	0 0 6,588,773 0 0 0	0 0 0 0 0 0	0 4,860 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail	0 6,644,142 0 0 0 0 0	0 0 55,369 0 0 0	0 0 6,588,773 0 0 0 0 0	0 0 0 0 0 0 0	0 4,860 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport	0 6,644,142 0 0 0 0 0	0 0 55,369 0 0 0 0	0 0,588,773 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail	0 6,644,142 0 0 0 0 0	0 0 55,369 0 0 0	0 0,588,773 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport)	0 6,644,142 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0	0 6,588,773 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors	0 6,644,142 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0	0 0,588,773 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture	0 6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 0 147,263	0 0 6,588,773 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 3 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services	0 6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 147,263 49,088	0 0 0,588,773 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 3 10 0 3 10 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential	0 6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 0 147,263 0 49,088 98,175	0 6,588,773 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services	0 6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 147,263 49,088	0 6,588,773 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use	0 6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0,588,773 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 310 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internat Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use Ind/Transt/Ener	6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 0 147,263 98,175	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Avigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use in Transport	0 6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 147,263 0 49,088 98,175	0 0 0 6,588,773 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 116,147 2,209,058 4,418,115 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 310 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memc.Non-Energy Use Ind/Transl/Ener Memc.Non-Energy Use in Transport Memc.Non-Energy Use in Transport Memc.Non-Energy Use in Oth. Sect.	0 6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 0 49,088 98,175 0	0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memc:Non-Energy Use Ind/Transl/Ener Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Oth. Sect.	0 6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 147,263 0 49,088 98,175	0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation Domestic Air Transport Road Rail Pipeline Transport International Civil Avlation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transf/Ener Memci.Non-Energy Use Ind/Transf/Ener Memci.Non-Energy Use in Transport Memci.Non-Energy Use in Oth. Sect. Memci.Non-Energy Use in Oth. Sect. Memci.Feedst.Use in Petchern. Ind.	0 6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 0 49,088 98,175 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 310 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Aviation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transf/Ener Memc:Non-Energy Use in Transport Memc:Non-Energy Use in Oth. Sect. Memc:Feedst. Use in Petchem. Ind. Elect.Output in GWh	0, 6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 190,400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transt/Ener Memci.Non-Energy Use Ind/Transt/Ener Memci.Non-Energy Use in Transport Memci.Non-Energy Use in Oth. Sect. Memo: Feedst. Use in Petchem. Ind. Elect.Output in GWh Elect.Output in GWh Elect.Output elec. plant Elect.Output elec. plant Elect.Output elec. plant	6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 147,263 98,175 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internat Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Senices Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use in d/Transl/Ener Memo:Non-Energy Use in oth. Sect. Memor:Non-Energy Use in oth. Sect. Memor:Non-Energy Use in Petchem. Ind. Elect.Output in GWh Elect.Output-public elec. plant Elect.Output-public elep. plant	0,6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 147,263 0 49,088 98,175 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 190,400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Rail Pipeline Transport International Rail Pipeline Transport Internat Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transl/Ener Memc:Non-Energy Use Ind/Transl/Ener Memc:Non-Energy Use in Transport Memc:	0,6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 49,088 98,175 0 0 0 0 66,447	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 190,400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Civil Aviation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use Ind/Transl/Ener Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Oth. Sect. Memo:Non-Energy Use in Oth. Sect. Memo:Non-Energy Use in Petchem. Ind. Elect.Output in GWh Elect.Output-public elec. plant Elect.Output-autoprod. elec. plant Elect.Output-autoprod. CHP plant Elect.Output-autoprod. CHP plant Elect.Output-autoprod. CHP plant Elect.Output-autoprod. CHP plant Elect.Output-bublic CHP plant	0,6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 49,088 98,175 0 0 0 0 66,447	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo: Non-Energy Use Ind/Transt/Ener Memo: Non-Energy Use in Transport Memo: Non-Energy Use in Transport Memo: Non-Energy Use in Oth. Sect. Memo: Feedst. Use in Petchem. Ind. Elect. Output-public elec. plant Elect. Output-public elec. plant Elect. Output-autoprod. elec. plant Elect. Output-autoprod. elP plant Leat Output-autoprod. elP Plant Heat Output-autoprod. elP Plant Heat Output-autoprod. elP Plant Heat Output-autoprod. elP Plant Heat Output-autoprod. elP Plant	0 6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 147,263 0 49,088 98,175 0 0 0 0 66,447	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 190,400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Ind/Transt/Ener Memc:Non-Energy Use Ind/Transt/Ener Memc:Non-Energy Use In Transport Memc:Non-Energy Use In Oth. Sect. Memc:Feedst. Use in Petchem. Ind. Elect. Output-public elec. plant Elect. Output-public CHP plant Elect. Output-public CHP plant Elect. Output-public CHP plant Heat Output-public CHP plant	0,6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 0 49,088 98,175 0 0 0 0 66,447	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport International Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo: Non-Energy Use Ind/Transt/Ener Memo: Non-Energy Use in Transport Memo: Non-Energy Use in Transport Memo: Non-Energy Use in Oth. Sect. Memo: Feedst. Use in Petchem. Ind. Elect. Output-public elec. plant Elect. Output-public elec. plant Elect. Output-autoprod. elec. plant Elect. Output-autoprod. elP plant Leat Output-autoprod. elP Plant Heat Output-autoprod. elP Plant Heat Output-autoprod. elP Plant Heat Output-autoprod. elP Plant Heat Output-autoprod. elP Plant	6,644,142 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 55,369 0 0 0 0 0 0 0 147,263 0 49,088 98,175 0 0 0 0 66,447	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 4,860 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 190,400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

	Crude Oil	Natural Gas No Liquids	Crude	LPG	Petrol	Avgas	Jet Fuel	Other Kerosene	Diesel	Residual Fuel
	tons	tons	tons	kl	kl	kl	kl	kl	kl	kl
Indigenous Production	0	183,203	0	564,172	11,554,692	12,391		792,202	8,526,883	4,265,28
From Other Sources Import	23,589,797	0	4,642,472	142	751,389	23,358		12,704	554,264	127,02
Export	-592	0	0	-712	-1,014,328	-13,325		-7,431	-1,167,074	-1,617,49
Intl. Marine Bunkers	0	0	0	0	0	0		0	-231,747	-2,206,42
Stock Changes	0	0	0	0	0	0		0	0	
Domestic Supply	23,589,205	183,203	4,642,472	563,601	11,291,753	22,424	2,076,580	797,474	7,682,327	568,38
Transfers	0	0	0	0	0	0	0	0	0	
Statistical Differences	0	0	9,284,944	0	0	0		0	0	
Transformation Sector	23,589,205	183,203	-4,642,472	0	0	0		0	0	
Public Electricity Plant	0	0	0	0	0	0		0	0	
Autoproducer Electricity Plant Public CHP Plant	0	0	0	0	0	0		0	0	
Autoproducer CHP Plant	0	0	0	0	0	0		0	0	
Public Heat Plant	0	0	0	0	0	0		0	0	
Autoproducer Heat Plant	0	0	0	0	0	0	0	0	0	
Heat pumps	0	0	0	0	0	0		0	0	
Electric Boilers	0	0	0	0	0	0		0	0	
Patent Fuel Plants Coke Ovens	0	0	0	0	0	0		0	0	
Gas Works	0	0	0	0	0	0		0	0	
For Blast Furnace Gas	0	0	0	0	0	0		0	0	
Petrochemical Industry	0	0	0	0	0	0		0	0	
For BKB	0	0	0	0	0	0		0	0	
Oil Refineries	23,589,205	183,203	-4,642,472	0	0	0		0	0	
Liquefaction Non-specified (Transformation)	0	0	0	0	0	0		0	0	
Non-specified (Transformation)	U	U	U	U	U		U	U	U	
Energy Sector	0	0	0	0	0	0	0	0	0	
Coal Mines	0	0	0	0	0	0		0	0	
Oil and Gas Extraction	0	0	0	0	0	0	0	0	0	
Patent Fuel Plants	0	0	0	0	0	0		0	0	
Coke Ovens	0	0	0	0	0	0		0	0	
Gas Works BKB	0	0	0	0	0	0		0	0	
Oil Refineries	0	0	0	0	0	0		0	0	
Own use in Elec., CHP and Heat plant	0	0	0	0	0	0		0	0	
Used for Pump Storage	0	0	0	0	0	0		0	0	
Nuclear Industry	0	0	0	0	0	0		0	0	
Non-specified (Energy)	0	0	0	0	0	0	0	0	0	
Bi cit di										
Distribution Losses	0	0	0	0	0	0	0	0	0	(
Final Consumption	0	0	0	563,601	11,291,753	22,424	2,076,580	797,474	7,682,327	568,38
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Industry Sector	0	0	0	7,135	19,700	0		17,356	934,484	8,51
Iron and Steel	0	0	0	0	0	0		0	0	
Chemical and Petrochemical	0	0	0	0	0	0		0	0	
Non Forroug Motale	0	0	0		0					
Non-Ferrous Metals Non-Metallic Minerals	0	0	0	0	0	0		0	0	
Non-Ferrous Metals Non-Metallic Minerals Transport Equipment	0 0	0	0		0 0	0	0	0		(
Non-Metallic Minerals	0	0	0	0	0	0	0	0	0 0 0	(
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying	0 0 0	0 0 0	0 0 0	0 0 0 0 7,059	0 0 0 16,921	0 0 0	0 0 0	0 0 0 13,927	0 0 0 0 710,696	6,69
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 7,059	0 0 0 16,921 0	0 0 0 0	0 0 0	0 0 0 13,927	0 0 0 0 710,696	6,69
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 7,059 0	0 0 0 16,921 0	0 0 0 0 0	0 0 0 0 0	0 0 0 13,927 0	0 0 0 0 710,696 0	6,69
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 7,059 0 0	0 0 0 16,921 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 13,927 0 0	0 0 0 0 710,696 0 0	6,69
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 7,059 0	0 0 0 16,921 0	0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 13,927 0	0 0 0 0 710,696 0	6,69
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 7,059 0 0 0	0 0 0 16,921 0 0 0 2,779	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 13,927 0 0 0 3,429	0 0 0 0 710,696 0 0 0 223,788	6,69
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry)	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 76 0	0 0 16,921 0 0 0 2,779 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 13,927 0 0 0 3,429 0	0 0 0 710,696 0 0 0 223,788 0	6,69
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 7,059 0 0 0 76 0	0 0 16,921 0 0 0 2,779 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 13,927 0 0 0 3,429 0 5,787	0 0 0 710,696 0 0 0 223,788 0 0	1,82
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 7,059 0 0 0 76 0 0	0 0 16,921 0 0 0 2,779 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 13,927 0 0 0 3,429 0 0 5,787	0 0 0 0 710,696 0 0 0 223,788 0 0	6,693 1,823 2,988
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 7,059 0 0 0 76 0	0 0 16,921 0 0 0 2,779 0 0 11,079,941	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 13,927 0 0 0 3,429 0 5,787	0 0 0 710,696 0 0 0 223,788 0 0	1,82 2,98
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Crid Nation Domestic Air Transport	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 7,059 0 0 0 76 0 0	0 0 16,921 0 0 0 2,779 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 22,424	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 13,927 0 0 0 3,429 0 5,787 0	0 0 0 710,696 0 0 0 223,788 0 0 5,564,310	6,69 1,82 2,98
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 0 1 1 0 0	0 0 16,921 0 0 0 2,779 0 0 11,079,941 0 11,079,800 141	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 13,927 0 0 0 3,429 0 0 5,787 0 0 5,672	0 0 0 0 710,696 0 0 0 223,788 0 0 5,564,310 0 5,361,503 202,807	1,82 2,98
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Cvil Avlation Domestic Air Transport Road Rail Pipeline Transport	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 76 0 0 0 1 1 0 0	0 0 16,921 0 0 2,779 0 0 11,079,941 0 11,079,800 141,079,800	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 13,927 0 0 0 3,429 0 0 5,787 0 0 0 5,672 115	0 0 0 0 710,696 0 0 0 223,788 0 0 5,564,310 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,98
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 0 1 1 0 0	0 0 16,921 0 0 0 2,779 0 0 11,079,941 0 11,079,800 141	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 13,927 0 0 0 3,429 0 0 5,787 0 0 5,672	0 0 0 0 710,696 0 0 0 223,788 0 0 5,564,310 0 5,361,503 202,807	6,69
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation Domestic Air Transport Road Rail Pipeline Transport Internal Navlgation Non-specified (Iransport)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 0 76 0 0 1 1 0 0 0	0 0 16,921 0 0 0 2,779 0 0 11,079,941 0 11,079,800 111,079,800 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 2,076,580 945,181 1,131,399 0 0 0	0 0 0 13,927 0 0 0 3,429 0 0 5,787 0 0 0 5,672 115 0	0 0 0 710,696 0 0 0 223,788 0 0 5,564,310 0 5,361,503 202,807 0	1,82: 2,988
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Cvil Avlation Domestic Air Transport Road Rail Pipeline Transport	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 76 0 0 0 1 1 0 0	0 0 16,921 0 0 2,779 0 0 11,079,941 0 11,079,800 141,079,800	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 13,927 0 0 0 3,429 0 0 5,787 0 0 0 5,672 115	0 0 0 0 710,696 0 0 0 223,788 0 0 5,564,310 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,82 2,98 2,98
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Cvil Avlation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Iransport) Other Sectors Agriculture Commerce and Public Services	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	0 0 16,921 0 0 0 2,779 0 0 11,079,941 0 0 11,079,800 141 0 0 0 141,766 19,245	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 2,076,580 945,181 1,131,399 0 0 0 0 0	0 0 0 13,927 0 0 0 3,429 0 0 5,787 0 0 5,672 115 0 0	0 0 0 0 710,696 0 0 0 223,788 0 0 5,564,310 0 0 5,361,503 202,807 0 0 0	2,988 2,988 2,986 43,20
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sector Agriculture Commerce and Public Services Residential	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 0 1 1 0 0 0 1 1 0 0 0 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 0 16,921 0 0 2,779 0 0 11,079,941 0 0 11,079,800 141 0 0 147,766 19,245 25,101	0 0 0 0 0 0 0 0 0 0 0 22,424 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 13,927 0 0 0 0 3,429 0 0 5,787 0 0 5,672 115 0 0 0	0 0 0 710,696 0 0 0 223,788 0 0 0 5,564,310 0 0 5,361,503 202,807 0 0 1,183,533 1,085,197 46,372 51,964	2,98 2,98 2,98 43,20 512,71
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Cvil Avlation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Iransport) Other Sectors Agriculture Commerce and Public Services	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	0 0 16,921 0 0 0 2,779 0 0 11,079,941 0 0 11,079,800 141 0 0 0 141,766 19,245	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 13,927 0 0 0 3,429 0 0 5,787 0 0 5,672 115 0 0	0 0 0 0 710,696 0 0 0 223,788 0 0 5,564,310 0 0 5,361,503 202,807 0 0 0	2,98 2,98 2,98 43,20 512,71
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Senices Residential Non-specified (Other)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 0 76 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 16,921 0 0 0 0 2,779 0 0 11,079,941 0 0 11,079,800 0 141,079,800 0 141,079,800 141,079,800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 13,927 0 0 0 3,429 0 0 0 5,672 115 0 0 0 5,672 115 0 0 0 5,672 115 0 0	0 0 0 0 710,696 0 0 0 223,788 0 0 5,564,310 0 0 5,361,503 202,807 0 0 1,183,533 1,085,197 46,372 51,964	1,82 2,98 2,98 556,88 43,20 512,71
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avation Domestic Air Transport Road Rail Pipeline Transport Internal Navgation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Senices Residential Non-specified (Other) Non-Energy Use	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 0 1 1 0 0 0 1 1 0 0 5 5 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 0 16,921 0 0 0 2,779 0 11,079,941 0 11,079,800 141 0 0 12,779 0 141,079,800 141,079,800 141,079,800 141,079,800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 22,424 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 13,927 0 0 0 3,429 0 0 5,787 115 0 0 0 774,331 85,609 2,579 686,144	0 0 0 0 710,696 0 0 0 223,788 0 0 0 5,564,310 0 0 5,361,503 202,807 0 0 0 1,183,533 1,085,197 46,372 51,964	2,98 2,98 2,98 556,88 43,20 512,71
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Irransport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Mon-Energy Use Memo:Non-Energy Use Ind/Transl/Ener	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 7,059 0 0 0 0 76 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 16,921 0 0 0 0 2,779 0 0 11,079,941 0 0 11,079,800 0 141,079,800 0 141,079,800 141,079,800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 2,076,580 945,181 1,131,399 0 0 0 0 0 0 0	0 0 0 13,927 0 0 0 3,429 0 0 0 5,672 115 0 0 0 5,672 115 0 0 0 5,672 115 0 0	0 0 0 0 710,696 0 0 0 223,788 0 0 5,564,310 0 0 5,361,503 202,807 0 0 1,183,533 1,085,197 46,372 51,964	556,88 43,20 512,71 97
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use Ind/Transf/Ener Memo:Non-Energy Use in Transport	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 7,059 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	0 0 16,921 0 0 0 2,779 0 0 11,079,941 0 0 11,079,800 0 141,00 0 142,112 147,766 19,245 25,101 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 2,076,580 945,181 1,131,399 0 0 0 0 0 0 0	0 0 0 13,927 0 0 0 3,429 0 0 5,787 0 0 5,672 115 0 0 0 774,331 85,609 2,579 686,144 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,98 2,98 2,98 43,20 512,71
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use Ind/Trans/Ener	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 7,059 0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 0	0 0 16,921 0 0 2,779 0 11,079,941 0 11,079,800 141 0 0 12,45 25,101 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 22,424 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 2,076,580 945,181 1,131,399 0 0 0 0 0 0 0	0 0 0 13,927 0 0 0 0 3,429 0 0 5,787 0 0 5,672 115 0 0 0 774,331 85,609 2,579 686,144	0 0 0 710,696 0 0 0 223,788 0 0 0 5,564,310 0 0 0 5,361,503 202,807 0 0 0 1,183,533 1,085,197 46,372 51,964	2,98 2,98 2,98 43,20 512,71 97
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internat Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Ron-specified (Other) Non-Energy Use Memo:Non-Energy Use Ind/Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Oth.Sect. Memo:Feedst.Use in Petchem. Ind.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 16,921 0 0 2,779 0 11,079,941 0 11,079,800 141,079,800 141,079,800 19,245 25,101 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 13,927 0 0 0 3,429 0 0 0 5,787 115 0 0 0 774,331 85,609 2,579 686,144 0	0 0 0 0 710,696 0 0 0 223,788 0 0 0 5,564,310 0 0 0 0 0 0 0 0 1,183,533 1,085,197 46,372 51,964 0 0	556,88 43,20 512,71
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Aviation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Irransport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use Ind/Trans//Ener Memo:Non-Energy Use Memo:Non-Energy Use Memo:Non-Energy Use Memo:Non-Energy Use in Transport	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 16,921 0 0 0 2,779 0 0 11,079,941 0 0 11,079,800 0 141,00 0 142,112 147,766 19,245 25,101 0 0	0 0 0 0 0 0 0 0 0 0 22,424 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 945, 181 1, 131, 399 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 13,927 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 710,696 0 0 0 223,788 0 0 0 5,564,310 0 0 5,361,503 202,807 0 0 0 1,183,533 1,085,197 46,372 51,964	556,88 43,20 512,71 97
Non-Metallic Minerals Transport Equipment Machinery Mining and Quarrying Food and Tobacco Paper Pulp and Print Wood and Wood Products Construction Textile and Leather Non-specified (Industry) Transport Sector International Civil Avlation Domestic Air Transport Road Rail Pipeline Transport Internal Navigation Non-specified (Transport) Other Sectors Agriculture Commerce and Public Services Residential Non-specified (Other) Non-Energy Use Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Transport Memo:Non-Energy Use in Oth.Sect. Memo:Non-Energy Use in Oth.Sect. Memo:Pedest.Use in Petchern. Ind. Elect.Output in GWh Elect.Output bile elec. plant	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 7,059 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 0	0 0 16,921 0 0 2,779 0 0 11,079,941 0 0 11,079,800 141 0 0 147,766 19,245 25,101 0 0 0	0 0 0 0 0 0 0 0 0 0 22,424 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 13,927 0 0 0 0 3,429 0 0 5,787 115 0 0 0 774,331 85,609 2,579 686,144 0 0	0 0 0 0 710,696 0 0 0 223,788 0 0 0 5,564,310 0 0 0 0 0 0 0 1,183,533 1,085,197 46,372 51,964	6,69 1,82 2,98 2,98 556,88 43,20 512,71
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White Spirit	GY BALAN Lubricants	CE - 2004 (Bitumen	Disaggre Parrafin Wax	Other Petroleum products	ral Units) - (Nuclear	Hydro	Solar	Wind	Electricity
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	White Spirit kl 94,267 0 1,279 1,279 0 0 92,174 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	White Lubricants Spirit Id tons 94,267 376,140 0 0 0 120,347 -3,372 -91,146 0 0 0 0 0 <	White Spirit Lubricants (N) Bitumen (T) 84,267 376,140 411,997 0 0 0 1,279 120,347 115 0 0 0 2-3,372 -91,146 -135,131 0 0 0 </td <td> White Spirit Wax Wax Spirit Spirit Wax Spirit Spirit Wax Spirit Spiri</td> <td> White Lubricants Spirit Spirit</td> <td> White Spirit Sp</td> <td> White Lubricants Shitumen Shirt Ward War</td> <td> Spirit M</td> <td> White Spirit Wind Spir</td>	White Spirit Wax Wax Spirit Spirit Wax Spirit Spirit Wax Spirit Spiri	White Lubricants Spirit Spirit	White Spirit Sp	White Lubricants Shitumen Shirt Ward War	Spirit M	White Spirit Wind Spir

Notes

Section 4

Coal

South Africa's indigenous energy resource base is dominated by coal. Many of the deposits can be exploited at extremely favourable costs. As a result, a large coal-mining industry has developed. Coal for local electricity production is among the cheapest in the world. The country ranks as the world's fifth largest coal producer. In addition to the extensive use of coal in the domestic economy, large amounts are exported, mainly through the Richards Bay Coal Terminal. South Africa is ranked the fourth-largest exporter of steam coal.

South Africa's coal comes from collieries ranging in output from 100 000 to more than 10 million tons per year. With mergers and purchases, the number of operating collieries was 64 in 2004. The coal-mining industry is highly concentrated, with three companies – Ingwe (BHP Billiton), Anglo Coal, Sasol, Eyeziswe and Kumba – accounting for 85% of local production. A relatively small number of large-scale producers supply coal, primarily to the electricity and synthetic fuel producers.

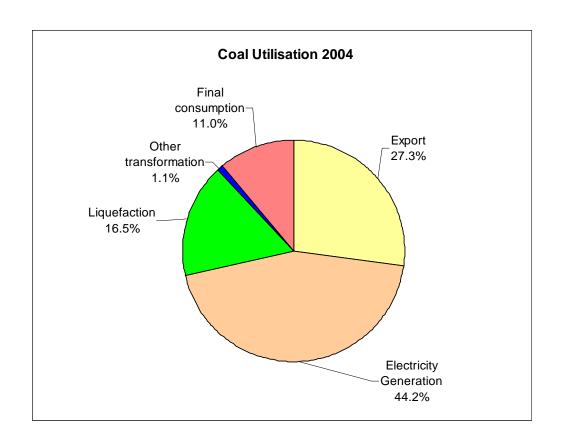
About 51% of South African coal mining is underground and the rest is opencast. Of the coal mined underground, some 50% is produced by long walling, 5% by pillar recovery, and 35% by bord-and-pillar mining and the remainder by other methods.

The beneficiation of coal, particularly for export, results in more than 65 Mt of coal discards being produced annually. Of the run-of-mine coal produced, 21% goes to the export market, and 21% is used for local demand (excluding power-station coal). The rest is not saleable and is therefore discarded. Total discards could reach 2 000 Mt by the year 2020. Ways to make use of these discards are therefore being investigated.

The Minerals and Petroleum Resources Development Act will regulate mining rights in future, and all mineral rights will be vested in the state. According to the Bill, the principle of 'use it and keep it' will be applicable to all existing mineral rights holders.

Coal Utilisation- Kt

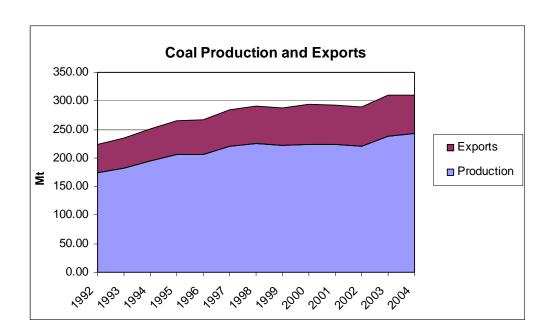
	2003	%	2004	%
Export	71,530	29.6%	67,946	27.3%
Electricity Generation	103,073	42.6%	109,974	44.2%
Liquefaction	39,582	16.4%	41,051	16.5%
Other transformation	2,468	1.0%	2,633	1.1%
Final consumption	25,378	10.5%	27,379	11.0%
Total	242,031		248,983	



Production and Exports of Coal-Mt

	Bitumi	nous	Anthr	acite	Tot	al
Year	Production	Exports	Production	Exports	Production	Exports
1992	171.10	47.38	3.32	2.26	174.42	49.64
1993	179.03	50.10	3.25	2.09	182.28	52.19
1994	193.52	52.79	2.22	2.04	195.75	54.84
1995	204.07	57.66	2.14	2.02	206.21	59.68
1996	203.90	58.02	2.47	2.20	206.36	60.22
1997	217.87	63.15	2.00	1.65	219.87	64.80
1998	222.79	64.76	2.04	1.38	224.83	66.13
1999	220.40	63.80	1.87	1.11	222.27	64.91
2000	222.52	68.78	1.62	1.12	224.14	69.91
2001	222.11	68.24	1.46	0.97	223.56	69.21
2002	218.91	68.47	1.30	0.76	220.21	69.23
2003	237.54	70.95	1.21	0.58	238.75	71.53
2004	241.57	67.03	1.25	0.92	242.82	67.95

Sources: Mineral Bureau

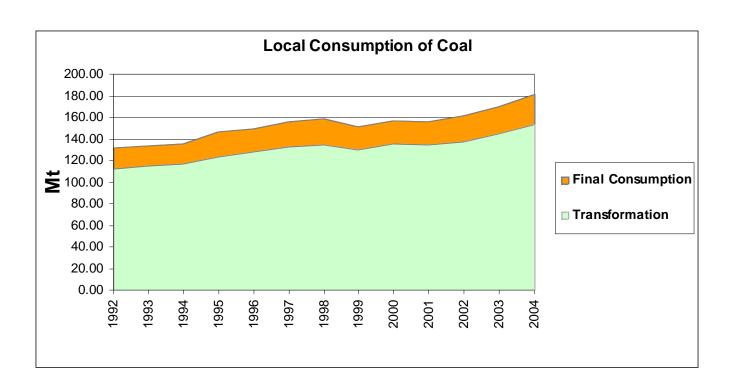


Primary Supply of Coal-Mt

			Statistical			Energy	Final
Year	Available	Import	Differences	Stockpiling	Transformation	Sector	Consumption
1992	134.45	0.00	2.49	0.00	112.27	0.00	19.68
1993	136.50	0.00	2.82	0.00	115.15	0.00	18.53
1994	140.97	0.00	5.43	0.00	116.84	0.00	18.70
1995	146.53	0.36	0.00	0.31	123.58	0.00	23.63
1996	146.14	0.43	-0.77	2.84	128.36	0.00	21.81
1997	155.87	0.43	-2.33	-2.45	132.85	0.00	23.33
1998	161.68	1.17	-8.51	-12.22	135.31	0.00	23.82
1999	148.20	0.86	-4.54	-1.68	130.21	0.00	21.72
2000	154.29	1.11	-0.14	1.74	135.53	0.00	21.74
2001	154.35	1.13	1.37	1.93	134.55	0.00	21.48
2002	150.98	1.58	-10.20	-0.96	138.12	0.00	23.68
2003	238.75	1.59	-3.93	-2.23	145.12	0.00	25.38
2004	242.82	1.68	-2.04	2.44	153.66	0.00	27.38

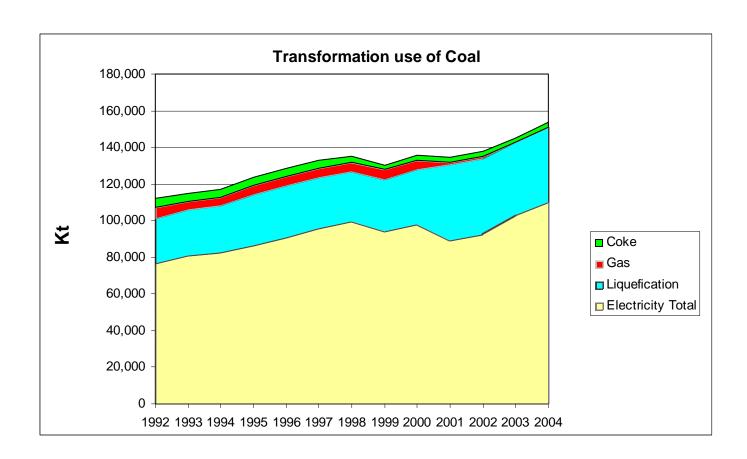
Source: National Energy Balances

Available=final consumption + energy sector + transformation - stockpiling (stock changes) + statistical differences - imports



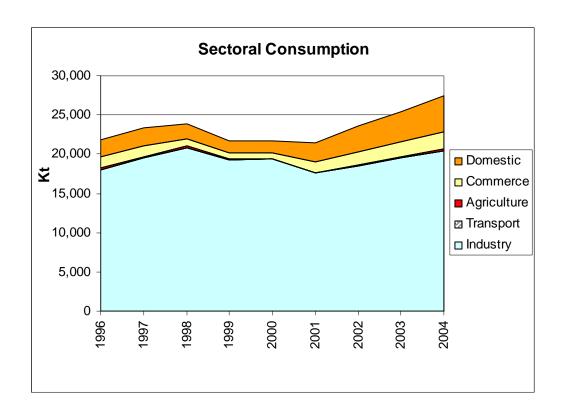
Transformation Sector Coal Use-Kt

		Other					
Year	Eskom	electricity	Electricity Total	Liquefication	Gas	Coke	Total
1992	72,919	3,917	76,836	24,457	6,112	4,866	112,271
1993	77,294	3,407	80,701	25,317	4,433	4,702	115,154
1994	79,140	3,424	82,564	25,506	4,483	4,283	116,836
1995	82,603	3,833	86,436	28,051	4,868	4,220	123,576
1996	87,214	3,679	90,893	28,526	4,982	3,958	128,359
1997	91,870	3,781	95,651	27,766	5,363	4,072	132,853
1998	95,556	4,075	99,631	27,541	4,799	3,337	135,309
1999	90,057	4,208	94,265	28,557	4,938	2,446	130,207
2000	93,845	4,298	98,143	29,878	4,941	2,569	135,532
2001	87,362	1,912	89,275	41,682	849	2,746	134,551
2002	90,619	2,107	92,726	41,515	952	2,926	138,119
2003	99,705	3,369	103,074	39,582	0	2,468	145,124
2004	107,332	2,642	109,974	41,052	0	2,633	153,659



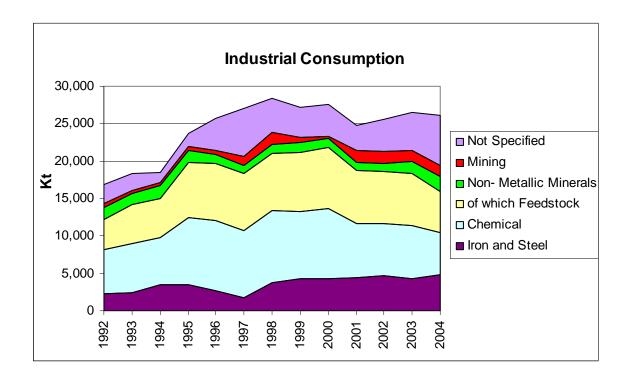
Final Demand for Coal by Sector- Kt

_					<i>y</i>		
	Year	Industry	Transport	Agriculture	Commerce	Domestic	Total
	1996	18,039	23	242	1,302	2,200	21,807
	1997	19,479	2	241	1,356	2,250	23,327
	1998	20,814	23	182	935	1,870	23,824
	1999	19,289	0	100	777	1,553	21,718
	2000	19,364	0	69	770	1,541	21,744
	2001	17,574	2	101	1,315	2,487	21,479
	2002	18,564	0	90	1,694	3,332	23,681
	2003	19,477	0	122	1,945	3,835	25,379
	2004	20,489	0	166	2,258	4,516	27,430
_	2003	19,477	0	122	1,945	3,835	25,379



Industrial Sector Use of Coal-kt

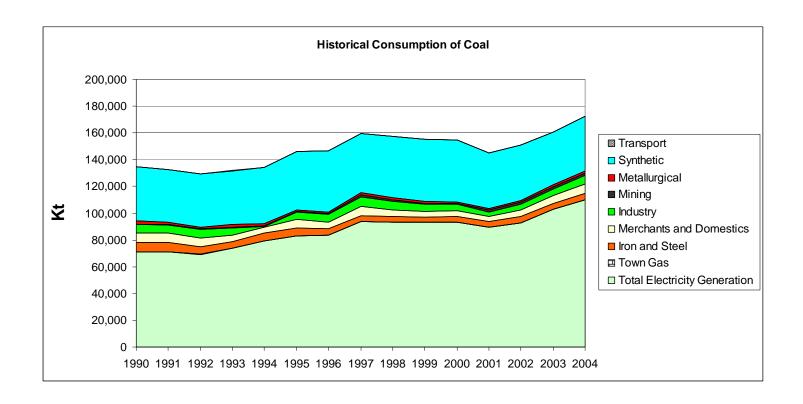
				Non-			
	Iron and		of which	Metallic		Not	
Year	Steel	Chemical	Feedstock	Minerals	Mining	Specified	Total
1992	2,294	5,809	4,148	1,597	506	2,530	12,736
1993	2,433	6,540	5,165	1,470	470	2,257	13,171
1994	3,487	6,294	5,203	1,723	388	1430	13,323
1995	3,507	8,929	7,349	1,607	603	1,708	16,354
1996	2,709	9,290	7,625	1,206	555	4,280	18,039
1997	1,758	8,973	7,617	1,072	1,248	6,428	19,479
1998	3,747	9,702	7,555	1,259	1,517	4,589	20,814
1999	4,332	8,974	7,834	1,298	751	3,934	19,289
2000	4,277	9,376	8,196	1,248	145	4,318	19,364
2001	4,373	7,213	7,213	1,073	1,528	3,387	17,574
2002	4,728	6,961	6,961	1,079	1,508	4,287	18,564
2003	4,325	7,000	7,000	1,685	1,416	5,050	19,477
2004	4,816	5,577	5,577	1,953	1,499	6,644	20,489



Historical Consumption of Coal

			Total			Merchants						
			Electricity		Iron and	and						Total Inland
Year	Eskom	Other	Generation	Town Gas	Steel	Domestics	Industry	Mining	Metallurgical	Synthetic	Transport	Consumption
1990	69,075	2,176	71,251	116	6,953	6,963	6,174	452	2,533	40,287	69	134,797
1991	69,248	2,039	71,287	49	6,826	7,095	6,075	422	1,696	39,120	36	132,604
1992	67,389	1,882	69,271	45	5,791	6,451	6,177	506	1,370	39,960	9	129,580
1993	72,206	1,389	73,595	45	4,937	4,823	5,457	470	2,142	40,249	94	131,812
1994	76,998	2,249	79,247	62	5,767	4,415	517	388	2,003	41,734	42	134,174
1995	80,629	2,193	82,821	60	5,822	6,674	5,172	603	1,509	43,356	54	146,071
1996	81,274	2,100	83,374	10	4,877	5,269	5,557	506	1,313	45,640	17	146,564
1997	91,272	2,264	93,535		4,725	6,787	7,325	1,257	1,719	44,329	2	159,679
1998	91,049	2,213	93,262	37	4,350	4,749	6,272	1,517	1,620	45,544	23	157,374
1999	91,768	1,719	93,487	0.4	3,678	4,268	5,076	764	1,406	46,559		155,238
2000	91,811	1,556	93,367	0	4,465	3,920	5,175	145	1,272	46,335		154,680
2001	87,362	1,912	89,274	0	4,373	3,802	3,387	1,528	1,073	41,682	2	145,122
2002	90,619	2,107	92,726	0	4,728	5,026	4,287	1,508	1,079	41,515		150,870
2003	99,705	3,369	103,074	0	4,325	5,780	5,050	1,416	1,685	39,582		160,912
2004	107,332	2,642	109,974	0	4,816	6,774	6,644	1,499	1,953	41,051		172,712

Source: Minerals Bureau



Notes

Section 5

Oil

South Africa has very limited oil reserves and about 95% of its crude oil requirements are met by imports from the Middle East and Africa (Saudi Arabia, Iran, Kuwait, the United Arab Emirates, Yemen, Qatar, Iraq, Nigeria, Egypt and Angola).

Refined petroleum products such as petrol, diesel, residual fuel oil, paraffin, jet fuel, aviation gasoline, liquefied petroleum gas (LPG) and refinery gas are produced by the following methods:

- Crude oil refining (Oil refineries)
- Coal to liquid fuels and gas to liquid fuels (Sasol)
- Natural gas to liquid fuels (PetroSA)

The major players and capacities (measured in barrels per day) of South Africa's oil refineries are indicated below.

South African oil refineries and their capacities

Refinery	Location	Owners	Capaci	ty (1 000	barrels pe	er day)	
			1992	1997	2000	2002	2004
Sapref	Durban	BP & Shell	120	165	180	180	180
Enref	Durban	Engen	70	105	105	125	135
Calref	Cape Town	Caltex	50	100	100	100	100
Natref	Sasolburg	Sasol &Total	78	86	86	103	108
Sasol	Secunda	Sasol	*150	*150	*150	150	*150
PetroSA	Mossel Bay	State-owned	*45	*45	*45	45	*45

*Crude equivalent

Note: These figures reflect the expansion in capacity at conventional refineries. PetroSA came on stream in the fourth quarter of 1992.

Source: South African Petroleum Industry Association

Another major role player in South Africa's liquid fuels industry is the Central Energy Fund (Pty) Ltd (CEF). It is mandated by the state to engage in the acquisition, exploration, generation, manufacture, marketing and distribution of any energy form, especially oil and gas. It also engages in research relating to the energy sector. The CEF's diversified portfolio of activities is housed in the following active subsidiaries:

Strategic Fuel Fund Association (SFF)

The SFF was established to procure and store crude oil and to manage strategic crude oil stocks for South Africa. It trades and leases spare storage ullage and is involved in oil pollution control.

The Petroleum Oil and Gas Corporation of South Africa (Pty) Ltd (PetroSA)

PetroSA owns and operates the world's largest gas-to-liquids plant at Mossel Bay (a harbour town 400 km east of Cape Town). PetroSA is also involved in oil and gas exploration and production and its offshore production platform supplies gas and condensate by pipeline to its onshore plant for conversion into a range of environmentally friendly transportation fuels and associated products for the domestic as well as international markets.

Petroleum Agency South Africa (Pasa)

This agency promotes and markets exploration in South African territory – both offshore and onshore – for oil and gas, negotiates and monitors concessions and licenses on behalf of the government, and is the custodian of geological and geophysical data.

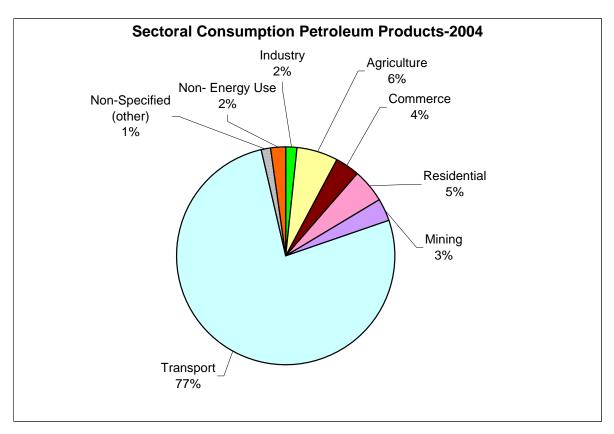
iGas

iGas is a state owned entity for the development of gas infrastructure in South Africa. iGas has partnered Sasol and ENH of Mozambique in the natural gas pipeline from Mozambique to South Africa. The Mozambique/South Africa gas transmission pipeline was brought into official operation on 26 March 2004.

The wholesale and retail markets for petroleum products in South Africa are subject to a set of government controls. The government regulates wholesale margins and controls the retail price of petrol. The industry has entered into product exchange agreements to serve different markets. Together, these controls provide for access to fuel throughout the county and protect consumers, while providing a reasonable return on investment to the oil industry and enhancing opportunities for employment.

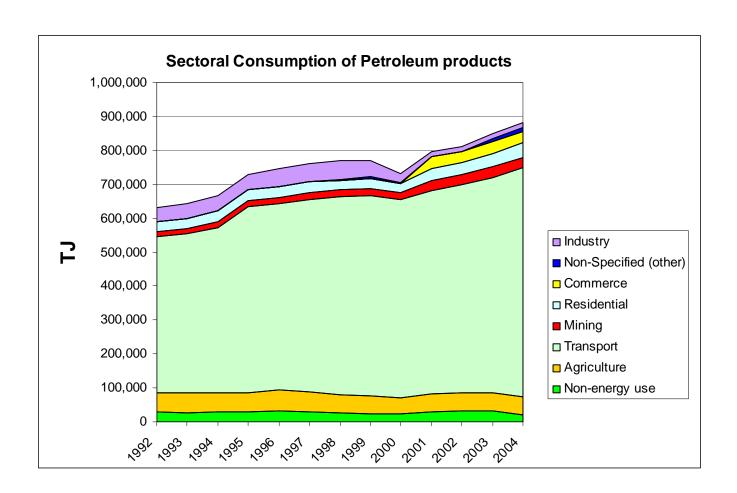
The refiners and wholesale marketers move product from the refineries by coastal barge, rail, truck and pipeline to roughly 200 depots. From these, approximately 4 600 service stations and 100 000 direct consumers (mostly farmers) are served.

Refineries and Sasol produce LPG and illuminating paraffin (kerosene). Most LPG is consumed in the country and the rest is used in refineries as fuel and/or exported to neighbouring countries. Kerosene and LPG are distributed via a very long chain, with many middlemen between the producer and the end-user. Kerosene is often purchased by end-users in self-owned used plastic or glass containers.



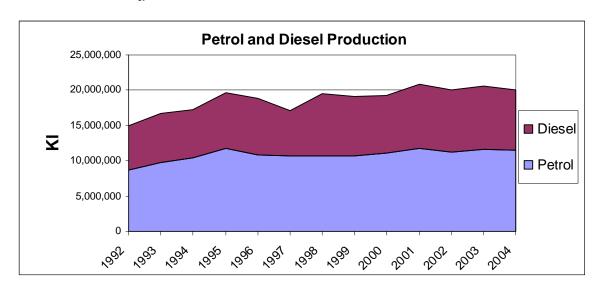
Sectoral Consumption of Petroleum Products-TJ

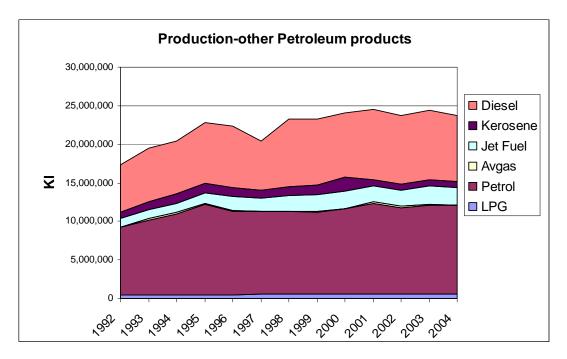
	Non-energy						Non- Specified	
Year	use	Agriculture	Transport	Mining	Residential	Commerce	(other)	Industry
1992	28,938	57,421	458,436	16,812	28,832	132	150	41,091
1993	26,983	58,770	467,640	16,446	29,470	142	0	42,979
1994	29,109	57,811	485,877	17,477	30,800	503	0	46,277
1995	28,357	58,301	546,417	17,862	33,625	182	0	44,984
1996	31,600	62,750	548,162	18,677	30,682	148	0	55,123
1997	29,828	57,655	567,087	20,453	31,820	1,226	0	52,142
1998	26,100	54,215	582,419	20,342	27,033	369	3,403	55,609
1999	24,740	51,413	589,823	20,822	30,506	206	4,231	48,313
2000	22,352	48,009	584,476	21,927	25,214	151	2,477	26,834
2001	29,721	52,229	600,792	27,068	37,779	32,852	0	14,930
2002	31,687	53,730	613,816	28,231	35,909	32,162	0	15,401
2003	31,000	53,162	636,486	30,673	39,637	34,062	9,328	16,461
2004	20,000	52,661	675,863	30,795	43,278	32,295	11,633	15,796



Production of Petroleum Products - kl

Year	LPG	Petrol	Avgas	Jet Fuel	Kerosene	Diesel
1992	461,976	8,742,512	66,737	1,077,224	833,312	6,182,916
1993	468,484	9,708,816	146,286	1,211,295	1,036,677	6,943,737
1994	494,119	10,467,381	163,469	1,192,533	1,253,296	6,839,224
1995	492,393	11,736,662	116,155	1,392,420	1,148,516	7,928,506
1996	472,645	10,844,193	146,724	1,805,984	1,136,998	7,961,507
1997	527,374	10,712,798	28,496	1,776,386	982,939	6,334,935
1998	524,159	10,744,141	66,580	1,993,629	1,178,454	8,762,426
1999	535,935	10,651,184	89,235	2,201,708	1,266,576	8,493,178
2000	569,849	11,036,056	65,142	2,224,226	1,863,738	8,265,373
2001	599,508	11,740,861	222,426	2,071,056	807,601	9,116,140
2002	585,225	11,196,257	209,569	2,067,974	794,791	8,815,388
2003	569,313	11,577,945	72,464	2,367,009	775,794	9,066,560
2004	564,172	11,554,692	12,391	2,246,365	792,202	8,526,883

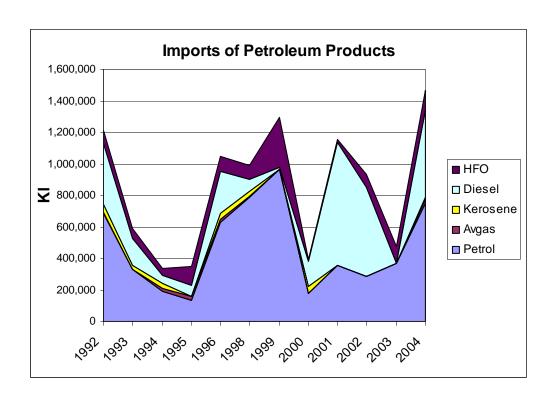




Imports of Petroleum Products -kl

Year	Petrol	Avgas	Kerosene	Diesel	HFO
1992	688,804	2,024	50,717	390,711	83,249
1993	328,878	4,251	25,366	168,419	61,051
1994	191,442	18,976	31,602	51,319	40,444
1995	134,752	21,127	0	75,568	120,397
1996	630,213	18,591	37,375	267,283	93,062
1998	786,598	4,788	37,132	70,217	90,040
1999	962,332	2,833	48	12,302	315,776
2000	179,442	119	40,043	159,847	15,542
2001	354,669	0	0	781,413	18,042
2002	283,843	3	16	567,643	83,670
2003	369,634	7	1	311	107,524
2004	751,389	23,358	12,704	554,264	127,028

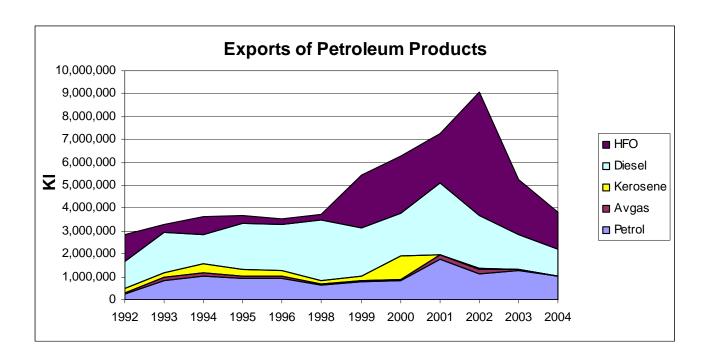
Source: National Energy Balances Note: No import data available for 1997



Exports of Petroleum Products - kl

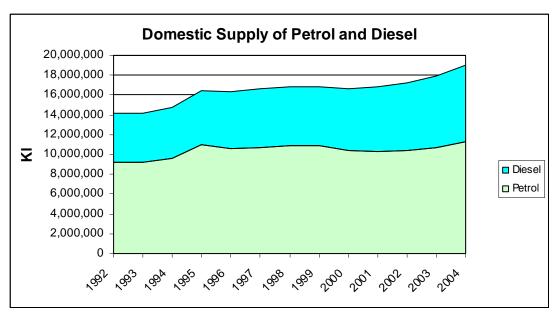
Year	Petrol	Avgas	Kerosene	Diesel	HFO
1992	260,880	41,497	183,532	1,177,748	1,172,333
1993	835,627	125,712	207,950	1,780,123	338,276
1994	1,029,258	156,052	382,172	1,259,269	811,151
1995	927,061	111,221	285,306	1,998,842	331,962
1996	907,651	140,158	242,353	2,007,313	231,470
1998	647,536	44,882	154,160	2,641,754	214,853
1999	764,900	65,321	205,935	2,120,916	2,281,742
2000	828,333	40,623	1,047,957	1,847,896	2,497,699
2001	1,761,203	196,459	21,120	3,099,197	2,172,371
2002	1,144,695	184,718	48,637	2,311,307	5,390,476
2003	1,278,629	49,941	6,670	1,519,573	2,411,278
2004	1,014,328	13,325	7,431	1,167,074	1,617,496

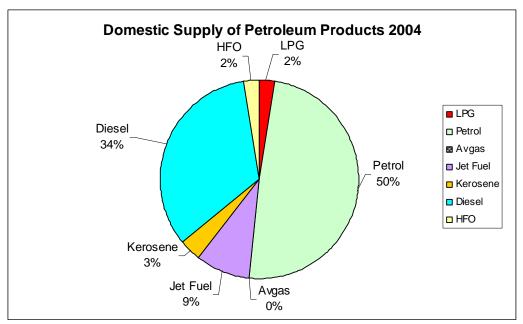
Source: National Energy Balances Notes: No export data available for 1997



Domestic Supply of Petroleum Products-kl

Year	LPG	Petrol	Avgas	Jet Fuel	Kerosene	Diesel	HFO
1992	461,976	9,170,436	27,264	999,950	764,887	4,985,184	560,109
1993	468,484	9,202,067	24,825	1,211,295	854,093	4,976,806	591,845
1994	494,119	9,629,565	26,393	1,192,533	902,726	5,139,875	644,561
1995	492,393	10,944,353	26,062	1,392,420	863,210	5,482,687	615,939
1996	472,645	10,566,755	25,157	1,601,006	932,020	5,809,638	719,725
1997	527,374	10,712,798	28,496	1,776,386	982,939	5,912,661	634,300
1998	524,159	10,883,203	26,486	1,876,601	1,061,426	5,959,204	615,536
1999	535,935	10,848,616	26,747	1,995,820	1,060,688	5,984,367	561,728
2000	569,849	10,387,164	24,638	1,975,064	855,824	6,230,110	24,527
2001	599,508	10,334,327	25,967	1,922,397	786,481	6,486,015	563,745
2002	585,562	10,355,404	24,854	1,967,292	746,169	6,830,544	535,664
2003	568,701	10,668,950	22,530	2,085,135	769,125	7,263,272	527,513
2004	563,601	11,291,753	22,424	2,076,580	797,474	7,682,327	568,386





Electricity

Eskom is the public electricity utility and supplies more than 95% of the country's electricity requirements. This amounts to more that half of the electricity generated in Africa. With 24 power stations at a capacity of 39 810 MW, Eskom is among the top seven utilities in the world in terms of generation capacity and among the top nine in terms of sales. It is also one of the four cheapest electricity producers worldwide and currently has surplus generation capacity. This surplus will no longer exist in 2007.

Although Eskom is still a parastatal, the government has plans to restructure part of the company in line with the envisage Electricity Supply Industry model. The table below shows the current generation capacity by energy source. The nominal generation capacity of Eskom is not being met because some power stations have been mothballed and some are running below capacity because the capacity is not needed.

Analysis of South African licensed electricity capacity by fuel

Energy source	Capacity (MW)
Coal	38 209
Nuclear	1 800
Bagasse	105
Hydro	668
Gas turbines	660
Pumped storage	1 580
Total	43 022

Source: National Electricity Regulator, 2004

Eskom owns thirteen coal-fired power stations, 11 located in Mpumalanga and one each in the Free State and Limpopo. Three of the older stations in Mpumalanga have been mothballed owing to surplus capacity. Camdem (1 600 MW), Grootvlei (1 200 MW) and Komati (1 000 MW) are in working order and will be brought on stream as more capacity is needed. There are currently plans to build new coal-fired, gas and pumped storage power stations to meet electricity growth demand projected at 1 500MW per annum.

Most thermal stations are located in Mpumalanga, close to the coalfields, because their coal requirements are immense. This means that electricity has to be transmitted long distances to the rest of the country and throughout Africa. Eskom owns a nuclear power station, Koeberg, located approximately 25 km northwest of Cape Town. It uses a standard pressurised water reactor and supplies electricity to the Western Cape. The fuel used is enriched uranium. Low-

and medium-level waste is transported by road in steel and concrete containers to a disposal site 600 km away at Vaalputs in the Kalahari Desert. The spent high-level waste fuel is stored on site, in special pools equipped with high density racking.

The government has granted Eskom permission to do a feasibility study on developing a new nuclear technology, the Pebble Bed Modular Reactor (PBMR). A demonstration model will be built to allow assessment of the techno-economic viability of the project.

South Africa is a dry country with few suitable rivers for hydro-electricity production. Most of their small capacity has been used. There are two stations on dams in the Orange River. There are three pumped storage schemes, Drakensberg and Palmiet (Eskom) and Steenbras (municipal), with a combined capacity of 1 580 MW.

Two gas turbines with 171 MW in capacity each are only used during peak demand and for stand-by power. They are simple single-cycle stations, with low capacity costs, but are very expensive to run. If South Africa decides to use gas for large-scale power generation, combined cycle gas turbines will be used. This technology is efficient, with low capital costs and emission factors.

Electricity is generated from bark and black liquor in the pulp and paper industry and bagasse in sugar refineries. This is not quantified as it is all used by the industries for their own needs and none is fed into the national grid. The lack of arable land for increasing forests and sugar cane plantations means there is little prospect of substantially increasing this generation. Government is looking at increasing the co-generation level, due to (i) energy efficiency opportunity (ii) potential for renewable energy generation and (iii) the possible improvement of security of supply due to the distributed generation. Co-generation involves harnessing the energy that would otherwise have been dissipated as waste heat and to use that heat to generate electricity.

Eskom has 26 461 km of transmission lines, which span the country and carry power to neighbouring countries. These very long distances lead to transmission losses, and other problems such as supply quality.

The net electricity output by Eskom totalled 220 152 GWh of electricity in 2004. There are special Eskom divisions to streamline supply to different types of endusers and about 63,8% of electricity sales are direct to the consumer. The remaining approximately 36,2% is sold to local authorities. These authorities own and service their own distribution networks and resell the power to end-users.

By the end of 2006 the national grid reached 73% of the population. The biggest challenge is the electrification of the huge formal and informal urban settlements. Some of the rural areas are difficult to electrify via the grid because of cost

limitations relating to sparse settlements and distance from existing infrastructure. Between 1994 and 2000, Eskom committed itself to connect 2,5 million houses. That commitment was exceeded by 750 homes, one year ahead of target.

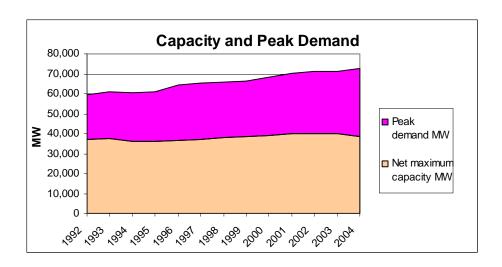
Electricity Capacity and Demand

Year	Net maximum capacity MW	Peak demand MW	New connections
1992	36,846	22,640	232,555
1993	37,636	23,169	331,909
1994	35,926	24,798	435,756
1995	35,951	25,133	478,767
1996	36,563	27,967	453,995
1997	37,175	28,329	499,311
1998	37,848	27,803	427,426
1999	38,517	27,813	443,290
2000	39,186	29,188	397,019
2001	39,810	30,599	336,918
2002	39,810	31,621	338,572
2003	39,810	31,621	298,791
2004	38,436	34,195	248,451

Sources: Integrated National Electrification Planning Manual

Eskom Annual Reports (2004)

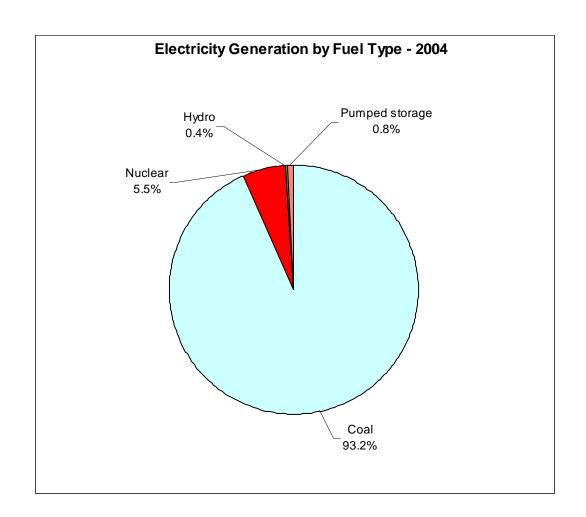
NER Electricityupply Statistics 2003 & 2004



Electricity - Generation by Fuel Type - GWh

				Pumped		
Year	Coal	Nuclear	Hydro	storage	Imports	Exports
1992	156,443	9,288	752	1,333	334	1,814
1993	165,835	7,255	146	1,345	100	2,589
1994	170,164	9,697	1,074	1,517	54	2,679
1995	174,721	11,301	529	1,274	149	3,000
1996	184,952	11,775	1,319	2,220	29	5,579
1997	192,705	12,647	2,092	2,608	5	6,617
1998	187,758	13,601	1,595	2,420	2,375	4,532
1999	186,859	12,837	726	2,590	6,673	4,266
2000	193,419	13,010	1,343	2,591	4,719	4,007
2001	183,541	10,719	2,061	1,587	9,200	6,996
2002	190,019	11,991	2,357	1,738	9,496	7,242
2003	202,464	12,663	3,509	3,006	8,194	10,263
2004	212,406	13,365	4,452	3,822	9,818	13,254

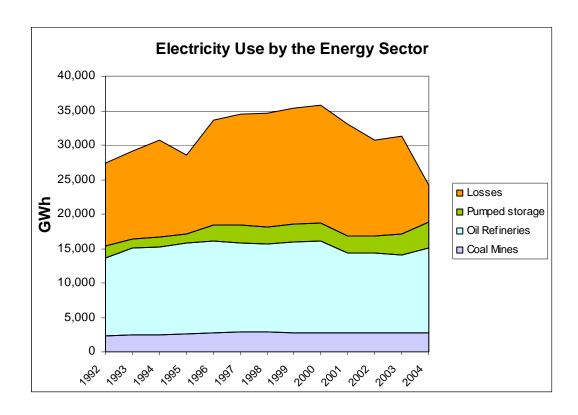
Sources: National Energy Balances and Eskom Annual Report - 2004



Electricity Use by the Energy Sector - GWh

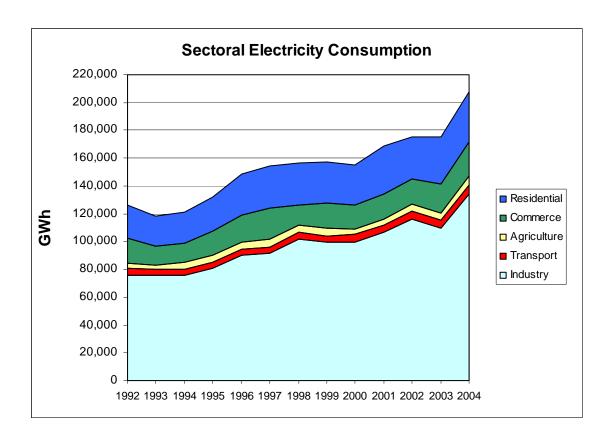
Year	Coal Mines	Oil Refineries	Pumped storage	Losses
1992	2,349	11,206	1,826	12,033
1993	2,414	12,653	1,345	12,759
1994	2,526	12,630	1,517	14,031
1995	2,566	13,232	1,274	11,532
1996	2,732	13,423	2,220	15,294
1997	2,848	12,908	2,608	16,094
1998	2,836	12,832	2,420	16,534
1999	2,725	13,283	2,590	16,812
2000	2,761	13,331	2,591	17,053
2001	2,803	11,580	2,357	16,251
2002	2,815	11,571	2,479	13,820
2003	2,690	11,386	3,005	14,160
2004	2,788	12,289	3,822	5,268

Source: Eskom Annual Report 2004 Source: National Energy Balances



Final Consumption of Electricity - GWh

Year	Industry	Transport	Agriculture	Commerce	Residential
1992	76,084	4,629	4,038	17,484	24,253
1993	75,707	4,017	3,108	13,586	21,542
1994	75,682	4,389	4,880	14,058	22,115
1995	80,657	4,297	5,301	17,307	24,369
1996	89,904	4,274	5,103	19,768	29,552
1997	91,460	4,563	5,640	22,170	30,722
1998	101,867	4,639	5,627	13,974	30,163
1999	99,673	4,429	5,755	17,709	29,511
2000	99,703	5,411	3,954	17,164	28,680
2001	106,469	5,562	4,175	18,301	34,623
2002	115,785	6,246	4,644	18,227	30,418
2003	109,589	5,565	5,142	21,071	34,074
2004	134,384	6,302	6,158	24,990	36,231



Electricity - Industrial Consumption - GWh

Year	Iron and steel	Chemicals	Non-ferrous metals	Non-metallic minerals	Transport equipment	Machinery
1992	11,402.0	3,179.0	6,147.0	986.0	4.0	95.0
1993	12,606.0	3,017.0	6,234.0	963.0	4.0	109.0
1994	14,604.0	3,150.0	5,945.0	1,051.0	6.0	100.0
1995	16,251.0	3,603.0	6,956.0	1,190.0	9.0	104.0
1996	15,630.0	2,524.0	13,046.0	1,143.0	9.0	115.0
1997	17,875.0	2,432.0	14,584.0	1,188.0	11.0	127.0
1998	18,865.0	2,629.8	14,769.3	1,155.0	15.1	36.9
1999	19,527.4	2,499.5	14,907.2	1,119.0	15.1	41.6
2000	20,913.4	2,640.4	15,037.7	1,153.7	69.3	53.2
2001	18,554.0	9,405.0	15,172.0	2,039.0	83.0	52.0
2002	20,331.0	9,744.0	15,441.0	2,277.0	88.0	44.0
2003	22,331.0	9,439.0	16,258.0	2,279.0	95.0	42.0
2004	23,271.0	9,889.0	17,953.0	2,195.0	85.0	43.0

Source: National Energy Balance

Electricity - Industrial Consumption - GWh

				Wood &			
		Food &		wood			Industry not
Year	Mining	Tobacco	Paper & Pulp	products	Construction	Textiles	specified
1992	33,962	375	939	491	20	372	18,113
1993	32,026	369	870	486	11	389	18,622
1994	32,668	411	843	505	15	414	15,969
1995	33,176	454	975	534	14	475	16,916
1996	34,831	503	969	590	16	491	20,037
1997	30,390	539	1,029	596	17	514	22,158
1998	29,204	578	1,039	623	20	373	32,588
1999	28,877	581	1,089	592	35	414	29,975
2000	29,038	639	1,494	412	34	376	27,842
2001	31,691	672	1,594	261	32	488	26,426
2002	32,204	673	1,557	289	115	523	32,499
2003	30,793	715	1,463	271	133	522	25,247
2004	32,828	720	1,513	290	52	525	45,024

Notes

Gas

Limited natural gas reserves exist around the South African coast. PetroSA exploits the reserves off the coast of Mossel Bay, where it is converted at the Mossgas plant into liquid fuels.

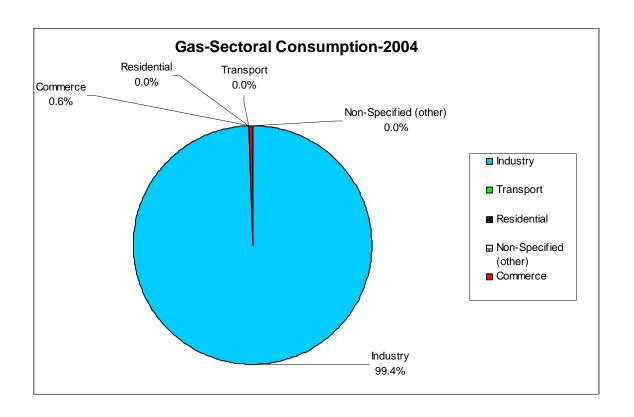
Sasol produces gas from coal, and built a gas pipeline to import gas from Mozambique. Prospects to import gas from Namibia to South Africa are also being researched.

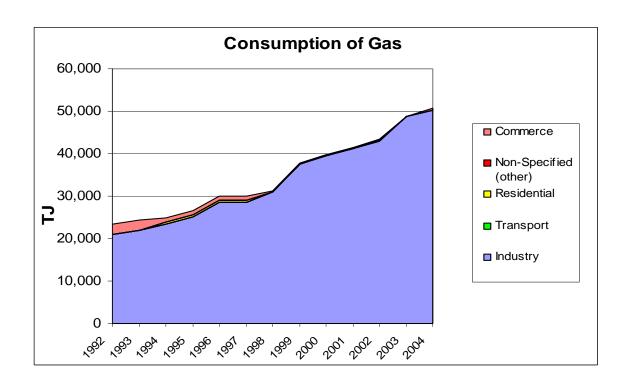
Even though the consumption of gas has increased in recent years, the importance of gas in the South African energy economy is still small compared to other countries. Industry remains the largest customer by far.

(See also notes under Section 5: Oil)

Gas-Sectoral Consumption-TJ

				Non- Specified		
Year	Industry	Transport	Residential	(other)	Commerce	Total
1992	21,010	5	0	0	2,521	23,536
1993	21,955	4	0	0	2,509	24,468
1994	23,318	0	518	0	1,048	24,884
1995	25,223	8	466	0	832	26,530
1996	28,588	14	470	0	839	29,912
1997	28,468	12	512	0	902	29,895
1998	31,071	13	0	0	107	31,191
1999	37,466	25	0	50	216	37,757
2000	39,532	29	0	38	231	39,830
2001	41,241	30	0	40	241	41,552
2002	43,048	31	0	42	251	43,372
2003	48,749	0	0	0	95	48,844
2004	50,361	0	0	0	310	50,671





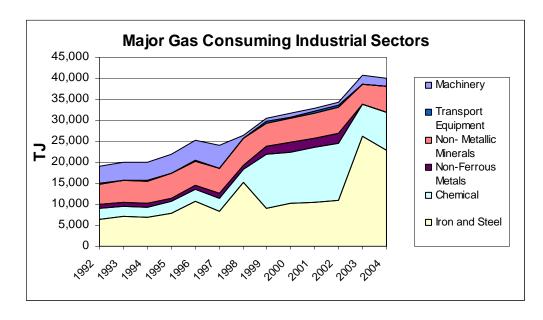
Gas-Industrial Consumption TJ

			Non-	Non-		
	Iron and		Ferrous	Metallic	Transport	
Year	Steel	Chemical	Metals	Minerals	Equipment	Machinery
1992	6,474	2,508	951	4,865	155	4,054
1993	7,092	2,455	1,002	5,077	154	4,153
1994	6,830	2,523	862	5,300	142	4,327
1995	7,960	2,642	805	5,861	168	4,573
1996	10,748	2,866	972	5,740	201	4,734
1997	8,372	2,948	1,230	5,918	174	5,414
1998	15,329	3,051	957	6,314	106	604
1999	8,965	12,929	1,886	5,511	357	752
2000	10,147	12,349	2,256	5,682	368	789
2001	10,586	12,883	2,354	5,927	384	824
2002	11,050	13,448	2,457	6,187	401	860
2003	26,147	7,701	0	4,740	0	2,184
2004	22,836	9,109	0	6,151	0	1,917

Source:National Energy Balances

Gas-Industry Consumption-TJ

			-	•		Industries
						not
Year	Mining	Food	Paper	Wood	Textiles	Specified
1992	461	785	335	264	15	143
1993	466	774	372	237	18	154
1994	430	840	399	248	19	1,397
1995	478	806	368	280	20	1,263
1996	325	949	388	271	101	1,293
1997	549	1,181	393	879	20	1,391
1998	498	1,154	371	170	18	2,501
1999	341	1,212	2,715	63	17	2,719
2000	378	1,251	2,967	68	18	3,257
2001	395	1,305	3,096	71	19	3,398
2002	412	1,362	3,231	75	20	3,547
2003	2,334	1,116	2,511	0	0	2,015
2004	2,312	924	2,251	0	0	4,860



Notes

Renewables

Photovoltaic modules are used in clinics, schools, for lighting, water pumps, television and telecommunication widely in the country. New technology such as super capacitors, fly wheels, fuel cells and chemical batteries are likely to be introduced to reduce the storage costs significantly.

A recent study indicates that the country has a high potential for renewable energy with up to 43 TWh of electricity that could be displaced by solar water heating. A study also indicates that the wind energy has a technical potential of 66 TWh to the electricity production.

South Africa has 661 MW of domestic installed hydropower. Because of the scarcity of water, which is characterising the country, some hydro is imported from neighbouring states.

Biomass is used directly for cooking and space heating mainly in the rural areas and indirectly for biological processes to produce liquid fuels and electricity generation. The data quality for some of these annual renewable energy consumptions is poor and the data presented below are estimates since the accuracy cannot always be verified.

1.	Estimated Fuelwood Consumption (households)	52 889 GWh ^(a)
2.	Commercially exploitable Bagasse, Wood & Sawmill	Waste and Pulp:
		65 010 GWh ^(b)
3.	Wind Energy:	32 GWh
4.	Solar Energy:	<u>532</u> GWh
TOTA	L ESTIMATED ANNUAL CONSUMPTION:	118 463 GWh

^(a) Where estimated fuel consumption is about 11 200 000 tons (190 400 TJ)

There are other sources of energy, which are distributed either directly or indirectly all over the country such as landfill gas with a potential of 7.2 TWh of electricity generation, which is estimated, to grow to 10.8 TWh by 2040. Wave energy potential is estimated at 8 000 MW and 10 000 MW in winter and the potential yield to 70 TWh per year.

⁽b) and commercially exploitable Bagasse, Wood and Sawmill Waste and Pulp comprise of 6588000 tons of Biomass Bagasse (46 139 TJ) and 23 496 tons equivalent to (187 893 TJ) of field residue, bagasse, softwood, hardwood, chips, dust, bark, black liquor and sludge.

Notes

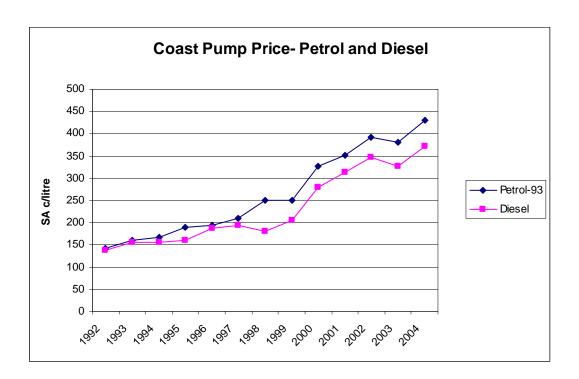
Prices

The price data given here have been extracted from a far more extensive DME price report.

Average Petrol and Diesel Prices SA c\Litre Coast Pump Price

	<u> </u>	10t i u.i.p i	
	Petrol-93	Diesel	
1992	141.75	137.00	
1993	160.42	154.67	
1994	167.42	154.80	
1995	188.08	159.09	
1996	194.42	187.67	
1997	209.75	194.33	
1998	250.50	181.25	
1999	250.83	203.96	
2000	326.00	280.40	
2001	350.33	313.80	
2002	392.00	347.51	
2003	381.33	326.96	
2004	429.92	372.58	

Source: Petroleum Products Price Report



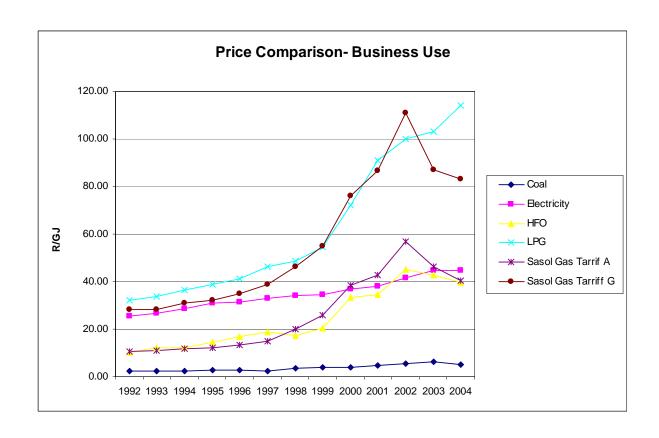
Price Comparison-Business Use- R/GJ

	Coal	Electricity	HFO	LPG	Sasol Gas Tarrif A	Sasol Gas Tarriff G
1992	2.27	25.44	10.19	32.23	10.71	28.22
1993	2.21	26.64	12.03	33.60	10.89	28.22
1994	2.33	28.67	12.15	36.46	11.91	30.86
1995	2.55	30.97	14.66	38.98	12.35	31.99
1996	2.69	31.39	17.03	41.33	13.46	34.88
1997	2.49	32.92	18.83	46.11	15.01	38.90
1998	3.71	34.14	17.11	48.55	19.85	46.47
1999	3.96	34.56	20.51	54.38	25.73	54.84
2000	4.03	36.75	33.46	72.29	38.60	76.22
2001	4.89	38.22	34.70	91.12	42.84	86.82
2002	5.45	41.61	44.96	100.14	56.95	111.01
2003	6.14	44.58	42.92	103.20	46.20	87.18
2004	5.10	44.56	39.67	114.26	40.26	83.18

Sources: Petroleum Products Price Report

Minerals Bureau Coal Price Report (Bituminous - Industries)

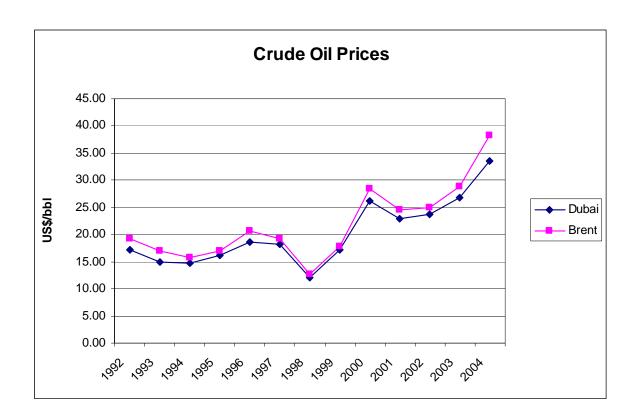
Eskom Annual Reports



Crude Oil-US\$/bbl

	Dubai	Brent
1992	17.19	19.31
1993	14.91	17.00
1994	14.74	15.80
1995	16.11	17.03
1996	18.56	20.69
1997	18.17	19.13
1998	12.16	12.73
1999	17.19	17.87
2000	26.14	28.45
2001	22.92	24.46
2002	23.80	25.00
2003	26.80	28.84
2004	33.63	38.21

Source: Petroleum Products Price Report



Notes

Section 10
Economic data

Year	Gross Domestic Product (at constant 2000 market prices; Rm)	Consumer Price Index (2000 = 100)	Production Price Index (2000 = 100)	Exchange rate - R/\$	Gold price - US\$/oz	Gold price - R/oz
1993	755,009	61.20	61.60	3.27	359.70	1,176.73
1994	779,424	66.60	66.70	3.55	384.05	1,363.43
1995	803,710	72.40	73.00	3.63	384.17	1,393.48
1996	838,326	77.70	78.10	4.30	387.71	1,664.02
1997	860,516	84.40	83.60	4.61	331.11	1,523.48
1998	864,968	90.20	86.60	5.53	294.14	1,622.92
1999	885,365	94.90	91.60	6.11	278.92	1,702.71
2000	922,151	100.00	100.00	6.94	279.13	1,932.51
2001	947,373	105.70	108.40	8.60	271.08	2,338.18
2002	982,327	115.40	123.80	10.52	310.16	3,242.30
2003	1,011,556	122.10	125.90	7.56	363.65	2,739.97
2004	1,056,771	123.80	126.70	6.45	409.33	2,637.10

Sources: The South African Reserve Bank website - www.resbank.co.za & Stats SA website - www.statssa.gov.za

Notes

Useful Addresses

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SAPIA P O Box 7082 Roggebaai, 8012 Tel: (021) 419 8054

PetroSA Private Bag X1 Waterfront, 8002 Tel: (021) 938 3644

Sasol Oil P O Box 4211 Randburg, 2125 Tel: (011) 889 7600

Sasol Gas P O Box 4211 Randburg, 2125 Tel: (011) 889 7600 Energy Research Centre University of Cape Town Private Bag Rondebosch, 7701 Tel: (021) 650 3230

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Nuclear Energy Corporation of SA (NECSA)
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Pretoria, 0001
Tel: (012) 305 4911

Council for Geoscience Private Bag X 112 Pretoria, 0001 Tel: (012) 841 1911

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South African National Energy Association Suite 121, Postnet RAU Private Bag X12 Melville 2109 Tel:(011)4892547

CALORIFIC VALUES

	Calorific		
Fuel	Value	Units	Density
Electricity	3,6	MJ/kWh	
Natural Gas	41,0	MJ/m ³	
LPG (Liquefied Petroleum Gas)	26,7	MJ/I	0,541
Petrol	34,2	MJ/I	0,723
Avgas	33,9	MJ/I	0,730
Illuminating Paraffin	37,0	MJ/I	0,788
Power Paraffin	37,5	MJ/I	0,813
Jet Fuel	34,3	MJ/I	0,793
Diesel	38,1	MJ/I	0,839
HFO (Heavy Furnace Oil)	41,6	MJ/I	0,984
Coal (Eskom - average 1994)	20,1	MJ/kg	
Coal (General purpose)	24,3	MJ/kg	
Coal (Coking)	30,1	MJ/kg	
Coke	27,9	MJ/kg	
Coke oven gas	17,3	MJ/m ³	
Blast furnace gas	3,1	MJ/m ³	
Refinery gas (estimate)	20,0	MJ/m ³	
Bagasse (wet)	7,0	MJ/kg	
Bagasse fibre (dry)	14,0	MJ/kg	
Biomass (wood dry typical)	17,0	MJ/kg	
Coal gas (Sasol)	18,0	MJ/m ³	
Coal gas (Sasol - methane rich)	38,0	MJ/m ³	

Conversion Factors

From \ To		kWh	toe	Btu
	J			
1 J	1	0.278 x 10 ⁻⁶	0.2388 x 10 ⁻⁶	0.948 x 10 ⁻³
1 kWh	3.6 x 10 ⁶	1	0.86 x 10 ⁻⁶	3.412 x 10 ³
1 toe	42 x 10 ⁹	11630	1	39.68 x 10 ⁶
1 Btu	1.055 x 10 ³	0.293 x 10 ⁻³	0.252 x 10 ⁻⁹	1

Note: toe = ton oil equivalent

Prefixes

Prefix	Symbol	Power	
Kilo	k	10 ³	
Mega	M	10 ⁶	
Giga	G	10 ⁹	
Tera	Т	10 ¹²	
Peta	P	10 ¹⁵	
Exa	E	10 ¹⁸	

