



Energie: Jährliche Statistiken

Daten 2001

.....

Energy: Yearly statistics

Data 2001

.....

Énergie: statistiques annuelles

Données 2001

.....



EUROPÄISCHE KOMMISSION
EUROPEAN COMMISSION
COMMISSION EUROPÉENNE



THEMENKREIS 8 – THEME 8 – THÈME 8
Umwelt und Energie
Environment and energy
Environnement et énergie



Europe Direct soll Ihnen helfen, Antworten auf Ihre Fragen zur Europäischen Union zu finden
Europe Direct is a service to help you find answers to your questions about the European Union
Europe Direct est un service destiné à vous aider à trouver des réponses aux questions que vous vous posez sur l'Union européenne

Neue gebührenfreie Telefonnummer: / New freephone number: / Un nouveau numéro unique gratuit:

00 800 6 7 8 9 10 11

Zahlreiche weitere Informationen zur Europäischen Union sind verfügbar über Internet, Server Europa (<http://europa.eu.int>).

A great deal of additional information on the European Union is available on the Internet.

It can be accessed through the Europa server (<http://europa.eu.int>).

De nombreuses autres informations sur l'Union européenne sont disponibles sur l'internet via le serveur Europa (<http://europa.eu.int>).

Luxembourg: Office des publications officielles des Communautés européennes, 2003

ISBN 92-894-6042-3

ISSN 1609-4190

© Europäische Gemeinschaften, 2003

© European Communities, 2003


© Communautés européennes, 2003

TABLE OF CONTENTS

	Page
Conversion coefficients	6
Breakdown of energy consumption by industry	7
Abbreviations and symbols	8
EU-15	9
Belgique/België	23
Danmark	37
Deutschland	51
Ellada	65
España	79
France	93
Ireland	107
Italia	121
Luxembourg	135
Nederland	149
Österreich	163
Portugal	177
Suomi/Finland	191
Sverige	205
United Kingdom	219

CONVERSION COEFFICIENTS

COEFFICIENTS DE CONVERSION

		kJ(NCV/PCI)		kgoe (NCV)/kgep (PCI)	
Hard coal	1 kg	17200 - 30700	0.411 - 0.733	1 kg	Houille
Recoverd hard coal	"	13800 - 28300	0.330 - 0.676	"	Houille récupérée
Patent fuels	"	26800 - 31400	0.640 - 0.750	"	Agglomérés de houille
Hard coke	"	28500	0.681	"	Coke de houille
Brown coal	"	5600 - 10500	0.134 - 0.251	"	Lignite récent
Black lignite	"	10500 - 21000	0.251 - 0.502	"	Lignite ancien
Peat	"	7800 - 13800	0.186 - 0.330	"	Tourbe
Brown coal briquettes	"	20000	0.478	"	Briquettes de lignite
Tar	"	37700	0.900	"	Goudron
Benzol	"	39500	0.943	"	Benzol
Oil equivalent ⁽¹⁾	1 kg	41868	1	1 kg	Equivalent pétrole ⁽¹⁾
Crude oil	"	41600 - 42800	0.994 - 1.022	"	Pétrole brut
Feedstocks	"	42500	1.015	"	Feedstocks
Refinery gas	"	50000	1.194	"	Gaz de raffinerie
LPG	"	46000	1.099	"	GPL
Motor spirit	"	44000	1.051	"	Essences moteur
Kerosenes, jet fuels	"	43000	1.027	"	carburéacteur
Naphtha	"	44000	1.051	"	Naphta
Gas diesel oil	"	42300	1.010	"	Gasoil, fuel-oil fluide
Residual fuel oil	"	40000	0.955	"	Fuel- oil résiduel
White spirit, industrial spirit	"	44000	1.051	"	White spirit, ess. spéciales
Lubricants	"	42300	1.010	"	Lubrifiants
Bitumen	"	37700	0.900	"	Bitumes
Petroleum cokes	"	31400	0.750	"	Coke de pétrole
Others petroleum products (paraffins, waxes, etc.)	"	30000	0.717	"	Autres produits pétroliers (paraffines, cires, etc.)
Natural gas	1 MJ (GCV)	900	0.0215	1 MJ (PCS)	Gaz naturel
Coke-oven gas	"	900	0.0215	"	Gaz de cokeries
Blast-furnace gas	"	1000	0.0239	"	Gaz de hauts fourneaux
Works gas	"	900	0.0215	"	Gaz d'usines
Nuclear energy	1 MJ(GCV)	1000	0.024	1 MJ(PCS)	Energie nucléaire
Biomass	1 MJ (GCV)	1000	0.024	1 MJ (PCS)	Biomasse
Solar energy	"	1000	0.024	"	Energie solaire
Geothermal energy	"	1000	0.024	"	Energie géothermique
Hydro energy	1 kWh	3600	0.086	1 kWh	Energie hydraulique
Wind energy	1 kWh	3600	0.086	1 kWh	Energie éolienne
Derived heat	1 MJ (GCV)	1000	0.024	1MJ(PCS)	Chaleur dérivée
Electrical energy	1 kWh	3600	0.086	1 kWh	Energie électrique

⁽¹⁾ The tonne of oil equivalent is a conventional standardized unit defined on the basis of a tonne of oil with a net calorific value of 41868 kilojoules/kg. The conversion coefficients from the specific units to kgoe (kilogramme of oil equivalent) are thus computed by dividing the conversion coefficients to the kilojoules by 41868.

⁽¹⁾ La tonne d'équivalent pétrole est une unité conventionnelle standardisée définie sur la base d'une tonne de pétrole ayant un pouvoir calorifique inférieur de 41868 kilojoules/kg. Les coefficients de conversion des unités spécifiques vers le kgep (kilogramme d'équivalent pétrole) sont de ce fait calculés en divisant les coefficients de conversion vers les kilojoules par 41868.

BREAKDOWN OF ENERGY CONSUMPTION BY INDUSTRY (except the 'Energy' branch)

of which :

1. **Iron and steel** (NACE¹ 27.1 + 27.2 + 27.3 + 27.51 + 27.52)
2. **Non-ferrous metals** (NACE 27.4 + 27.53 + 27.54)
3. **Chemical industry** (NACE 24)
4. **Non-metallic mineral products** (NACE 26)
5. **Ore-extraction (except fuels)** (NACE 13 + 14)
6. **Food, drink and tobacco** (NACE 15 + 16)
7. **Textile, leather and clothing** (NACE 17 + 18 + 19)
8. **Paper and printing** (NACE 21 + 22)
9. **Engineering and other metal** (NACE 28 + 29 + 30 + 31 + 32+ 34 + 35)
10. **Other non-classified** (NACE 20 + 25 + 33 + 36 + 37 + 45)

¹ NACE Rev.1 General Classification of Industrial Activities in the European Community

Abbreviations and symbols

p	provisional data	kWh	kilowatt hour
:	no data available	MW	megawatt = 10^3 kW
—	nil	GWh	gigawatt hour = 10^6 kWh
0	figure less than half the unit used	J	joule
kg oe	kilogram of oil equivalent (41868 kjoules NCV/kg)	kJ	kilojoule
Mio	million	TJ	terajoule = 10^9 kJ
Mrd	1 000 million	NCV	net calorific value
t	tonne (metric ton)	GCV	gross calorific value
t = t	tonne for tonne	EUR	European currency unit
toe	tonne of oil equivalent (41868 kjoules NCV/kg)	of which	the words 'of which' indicate the presence of all the subdivisions of the total
		among which	the words 'among which' indicate the presence of certain subdivisions only


1. Energy economy

Key figures and energy indicators

eurostat		EU-15					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	761 781	755 471	750 735	764 843	759 620	757 880p
Net energy imports		679 224	691 497	723 661	705 564	738 254	765 859
Net oil imports		465 427	468 098	489 502	457 509	472 679	494 579
Net gas imports		118 451	124 157	131 462	147 287	151 685	148 895
Gross inland energy consumption		1 413 736	1 406 186	1 437 806	1 440 759	1 454 826	1 486 160p
Final energy consumption		934 440	926 672	944 084p	952 564p	951 732p	970 310p
Industry		258 255	261 987	261 438p	262 556p	270 774p	269 531p
Transport		283 298	288 563	299 880	307 726	310 549	311 918p
Services and households etc.		392 888	376 123	382 766p	382 281p	370 409p	388 861p
Gross electricity generation	GWh	2 411 297	2 426 456	2 492 578	2 532 971	2 600 984	2 671 370
Final electricity consumption		2 021 458	2 060 897	2 113 108	2 157 258	2 229 599	2 284 913p
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	6 700 374	6 868 475	7 067 201	7 266 091	7 517 461	7 634 381
Population	1000 per.	372 851	373 929	374 811	375 880	377 261	378 823
Industry added value	Mio EUR	:	:	:	:	:	:
Total imports (current prices)	Mio EUR	1 921 279	2 089 677	2 273 159	2 428 727	2 701 615	2 729 041
among which:							
All energy commodities		110 090	121 506	90 229	113 146	213 707	205 194
Oil products		89 350	94 307	64 995	88 794	174 155	156 144
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	211.0	204.7	203.4	198.3	193.5	194.7
Final energy consumption / GDP(95)		139.5	134.9	133.6	131.1	126.6	127.1
Energy intensity of industry:							
Final consumption / gross value-added mp		:	:	:	:	:	:
Energy intensity of service sector:							
Final consumption / gross value-added mp		:	:	:	:	:	:
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	3 792	3 761	3 836	3 833	3 856	3 923
Final energy consumption / capita		2 506	2 478	2 519	2 534	2 523	2 561
Household consumption / capita		689	651	667	665	637	671
Electricity consumption / capita	kWh/cap.	5 617	5 645	5 784	5 891	6 032	6 106
Energy dependency							
Net energy imports / Gross consumption	in %	46.8	47.8	48.9	47.7	49.3	50.1
Net oil imports / Gross consumption		32.1	32.4	33.1	30.9	31.6	32.3
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	66.1	65.9	65.7	66.1	65.4	65.3
Efficiency of thermal power stations		44.4	45.3	45.5	45.8	43.2	43.7

2. Energy balance

Principal aggregates by product

 eurostat	EU-15						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	761 781	755 471	750 735	764 843	759 620	757 880p	-0.2%
<i>among which:</i> Hard coal	76 275	73 820	66 363	59 761	50 826	45 860	-9.8%
Lignite and peat	53 834	51 302	47 217	47 588	47 607	50 974	7.1%
Crude oil	158 545	157 401	161 226	167 438	159 435	148 237	-7.0%
Natural Gas	188 743	182 212	181 538	185 708	190 430	190 957	0.3%
Nuclear heat	208 864	212 615	212 052	220 206	222 846	229 936	3.2%
Hydro-electricity	24 815	25 465	26 267	26 195	27 627	29 136	5.5%
Biomass	47 048	48 667	51 584	52 785	54 514	56 473	3.6%
Imports							
Total	1 022 257	1 039 877	1 078 735	1 070 063	1 129 709	1 153 316	2.1%
<i>among which:</i> Hard coal	94 311	98 038	102 785	99 545	110 698	123 921	11.9%
Crude oil and feedstocks	550 265	561 997	584 928	553 136	573 467	571 624	-0.3%
Petroleum products	195 856	194 261	199 861	204 637	216 544	224 575	3.7%
Natural Gas	159 808	163 242	168 328	188 670	200 447	204 515	2.0%
Electricity	14 666	14 790	14 482	16 712	18 971	18 686	-1.5%
Exports							
Total	343 034	348 379	355 074	364 499	391 455	387 457	-1.0%
<i>among which:</i> Crude oil and feedstocks	95 468	97 201	100 945	111 873	117 803	104 981	-10.9%
Petroleum products	185 226	190 959	194 341	188 392	199 528	196 639	-1.4%
Natural gas	41 357	39 085	36 866	41 383	48 762	55 620	14.1%
Electricity	14 802	14 121	13 355	14 674	15 328	15 817	3.2%
Gross inland consumption							
Total	1 413 736	1 406 186	1 437 806	1 440 759	1 454 826	1 486 160p	2.2%
<i>among which:</i> Solid fuels	234 904	223 415	223 069	206 967	215 016	216 626	0.7%
Crude oil and petrol. prod.	587 664	586 852	601 407	596 426	587 701	598 855	1.9%
Natural gas	305 242	302 610	315 530	329 600	335 714	343 725	2.4%
Nuclear Energy	208 864	212 615	212 052	220 206	222 846	229 936	3.2%
Renewables	75 419	77 952	82 279	83 643	87 845	91 851p	4.6%
Transformation input							
Total	1 208 707	1 214 164	1 240 808p	1 218 453	1 244 127	1 246 178p	0.2%
<i>among which:</i> Crude oil and feedstocks	655 186	666 892	684 945	652 758	665 468	662 278	-0.5%
Petroleum products	43 396	40 653	40 793	39 715	36 376	34 451	-5.3%
Hard coal	151 575	142 267	147 189	137 660	143 602	139 686	-2.7%
Lignite and peat	52 002	49 648	47 904	46 460	49 316	52 125	5.7%
Renewables	11 504	12 053	12 574	13 946	14 806	15 937	7.6%
Transformation output							
Total	907 105	917 336	937 048p	904 208p	909 725p	909 331p	0.0%
<i>among which:</i> Electricity	180 221	180 831	185 272	188 368	192 040	196 012	2.1%
Heat	23 893	23 322	23 618p	26 707p	16 634p	17 167p	3.2%

Final energy consumption

Total	934 440	926 672	944 084p	952 564p	951 732p	970 310p	2.0%
<i>among which:</i> Solid fuels	45 814	45 623	42 172	38 454	37 416	36 336	-2.9%
Petroleum products	430 513	429 165	436 893	438 246	435 695	445 937	2.4%
Natural Gas	217 172	207 116	214 083	218 883	223 272	227 362	1.8%
Renewables	35 694	36 694	39 062	38 930	39 803	40 630	2.1%
Electricity	173 814	177 205	181 695	185 491	191 711	196 467p	2.5%

Final energy consumption by sector
Industry

Total	258 255	261 987	261 438p	262 556p	270 774p	269 531p	-0.5%
<i>among which:</i> Solid fuels	35 818	36 961	35 307	32 806	32 545	31 427	-3.4%
Petroleum Products	45 788	45 084	42 859	41 350	41 241	44 771	8.6%
Natural Gas	78 245	78 039	80 780	83 152	88 086	85 502	-2.9%
Renewables	13 308	13 915	14 231	14 193	15 060	14 771	-1.9%
Electricity	71 783	74 455	76 122	77 930	81 867	81 889p	0.0%


Transport

Total	283 298	288 563	299 880	307 726	310 549	311 918p	0.4%
<i>among which:</i> Motor spirit	123 049	122 545	122 911	123 304	118 496	116 081	-2.0%
Diesel oil	116 682	120 451	127 722	132 759	138 569	143 659	3.7%
Jet fuel	34 146	35 868	39 371	42 008	43 859	42 393	-3.3%
Electricity	4 827	4 913	4 960	4 974	5 128	5 206p	1.5%


Services&households

Total	392 888	376 123	382 766p	382 281p	370 409p	388 861p	5.0%
<i>among which:</i> Solid fuels	9 992	8 655	6 863	5 647	4 863	4 883	0.4%
Gas oil	87 404	83 604	82 324	77 072	73 437	78 756	7.2%
Natural Gas	138 639	128 779	133 011	135 432	134 856	141 464	4.9%
Renewables	22 061	22 340	24 406	24 267	24 060	25 181	4.7%
Electricity	97 205	97 837	100 612	102 587	104 715	109 372p	4.4%
Heat	17 021	16 421	17 099p	18 530p	10 898p	11 530	5.8%


3.1 Electricity balance

 eurostat	EU-15						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	2 411 297	2 426 456	2 492 578	2 532 971	2 600 984	2 671 370	2.7%
<i>among which:</i>							
Hydro	310 058	316 292	327 175	329 035	345 323	364 762	5.6%
Wind	4 853	7 340	11 299	14 209	22 240	26 987	21.3%
Geothermal	3 812	3 956	4 272	4 483	4 785	4 612	-3.6%
Nuclear	851 200	859 893	854 182	867 244	863 915	891 385	3.2%
Conventional thermal	1 241 374	1 238 975	1 295 650	1 318 000	1 364 721	1 383 624	1.4%
<i>of which:</i>							
Hard coal	514 101	468 166	480 711	450 188p	477 310p	455 869	-4.5%
Lignite and peat	192 148	188 605	188 227	184 974	197 665p	206 666	4.6%
Petroleum products	200 627	186 625	191 624	181 605	166 472p	150 164	-9.8%
Natural gas	279 954	332 452	366 982	428 056	448 483p	442 677	-1.3%
Derived gases	24 205	28 044	29 648	29 979	27 344p	24 696	-9.7%
Biomass	25 143	27 458	30 205	35 028	39 186	40 317	2.9%
Industrial/other wastes	5 196	7 625	8 253	8 170p	8 261p	63 235	
Total net generation	2 288 485	2 301 846	2 367 869	2 408 838	2 475 743	2 542 667	2.7%
Imports and exports							
Total imports	170 565	172 004	168 426	194 358	220 635	217 314	-1.5%
Total exports	172 147	164 222	155 314	170 663	178 259	183 949	3.2%
Consumption and losses							
Consumption of the energy branch	213 421	211 327	216 605	218 284	219 477	220 009p	0.2%
<i>of which:</i>							
Consumption for pumped-storage	6 323	6 511	8 059	8 687	12 378	10 977	-11.3%
Network losses	152 895	142 079	156 341	157 739	170 266	173 902p	2.1%
Final energy consumption	2 021 458	2 060 897	2 113 108	2 157 258	2 229 599	2 284 913p	2.5%
<i>of which:</i>							
Industry	834 833	865 912	885 301	906 326	952 117	952 373p	0.0%
<i>among which:</i>							
Iron&steel industry	98 357	103 891	103 446	102 726	111 444p	112 335p	0.8%
Non-ferrous metals	59 303	60 803	63 457	64 725	66 866p	68 446p	2.4%
Chemical industry	164 132	170 220	173 053	173 211p	176 960p	174 341p	-1.5%
Non-met. mineral prod.	62 709	63 408	64 206	67 023p	67 596p	69 655p	3.0%
Food, drink, tobacco	78 115	80 404	82 084	84 866p	88 296p	89 671p	1.6%
Pulp, paper and print	106 509	113 474	116 364	118 921	124 515	123 228p	-1.0%
Engineering & metal	117 365	118 950	124 670	127 322p	130 161p	130 746p	0.4%
Other industries	104 294	109 516	112 483	122 385p	138 791p	135 784p	-2.2%
Transport	56 134	57 141	57 690	57 850	59 643	60 544p	1.5%
Services & households etc.	1 130 491	1 137 844	1 170 117	1 193 082	1 217 839	1 271 996p	4.4%
<i>among which:</i>							
Households	612 737	606 741	620 673	631 869p	636 181p	668 960p	5.2%


3.2 Electrical capacity, fuel inputs and heat


		EU-15						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	549 933	558 817	561 878	575 201	586 180	590 557	0.7%
<i>by source:</i>								
Conventional thermal		308 888	313 509	316 010	322 612	330 493	330 475	0.0%
<i>of which:</i>								
Steam		251 630	251 223	246 351	246 316	:	:	
Gas turbine		25 043	25 544	24 367	25 519	:	:	
Combined cycle		24 196	25 774	32 777	37 042	47 835	52 002	8.7%
Internal combustion		5 549	6 167	6 989	7 899	:	:	
Nuclear		121 449	124 180	123 130	124 700	123 831	123 864	0.0%
Hydro		115 708	115 985	115 962	118 353	118 579	118 456	-0.1%
<i>among which:</i>								
Pumped storage		30 691	30 247	32 946	32 596	28 923	26 505	-8.4%
Wind		3 393	4 604	6 217	8 931	12 673	17 187	35.6%
Geothermal		495	539	559	605	604	575	-4.8%
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		501 117	508 394	508 742	514 339	544 977	544 049	-0.2%
Autoproducers		48 125	50 885	53 413	55 418	41 879	46 951	12.1%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	279 851	273 718	283 739p	287 374	296 917	299 066p	0.7%
<i>among which:</i>								
Hard coal		113 459	104 065	109 198	103 089	108 701	108 021	-0.6%
Lignite and peat		47 116	45 723	44 828	43 546	46 482	49 050	5.5%
Petroleum products		41 492	38 558	38 741	38 087	34 215	32 386	-5.3%
Natural gas		59 520	65 716	69 520	80 141	83 748	85 008	1.5%
Renewables		11 107	11 874	12 494	13 664	14 948	15 896	6.3%
Heating plants		8 268	5 886	6 215	8 160	8 312	8 313	0.0%
<i>among which:</i>								
Hard coal		127	101	61	78	48	39	-19.8%
Lignite and peat		311	218	179	169	157	152	-2.7%
Petroleum products		848	1 137	1 170	806	1 386	1 465	5.7%
Natural gas		4 181	1 771	2 052	4 064	3 768	3 414	-9.4%
Renewables		2 752	2 624	2 721	2 949	2 807	3 088	10.0%
Heat production and consumption								
Total heat production	TJ	23 893	23 322	23 618p	26 707p	16 634p	17 167p	3.2%
<i>among which: in heating plants</i>								
		6 790	6 353	6 339p	9 006p	6 045p	5 926	-2.0%
Heat consumption		20 942	20 494	20 862p	23 880p	15 044p	15 915	5.8%
<i>of which: in industry</i>								
		3 920	4 073	3 763p	5 350p	4 145p	4 385	5.8%
<i>in households and services</i>								
		17 021	16 421	17 099p	18 530p	10 898p	11 530	5.8%
<i>among which: in households</i>								
		9 777	9 576	9 800p	9 878p	5 481p	5 932	8.2%

4.1 Crude oil and feedstocks


 in 1 000 t	EU-15						
	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply							
Primary production	156 175	155 057	158 868	165 016	157 369	146 377	-7.0%
Total imports	546 527	558 732	581 885	550 777	571 198	569 906	-0.2%
Total exports	93 992	95 702	99 409	110 172	116 187	103 592	-10.8%
Stock changes	-706	1 006	-4 294	1 334	1 304	-2 695	
Refinery intake	649 930	662 111	680 462	649 032	661 959	659 358	-0.4%
Imports of Crude Oil by origin							
<i>by region of origin:</i>							
OPEC	248 635	256 722	277 679	238 486	237 703	203 790	-14.3%
Near and Middle East	130 440	143 738	191 074	160 780	154 897	136 040	-12.2%
Africa	109 159	94 631	109 905	99 689	107 034	109 971	2.7%
<i>by country of origin:</i>							
Algeria	18 393	16 924	17 601	16 700	20 932	19 095	-8.8%
Nigeria	34 306	27 831	22 336	19 711	22 407	25 721	14.8%
Saudi Arabia	77 735	88 557	86 031	61 025	65 143	57 496	-11.7%
Kuwait	12 400	9 826	10 876	7 662	9 768	7 990	-18.2%
United Arab Emirates	230	305	624	-	147	354	140.8%
Norway	111 107	114 927	113 846	107 459	114 868	108 121	-5.9%
Refining capacity							
Capacity at the end of year	1 000 t/year	644 925	651 541	664 170	664 600	667 440	:
<i>among which:</i>							
Cracking and others		237 400	231 800	266 290	270 250	278 230	:
Reforming		90 100	84 700	90 010	89 180	89 550	:

4.2 Petroleum products


 eurostat	EU-15						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Production and supply							
Total refinery output	643 806	656 756	674 026	638 814	650 469	649 586	-0.1%
<i>among which:</i>							
Motor spirit	141 527	143 355	145 775	136 430	133 630	135 197	1.2%
Kerosene and jet fuel	43 861	44 071	44 963	45 145	43 469	40 839	-6.1%
Naphtha	38 940	40 907	41 176	38 189	41 286	40 308	-2.4%
Gas/diesel oil	221 623	225 810	232 628	221 493	229 794	232 140	1.0%
Residual fuel oil	110 630	112 862	118 657	106 770	109 719	105 904	-3.5%
Total imports	196 978	195 496	200 980	206 019	218 029	225 740	3.5%
Total exports	184 532	190 327	193 785	187 710	199 086	196 249	-1.4%
Bunkers	38 043	41 339	42 937	40 967	43 621	45 037	3.2%
Stock changes	366	-61	-4 199	8 652	-5 189	1 736	-133.5%
Gross inland consumption	-24 591	-35 709	-39 409	-13 114	-28 842	-13 264	54.0%
Imports and exports							
Imports by origin							
<i>among which:</i>							
Netherlands	39 586	39 249	40 588	39 186	40 576	37 388	-7.9%
United Kingdom	18 124	20 406	20 042	21 208	21 824	20 734	-5.0%
Norway	7 253	6 739	8 046	6 885	6 408	4 614	-28.0%
OPEC	18 911	20 313	22 029	22 656	27 911	23 915	-14.3%
Imports by product							
<i>among which:</i>							
Motor spirit	24 520	24 362	26 778	26 193	30 127	27 689	-8.1%
Kerosene and jet fuel	8 587	9 747	12 040	13 869	16 003	19 330	20.8%
Gas/diesel oil	65 030	63 529	67 170	69 006	67 122	77 747	15.8%
Residual fuel oil	44 799	40 545	40 076	38 330	43 928	41 703	-5.1%
Exports by product							
<i>among which:</i>							
Motor spirit	42 079	42 766	44 831	44 509	45 828	43 910	-4.2%
Kerosene and jet fuel	11 309	10 424	10 377	11 355	10 409	10 189	-2.1%
Gas/diesel oil	55 943	57 533	58 759	57 611	58 780	61 075	3.9%
Residual fuel oil	37 513	39 821	41 879	35 413	41 806	39 932	-4.5%
Consumption							
Inputs to electricity plants	43 217	40 219	40 380	39 537	35 521	33 724	-5.1%
Inputs to heating plants	878	1 161	1 197	818	1 429	1 513	5.9%
Non-energy use	81 385	87 664	84 930	83 999	84 989	83 164	-2.1%
Final energy consumption	422 535	421 307	428 736	430 089	427 526	438 219	2.5%
Industry	47 780	47 206	44 827	43 415	43 191	47 130	9.1%
<i>among which by product:</i>							
Gas/diesel oil	12 146	11 679	11 695	11 069	11 471	12 294	7.2%
Residual fuel oil	20 526	20 007	18 521	17 575	15 717	15 878	1.0%

 eurostat	EU-15						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Industry							
<i>among which by sector:</i>							
Iron&steel industry	3 605	4 072	3 914	3 388	3 392p	3 231	-4.7%
Non-ferrous metals	1 382	1 570	1 355	1 378	1 558p	1 099	-29.5%
Chemical industry	7 687	7 198	5 426	4 649	4 745p	8 250	73.9%
Non-met. mineral prod.	9 914	10 539	10 377	11 792	11 640p	11 849	1.8%
Food, drink, tobacco	5 372	4 925	4 810	4 525	4 253p	4 411	3.7%
Pulp, paper and print	2 809	2 695	2 292	2 266	2 257p	2 193	-2.8%
Engineering & metal	3 722	3 461	3 394	3 294	3 134p	3 191	1.8%
Other industries	10 522	10 291	10 546	9 679	9 711p	10 470	7.8%
Transport	269 604	274 588	285 694	293 352	295 875	297 196	0.4%
<i>among which:</i>							
Motor spirit	117 087	116 607	116 955	117 329	112 754	110 456	-2.0%
Jet fuel	33 247	34 924	38 335	40 902	42 704	41 277	-3.3%
Diesel oil	115 490	119 221	126 418	131 403	137 154	142 192	3.7%
Services & households etc.	105 151	99 513	98 215	93 322	88 460	93 893	6.1%
<i>among which:</i>							
Gas oil	86 511	82 750	81 483	76 285	72 687	77 952	7.2%
Residual fuel oil	4 824	3 719	3 936	4 112	2 900	2 945	1.6%
Stocks at end of period							
Crude oil and feedstocks	54 539	52 827	58 205	56 613	54 750	53 161	-2.9%
Petroleum products	86 611	87 578	98 969	89 848	95 069	93 041	-2.1%


5. Natural gas

 eurostat	EU-15						
	in TJ (GCV)						
	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply							
Primary production	8 780 337	8 476 492	8 445 139	8 639 151	8 858 824	8 883 340	0.3%
Total imports	7 434 261	7 593 997	7 830 616	8 776 918	9 324 813	9 514 016	2.0%
Total exports	1 923 938	1 818 235	1 715 006	1 925 137	2 268 412	2 587 430	14.1%
Stock changes	-90 797	-174 814	117 724	-157 936	-297 792	180 168	
Gross inland consumption	14 199 863	14 077 440	14 678 473	15 332 996	15 617 433	15 990 094	2.4%
Imports							
Imports by origin							
<i>among which:</i>							
CIS	c	c	c	c	c	c	
Algeria	1 440 901	1 709 750	1 846 631	2 109 596	2 147 158	1 901 242	-11.5%
Norway	c	c	c	c	c	c	
Consumption							
Inputs to electricity plants	2 768 888	3 057 122	3 234 091	3 728 160	3 895 973	3 954 565	1.5%
Inputs to heat plants	194 497	82 375	95 471	189 069	175 265	158 801	-9.4%
Consumption of energy branch	453 564	440 116	466 758	491 879	497 203	554 683	11.6%
Distribution losses	116 247	123 744	99 162	100 583	114 180p	98 801p	-13.5%
Non-energy use	487 501	508 591	511 059	501 068	501 078	481 463	-3.9%
Industry	3 639 935	3 630 393	3 757 882	3 868 220	4 097 748	3 977 556	-2.9%
<i>among which:</i>							
Iron&steel industry	406 883	415 779	419 392	417 801	428 438	437 334	2.1%
Non-ferrous metals	93 749	97 507	116 153	108 589	112 474	115 698	2.9%
Chemical industry	838 497	834 290	845 463	899 301	944 872	898 949	-4.9%
Non-met. mineral prod.	567 344	558 965	581 460	616 748	654 626	664 999	1.6%
Food, drink, tobacco	485 197	485 140	501 279	526 788	541 791	544 613	0.5%
Pulp, paper and print	346 270	374 401	389 331	401 601	392 257	372 385	-5.1%
Engineering & metal	404 156	399 151	447 691	442 000	457 041	471 240	3.1%
Other industries	305 013	284 067	268 521	272 105	278 339	289 469	4.0%
Transport	13 444	13 858	13 573	13 899	15 333	18 443	20.3%
Services & households etc.	6 449 481	5 990 787	6 187 663	6 300 304	6 273 524	6 580 886	4.9%
<i>among which:</i>							
Households	4 677 094	4 305 707	4 448 449	4 615 034	4 514 739p	4 762 734p	5.5%
Services	1 576 930	1 488 330	1 541 124	1 488 485	1 567 387	1 627 999	3.9%


6.1 Hard coal


 eurostat	EU-15							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production	126 695	121 850	108 328	99 978	86 089	78 252	-9.1%	
Total imports	145 424	151 014	156 864	154 981	173 084	195 592	13.0%	
Total exports	6 081	7 036	10 888	9 729	11 763	19 613	66.7%	
Stock changes	11 891	-2 303	8 620	412	8 682	-1 994		
Gross inland consumption	280 652	266 023	264 893	247 534	257 703	253 247	-1.7%	
Imports								
Imports by origin								
<i>among which:</i>								
USA	34 706	35 368	28 122	20 028	19 607	19 728	0.6%	
Poland	16 433	17 648	16 379	18 705	19 721	18 424	-6.6%	
CIS	3 808	3 153	2 318	6 515	9 939	17 121	72.3%	
Australia	15 433	18 495	21 483	24 695	28 364	29 117	2.7%	
South Africa	32 720	33 792	35 363	34 966	40 161	48 389	20.5%	
Colombia	18 222	19 252	18 524	18 929	23 050	22 341	-3.1%	
Consumption								
Inputs to electricity plants	191 161	177 622	181 402	173 866	183 257	181 992	-0.7%	
Inputs to heat plants	210	167	101	128	79	63	-20.3%	
Consumption of energy branch	382	238	236	423	213	197	-7.5%	
Industry								
<i>among which:</i>								
Iron&steel industry	9 334	11 075	9 911	10 230	10 403	10 698	2.8%	
Non-ferrous metals	533	444	393	495	295	480	62.7%	
Chemical industry	3 075	3 197	2 088p	1 829	954	1 513	58.6%	
Non-met. mineral prod.	7 801	7 090	6 073p	5 978	4 955p	4 248	-14.3%	
Food, drink, tobacco	801	739	633	1 227	1 073p	990	-7.7%	
Pulp, paper and print	1 293	1 278	1 037p	963	865p	832	-3.8%	
Engineering & metal	256	180	126	169	122p	134	9.8%	
Other industries	852	776	1 215p	296	993	972	-2.1%	
Services & households etc.	7 082	6 975	5 286	5 195	4 198	4 599	9.6%	
Structural data								
Personnel employed underground (annual mean in 1000's)	90.5	80.9	74.8	70.1	63.3	51.6	-18.5%	
Number of active hard coal mines (end of year)	163	158	149	146	127	119	-6.3%	

6.2 Coal derivatives and peat

	EU-15						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	40 260	40 532	39 667	36 657	36 743	34 302	-6.6%
Patent Fuel	1 541	1 406	1 035	1 005	857	768	-10.4%
Lignite and peat	274 296	261 363	245 061	248 435	252 248	263 121	4.3%
Brown coal briquettes	8 855	7 305	5 942	5 639	5 653	5 557	-1.7%
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	331 309	329 425	320 772p	291 926	292 458	256 792	-12.2%
Blast-furnace gas	493 318	507 080	496 612	489 447	508 392	477 815	-6.0%
Gasworks gas	31 450	17 346	8 021	6 856	7 931	2 167	-72.7%
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	27 119	27 634	27 087	25 569	26 398	25 054	-5.1%
<i>among which:</i>							
Iron & steel industry	23 510	24 385	23 497	22 136	23 122	21 980	-4.9%
Services & households	1 401	1 078	1 009	882	838	762	-9.1%
Patent Fuel	1 625	1 412	1 176	987	886	792	-10.6%
<i>among which:</i>							
Services & households	1 605	1 374	1 144	969	861	755	-12.3%
Lignite and peat	5 659	4 608	5 120	3 713	3 250	3 032	-6.7%
<i>among which:</i>							
Industry	3 706	2 980	3 585	2 722	2 347	2 088	-11.0%
Services & households	1 953	1 628	1 535	991	903	944	4.5%
Brown coal briquettes	7 909	6 297	4 900	4 489	4 407	4 082	-7.4%
<i>among which:</i>							
Industry	2 616	2 658	2 470	2 419	2 450	2 257	-7.9%
Services & households	5 293	3 639	2 430	2 070	1 957	1 825	-6.7%
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	158 942	158 428	144 679p	128 503	128 472	107 790	-16.1%
Blast-furnace gas	234 917	236 094	205 927	195 982	201 088	175 790	-12.6%
Gasworks gas	21 102	12 561	10 823	9 881p	8 297	2 694	-67.5%
Inputs to electricity plants	233 006	252 112	285 160p	301 352	290 819	275 719	-5.2%
Inputs to heat plants	147	331	148	1 428	1 106	925	-16.4%
Consumption of energy branch	159 010	158 994	156 596p	128 342	133 915	128 107	-4.3%
Consumption in industry	395 553	397 281	351 328p	326 128p	329 860	283 841	-14.0%

7. Renewable energy sources

		EU-15						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	75 268	77 860	82 211	83 553	87 749	91 757p	4.6%
Hydro (excl. pumping)		24 815	25 465	26 267	26 195	27 627	29 136	5.5%
Wind		417	631	1 040	1 221	1 912	2 320	21.3%
Solar		272	295	327	337	381	396p	3.9%
Geothermal		2 715	2 801	2 993	3 015	3 315	3 432p	3.5%
Biomass		47 048	48 667	51 584	52 785	54 514	56 473	3.6%
	<i>among which:</i>							
Wood, wood-waste		39 775	40 895	42 967	43 512	44 197p	45 377p	2.7%
Municipal solid waste		5 556	5 766	6 270	6 696	7 364p	7 910p	7.4%
Biogas		1 387	1 561	1 916	2 100	2 268p	2 505p	10.5%
Gross inland consumption		75 419	77 952	82 279	83 643	87 845	91 851p	4.6%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		2 354	2 445	2 641	2 667	2 949	3 046	3.3%
Biomass		11 504	12 053	12 574	13 946	14 806	15 937	7.6%
	<i>among which:</i>							
Wood, wood-waste		5 007	5 154	5 390	6 172p	6 374p	6 745p	5.8%
Municipal waste		5 491	5 728	6 142	6 544p	6 994p	7 502p	7.3%
Biogas		1 005	1 172	1 042	1 229	1 438p	1 690p	17.5%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	36 324	37 342	39 736	39 608	40 540	41 402p	2.1%
	<i>by sector:</i>							
Industry		13 309	13 916	14 232	14 193	15 060	14 771	-1.9%
Services & households etc.		22 690	22 987	25 079	24 945	24 798	25 954p	4.7%
Transport		325	439	425	469	682	677	-0.7%
	<i>by source:</i>							
Biomass		35 694	36 694	39 062	38 930	39 803	40 630	2.1%
	<i>among which:</i>							
Wood, wood-waste		34 919	35 834	37 646	37 429p	37 915p	38 720p	2.1%
Municipal waste		65	38	128	152	367	408	11.1%
Biogas		380	377	858	871	830p	815p	-1.7%
Geothermal		361	356	352	348	365	386p	5.6%
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		32	40	61	74	109	202	85.3%
Hydro with installed capacity < 1 MW		8 398	9 107	8 785	8 485	8 179	:	
Hydro with installed capacity > 1 & <10 MW		29 722	28 369	30 018	29 260	31 550	:	
Hydro with installed capacity > 10 MW		250 160	261 253	269 055	264 800	279 323	:	
Wood, Wood-waste		13 449	15 832	16 711	18 769	19 639	19 801	0.8%
Municipal waste		8 531	9 147	11 349	11 592	13 431	14 141	5.3%
Biogas		2 744	3 327	3 748	4 721	6 335	6 454	1.9%

		EU-15						01/00
		1996	1997	1998	1999	2000	2001	
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		40	50	79	79	59	257	335.6%
Hydro with installed capacity < 1 MW		2 048	2 107	2 129	2 142p	2 047	:	
Hydro with installed capacity > 1 & <10 MW		7 606	7 647	7 715	7 609p	7 309	:	
Hydro with installed capacity > 10 MW		78 386	79 835	79 127	79 042	77 804	:	
Wood, Wood-waste		3 826	3 721	3 981	4 608p	4 821p	:	
Municipal waste		1 784	1 797	1 931	2 020p	2 267	:	
Biogas		586	638	719	946	1 157	:	
Liquid biofuels								
Production	<i>1000 t</i>	407	549	531	588	844p	837p	-0.8%
Solar Panels								
Solar panel surface	<i>1000 m²</i>	7 363	7 913	9 036	9 185	9 899	11 387p	15.0%


1. Energy economy

Key figures and energy indicators

eurostat		BELGIUM					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	11 275	12 552	12 033	13 274	13 065	12 637
Net energy imports		47 076	47 156	50 062	46 914	48 651	48 710
Net oil imports		26 770	27 411	28 891	25 918	27 331	27 142
Net gas imports		11 879	11 280	12 432	13 478	13 278	13 134
Gross inland energy consumption		53 981	55 120	56 210	56 876	57 168	55 617
Final energy consumption		36 383	36 529	36 927	36 931	37 076	37 211
Industry		11 713	12 670	12 710	13 253	13 790	13 527
Transport		8 897	9 194	9 573	9 597	9 662	9 444
Services and households etc.		15 773	14 665	14 644	14 082	13 624	14 240
Gross electricity generation	GWh	76 148	78 892	83 241	84 521	83 894	79 697
Final electricity consumption		69 866	71 817	73 957	74 505	77 539	78 138
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	214 111	221 791	226 261	233 472	242 167	244 032
Population	1000 per.	10 157	10 181	10 203	10 226	10 251	10 285
Industry added value	Mio EUR	57 307	60 854	61 292	62 419	65 713	65 807
Total imports (current prices)	Mio EUR	140 472	158 765	165 207	165 207	181 313	178 686
among which:							
All energy commodities		8 740	9 608	7 556	8 844	17 075	16 867
Oil products		6 317	6 863	5 007	6 591	13 270	12 665
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	252.1	248.5	248.4	243.6	236.1	227.9
Final energy consumption / GDP(95)		169.9	164.7	163.2	158.2	153.1	152.5
Energy intensity of industry:							
Final consumption / gross value-added mp		204.4	208.2	207.4	212.3	209.9	205.6
Energy intensity of service sector:							
Final consumption / gross value-added mp		28.2	26.2	25.9	24.7	22.7	23.6
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	5 315	5 414	5 509	5 562	5 577	5 408
Final energy consumption / capita		3 582	3 588	3 619	3 612	3 617	3 618
Household consumption / capita		1 043	969	969	927	923	957
Electricity consumption / capita	kWh/cap.	7 791	7 944	8 147	8 202	8 439	8 471
Energy dependency							
Net energy imports / Gross consumption	in %	80.5	78.4	81.3	76.6	77.8	80.1
Net oil imports / Gross consumption		45.8	45.5	46.9	42.3	43.7	44.6
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	67.4	66.3	65.7	64.9	64.9	66.9
Efficiency of thermal power stations		41.8	42.5	44.4	45.8	46.4	50.5

2. Energy balance

Principal aggregates by product

 eurostat	BELGIUM						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	11 275	12 552	12 033	13 274	13 065	12 637	-3.3%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	-	-	-	-	-	-	-
Natural Gas	2	0	-	0	2	-	-
Nuclear heat	10 692	11 958	11 394	12 644	12 422	11 956	-3.8%
Hydro-electricity	21	26	33	29	39	38	-4.1%
Biomass	558	565	603	597	596	635	6.6%
Imports							
Total	69 062	69 428	72 598	70 672	73 672	72 281	-1.9%
<i>among which:</i> Hard coal	8 500	8 957	8 844	7 585	7 888	8 026	1.7%
Crude oil and feedstocks	33 566	34 754	36 057	34 165	36 165	33 403	-7.6%
Petroleum products	13 686	13 079	13 771	13 836	14 378	15 466	7.6%
Natural Gas	11 879	11 280	12 432	13 478	13 278	13 134	-1.1%
Electricity	829	858	673	779	1 001	1 360	35.8%
Exports							
Total	21 986	22 272	22 536	23 758	25 021	23 570	-5.8%
<i>among which:</i> Crude oil and feedstocks	2 775	2 891	2 590	3 120	3 507	2 295	-34.6%
Petroleum products	17 706	17 531	18 347	18 963	19 706	19 432	-1.4%
Natural gas	-	-	-	-	-	-	-
Electricity	468	577	553	706	629	577	-8.3%
Gross inland consumption							
Total	53 981	55 120	56 210	56 876	57 168	55 617	-2.7%
<i>among which:</i> Solid fuels	8 172	8 362	8 439	7 421	8 200	7 077	-13.7%
Crude oil and petrol. prod.	22 141	22 465	22 946	22 532	21 949	21 692	-1.2%
Natural gas	11 816	11 265	12 474	13 335	13 369	13 180	-1.4%
Nuclear Energy	10 692	11 958	11 394	12 644	12 422	11 956	-3.8%
Renewables	686	684	718	738	746	782	4.9%
Transformation input							
Total	56 476	58 391	59 903	58 619	60 614	60 237	-0.6%
<i>among which:</i> Crude oil and feedstocks	34 557	35 752	37 174	35 019	37 085	38 224	3.1%
Petroleum products	219	255	394	444	172	248	44.4%
Hard coal	6 733	6 138	5 845	4 946	5 699	5 010	-12.1%
Lignite and peat	-	-	-	-	-	-	-
Renewables	341	356	338	346	367	353	-3.9%
Transformation output							
Total	44 974	46 181	47 689	45 823	47 999p	48 645p	1.3%
<i>among which:</i> Electricity	6 444	6 673	7 028	7 138	7 066	6 708	-5.1%
Heat	261	294	290	420	532p	525p	-1.4%

Final energy consumption

Total	36 383	36 529	36 927	36 931	37 076	37 211	0.4%
<i>among which:</i> Solid fuels	3 233	3 706	3 266	3 271	3 378	3 301	-2.3%
Petroleum products	17 211	17 360	17 430	16 956	16 193	16 249	0.3%
Natural Gas	8 847	8 238	8 650	8 947	9 446	9 509	0.7%
Renewables	321	298	343	360	333	383	15.1%
Electricity	6 007	6 175	6 359	6 406	6 667	6 719	0.8%

Final energy consumption by sector
Industry

Total	11 713	12 670	12 710	13 253	13 790	13 527	-1.9%
<i>among which:</i> Solid fuels	2 855	3 376	3 038	3 071	3 164	3 096	-2.1%
Petroleum Products	1 464	1 732	1 690	1 627	1 420	1 646	16.0%
Natural Gas	3 584	3 580	3 756	4 181	4 608	4 239	-8.0%
Renewables	111	131	176	200	180	191	6.0%
Electricity	2 966	3 132	3 215	3 236	3 428	3 373	-1.6%


Transport

Total	8 897	9 194	9 573	9 597	9 662	9 444	-2.3%
<i>among which:</i> Motor spirit	2 881	2 666	2 642	2 518	2 362	2 300	-2.6%
Diesel oil	4 509	4 744	4 902	5 123	5 494	5 690	3.6%
Jet fuel	1 070	1 340	1 589	1 552	1 521	1 151	-24.3%
Electricity	109	108	117	120	124	126	1.6%


Services&households

Total	15 773	14 665	14 644	14 082	13 624	14 240	4.5%
<i>among which:</i> Solid fuels	377	330	228	199	215	205	-4.4%
Gas oil	5 777	5 627	5 553	5 150	4 791	4 802	0.2%
Natural Gas	5 262	4 658	4 894	4 766	4 838	5 270	8.9%
Renewables	210	167	168	160	153	192	25.9%
Electricity	2 932	2 936	3 026	3 050	3 115	3 220	3.4%
Heat	29	30	42	50	64	63	-1.4%


3.1 Electricity balance

 eurostat	BELGIUM						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	76 148	78 892	83 241	84 521	83 894	79 697	-5.0%
<i>among which:</i>							
Hydro	1 200	1 277	1 497	1 489	1 699	1 648	-3.0%
Wind	8	8	11	13	15	34	126.7%
Geothermal	-	-	-	-	-	-	-
Nuclear	43 336	47 408	46 165	49 017	48 157	46 349	-3.8%
Conventional thermal	31 604	30 199	35 568	34 002	34 023	31 666	-6.9%
<i>of which:</i>							
Hard coal	15 551	13 748	14 187	9 939	12 916	9 936	-23.1%
Lignite and peat	-	-	-	-	-	-	-
Petroleum products	1 290	1 422	2 580	1 035	797	1 664	108.8%
Natural gas	11 010	11 537	15 036	19 231	15 977	15 780	-1.2%
Derived gases	2 655	2 534	2 703	2 589	3 114	2 828	-9.2%
Biomass	610	549	529	828	860	945	9.9%
Industrial wastes	488	409	533	380	359	513	42.9%
Total net generation	72 360	75 079	79 492	80 851	80 160	76 085	-5.1%
Imports and exports							
Total imports	9 637	9 975	7 828	9 059	11 645	15 818	35.8%
Total exports	5 446	6 705	6 435	8 207	7 319	6 712	-8.3%
Consumption and losses							
Consumption of the energy branch	5 634	5 626	5 674	5 587	5 758	5 702	-1.0%
<i>of which:</i>							
Consumption for pumped-storage	306	309	355	372	397	417	5.0%
Network losses	3 878	3 747	3 895	4 133	3 683	3 755	2.0%
Final energy consumption	69 866	71 817	73 957	74 505	77 539	78 138	0.8%
<i>of which:</i>							
Industry	34 498	36 421	37 395	37 633	39 868	39 224	-1.6%
<i>among which:</i>							
Iron&steel industry	5 798	6 303	6 445	6 198	6 876	6 663	-3.1%
Non-ferrous metals	1 833	1 887	1 869	1 907	2 045	1 980	-3.2%
Chemical industry	11 555	12 323	12 757	12 790	13 480	13 189	-2.2%
Non-met. mineral prod.	2 409	2 477	2 443	2 470	2 518	2 497	-0.8%
Food, drink, tobacco	3 454	3 652	3 641	3 767	3 953	4 041	2.2%
Pulp, paper and print	2 232	2 380	2 371	2 475	2 525	2 465	-2.4%
Engineering & metal	2 896	2 904	3 024	3 018	3 231	3 126	-3.2%
Other industries	2 138	2 248	2 555	2 724	2 853	2 887	1.2%
Transport	1 267	1 252	1 366	1 401	1 440	1 463	1.6%
Services & households etc.	34 101	34 144	35 196	35 471	36 231	37 451	3.4%
<i>among which:</i>							
Households	23 228	22 933	23 388	23 482	23 738	24 396	2.8%


3.2 Electrical capacity, fuel inputs and heat


		BELGIUM						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	14 851	14 693	15 395	15 569	15 672	15 528	-0.9%
<i>by source:</i>								
Conventional thermal		7 751	7 572	8 272	8 442	8 545	8 353	-2.2%
<i>of which:</i>								
Steam		5 912	5 904	5 363	4 719	4 272	4 082	-4.4%
Gas turbine		276	212	776	1 010	1 281	1 300	1.5%
Combined cycle		1 196	1 196	2 093	2 513	2 792	2 771	-0.8%
Internal combustion		87	-	20	200	200	200	0.0%
Nuclear		5 693	5 713	5 713	5 713	5 713	5 738	0.4%
Hydro		1 403	1 403	1 404	1 404	1 404	1 412	0.6%
<i>among which:</i>								
Pumped storage		1 307	1 307	1 307	1 307	1 307	1 307	0.0%
Wind		4	5	6	10	10	25	150.0%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		14 226	14 066	14 773	14 924	15 230	15 112	-0.8%
Autoproducers		625	627	622	645	442	416	-5.9%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	7 124	6 799	7 539	7 293	7 453	6 430	-13.7%
<i>among which:</i>								
Hard coal		3 533	3 120	3 040	2 247	3 025	2 267	-25.1%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		219	255	389	444	172	248	44.4%
Natural gas		2 247	2 327	3 024	3 528	3 144	2 884	-8.3%
Renewables		332	348	330	338	356	337	-5.4%
Heating plants		9	9	80	39	41	37	-10.5%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	5	-	-	-	-
Natural gas		-	-	66	31	30	21	-30.8%
Renewables		9	9	8	8	11	16	43.1%
Heat production and consumption								
Total heat production	TJ	261	294	290	420	532p	525p	-1.4%
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		247	270	323	387	490	483	-1.4%
<i>of which: in industry</i>								
		217	241	281	336	426	420	-1.4%
<i>in households and services</i>								
		29	30	42	50	64	63	-1.4%
<i>among which: in households</i>								
		15	15	11	13	16	16	-1.5%

4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	BELGIUM						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		-	-	-	-	-	-	-
Total imports		34 583	35 913	37 131	35 276	37 441	35 495	-5.2%
Total exports		2 734	2 848	2 551	3 074	3 455	2 261	-34.6%
Stock changes		67	-56	-87	-37	52	129	148.1%
Refinery intake		35 562	36 893	38 232	36 119	38 344	40 254	5.0%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		14 044	14 580	16 871	11 081	12 500	11 597	-7.2%
Near and Middle East		13 300	12 749	15 486	9 177	11 135	9 944	-10.7%
Africa		123	179	655	465	930	555	-40.3%
<i>by country of origin:</i>								
Algeria		-	77	146	224	177	142	-19.8%
Nigeria		40	-	-	136	289	238	-17.6%
Saudi Arabia		9 268	10 568	10 333	5 677	6 794	5 821	-14.3%
Kuwait		780	224	691	63	-	87	
United Arab Emirates		-	-	-	-	-	50	
Norway		10 115	9 992	8 762	9 347	8 936	8 135	-9.0%
Refining capacity								
Capacity at the end of year	1 000 t/year	34 470	34 750	37 550	37 550	37 880	:	
<i>among which:</i>								
Cracking and others		12 500	10 900	11 330	11 330	11 050	:	
Reforming		4 400	4 500	4 980	4 980	5 070	:	

4.2 Petroleum products


 eurostat	BELGIUM						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Production and supply							
Total refinery output	35 181	36 644	37 944	35 773	38 092	39 883	4.7%
<i>among which:</i>							
Motor spirit	5 947	6 103	6 431	6 032	5 311	5 493	3.4%
Kerosene and jet fuel	1 839	1 756	2 195	2 128	2 317	2 026	-12.6%
Naphtha	1 148	1 407	1 524	1 608	2 026	2 135	5.4%
Gas/diesel oil	12 619	12 520	12 447	11 749	12 501	12 777	2.2%
Residual fuel oil	6 843	7 444	8 042	6 895	7 990	7 015	-12.2%
Total imports	13 677	13 060	13 760	13 811	14 445	15 468	7.1%
Total exports	17 605	17 481	18 273	18 852	19 655	19 367	-1.5%
Bunkers	4 673	5 257	5 613	4 535	5 545	5 429	-2.1%
Stock changes	-203	181	-460	1 001	-101	-327	-223.8%
Gross inland consumption	-8 804	-9 497	-10 576	-8 564	-10 856	-9 655	11.1%
Imports and exports							
Imports by origin							
<i>among which:</i>							
Netherlands	8 957	8 540	9 304	9 428	9 062	8 256	-8.9%
United Kingdom	1 048	1 211	926	1 078	1 357	1 509	11.2%
Norway	587	993	829	487	505	235	-53.5%
OPEC	251	125	275	80	157	96	-38.9%
Imports by product							
<i>among which:</i>							
Motor spirit	1 800	1 395	1 434	1 574	1 536	1 472	-4.2%
Kerosene and jet fuel	488	687	488	643	496	535	7.9%
Gas/diesel oil	5 039	4 876	5 908	6 313	6 259	7 281	16.3%
Residual fuel oil	2 814	2 799	2 833	2 227	2 347	2 886	23.0%
Exports by product							
<i>among which:</i>							
Motor spirit	5 036	4 959	5 339	5 257	4 604	4 801	4.3%
Kerosene and jet fuel	1 047	911	902	1 133	1 194	1 348	12.9%
Gas/diesel oil	6 116	5 858	6 117	7 355	7 422	7 589	2.3%
Residual fuel oil	3 067	3 382	3 480	2 763	3 887	3 413	-12.2%
Consumption							
Inputs to electricity plants	229	267	406	463	180	260	44.4%
Inputs to heating plants	-	-	5	-	-	-	-
Non-energy use	3 866	4 199	4 228	4 365	5 118	5 229	2.2%
Final energy consumption	17 030	17 170	17 211	16 770	16 072	16 072	0.0%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	493	676	615	514	308	745	141.9%
Residual fuel oil	725	738	745	851	669	658	-1.6%

 eurostat	BELGIUM						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Industry							
<i>among which by sector:</i>							
Iron&steel industry	56	41	63	43	252	36	-85.7%
Non-ferrous metals	56	47	26	24	206	23	-88.8%
Chemical industry	277	368	375	262	193	1	-99.5%
Non-met. mineral prod.	306	318	289	249	147	414	181.6%
Food, drink, tobacco	169	243	182	159	162	168	3.7%
Pulp, paper and print	39	38	40	42	47	50	6.4%
Engineering & metal	52	48	53	37	15	34	126.7%
Other industries	567	683	697	905	538	998	85.5%
Transport	8 580	8 878	9 237	9 260	9 322	9 111	-2.3%
<i>among which:</i>							
Motor spirit	2 741	2 537	2 514	2 396	2 248	2 189	-2.6%
Jet fuel	1 042	1 305	1 547	1 511	1 481	1 121	-24.3%
Diesel oil	4 463	4 696	4 852	5 071	5 438	5 632	3.6%
Services & households etc.	6 897	6 479	6 223	5 800	5 176	5 225	0.9%
<i>among which:</i>							
Gas oil	5 718	5 570	5 496	5 097	4 742	4 753	0.2%
Residual fuel oil	677	489	374	387	162	190	17.3%
Stocks at end of period							
Crude oil and feedstocks	801	857	944	981	929	800	-13.9%
Petroleum products	3 351	3 170	3 630	2 629	2 730	3 092	13.3%


5. Natural gas

 eurostat	BELGIUM							
	in TJ (GCV)		1996	1997	1998	1999	2000	2001
Primary production and supply								
Primary production		80	6	-	17	96	-	
Total imports		552 602	524 752	578 325	627 007	617 685	610 993	-1.1%
Total exports		-	-	-	-	-	-	-
Stock changes		-3 017	-724	1 978	-6 685	4 124	2 130	-48.4%
Gross inland consumption		549 665	524 034	580 303	620 339	621 905	613 123	-1.4%
Imports								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		168 021	184 396	170 176	166 400	173 459	89 431	-48.4%
Norway		134 959	161 056	203 489	212 318	199 298	202 635	1.7%
Consumption								
Inputs to electricity plants		104 537	108 260	140 696	164 107	146 236	134 167	-8.3%
Inputs to heat plants		-	-	3 084	1 431	1 382	956	-30.8%
Consumption of energy branch		4 199	2 978	3 208	2 075	1 875	2 510	33.9%
Distribution losses		-	-	-	-	-	-	-
Non-energy use		33 400	33 700	32 258	35 431	33 512	34 476	2.9%
Industry		166 738	166 535	174 742	194 500	214 368	197 205	-8.0%
<i>among which:</i>								
Iron&steel industry		28 490	28 392	32 021	30 096	38 095	32 806	-13.9%
Non-ferrous metals		4 674	4 806	4 470	4 766	4 989	4 479	-10.2%
Chemical industry		53 852	53 194	56 800	72 998	80 225	71 615	-10.7%
Non-met. mineral prod.		19 999	19 400	18 978	19 551	20 386	19 601	-3.9%
Food, drink, tobacco		8 643	9 133	7 784	8 707	8 554	7 069	-17.4%
Pulp, paper and print		4 292	4 177	4 069	4 706	4 974	4 115	-17.3%
Engineering & metal		8 344	7 241	6 584	7 241	7 787	6 465	-17.0%
Other industries		35 396	37 261	40 958	43 518	46 377	48 319	4.2%
Transport		-	-	-	-	-	-	-
Services & households etc.		244 809	216 706	227 673	221 728	225 060	245 146	8.9%
<i>among which:</i>								
Households		170 515	148 670	157 086	152 293	153 172	168 496	10.0%
Services		74 294	68 036	70 587	69 435	71 888	76 650	6.6%


6.1 Hard coal


 eurostat	BELGIUM							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production	-	-	-	-	-	-	-	-
Total imports	12 814	12 796	12 634	10 836	11 347	12 681	11.8%	
Total exports	1 177	1 454	1 294	1 156	1 425	1 886	32.4%	
Stock changes	-81	-87	-251	-23	749	-872		
Gross inland consumption	12 116	11 682	11 401	10 021	11 046	10 141	-8.2%	
Imports								
Imports by origin								
<i>among which:</i>								
USA	4 647	3 591	2 594	2 007	2 207	2 410	9.2%	
Poland	407	-	477	444	299	661	121.1%	
CIS	263	323	457	484	724	830	14.6%	
Australia	2 048	2 676	3 616	3 535	3 463	3 824	10.4%	
South Africa	4 022	3 925	4 208	3 075	3 087	3 560	15.3%	
Colombia	176	246	394	94	431	215	-50.1%	
Consumption								
Inputs to electricity plants	5 791	5 145	5 087	3 759	4 374	3 781	-13.6%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry								
<i>among which:</i>								
Iron&steel industry	1 102	1 883	1 518	1 525	1 458	1 535	5.3%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	42	36	5	32	-	-	-	
Non-met. mineral prod.	417	323	322	309	359	225	-37.3%	
Food, drink, tobacco	79	46	11	12	38	44	15.8%	
Pulp, paper and print	49	51	14	11	44	49	11.4%	
Engineering & metal	-	3	-	-	-	8		
Other industries	6	22	22	32	55	31	-43.6%	
Services & households etc.	506	446	307	270	297	324	9.1%	
Structural data								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

6.2 Coal derivatives and peat

	BELGIUM						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	3 550	3 401	3 003	3 137	3 104	3 221	3.8%
Patent Fuel	21	12	10	7	5	11	120.0%
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	26 889	24 311	23 828	23 873	23 348	22 769	-2.5%
Blast-furnace gas	37 403	35 843	38 156	38 681	39 304	35 494	-9.7%
Gasworks gas	-	-	-	-	-	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	2 523	2 465	2 458	2 414	2 575	2 764	7.3%
<i>among which:</i>							
Iron & steel industry	2 421	2 368	2 370	2 345	2 489	2 682	7.8%
Services & households	7	5	3	3	3	2	-33.3%
Patent Fuel	18	12	10	8	7	10	42.9%
<i>among which:</i>							
Services & households	18	12	10	8	7	10	42.9%
Lignite and peat	227	219	195	159	218	204	-6.4%
<i>among which:</i>							
Industry	227	219	195	159	218	204	-6.4%
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	12	12	8	6	4	5	25.0%
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	12	12	8	6	4	5	25.0%
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	7 611	7 240	8 540	8 543	8 634	8 922	3.3%
Blast-furnace gas	14 693	13 544	15 482	17 504	15 856	15 466	-2.5%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	29 141	27 489	27 126	25 807	27 480	23 153	-15.7%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	12 798	11 836	10 836	10 700	10 682	10 722	0.4%
Consumption in industry	22 304	20 784	24 022	26 047	24 490	24 388	-0.4%

7. Renewable energy sources

		BELGIUM						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	582	594	639	630	641	681	6.3%
Hydro (excl. pumping)		21	26	33	29	39	38	-4.1%
Wind		1	1	1	1	1	3	126.7%
Solar		1	1	1	1	1	1	30.2%
Geothermal		2	1	1	1	4	4	13.2%
Biomass		558	565	603	597	596	635	6.6%
	<i>among which:</i>							
Wood, wood-waste		223	211	267	266	244	274	12.3%
Municipal solid waste		325	341	314	304	323	317	-2.0%
Biogas		10	13	22	27	29	44	54.3%
Gross inland consumption		686	684	718	738	746	782	4.9%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		341	356	338	346	367	353	-3.9%
	<i>among which:</i>							
Wood, wood-waste		12	10	10	20	18	20	7.3%
Municipal waste		325	341	314	304	323	299	-7.5%
Biogas		4	5	14	22	26	34	33.4%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	324	301	345	362	338	389	15.1%
	<i>by sector:</i>							
Industry		111	131	176	200	180	191	6.0%
Services & households etc.		212	170	170	162	157	198	25.6%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		321	298	343	360	333	383	15.1%
	<i>among which:</i>							
Wood, wood-waste		315	291	336	355	330	355	7.7%
Municipal waste		-	-	-	-	-	18	
Biogas		7	7	7	5	3	10	231.5%
Geothermal		2	1	1	1	4	4	13.2%
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		10	12	15	14	19	18	-5.3%
Hydro with installed capacity > 1 & <10 MW		129	164	199	183	236	228	-3.4%
Hydro with installed capacity > 10 MW		100	129	175	145	204	199	-2.5%
Wood, Wood-waste		97	60	95	199	153	173	13.1%
Municipal waste		493	458	516	554	604	646	7.0%
Biogas		20	31	55	75	103	126	22.3%

		BELGIUM						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		5	5	5	6	6	6	0.0%
Hydro with installed capacity > 1 & <10 MW		54	54	54	54	54	54	0.0%
Hydro with installed capacity > 10 MW		42	42	43	43	43	51	18.6%
Wood, Wood-waste		-	-	38	12	47	62	31.9%
Municipal waste		-	-	-	-	97	101	4.1%
Biogas		-	-	-	9	39	28	-28.2%
Liquid biofuels								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
Solar Panels								
Solar panel surface	<i>1000 m²</i>	36	36	36	36	41	44	7.3%


1. Energy economy

Key figures and energy indicators

eurostat		DENMARK					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	17 689	20 172	20 322	23 697	27 607	26 939
Net energy imports		5 635	3 931	1 568	-3 267	-7 099	-5 714
Net oil imports		941	-701	-338	-4 693	-8 097	-6 716
Net gas imports		-1 706	-2 791	-2 518	-2 568	-2 882	-3 054
Gross inland energy consumption		22 866	21 294	20 967	20 200	19 656	19 941
Final energy consumption		15 318	14 940	14 983	14 912	14 559	14 749
Industry		3 025	3 055	3 031	3 021	2 927	2 979
Transport		4 547	4 612	4 673	4 738	4 720	4 548
Services and households etc.		7 746	7 274	7 279	7 153	6 912	7 222
Gross electricity generation	GWh	53 561	44 309	41 100	38 897	36 035	37 711
Final electricity consumption		32 177	31 880	32 101	32 229	32 461	33 014
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	141 264	145 459	149 049	152 976	157 406	159 653
Population	1000 per.	5 262	5 284	5 304	5 322	5 340	5 359
Industry added value	Mio EUR	30 522	32 019	32 618	33 770	34 421	34 898
Total imports (current prices)	Mio EUR	44 672	49 141	53 497	56 439	62 813	64 006
among which:							
All energy commodities		1 744	1 535	1 375	1 626	2 561	2 032
Oil products		1 280	1 437	1 020	1 339	2 248	1 867
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	161.9	146.4	140.7	132.0	124.9	124.9
Final energy consumption / GDP(95)		108.4	102.7	100.5	97.5	92.5	92.4
Energy intensity of industry:							
Final consumption / gross value-added mp		99.1	95.4	92.9	89.5	85.0	85.4
Energy intensity of service sector:							
Final consumption / gross value-added mp		21.7	19.6	19.4	18.8	17.7	18.1
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	4 346	4 030	3 953	3 796	3 681	3 721
Final energy consumption / capita		2 911	2 827	2 825	2 802	2 726	2 752
Household consumption / capita		909	839	836	811	771	813
Electricity consumption / capita	kWh/cap.	7 015	6 643	6 398	6 299	6 073	6 122
Energy dependency							
Net energy imports / Gross consumption	in %	23.1	17.3	7.0	-15.2	-33.8	-27.2
Net oil imports / Gross consumption		3.9	-3.1	-1.5	-21.8	-38.6	-31.9
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	67.0	70.2	71.5	73.8	74.1	74.0
Efficiency of thermal power stations		56.9	59.6	62.1	63.9	64.6	65.8

2. Energy balance

Principal aggregates by product

 eurostat	DENMARK						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	17 689	20 172	20 322	23 697	27 607	26 939	-2.4%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	10 299	11 375	11 661	14 763	18 132	17 193	-5.2%
Natural Gas	5 713	7 047	6 834	7 024	7 411	7 589	2.4%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	2	2	2	3	2	2	0.0%
Biomass	1 563	1 574	1 574	1 639	1 688	1 774	5.1%
Imports							
Total	19 193	19 209	16 542	15 351	14 816	14 277	-3.6%
<i>among which:</i> Hard coal	7 775	8 058	4 840	4 243	3 825	4 138	8.2%
Crude oil and feedstocks	5 711	4 478	4 871	4 868	4 072	3 277	-19.5%
Petroleum products	5 341	6 294	6 492	5 745	6 124	6 091	-0.5%
Natural Gas	-	-	-	-	-	-	-
Electricity	325	326	282	427	724	705	-2.6%
Exports							
Total	13 558	15 278	14 974	18 617	21 915	19 991	-8.8%
<i>among which:</i> Crude oil and feedstocks	5 375	7 216	8 488	11 252	13 678	12 170	-11.0%
Petroleum products	4 735	4 258	3 212	4 054	4 615	3 913	-15.2%
Natural gas	1 706	2 791	2 518	2 568	2 882	3 054	6.0%
Electricity	1 649	950	653	626	667	754	13.2%
Gross inland consumption							
Total	22 866	21 294	20 967	20 200	19 656	19 941	1.4%
<i>among which:</i> Solid fuels	8 881	6 656	5 662	4 608	4 013	4 202	4.7%
Crude oil and petrol. prod.	9 887	9 562	9 553	9 356	9 034	8 957	-0.9%
Natural gas	3 735	3 932	4 272	4 491	4 449	4 631	4.1%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	1 688	1 764	1 846	1 940	2 100	2 197	4.6%
Transformation input							
Total	23 744	19 486	17 839	17 448	16 821	17 032	1.3%
<i>among which:</i> Crude oil and feedstocks	10 868	8 805	7 985	8 308	8 452	8 290	-1.9%
Petroleum products	1 784	1 715	1 522	1 482	1 385	1 335	-3.6%
Hard coal	8 554	6 264	5 284	4 387	3 668	3 942	7.5%
Lignite and peat	-	-	-	-	-	-	-
Renewables	978	994	1 045	1 109	1 140	1 197	5.0%
Transformation output							
Total	18 395	15 396	14 299	14 317	13 980	14 055	0.5%
<i>among which:</i> Electricity	4 498	3 642	3 289	3 081	2 731	2 870	5.1%
Heat	3 119	2 986	3 054	2 959	2 856	3 091	8.2%

Final energy consumption

Total	15 318	14 940	14 983	14 912	14 559	14 749	1.3%
<i>among which:</i> Solid fuels	380	379	353	317	307	244	-20.2%
Petroleum products	7 342	7 187	7 146	7 167	6 949	6 832	-1.7%
Natural Gas	1 786	1 740	1 738	1 748	1 660	1 755	5.7%
Renewables	594	593	548	560	583	618	6.1%
Electricity	2 767	2 741	2 760	2 771	2 791	2 839	1.7%

Final energy consumption by sector
Industry

Total	3 025	3 055	3 031	3 021	2 927	2 979	1.8%
<i>among which:</i> Solid fuels	343	346	328	298	282	216	-23.4%
Petroleum Products	874	810	791	782	751	794	5.6%
Natural Gas	752	794	811	838	790	825	4.4%
Renewables	100	102	104	96	91	107	16.9%
Electricity	832	857	857	854	860	882	2.6%


Transport

Total	4 547	4 612	4 673	4 738	4 720	4 548	-3.6%
<i>among which:</i> Motor spirit	1 976	2 030	2 068	2 060	2 031	2 003	-1.4%
Diesel oil	1 807	1 803	1 766	1 799	1 790	1 623	-9.4%
Jet fuel	712	727	770	807	820	844	3.0%
Electricity	22	23	28	29	30	30	0.3%


Services&households

Total	7 746	7 274	7 279	7 153	6 912	7 222	4.5%
<i>among which:</i> Solid fuels	37	33	25	19	25	29	15.7%
Gas oil	1 757	1 625	1 565	1 538	1 395	1 400	0.4%
Natural Gas	1 034	946	927	910	870	930	6.9%
Renewables	494	491	444	464	492	512	4.1%
Electricity	1 913	1 861	1 876	1 888	1 901	1 927	1.3%
Heat	2 294	2 127	2 273	2 172	2 094	2 281	8.9%


3.1 Electricity balance

 eurostat	DENMARK						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	53 561	44 309	41 100	38 897	36 035	37 711	4.7%
<i>among which:</i>							
Hydro	19	19	27	31	29	29	0.0%
Wind	1 227	1 934	2 820	3 029	4 242	4 299	1.3%
Geothermal	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-
Conventional thermal	52 315	42 356	38 253	35 837	31 764	33 383	5.1%
<i>of which:</i>							
Hard coal	39 650	28 713	23 652	20 081	16 670	17 825	6.9%
Lignite and peat	-	-	-	-	-	-	-
Petroleum products	5 780	5 423	4 965	4 879	4 435	4 168	-6.0%
Natural gas	5 709	6 855	8 167	9 078	8 805	9 272	5.3%
Derived gases	-	-	-	-	-	-	-
Biomass	1 155	1 326	1 455	1 799	1 755	2 118	20.7%
Industrial wastes	21	39	14	-	99	-	-
Total net generation	50 651	41 883	39 215	37 023	34 443	36 143	4.9%
Imports and exports							
Total imports	3 781	3 796	3 280	4 963	8 417	8 199	-2.6%
Total exports	19 182	11 048	7 600	7 275	7 752	8 774	13.2%
Consumption and losses							
Consumption of the energy branch	3 296	3 024	2 456	2 438	2 149	2 135	-0.7%
<i>of which:</i>							
Consumption for pumped-storage	-	-	-	-	-	-	-
Network losses	2 688	2 153	2 224	1 916	2 090	1 987	-4.9%
Final energy consumption	32 177	31 880	32 101	32 229	32 461	33 014	1.7%
<i>of which:</i>							
Industry	9 680	9 964	9 963	9 931	10 001	10 257	2.6%
<i>among which:</i>							
Iron&steel industry	588	612	612	714	733	753	2.7%
Non-ferrous metals	80	82	86	73	74	76	2.7%
Chemical industry	1 197	1 241	1 157	1 264	1 232	1 266	2.8%
Non-met. mineral prod.	807	828	846	870	904	928	2.7%
Food, drink, tobacco	2 156	2 259	2 315	2 193	2 258	2 319	2.7%
Pulp, paper and print	714	703	723	739	746	766	2.7%
Engineering & metal	2 016	1 989	2 027	1 791	1 782	1 830	2.7%
Other industries	1 827	1 943	1 899	1 989	1 977	2 017	2.0%
Transport	252	272	325	341	348	349	0.3%
Services & households etc.	22 245	21 644	21 813	21 957	22 112	22 408	1.3%
<i>among which:</i>							
Households	10 889	10 309	10 176	10 283	10 242	10 225	-0.2%

3.2 Electrical capacity, fuel inputs and heat


		DENMARK						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	11 160	11 813	12 545	12 727	12 661	12 767	0.8%
<i>by source:</i>								
Conventional thermal		10 308	10 673	11 091	10 945	10 233	10 201	-0.3%
<i>of which:</i>								
Steam		8 656	8 824	9 061	8 892	8 154	7 621	-6.5%
Gas turbine		435	450	549	549	549	555	1.1%
Combined cycle		453	494	523	533	518	989	90.9%
Internal combustion		765	906	958	970	1 012	1 036	2.4%
Nuclear		-	-	-	-	-	-	-
Hydro		10	10	11	11	10	10	0.0%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		842	1 130	1 443	1 771	2 418	2 556	5.7%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		10 781	11 377	11 999	12 170	12 089	12 201	0.9%
Autoproducers		379	436	547	557	572	566	-1.0%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	12 145	10 040	9 229	8 571	7 824	8 201	4.8%
<i>among which:</i>								
Hard coal		8 540	6 260	5 282	4 386	3 667	3 941	7.5%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		1 714	1 662	1 471	1 440	1 344	1 286	-4.3%
Natural gas		1 400	1 600	1 913	2 088	2 112	2 189	3.6%
Renewables		492	518	563	658	701	785	12.0%
Heating plants		732	642	625	569	545	540	-0.9%
<i>among which:</i>								
Hard coal		15	4	2	1	1	1	
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		70	53	50	42	41	49	20.0%
Natural gas		159	107	89	74	63	77	22.5%
Renewables		488	477	483	452	440	413	-6.1%
Heat production and consumption								
Total heat production	TJ	3 119	2 986	3 054	2 959	2 856	3 091	8.2%
<i>among which: in heating plants</i>		704	642	609	565	531	568	6.9%
Heat consumption		2 415	2 270	2 410	2 324	2 246	2 436	8.5%
<i>of which: in industry</i>		121	143	137	152	152	155	2.6%
<i>in households and services</i>		2 294	2 127	2 273	2 172	2 094	2 281	8.9%
<i>among which: in households</i>		1 584	1 481	1 554	1 483	1 421	1 548	8.9%

4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	DENMARK						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		10 122	11 145	11 432	14 465	17 780	16 887	-5.0%
Total imports		5 613	4 388	4 776	4 771	3 994	3 219	-19.4%
Total exports		5 283	7 070	8 322	11 025	13 413	11 953	-10.9%
Stock changes		216	62	-55	-120	-66	-4	93.9%
Refinery intake		10 681	8 627	7 829	8 142	8 289	8 143	-1.8%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		-	-	-	-	-	-	-
Near and Middle East		-	-	-	-	-	-	-
Africa		-	-	-	-	-	-	-
<i>by country of origin:</i>								
Algeria		-	-	-	-	-	-	-
Nigeria		-	-	-	-	-	-	-
Saudi Arabia		-	-	-	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		4 704	4 168	4 708	4 424	2 596	2 937	13.1%
Refining capacity								
Capacity at the end of year	1 000 t/year	9 455	9 455	8 850	9 150	9 150	:	
<i>among which:</i>								
Cracking and others		4 100	3 200	4 580	4 580	4 580	:	
Reforming		2 000	1 600	1 740	1 740	1 740	:	

4.2 Petroleum products


eurostat	DENMARK							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Production and supply								
Total refinery output		10 592	8 590	7 800	8 110	8 231	7 945	-3.5%
<i>among which:</i>								
Motor spirit		2 607	2 343	2 176	2 259	2 278	2 239	-1.7%
Kerosene and jet fuel		411	431	378	519	496	543	9.5%
Naphtha		197	63	12	-	6	5	-16.7%
Gas/diesel oil		4 468	3 564	3 244	3 273	3 260	3 220	-1.2%
Residual fuel oil		2 360	1 678	1 560	1 599	1 717	1 567	-8.7%
Total imports		5 441	6 378	6 561	5 823	6 200	6 176	-0.4%
Total exports		4 700	4 226	3 189	4 026	4 590	3 875	-15.6%
Bunkers		1 521	1 396	1 400	1 316	1 352	1 122	-17.0%
Stock changes		-80	209	-333	712	404	-418	
Gross inland consumption		-860	965	1 639	1 193	662	761	15.0%
Imports and exports								
Imports by origin								
<i>among which:</i>								
Netherlands		197	124	75	149	77	71	-7.8%
United Kingdom		256	238	205	178	261	315	20.7%
Norway		251	348	506	507	508	493	-3.0%
OPEC		1 340	1 693	1 609	1 443	1 428	1 673	17.2%
Imports by product								
<i>among which:</i>								
Motor spirit		923	1 152	1 020	938	1 016	1 032	1.6%
Kerosene and jet fuel		367	443	729	533	674	800	18.7%
Gas/diesel oil		1 357	1 962	2 198	1 945	1 984	1 835	-7.5%
Residual fuel oil		2 250	2 274	2 100	1 854	1 963	1 946	-0.9%
Exports by product								
<i>among which:</i>								
Motor spirit		1 583	1 535	1 167	1 160	1 388	1 296	-6.6%
Kerosene and jet fuel		74	121	114	324	348	404	16.1%
Gas/diesel oil		1 223	1 065	693	1 177	1 219	888	-27.2%
Residual fuel oil		1 471	1 212	1 102	1 243	1 441	1 133	-21.4%
Consumption								
Inputs to electricity plants		1 783	1 730	1 530	1 496	1 397	1 336	-4.4%
Inputs to heating plants		71	54	51	43	42	50	19.0%
Non-energy use		334	327	291	310	300	264	-12.0%
Final energy consumption		7 243	7 086	7 037	7 067	6 851	6 747	-1.5%
Industry								
<i>among which by product:</i>								
Gas/diesel oil		369	351	344	361	342	385	12.6%
Residual fuel oil		320	275	274	215	203	184	-9.4%

 eurostat	DENMARK							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Industry								
<i>among which by sector:</i>								
Iron&steel industry		5	4	4	4	4	4	0.0%
Non-ferrous metals		3	3	3	2	2	1	-50.0%
Chemical industry		61	53	50	30	28	28	0.0%
Non-met. mineral prod.		299	301	285	282	290	321	10.7%
Food, drink, tobacco		204	170	173	178	172	173	0.6%
Pulp, paper and print		14	10	10	10	10	10	0.0%
Engineering & metal		86	71	71	78	73	82	12.3%
Other industries		203	202	199	213	188	197	4.8%
Transport		4 393	4 453	4 507	4 570	4 552	4 383	-3.7%
<i>among which:</i>								
Motor spirit		1 880	1 932	1 968	1 960	1 933	1 906	-1.4%
Jet fuel		693	708	750	786	798	822	3.0%
Diesel oil		1 789	1 785	1 748	1 781	1 772	1 606	-9.4%
Services & households etc.		1 932	1 778	1 698	1 663	1 493	1 508	1.0%
<i>among which:</i>								
Gas oil		1 739	1 608	1 549	1 522	1 381	1 386	0.4%
Residual fuel oil		100	87	74	72	53	46	-13.2%
Stocks at end of period								
Crude oil and feedstocks		543	481	536	656	723	727	0.6%
Petroleum products		2 809	2 580	2 868	2 208	1 832	2 135	16.5%


5. Natural gas

 eurostat	DENMARK							
	in TJ (GCV)		1996	1997	1998	1999	2000	2001
Primary production and supply								
Primary production		265 777	327 836	317 935	326 735	344 772	353 062	2.4%
Total imports		-	-	-	-	-	-	-
Total exports		79 350	129 852	117 136	119 443	134 087	142 090	6.0%
Stock changes		-12 692	-15 064	-2 065	1 613	-3 732	4 461	
Gross inland consumption		173 735	182 920	198 734	208 905	206 953	215 433	4.1%
Imports								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
Consumption								
Inputs to electricity plants		65 150	74 427	88 998	97 115	98 263	101 825	3.6%
Inputs to heat plants		7 409	4 996	4 146	3 424	2 928	3 587	22.5%
Consumption of energy branch		16 660	21 763	24 197	26 224	27 807	27 092	-2.6%
Distribution losses		131	133	133	133	134	133	-0.7%
Non-energy use		-	-	-	-	-	-	-
Industry		34 983	36 931	37 723	38 988	36 752	38 360	4.4%
<i>among which:</i>								
Iron&steel industry		1 851	1 934	1 979	2 078	2 016	2 103	4.3%
Non-ferrous metals		146	164	177	160	154	160	3.9%
Chemical industry		2 632	3 032	3 481	4 049	3 813	3 980	4.4%
Non-met. mineral prod.		5 602	6 028	6 407	7 019	6 939	7 242	4.4%
Food, drink, tobacco		13 401	14 717	13 956	13 002	12 762	13 319	4.4%
Pulp, paper and print		2 392	2 330	2 656	2 330	2 295	2 394	4.3%
Engineering & metal		4 838	4 587	4 791	5 147	4 685	4 889	4.4%
Other industries		2 389	2 454	2 705	2 989	2 668	2 792	4.6%
Transport		-	-	-	-	-	-	-
Services & households etc.		48 109	44 002	43 109	42 350	40 470	43 264	6.9%
<i>among which:</i>								
Households		32 741	30 631	31 653	31 528	30 011	32 190	7.3%
Services		11 877	9 330	7 571	6 977	6 707	7 089	5.7%


6.1 Hard coal


 eurostat	DENMARK						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply							
Primary production	-	-	-	-	-	-	-
Total imports	13 134	13 474	8 071	7 117	6 415	6 924	7.9%
Total exports	156	105	171	200	123	164	33.3%
Stock changes	1 968	-2 290	1 487	755	393	230	-41.5%
Gross inland consumption	14 946	11 079	9 387	7 672	6 685	6 990	4.6%
Imports							
Imports by origin							
<i>among which:</i>							
USA	1 395	317	574	-	-	-	-
Poland	2 644	3 470	2 678	2 640	2 311	2 094	-9.4%
CIS	474	430	221	837	1 295	1 816	40.2%
Australia	893	1 300	446	500	143	160	11.9%
South Africa	4 890	4 599	2 901	1 767	1 672	1 880	12.4%
Colombia	2 526	2 773	1 247	1 244	812	415	-48.9%
Consumption							
Inputs to electricity plants	14 475	10 501	8 846	7 404	6 190	6 600	6.6%
Inputs to heat plants	25	6	3	2	2	1	-50.0%
Consumption of energy branch	-	-	-	-	-	-	-
Industry	499	503	470	419	402	325	-19.2%
<i>among which:</i>							
Iron&steel industry	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-
Chemical industry	24	22	19	21	20	16	-20.0%
Non-met. mineral prod.	317	313	294	269	258	209	-19.0%
Food, drink, tobacco	104	107	100	93	89	72	-19.1%
Pulp, paper and print	-	-	-	-	-	-	-
Engineering & metal	-	-	-	-	-	-	-
Other industries	-	-	-	-	-	-	-
Services & households etc.	59	52	39	30	41	47	14.6%
Structural data							
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-

6.2 Coal derivatives and peat

		DENMARK						
		1996	1997	1998	1999	2000	2001	01/00
Production								
Solid fuels	<i>in 1 000 t</i>							
Coke		-	-	-	-	-	-	-
Patent Fuel		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Brown coal briquettes		-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>							
Coke-oven gas		-	-	-	-	-	-	-
Blast-furnace gas		-	-	-	-	-	-	-
Gasworks gas		-	-	-	-	-	-	-
Consumption								
Solid fuels	<i>in 1 000 t</i>							
Coke		41	42	46	48	40	38	-5.0%
<i>among which:</i>								
Iron & steel industry		-	-	-	1	1	1	0.0%
Services & households		1	1	1	-	-	-	-
Patent Fuel		-	-	-	-	-	-	-
<i>among which:</i>								
Services & households		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
<i>among which:</i>								
Industry		-	-	-	-	-	-	-
Services & households		-	-	-	-	-	-	-
Brown coal briquettes		3	3	3	2	1	2	100.0%
<i>among which:</i>								
Industry		-	-	-	-	-	-	-
Services & households		3	3	3	2	1	2	100.0%
Total derived gases	<i>in TJ (GCV)</i>							
Coke-oven gas		-	-	-	-	-	-	-
Blast-furnace gas		-	-	-	-	-	-	-
Gasworks gas		1 291	1 102	938	791	725	763	5.2%
Inputs to electricity plants		-	-	-	-	-	-	-
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		-	-	-	-	-	-	-
Consumption in industry		150	143	153	57	57	53	-7.0%

7. Renewable energy sources

		DENMARK						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	1 677	1 749	1 827	1 911	2 064	2 156	4.5%
Hydro (excl. pumping)		2	2	2	3	2	2	0.0%
Wind		106	166	242	260	365	370	1.3%
Solar		6	6	7	7	7	8	11.4%
Geothermal		1	1	1	1	1	2	22.4%
Biomass		1 563	1 574	1 574	1 639	1 688	1 774	5.1%
	<i>among which:</i>							
Wood, wood-waste		918	876	875	881	894	941	5.2%
Municipal solid waste		595	639	634	695	725	761	4.9%
Biogas		50	59	65	63	69	73	5.1%
Gross inland consumption		1 688	1 764	1 846	1 940	2 100	2 197	4.6%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		1	1	1	1	1	2	22.4%
Biomass		978	994	1 045	1 109	1 140	1 197	5.0%
	<i>among which:</i>							
Wood, wood-waste		374	336	372	395	391	407	4.1%
Municipal waste		566	611	618	660	691	729	5.5%
Biogas		38	47	55	54	58	61	4.8%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	600	599	555	567	590	627	6.1%
	<i>by sector:</i>							
Industry		100	102	104	96	91	107	16.9%
Services & households etc.		500	497	451	471	499	520	4.2%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		594	593	548	560	583	618	6.1%
	<i>among which:</i>							
Wood, wood-waste		555	555	522	516	540	575	6.5%
Municipal waste		29	28	17	35	32	31	-0.8%
Biogas		10	10	9	10	11	12	3.3%
Geothermal		-	-	-	-	-	-	-
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		6	10	15	10	10	10	0.0%
Hydro with installed capacity > 1 & <10 MW		13	10	12	21	19	19	0.0%
Hydro with installed capacity > 10 MW		-	-	-	-	-	-	-
Wood, Wood-waste		304	343	432	531	409	572	39.9%
Municipal waste		758	824	834	1 073	1 238	1 322	6.8%
Biogas		93	93	93	197	208	224	7.7%

		DENMARK						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		6	7	7	5	5	:	
Hydro with installed capacity > 1 & <10 MW		4	3	4	6	5	:	
Hydro with installed capacity > 10 MW		-	-	-	-	-	:	
Wood, Wood-waste		40	40	40	110	86	:	
Municipal waste		181	171	167	198	233	:	
Biogas		20	20	20	40	41	:	
Liquid biofuels								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
Solar Panels								
Solar panel surface	<i>1000 m²</i>	184	213	230	246	250	271	8.4%


1. Energy economy

Key figures and energy indicators

eurostat		GERMANY					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	138 219	138 234	131 822	134 735	131 946	131 481p
Net energy imports		207 794	208 357	212 748	202 556	204 702	215 648
Net oil imports		135 777	135 542	139 443	127 817	125 974	131 445
Net gas imports		60 056	58 161	56 045	57 300	56 865	58 197
Gross inland energy consumption		348 812	345 322	344 709	338 621	340 077	348 836p
Final energy consumption		228 654	224 077	223 979p	221 422p	213 931p	214 869p
Industry		60 606	58 394	57 643p	56 469p	58 715p	55 382p
Transport		62 615	63 772	64 861	66 903	65 978	64 465p
Services and households etc.		105 432	101 912	101 476p	98 050p	89 238p	95 022p
Gross electricity generation	GWh	555 002	551 570	556 714	555 465	571 551	581 582
Final electricity consumption		458 018	461 761	466 476	467 483	482 603	490 202p
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	1 894 611	1 921 019	1 958 596	1 998 679	2 055 775	2 067 570
Population	1000 per.	81 896	82 052	82 047	82 100	82 212	82 350
Industry added value	Mio EUR	551 515	559 949	565 962	558 321	572 193	567 079
Total imports (current prices)	Mio EUR	462 093	500 400	545 962	592 962	654 602	660 875
among which:							
All energy commodities		27 589	29 515	23 509	25 648	47 461	46 869
Oil products		19 233	20 417	15 282	18 374	35 479	31 700
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	184.1	179.8	176.0	169.4	165.4	168.7
Final energy consumption / GDP(95)		120.7	116.6	114.4	110.8	104.1	103.9
Energy intensity of industry:							
Final consumption / gross value-added mp		109.9	104.3	101.8	101.1	102.6	97.7
Energy intensity of service sector:							
Final consumption / gross value-added mp		27.0	26.6	24.6	23.3	20.2	20.7
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	4 259	4 209	4 201	4 124	4 137	4 236
Final energy consumption / capita		2 792	2 731	2 730	2 697	2 602	2 609
Household consumption / capita		856	811	824	788	715	770
Electricity consumption / capita	kWh/cap.	6 386	6 402	6 459	6 424	6 560	6 666
Energy dependency							
Net energy imports / Gross consumption	in %	59.2	60.0	61.4	59.5	59.8	61.4
Net oil imports / Gross consumption		38.7	39.0	40.2	37.5	36.8	37.4
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	65.6	64.9	65.0	65.4	62.9	61.6
Efficiency of thermal power stations		44.6	46.6	47.7	46.5	37.4	36.9

2. Energy balance

Principal aggregates by product

 eurostat	GERMANY						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	138 219	138 234	131 822	134 735	131 946	131 481p	-0.4%
<i>among which:</i> Hard coal	34 261	33 231	30 633	28 506	24 164	19 697	-18.5%
Lignite and peat	39 534	37 406	35 057	34 053	35 437	38 482	8.6%
Crude oil	2 908	2 836	2 964	2 778	3 208	3 322	3.6%
Natural Gas	16 117	16 079	15 670	16 708	15 800	15 932	0.8%
Nuclear heat	38 925	41 114	38 912	43 853	43 750	44 189	1.0%
Hydro-electricity	1 718	1 492	1 511	1 689	1 995	1 758	-11.9%
Biomass	4 510	5 737	6 587	6 584	6 682	7 092	6.1%
Imports							
Total	231 233	231 835	236 377	229 042	234 913	244 602	4.1%
<i>among which:</i> Hard coal	10 438	12 616	14 013	14 271	17 390	20 828	19.8%
Crude oil and feedstocks	104 846	101 688	110 495	105 143	105 061	106 584	1.5%
Petroleum products	46 701	49 981	45 362	41 044	42 741	44 337	3.7%
Natural Gas	62 829	61 162	59 333	61 591	61 085	63 444	3.9%
Electricity	3 216	3 268	3 294	3 491	3 881	3 995	2.9%
Exports							
Total	23 439	23 478	23 629	26 486	30 211	28 954	-4.2%
<i>among which:</i> Crude oil and feedstocks	1 799	3 624	1 403	1 761	3 260	1 044	-68.0%
Petroleum products	13 970	12 503	15 012	16 609	18 568	18 433	-0.7%
Natural gas	2 773	3 000	3 289	4 291	4 220	5 248	24.3%
Electricity	3 669	3 470	3 349	3 401	3 618	3 761	4.0%
Gross inland consumption							
Total	348 812	345 322	344 709	338 621	340 077	348 836p	2.6%
<i>among which:</i> Solid fuels	90 916	86 723	85 585	80 110	83 724	85 035	1.6%
Crude oil and petrol. prod.	136 856	137 080	137 666	132 954	129 872	132 707	2.2%
Natural gas	75 081	71 948	72 729	71 996	71 853	75 591	5.2%
Nuclear Energy	38 925	41 114	38 912	43 853	43 750	44 189	1.0%
Renewables	6 474	7 569	8 585	8 837	9 587	9 859p	2.8%
Transformation input							
Total	267 424	256 329	259 651p	260 716	265 346	265 051	-0.1%
<i>among which:</i> Crude oil and feedstocks	117 751	114 233	120 305	118 500	119 856	117 945	-1.6%
Petroleum products	2 522	2 450	2 246	2 105	1 796	1 746	-2.8%
Hard coal	42 707	39 949	41 692	40 353	40 931	38 019	-7.1%
Lignite and peat	38 654	36 795	34 981	34 612	37 266	39 054	4.8%
Renewables	1 797	1 663	1 758	1 825	1 825	2 235	22.5%
Transformation output							
Total	190 640	184 722	189 738p	185 963p	178 764p	175 825	-1.6%
<i>among which:</i> Electricity	45 422	45 369	45 620	45 258	46 108	46 965	1.9%
Heat	9 950	9 950	9 950p	9 950p	0p	0p	

Final energy consumption

Total	228 654	224 077	223 979p	221 422p	213 931p	214 869p	0.4%
<i>among which:</i> Solid fuels	13 750	13 364	11 784	10 486	10 932	10 285	-5.9%
Petroleum products	106 689	105 383	104 586	101 252	97 917	100 779	2.9%
Natural Gas	54 238	49 658	50 969	52 979	55 552	53 908	-3.0%
Renewables	2 713	4 074	4 829	4 759	4 857	4 857	0.0%
Electricity	39 382	39 704	40 110	40 196	41 496	42 150p	1.6%

Final energy consumption by sector
Industry

Total	60 606	58 394	57 643p	56 469p	58 715p	55 382p	-5.7%
<i>among which:</i> Solid fuels	10 194	10 606	10 079	9 098	9 656	9 048	-6.3%
Petroleum Products	7 516	7 226	6 704	6 106	5 296	5 671	7.1%
Natural Gas	20 393	17 769	18 037	18 564	21 222	18 633	-12.2%
Renewables	480	326	388	381	381	381	0.0%
Electricity	17 294	17 738	17 910	17 720	19 082	18 860p	-1.2%


Transport

Total	62 615	63 772	64 861	66 903	65 978	64 465p	-2.3%
<i>among which:</i> Motor spirit	31 315	31 557	31 612	31 580	30 064	29 160	-3.0%
Diesel oil	23 651	24 215	25 090	26 785	26 921	26 632	-1.1%
Jet fuel	6 111	6 404	6 624	7 002	7 345	7 010	-4.6%
Electricity	1 423	1 450	1 383	1 362	1 368	1 368p	0.0%


Services&households

Total	105 432	101 912	101 476p	98 050p	89 238p	95 022p	6.5%
<i>among which:</i> Solid fuels	3 554	2 753	1 704	1 388	1 268	1 213	-4.3%
Gas oil	36 142	34 230	32 946	28 221	26 900	30 904	14.9%
Natural Gas	33 846	31 889	32 932	34 415	34 329	35 275	2.8%
Renewables	2 188	3 675	4 360	4 272	4 272	4 272	0.0%
Electricity	20 666	20 516	20 817	21 115	21 046	21 922p	4.2%
Heat	7 065	7 065	7 065p	7 065p	0p	0p	


3.1 Electricity balance

 eurostat	GERMANY						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	555 002	551 570	556 714	555 465	571 551	581 582	1.8%
<i>among which:</i>							
Hydro	24 683	20 934	21 590	23 613	25 962	24 875	-4.2%
Wind	2 078	3 034	4 593	5 528	9 352	10 500	12.3%
Geothermal	-	-	-	-	-	-	-
Nuclear	161 613	170 328	161 644	170 004	169 606	171 305	1.0%
Conventional thermal	366 628	357 274	368 887	356 320	366 631	374 902	2.3%
<i>of which:</i>							
Hard coal	152 687	143 103	153 439	143 083	143 164	138 353	-3.4%
Lignite and peat	144 286	141 719	139 402	135 984	148 332	154 817	4.4%
Petroleum products	7 966	6 866	6 376	5 845	4 785	6 102	27.5%
Natural gas	47 928	50 176	54 312	55 063	52 495	57 415	9.4%
Derived gases	6 671	8 071	6 687	6 907	7 475	7 555	1.1%
Biomass	4 034	3 391	4 785	5 251	6 175	5 250	-15.0%
Industrial wastes	3 056	3 948	3 886	4 187	4 205	5 410	28.7%
Total net generation	515 886	512 768	517 942	518 662	533 552	541 475	1.5%
Imports and exports							
Total imports	37 404	38 012	38 315	40 598	45 134	46 465	2.9%
Total exports	42 670	40 361	38 953	39 558	42 077	43 741	4.0%
Consumption and losses							
Consumption of the energy branch	61 567	62 033	61 479	60 711	56 420	56 856p	0.8%
<i>of which:</i>							
Consumption for pumped-storage	1 148	2 081	1 357	1 338	3 282	3 310	0.9%
Network losses	25 453	21 884	24 138	24 372	32 824	32 824p	0.0%
Final energy consumption	458 018	461 761	466 476	467 483	482 603	490 202p	1.6%
<i>of which:</i>							
Industry	201 129	206 297	208 293	206 085	221 926	219 338p	-1.2%
<i>among which:</i>							
Iron&steel industry	22 399	24 099	23 201	22 096	23 654	23 654p	0.0%
Non-ferrous metals	16 793	17 211	17 943	18 166	18 502	18 502p	0.0%
Chemical industry	50 981	53 439	53 091	51 151	48 336	48 336p	0.0%
Non-met. mineral prod.	15 005	14 882	14 875	14 835	14 826	14 826p	0.0%
Food, drink, tobacco	13 556	13 561	13 875	14 120	14 699	14 699p	0.0%
Pulp, paper and print	19 153	19 679	19 684	19 981	21 768	21 768p	0.0%
Engineering & metal	24 575	25 334	27 649	27 925	29 224	29 224p	0.0%
Other industries	31 524	31 669	31 587	31 633	44 564	41 976p	-5.8%
Transport	16 545	16 859	16 082	15 835	15 910	15 910p	0.0%
Services & households etc.	240 344	238 605	242 101	245 563	244 767	254 954p	4.2%
<i>among which:</i>							
Households	133 811	130 812	130 832	131 281	128 907	139 094	7.9%


3.2 Electrical capacity, fuel inputs and heat


		GERMANY						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	114 896	113 983	113 624	114 691	118 267	119 389	0.9%
<i>by source:</i>								
Conventional thermal		81 500	80 862	79 784	79 371	80 794	79 380	-1.8%
<i>of which:</i>								
Steam		73 152	71 896	70 795	70 259	70 831	69 000	-2.6%
Gas turbine		7 994	8 340	6 444	6 417	6 279	6 246	-0.5%
Combined cycle		-	-	1 712	1 790	2 729	3 179	16.5%
Internal combustion		354	626	833	905	955	955	0.0%
Nuclear		22 910	22 314	22 314	22 329	22 396	22 396	0.0%
Hydro		8 940	8 841	8 854	8 853	8 982	8 859	-1.4%
<i>among which:</i>								
Pumped storage		4 635	4 545	5 857	5 886	4 654	4 562	-2.0%
Wind		1 546	1 966	2 672	4 138	6 095	8 754	43.6%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		100 786	101 804	101 728	97 784	108 229	109 047	0.8%
Autoproducers		13 282	12 181	11 898	11 437	10 118	10 422	3.0%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	86 682	81 099	81 444p	81 115	84 275	87 293	3.6%
<i>among which:</i>								
Hard coal		33 318	30 658	32 585	32 781	32 929	31 674	-3.8%
Lignite and peat		34 130	33 219	32 227	32 042	34 746	36 295	4.5%
Petroleum products		1 677	1 318	1 263	1 183	1 107	1 108	0.1%
Natural gas		13 323	11 758	10 959	11 052	11 095	13 217	19.1%
Renewables		1 298	1 213	1 138	1 169	1 169	1 580	35.1%
Heating plants		4 731	2 308	2 611	2 662	2 091	2 043	-2.3%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		105	10	2	-	-	-	-
Petroleum products		220	524	464	459	219	169	-23.0%
Natural gas		3 869	1 303	1 505	1 505	1 182	1 182	0.0%
Renewables		499	450	619	656	656	656	0.0%
Heat production and consumption								
Total heat production	TJ	9 950	9 950	9 950p	9 950p	0p	0p	
<i>among which: in heating plants</i>								
		2 849	2 849	2 849p	2 849p	0p	0p	
Heat consumption		8 737	8 737	8 737p	8 737p	0p	0p	
<i>of which: in industry</i>								
		1 672	1 672	1 672p	1 672p	0p	0p	
<i>in households and services</i>								
		7 065	7 065	7 065p	7 065p	0p	0p	
<i>among which: in households</i>								
		4 081	4 081	4 081p	4 081p	0p	0p	

4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	GERMANY						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		2 874	2 804	2 934	2 746	3 166	3 278	3.5%
Total imports		103 605	100 544	109 379	103 933	103 684	105 171	1.4%
Total exports		1 778	3 583	1 389	1 741	3 217	1 030	-68.0%
Stock changes		-134	1 918	-2 364	1 660	3 421	-750	
Refinery intake		116 321	112 907	119 039	117 101	118 265	116 365	-1.6%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		31 367	30 953	31 829	28 804	28 547	23 072	-19.2%
Near and Middle East		11 424	7 176	13 521	12 954	13 534	11 714	-13.4%
Africa		23 112	20 710	23 087	21 667	21 295	18 232	-14.4%
<i>by country of origin:</i>								
Algeria		4 929	3 786	5 519	4 188	6 501	3 958	-39.1%
Nigeria		3 967	5 031	2 127	1 161	1 983	3 013	51.9%
Saudi Arabia		5 597	5 928	5 294	4 505	4 568	4 016	-12.1%
Kuwait		813	624	827	748	643	109	-83.0%
United Arab Emirates		-	48	2	-	-	-	-
Norway		21 882	21 927	22 220	20 783	18 708	20 969	12.1%
Refining capacity								
Capacity at the end of year	1 000 t/year	104 750	108 050	109 840	111 540	112 940	:	
<i>among which:</i>								
Cracking and others		42 900	39 400	46 430	47 330	48 500	:	
Reforming		16 800	16 600	17 000	17 000	17 030	:	

4.2 Petroleum products


 eurostat	GERMANY						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Production and supply							
Total refinery output	115 520	111 070	117 200	115 077	116 025	114 292	-1.5%
<i>among which:</i>							
Motor spirit	26 105	25 354	26 222	26 829	26 972	26 021	-3.5%
Kerosene and jet fuel	3 312	3 625	3 699	4 259	4 328	4 206	-2.8%
Naphtha	9 366	8 733	9 638	9 663	9 024	8 495	-5.9%
Gas/diesel oil	47 387	45 467	47 821	46 108	46 449	46 943	1.1%
Residual fuel oil	13 427	12 271	13 591	11 873	13 116	13 192	0.6%
Total imports	46 159	49 302	44 727	40 522	42 171	43 669	3.6%
Total exports	14 117	12 666	15 190	16 664	18 601	18 495	-0.6%
Bunkers	2 083	2 207	2 097	2 139	2 247	2 280	1.5%
Stock changes	85	-1 227	-508	2 503	-842	597	
Gross inland consumption	30 299	33 407	27 149	24 412	20 728	23 806	14.8%
Imports and exports							
Imports by origin							
<i>among which:</i>							
Netherlands	24 588	26 199	26 086	23 871	24 955	24 234	-2.9%
United Kingdom	2 033	2 510	1 183	1 346	1 882	2 145	14.0%
Norway	1 147	1 684	1 215	445	477	541	13.4%
OPEC	1 323	667	466	471	408	543	33.1%
Imports by product							
<i>among which:</i>							
Motor spirit	8 692	9 403	8 760	7 436	8 752	7 838	-10.4%
Kerosene and jet fuel	2 851	3 064	3 010	2 857	3 130	3 396	8.5%
Gas/diesel oil	21 534	22 621	19 451	17 167	16 058	19 545	21.7%
Residual fuel oil	4 184	3 748	2 840	2 443	2 903	2 328	-19.8%
Exports by product							
<i>among which:</i>							
Motor spirit	3 066	2 947	3 111	4 392	4 611	4 661	1.1%
Kerosene and jet fuel	65	60	74	119	299	517	72.9%
Gas/diesel oil	3 593	3 004	3 894	4 324	5 448	5 576	2.3%
Residual fuel oil	4 255	3 656	4 818	4 012	4 397	4 066	-7.5%
Consumption							
Inputs to electricity plants	1 707	1 342	1 293	1 229	1 169	1 163	-0.5%
Inputs to heating plants	230	530	468	463	218	168	-22.9%
Non-energy use	21 125	21 774	22 809	22 244	22 732	22 319	-1.8%
Final energy consumption	104 330	103 054	102 269	98 969	95 664	98 561	3.0%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	3 646	3 197	2 853	2 716	2 413	2 250	-6.8%
Residual fuel oil	2 930	2 944	2 769	2 348	1 925	2 544	32.2%

 eurostat	GERMANY						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Industry							
<i>among which by sector:</i>							
Iron&steel industry	1 429	1 486	1 458	1 188	933	1 125	20.6%
Non-ferrous metals	169	152	146	137	135	130	-3.7%
Chemical industry	280	253	139	189	70	432	517.1%
Non-met. mineral prod.	1 375	1 307	1 379	1 379	1 096	1 059	-3.4%
Food, drink, tobacco	1 121	1 026	1 012	834	875	860	-1.7%
Pulp, paper and print	500	409	366	265	212	212	0.0%
Engineering & metal	1 216	1 103	901	811	728	738	1.4%
Other industries	1 171	1 281	1 140	1 152	1 093	996	-8.9%
Transport	59 220	60 293	61 427	63 442	62 468	60 994	-2.4%
<i>among which:</i>							
Motor spirit	29 798	30 028	30 080	30 050	28 607	27 747	-3.0%
Jet fuel	5 950	6 235	6 450	6 818	7 152	6 825	-4.6%
Diesel oil	23 409	23 968	24 834	26 511	26 646	26 360	-1.1%
Services & households etc.	37 520	35 442	34 038	29 325	27 839	31 814	14.3%
<i>among which:</i>							
Gas oil	35 773	33 880	32 610	27 933	26 625	30 588	14.9%
Residual fuel oil	164	149	132	209	5	6	20.0%
Stocks at end of period							
Crude oil and feedstocks	19 318	17 400	19 764	18 104	14 683	15 433	5.1%
Petroleum products	21 481	22 708	23 216	20 715	21 557	20 960	-2.8%


5. Natural gas

 eurostat	GERMANY							
	in TJ (GCV)		1996	1997	1998	1999	2000	2001
Primary production and supply								
Primary production		749 750	747 980	728 981	777 245	735 038	741 143	0.8%
Total imports		2 922 797	2 845 235	2 760 192	2 865 234	2 841 697	2 951 423	3.9%
Total exports		129 002	139 563	152 992	199 636	196 326	244 115	24.3%
Stock changes		-50 755	-106 618	47 160	-93 600	-37 800	68 040	
Gross inland consumption		3 492 790	3 347 034	3 383 341	3 349 243	3 342 609	3 516 491	5.2%
Imports								
Imports by origin								
<i>among which:</i>								
CIS		1 218 947	1 149 679	1 225 235	1 290 507	1 299 906	1 235 435	-5.0%
Algeria		-	-	-	-	-	-	-
Norway		632 264	754 943	695 423	720 273	757 969	831 264	9.7%
Consumption								
Inputs to electricity plants		619 770	546 960	509 820	514 157	516 151	614 838	19.1%
Inputs to heat plants		180 000	60 626	70 000	70 000	55 000	55 000	0.0%
Consumption of energy branch		81 285	60 323	44 229	61 584	50 849	49 169	-3.3%
Distribution losses		35 586	15 196	16 000	16 000	-	25 379	
Non-energy use		86 430	98 232	100 000	100 000	100 000	100 000	0.0%
Industry		948 671	826 614	839 067	863 601	987 257	866 799	-12.2%
<i>among which:</i>								
Iron&steel industry		121 752	118 132	107 388	112 961	115 241	114 864	-0.3%
Non-ferrous metals		30 480	32 667	37 236	36 403	36 880	38 059	3.2%
Chemical industry		246 037	213 609	216 242	223 487	235 428	217 593	-7.6%
Non-met. mineral prod.		146 805	125 818	133 106	130 808	131 938	121 035	-8.3%
Food, drink, tobacco		95 238	84 656	84 125	91 464	92 428	90 809	-1.8%
Pulp, paper and print		67 828	79 493	79 821	90 265	96 359	96 439	0.1%
Engineering & metal		107 139	94 857	120 885	118 204	116 023	118 155	1.8%
Other industries		92 093	51 626	34 446	35 531	46 516	45 478	-2.2%
Transport		-	-	-	-	-	-	-
Services & households etc.		1 574 502	1 483 477	1 532 000	1 601 000	1 597 000	1 641 000	2.8%
<i>among which:</i>								
Households		1 151 652	1 060 767	1 100 000	1 155 000	1 100 000	1 150 000	4.5%
Services		410 400	411 280	420 530	435 000	485 000	480 000	-1.0%


6.1 Hard coal

 eurostat	GERMANY						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply							
Primary production	53 157	51 212	47 208	43 848	37 376	30 669	-17.9%
Total imports	16 348	20 031	22 249	22 678	27 948	33 511	19.9%
Total exports	1 037	516	325	212	279	106	-62.0%
Stock changes	6 894	1 509	4 247	341	3 918	961	-75.5%
Gross inland consumption	75 362	72 236	73 379	66 655	68 963	65 035	-5.7%
Imports							
Imports by origin							
<i>among which:</i>							
USA	2 000	1 116	838	852	689	828	20.2%
Poland	3 228	3 886	3 703	5 765	6 794	7 369	8.5%
CIS	61	86	5	299	937	2 216	136.5%
Australia	1 115	809	1 860	2 320	3 716	3 216	-13.5%
South Africa	5 756	7 230	5 440	5 765	4 578	5 494	20.0%
Colombia	2 222	3 711	2 109	2 830	2 719	3 093	13.8%
Consumption							
Inputs to electricity plants	52 078	49 008	52 482	52 797	52 971	50 952	-3.8%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	33	25	21	14	7	6	-14.3%
Industry							
<i>among which:</i>							
Iron&steel industry	1 749	2 225	2 437	2 509	2 742	2 511	-8.4%
Non-ferrous metals	22	25	19	12	9	15	66.7%
Chemical industry	1 572	1 769	886	726	265	716	170.2%
Non-met. mineral prod.	1 766	1 685	1 389	1 251	1 348	980	-27.3%
Food, drink, tobacco	156	177	168	140	98	105	7.1%
Pulp, paper and print	557	528	470	484	431	410	-4.9%
Engineering & metal	57	14	-	4	-	1	-
Other industries	30	40	28	20	10	4	-60.0%
Services & households etc.	836	1 007	397	383	358	404	12.8%
Structural data							
Personnel employed underground (annual mean in 1000's)	55.3	50.0	45.7	42.1	35.6	26.3	-26.1%
Number of active hard coal mines (end of year)	18	17	15	15	12	11	-8.3%

6.2 Coal derivatives and peat

	GERMANY						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	10 662	10 744	10 279	8 568	9 115	7 265	-20.3%
Patent Fuel	357	318	185	169	146	140	-4.1%
Lignite and peat	187 239	177 160	166 035	161 282	167 836	175 509	4.6%
Brown coal briquettes	8 482	6 953	5 601	5 236	5 238	5 139	-1.9%
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	89 000	89 000	89 000p	90 105	88 107	68 136	-22.7%
Blast-furnace gas	168 000	168 000	160 900	162 393	180 770	167 852	-7.1%
Gasworks gas	14 000	10 000	360	-	-	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	7 678	7 712	7 999	7 026	8 281	7 727	-6.7%
<i>among which:</i>							
Iron & steel industry	6 311	6 571	6 920	6 000	7 260	6 776	-6.7%
Services & households	658	514	469	372	344	311	-9.6%
Patent Fuel	331	286	222	146	115	88	-23.5%
<i>among which:</i>							
Services & households	331	286	222	146	115	88	-23.5%
Lignite and peat	1 630	1 034	1 057	812	505	376	-25.5%
<i>among which:</i>							
Industry	1 427	914	982	752	445	336	-24.5%
Services & households	203	120	75	60	60	40	-33.3%
Brown coal briquettes	7 307	5 844	4 456	4 056	3 868	3 596	-7.0%
<i>among which:</i>							
Industry	2 522	2 654	2 456	2 414	2 368	2 169	-8.4%
Services & households	4 785	3 190	2 000	1 642	1 500	1 427	-4.9%
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	51 000	51 000	51 000p	50 426	50 696	45 322	-10.6%
Blast-furnace gas	83 000	83 000	74 487	77 162	83 221	75 995	-8.7%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	69 000	69 000	70 413p	76 479	77 176	76 798	-0.5%
Inputs to heat plants	-	-	-	1 296	864	786	-9.0%
Consumption of energy branch	42 000	42 000	42 000p	32 092	38 122	28 414	-25.5%
Consumption in industry	133 000	133 000	124 487p	127 588	133 917	121 317	-9.4%

7. Renewable energy sources

		GERMANY						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	6 474	7 569	8 585	8 837	9 587	9 859p	2.8%
Hydro (excl. pumping)		1 718	1 492	1 511	1 689	1 995	1 758	-11.9%
Wind		179	261	395	475	804	903	12.3%
Solar		57	70	83	78	96	96p	0.0%
Geothermal		10	10	10	10	10	10p	0.0%
Biomass		4 510	5 737	6 587	6 584	6 682	7 092	6.1%
	<i>among which:</i>							
Wood, wood-waste		2 994	4 190	4 547	4 443	4 443p	4 443p	0.0%
Municipal solid waste		1 103	1 083	1 339	1 416	1 416p	1 826p	29.0%
Biogas		369	391	620	621	621p	621p	0.0%
Gross inland consumption		6 474	7 569	8 585	8 837	9 587	9 859p	2.8%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		1 797	1 663	1 758	1 825	1 825	2 235	22.5%
	<i>among which:</i>							
Wood, wood-waste		413	275	391	382p	382p	382p	0.0%
Municipal waste		1 103	1 083	1 339	1 416p	1 416p	1 826p	29.0%
Biogas		282	305	27	27	27p	27p	0.0%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	2 779	4 152	4 919	4 844	4 957	4 957p	0.0%
	<i>by sector:</i>							
Industry		480	326	388	381	381	381	0.0%
Services & households etc.		2 254	3 753	4 450	4 357	4 373	4 373p	0.0%
Transport		45	73	81	106	203	203	0.0%
	<i>by source:</i>							
Biomass		2 713	4 074	4 829	4 759	4 857	4 857	0.0%
	<i>among which:</i>							
Wood, wood-waste		2 581	3 915	4 156	4 060p	4 060p	4 060p	0.0%
Municipal waste		-	-	-	-	-	-	-
Biogas		87	86	592	593	593p	593p	0.0%
Geothermal		10	10	10	10	10	10p	0.0%
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		12	17	35	30	60	150	150.0%
Hydro with installed capacity < 1 MW		1 643	1 643	1 849	2 019	1 802	2 208	22.5%
Hydro with installed capacity > 1 & <10 MW		4 958	5 129	4 428	5 007	6 197	5 426	-12.4%
Hydro with installed capacity > 10 MW		11 667	11 696	11 295	12 620	16 926	14 517	-14.2%
Wood, Wood-waste		569	505	677	823	804	639	-20.5%
Municipal waste		2 686	2 123	3 235	3 479	3 688	3 717	0.8%
Biogas		592	751	763	949	1 683	894	-46.9%

eurostat		GERMANY						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		17	25	49	40	-	195	
Hydro with installed capacity < 1 MW		442	463	536	534	534	534	0.0%
Hydro with installed capacity > 1 & <10 MW		919	907	882	870	887	887	0.0%
Hydro with installed capacity > 10 MW		2 012	2 012	2 025	1 980	3 047	3 410	11.9%
Wood, Wood-waste		79	84	103	127	129	-	
Municipal waste		551	527	540	555	585	585	0.0%
Biogas		229	229	229	287	345	417	20.9%
Liquid biofuels								
Production	<i>1000 t</i>	55	90	100	130	250	250p	0.0%
Solar Panels								
Solar panel surface	<i>1000 m²</i>	1 786	2 166	2 535	2 500	2 500	3800p	52.0%

1. Energy economy

Key figures and energy indicators

eurostat		GREECE					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	10 136	9 924	10 038	9 463	9 946	9 942
Net energy imports		18 834	19 196	21 106	19 744	21 982	22 322
Net oil imports		17 544	18 106	19 429	17 782	19 527	19 581
Net gas imports		8	129	690	1 216	1 689	1 670
Gross inland energy consumption		25 405	25 585	26 875	26 759	28 076	28 937
Final energy consumption		16 870	17 257	18 159	18 157	18 508	19 112
Industry		4 314	4 339	4 421	4 154	4 432	4 496
Transport		6 561	6 726	7 292	7 453	7 196	7 363
Services and households etc.		5 995	6 192	6 446	6 549	6 880	7 253
Gross electricity generation	GWh	42 555	43 507	46 332	49 860	53 843	53 704
Final electricity consumption		35 562	37 074	39 315	40 879	43 151	44 535
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	92 008	95 355	98 563	102 115	106 375	110 737
Population	1000 per.	10 476	10 497	10 516	10 538	10 560	10 582
Industry added value	Mio EUR	19 026	18 779	20 141	20 702	21 620	22 814
Total imports (current prices)	Mio EUR	23 988	27 386	29 917	31 040	35 527	34 320
among which:							
All energy commodities		2 292	1 831	1 986	1 579	4 331	4 862
Oil products		2 197	1 708	1 837	1 434	4 035	4 451
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	276.1	268.3	272.7	262.1	263.9	261.3
Final energy consumption / GDP(95)		183.4	181.0	184.2	177.8	174.0	172.6
Energy intensity of industry:							
Final consumption / gross value-added mp		226.7	231.1	219.5	200.7	205.0	197.1
Energy intensity of service sector:							
Final consumption / gross value-added mp		17.7	18.1	19.1	19.5	19.2	20.6
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	2 425	2 437	2 556	2 539	2 659	2 735
Final energy consumption / capita		1 610	1 644	1 727	1 723	1 753	1 806
Household consumption / capita		376	386	398	401	423	443
Electricity consumption / capita	kWh/cap.	3 758	3 970	4 184	4 252	4 666	4 982
Energy dependency							
Net energy imports / Gross consumption	in %	66.0	66.9	69.6	66.1	69.5	68.9
Net oil imports / Gross consumption		61.5	63.1	64.0	59.6	61.7	60.4
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	66.4	67.4	67.6	67.9	65.9	66.0
Efficiency of thermal power stations		32.6	33.7	35.4	38.7	36.8	37.4

2. Energy balance

Principal aggregates by product

eurostat	GREECE						
	1996	1997	1998	1999	2000	2001	01/00
<i>in 1 000 toe</i>							
Primary production							
Total	10 136	9 924	10 038	9 463	9 946	9 942	0.0%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	8 202	8 073	8 353	8 003	8 222	8 392	2.1%
Crude oil	515	466	316	16	280	191	-31.6%
Natural Gas	46	45	40	3	42	40	-5.0%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	374	334	320	416	318	180	-43.2%
Biomass	908	911	908	913	946	970	2.6%
Imports							
Total	23 578	23 096	24 443	23 690	26 249	26 334	0.3%
<i>among which:</i> Hard coal	1 158	790	893	782	809	885	9.5%
Crude oil and feedstocks	18 601	18 611	19 280	17 347	20 439	20 132	-1.5%
Petroleum products	3 574	3 295	3 363	4 188	3 164	3 337	5.5%
Natural Gas	8	129	690	1 216	1 689	1 670	-1.1%
Electricity	229	258	215	156	149	306	106.0%
Exports							
Total	4 744	3 901	3 337	3 945	4 267	4 012	-6.0%
<i>among which:</i> Crude oil and feedstocks	274	214	-	116	-	-	-
Petroleum products	4 357	3 586	3 214	3 636	4 077	3 889	-4.6%
Natural gas	-	-	-	-	-	-	-
Electricity	113	61	77	142	150	91	-39.0%
Gross inland consumption							
Total	25 405	25 585	26 875	26 759	28 076	28 937	3.1%
<i>among which:</i> Solid fuels	8 952	8 817	9 156	8 524	9 040	9 308	3.0%
Crude oil and petrol. prod.	14 914	15 061	15 527	15 562	15 929	16 413	3.0%
Natural gas	49	171	725	1 218	1 705	1 683	-1.3%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	1 374	1 340	1 329	1 442	1 403	1 318	-6.0%
Transformation input							
Total	30 517	30 905	31 544	29 059	34 030	33 308	-2.1%
<i>among which:</i> Crude oil and feedstocks	20 459	20 808	21 221	19 063	22 404	21 666	-3.3%
Petroleum products	2 041	1 985	1 918	1 877	2 036	1 868	-8.2%
Hard coal	111	65	11	3	4	1	-66.7%
Lignite and peat	7 890	7 978	8 040	7 248	8 252	8 476	2.7%
Renewables	-	-	-	2	0	31	
Transformation output							
Total	23 666	24 161	24 811	22 877	26 632	25 951	-2.6%
<i>among which:</i> Electricity	3 269	3 386	3 645	3 838	4 237	4 318	1.9%
Heat	-	-	-	26	28	28	0.2%

Final energy consumption

Total	16 870	17 257	18 159	18 157	18 508	19 112	3.3%
<i>among which:</i> Solid fuels	1 078	964	964	770	888	903	1.7%
Petroleum products	11 719	12 023	12 669	12 634	12 584	12 992	3.2%
Natural Gas	3	33	142	201	252	317	25.9%
Renewables	908	911	908	911	946	939	-0.7%
Electricity	3 058	3 188	3 380	3 515	3 710	3 829	3.2%

Final energy consumption by sector
Industry

Total	4 314	4 339	4 421	4 154	4 432	4 496	1.4%
<i>among which:</i> Solid fuels	1 020	909	917	734	852	870	2.0%
Petroleum Products	2 035	2 091	2 060	1 913	1 935	1 913	-1.1%
Natural Gas	3	33	129	190	239	294	23.2%
Renewables	206	209	205	208	241	236	-2.1%
Electricity	1 043	1 058	1 110	1 109	1 165	1 183	1.6%


Transport

Total	6 561	6 726	7 292	7 453	7 196	7 363	2.3%
<i>among which:</i> Motor spirit	3 037	3 137	3 264	3 326	3 394	3 506	3.3%
Diesel oil	2 005	2 031	2 268	2 240	2 216	2 304	4.0%
Jet fuel	1 230	1 187	1 201	1 284	1 325	1 191	-10.1%
Electricity	14	14	15	17	20	18	-5.7%


Services&households

Total	5 995	6 192	6 446	6 549	6 880	7 253	5.4%
<i>among which:</i> Solid fuels	58	54	48	36	35	33	-5.7%
Gas oil	2 910	2 992	3 116	3 087	3 287	3 546	7.9%
Natural Gas	-	-	13	11	13	17	29.4%
Renewables	702	702	703	702	705	703	-0.2%
Electricity	2 001	2 115	2 255	2 389	2 526	2 628	4.0%
Heat	-	-	-	26	28	28	0.2%


3.1 Electricity balance

 eurostat	GREECE						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	42 555	43 507	46 332	49 860	53 843	53 704	-0.3%
<i>among which:</i>							
Hydro	4 504	4 096	3 866	5 058	4 111	2 725	-33.7%
Wind	36	37	73	162	451	756	67.6%
Geothermal	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-
Conventional thermal	38 015	39 374	42 393	44 640	49 281	50 223	1.9%
<i>of which:</i>							
Hard coal	438	282	45	12	14	6	-57.1%
Lignite and peat	28 859	30 347	32 397	32 369	34 299	35 425	3.3%
Petroleum products	8 534	8 299	8 078	8 157	8 885	8 477	-4.6%
Natural gas	78	332	1 713	3 907	5 920	6 133	3.6%
Derived gases	-	-	-	-	-	-	-
Biomass	-	-	-	-	-	-	-
Industrial wastes	106	114	160	195	163	182	11.7%
Total net generation	39 285	40 158	42 757	46 021	49 863	49 730	-0.3%
Imports and exports							
Total imports	2 664	3 003	2 500	1 811	1 729	3 562	106.0%
Total exports	1 314	709	890	1 647	1 740	1 062	-39.0%
Consumption and losses							
Consumption of the energy branch	4 940	5 102	5 305	5 596	5 990	6 090	1.7%
<i>of which:</i>							
Consumption for pumped-storage	67	91	63	101	179	269	50.3%
Network losses	3 247	3 271	3 173	3 334	4 273	4 951	15.9%
Final energy consumption	35 562	37 074	39 315	40 879	43 151	44 535	3.2%
<i>of which:</i>							
Industry	12 127	12 307	12 908	12 900	13 547	13 762	1.6%
<i>among which:</i>							
Iron&steel industry	742	833	868	821	975	1 101	12.9%
Non-ferrous metals	3 203	3 300	3 446	3 520	3 861	3 898	1.0%
Chemical industry	1 150	1 162	1 246	1 221	1 212	1 094	-9.7%
Non-met. mineral prod.	1 936	1 947	2 016	1 979	2 068	2 063	-0.2%
Food, drink, tobacco	984	1 017	1 041	1 107	1 210	1 231	1.7%
Pulp, paper and print	512	458	444	475	512	491	-4.1%
Engineering & metal	645	663	713	754	790	785	-0.6%
Other industries	1 687	1 800	1 877	1 791	1 647	1 833	11.3%
Transport	159	167	180	197	227	214	-5.7%
Services & households etc.	23 276	24 600	26 227	27 782	29 377	30 559	4.0%
<i>among which:</i>							
Households	12 251	12 423	12 786	13 484	14 207	14 546	2.4%


3.2 Electrical capacity, fuel inputs and heat


		GREECE						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	9 125	9 575	10 017	10 905	10 903	10 969	0.6%
<i>by source:</i>								
Conventional thermal		6 574	6 818	7 120	7 692	7 605	7 623	0.2%
<i>of which:</i>								
Steam		5 613	5 767	6 006	5 965	5 806	5 826	0.3%
Gas turbine		229	229	370	370	323	375	16.1%
Combined cycle		373	373	373	922	918	916	-0.2%
Internal combustion		358	449	371	435	558	506	-9.3%
Nuclear		-	-	-	-	-	-	-
Hydro		2 522	2 727	2 856	3 102	3 072	3 076	0.1%
<i>among which:</i>								
Pumped storage		315	315	615	615	699	699	0.0%
Wind		27	28	39	109	226	270	19.5%
Geothermal		2	2	2	2	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		8 904	9 353	9 784	10 623	10 690	10 772	0.8%
Autoproducers		221	222	233	282	213	218	2.3%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	10 017	10 054	10 290	9 979	11 595	11 608	0.1%
<i>among which:</i>								
Hard coal		111	65	11	3	4	1	-66.7%
Lignite and peat		7 869	7 955	8 022	7 231	8 222	8 442	2.7%
Petroleum products		2 021	1 964	1 905	1 877	2 036	1 868	-8.2%
Natural gas		16	70	352	867	1 334	1 265	-5.1%
Renewables		-	-	-	2	0	31	
Heating plants		-	-	-	0	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	0	-	-	-
Heat production and consumption								
Total heat production	TJ	-	-	-	26	28	28	0.2%
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		-	-	-	26	28	28	0.2%
<i>of which: in industry</i>								
		-	-	-	-	-	-	-
	in households and services	-	-	-	26	28	28	0.2%
<i>among which: in households</i>								
		-	-	-	26	28	28	0.2%

4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	GREECE						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		514	465	315	16	279	191	-31.5%
Total imports		18 560	18 550	19 206	17 287	20 383	20 081	-1.5%
Total exports		274	213	-	116	-	-	-
Stock changes		266	-97	-290	187	-104	-150	44.2%
Refinery intake		20 396	20 717	21 118	18 979	22 320	21 595	-3.2%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		13 086	15 310	17 436	14 970	15 122	13 164	-12.9%
Near and Middle East		8 346	13 814	16 140	13 787	13 866	11 953	-13.8%
Africa		2 433	99	1 376	1 322	1 256	1 211	-3.6%
<i>by country of origin:</i>								
Algeria		79	-	-	-	65	-	-
Nigeria		-	-	-	-	-	-	-
Saudi Arabia		3 991	5 382	7 045	5 347	5 821	5 268	-9.5%
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
Refining capacity								
Capacity at the end of year	1 000 t/year	19 775	19 575	19 290	20 140	20 440	:	
<i>among which:</i>								
Cracking and others		7 400	7 300	8 560	9 870	9 890	:	
Reforming		2 100	2 200	2 220	2 330	2 360	:	

4.2 Petroleum products


 eurostat	GREECE						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Production and supply							
Total refinery output	20 278	20 624	21 026	18 894	22 231	21 483	-3.4%
<i>among which:</i>							
Motor spirit	3 383	3 607	3 671	3 205	3 758	3 770	0.3%
Kerosene and jet fuel	1 989	1 972	1 995	1 908	2 116	1 803	-14.8%
Naphtha	977	970	932	880	1 036	881	-15.0%
Gas/diesel oil	4 760	5 144	5 544	4 866	5 647	5 452	-3.5%
Residual fuel oil	7 424	7 149	6 959	6 326	7 510	7 361	-2.0%
Total imports	3 615	3 401	3 389	4 208	3 255	3 397	4.4%
Total exports	4 285	3 518	3 120	3 540	3 944	3 779	-4.2%
Bunkers	3 210	3 218	3 582	3 190	3 686	3 584	-2.8%
Stock changes	-306	-316	-421	665	-242	263	
Gross inland consumption	-4 186	-3 651	-3 734	-1 857	-4 617	-3 703	19.8%
Imports and exports							
Imports by origin							
<i>among which:</i>							
Netherlands	9	3	15	109	196	19	-90.3%
United Kingdom	4	10	76	73	17	28	64.7%
Norway	-	-	-	-	-	-	-
OPEC	68	150	-	761	491	464	-5.5%
Imports by product							
<i>among which:</i>							
Motor spirit	180	45	152	477	415	116	-72.0%
Kerosene and jet fuel	131	81	62	306	97	261	169.1%
Gas/diesel oil	2 788	2 292	2 539	2 738	2 013	2 435	21.0%
Residual fuel oil	151	435	411	298	174	169	-2.9%
Exports by product							
<i>among which:</i>							
Motor spirit	780	556	645	653	1 011	678	-32.9%
Kerosene and jet fuel	900	854	829	930	755	965	27.8%
Gas/diesel oil	493	185	284	586	576	794	37.8%
Residual fuel oil	1 032	696	196	280	220	255	15.9%
Consumption							
Inputs to electricity plants	2 080	2 017	1 955	1 945	2 109	1 934	-8.3%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	480	508	443	451	640	685	7.0%
Final energy consumption	11 565	11 869	12 510	12 480	12 407	12 824	3.4%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	490	500	525	560	504	500	-0.8%
Residual fuel oil	1 067	1 045	928	769	882	830	-5.9%

 eurostat	GREECE						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Industry							
<i>among which by sector:</i>							
Iron&steel industry	35	39	46	49	51	52	2.0%
Non-ferrous metals	256	220	249	325	272	272	0.0%
Chemical industry	166	196	242	149	155	146	-5.8%
Non-met. mineral prod.	452	537	428	412	465	506	8.8%
Food, drink, tobacco	310	281	310	264	290	272	-6.2%
Pulp, paper and print	93	109	93	98	113	98	-13.3%
Engineering & metal	29	24	32	33	35	34	-2.9%
Other industries	503	515	529	471	424	432	1.9%
Transport	6 354	6 519	7 085	7 243	6 964	7 127	2.3%
<i>among which:</i>							
Motor spirit	2 890	2 985	3 106	3 165	3 230	3 336	3.3%
Jet fuel	1 198	1 156	1 169	1 250	1 290	1 160	-10.1%
Diesel oil	1 985	2 010	2 245	2 217	2 193	2 280	4.0%
Services & households etc.	3 094	3 176	3 287	3 242	3 428	3 694	7.8%
<i>among which:</i>							
Gas oil	2 880	2 961	3 084	3 055	3 253	3 510	7.9%
Residual fuel oil	28	28	28	28	28	34	21.4%
Stocks at end of period							
Crude oil and feedstocks	1 231	1 223	1 618	1 431	1 535	1 685	9.8%
Petroleum products	1 971	1 971	2 707	2 042	2 284	2 021	-11.5%


5. Natural gas

 eurostat	GREECE							
	in TJ (GCV)		1996	1997	1998	1999	2000	2001
Primary production and supply								
Primary production		2 154	2 088	1 874	117	1 968	1 870	-5.0%
Total imports		357	6 017	32 111	56 575	78 551	77 680	-1.1%
Total exports		-	-	-	-	-	-	-
Stock changes		-218	-150	-238	-32	-1 224	-1 255	-2.5%
Gross inland consumption		2 293	7 955	33 747	56 660	79 295	78 295	-1.3%
Imports								
Imports by origin								
<i>among which:</i>								
CIS		-	6 017	32 111	56 575	58 257	57 470	-1.4%
Algeria		-	-	-	-	20 294	20 210	-0.4%
Norway		-	-	-	-	-	-	-
Consumption								
Inputs to electricity plants		765	3 266	16 398	40 311	62 035	58 848	-5.1%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		1 200	1 183	1 328	59	1 552	1 420	-8.5%
Distribution losses		-	94	40	36	40	466	
Non-energy use		167	1 868	9 367	6 951	3 923	2 754	-29.8%
Industry								
<i>among which:</i>								
Iron&steel industry		-	115	1 326	2 302	2 572	2 956	14.9%
Non-ferrous metals		-	-	260	1 215	1 830	1 651	-9.8%
Chemical industry		-	-	147	372	347	405	16.7%
Non-met. mineral prod.		-	99	1 217	1 319	1 820	2 997	64.7%
Food, drink, tobacco		161	1 174	1 811	2 475	2 925	2 441	-16.5%
Pulp, paper and print		-	67	423	297	561	891	58.8%
Engineering & metal		-	9	74	62	46	162	252.2%
Other industries		-	-	5	-	-	792	
Transport		-	-	-	-	-	284	
Services & households etc.								
<i>among which:</i>								
Households		-	-	-	181	226	243	7.5%
Services		-	-	618	345	400	567	41.8%


6.1 Hard coal


 eurostat	GREECE							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production	-	-	-	-	-	-	-	-
Total imports	1 780	1 214	1 373	1 203	1 245	1 363	9.5%	
Total exports	-	61	70	75	59	49	-16.9%	
Stock changes	-296	-	-25	-96	-65	-86	32.3%	
Gross inland consumption	1 484	1 153	1 278	1 032	1 121	1 228	9.5%	
Imports								
Imports by origin								
<i>among which:</i>								
USA	323	97	31	-	-	-	-	
Poland	-	-	-	-	-	-	-	
CIS	278	108	31	231	364	669	83.8%	
Australia	128	-	-	-	110	141	28.2%	
South Africa	793	764	936	462	447	40	-91.1%	
Colombia	-	-	-	-	-	-	-	
Consumption								
Inputs to electricity plants	170	100	17	5	6	2	-66.7%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry	1 309	1 203	1 256	1 027	1 115	1 226	10.0%	
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	
Non-ferrous metals	116	86	77	64	69	141	104.3%	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	1 193	1 117	1 179	963	1 046	1 085	3.7%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	4	6	5	-	-	-	-	
Structural data								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

6.2 Coal derivatives and peat

	GREECE						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	59 781	58 844	60 884	62 051	63 887	66 344	3.8%
Brown coal briquettes	88	99	77	73	141	138	-2.1%
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	670	631	-	-	-	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	13	20	3	1	-	4	
<i>among which:</i>							
Iron & steel industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	641	527	464	310	464	250	-46.1%
<i>among which:</i>							
Industry	503	418	362	235	381	172	-54.9%
Services & households	138	109	102	75	83	78	-6.0%
Brown coal briquettes	88	44	35	34	117	116	-0.9%
<i>among which:</i>							
Industry	51	-	-	-	79	80	1.3%
Services & households	37	44	35	34	38	36	-5.3%
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	670	2 175	-	-	-	-	-
Inputs to electricity plants	-	-	-	-	-	-	-
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	-	-	-	-	-	-	-
Consumption in industry	293	1 781	-	-	-	-	-

7. Renewable energy sources

		GREECE						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	1 374	1 340	1 329	1 442	1 403	1 318	-6.0%
Hydro (excl. pumping)		374	334	320	416	318	180	-43.2%
Wind		3	3	6	14	39	65	67.6%
Solar		86	89	93	97	99	100	1.5%
Geothermal		3	2	3	2	2	2	41.8%
Biomass		908	911	908	913	946	970	2.6%
	<i>among which:</i>							
Wood, wood-waste		908	911	907	911	945	938	-0.7%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		1	1	1	1	1	33	
Gross inland consumption		1 374	1 340	1 329	1 442	1 403	1 318	-6.0%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		-	-	-	2	0	31	
	<i>among which:</i>							
Wood, wood-waste		-	-	-	1	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	1	0	31	
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	997	1 003	1 003	1 010	1 046	1 042	-0.4%
	<i>by sector:</i>							
Industry		206	209	205	208	241	236	-2.1%
Services & households etc.		790	794	799	801	805	806	0.1%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		908	911	908	911	946	939	-0.7%
	<i>among which:</i>							
Wood, wood-waste		908	911	907	911	945	938	-0.7%
Municipal waste		-	-	-	-	-	-	-
Biogas		1	1	1	0	1	2	36.5%
Geothermal		3	2	3	2	2	2	41.8%
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		7	11	8	18	26	40	53.8%
Hydro with installed capacity > 1 & <10 MW		119	138	137	164	140	95	-32.1%
Hydro with installed capacity > 10 MW		4 236	3 756	3 582	4 446	3 527	1 962	-44.4%
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	2	1	79	

		GREECE						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	-	-	1	
Hydro with installed capacity < 1 MW		3	4	4	7	14	15	7.1%
Hydro with installed capacity > 1 & <10 MW		39	39	40	42	42	45	7.1%
Hydro with installed capacity > 10 MW		2 201	2 517	2 321	2 437	2 317	2 317	0.0%
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	1	1	21	
Liquid biofuels								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
Solar Panels								
Solar panel surface	<i>1000 m²</i>	2 168	2 228	2 381	2 440	2 941	2 992	1.7%


1. Energy economy

Key figures and energy indicators

eurostat		SPAIN					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	31 962	30 651	31 289	30 305	31 245	32 925
Net energy imports		73 854	80 231	87 554	94 427	98 351	98 763
Net oil imports		57 667	61 910	66 409	68 150	69 866	71 552
Net gas imports		8 315	11 540	12 058	13 903	15 467	15 827
Gross inland energy consumption		100 825	106 054	111 099	117 567	122 754	126 253p
Final energy consumption		65 259	67 757	71 750	74 378	79 435p	83 252p
Industry		19 780	21 674	22 541	22 451	25 474p	27 163p
Transport		27 750	28 011	30 458	31 890	32 848	34 233
Services and households etc.		17 730	18 072	18 750	20 037	21 114	21 857
Gross electricity generation	GWh	174 243	190 237	195 065	209 030	225 148	237 991
Final electricity consumption		147 182	159 002	165 969	177 252	188 459	200 953
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	457 773	476 204	496 897	517 756	539 416	553 840
Population	1000 per.	39 279	39 348	39 453	39 626	39 927	40 266
Industry added value	Mio EUR	129 077	134 992	142 131	149 135	156 060	159 930
Total imports (current prices)	Mio EUR	110 014	124 589	141 211	159 318	174 900	181 290
among which:							
All energy commodities		8 591	9 540	7 772	8 953	20 377	18 435
Oil products		6 959	7 504	5 802	7 000	16 184	13 944
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	220.3	222.7	223.6	227.1	227.6	228.0
Final energy consumption / GDP(95)		142.6	142.3	144.4	143.7	147.3	150.3
Energy intensity of industry:							
Final consumption / gross value-added mp		153.2	160.6	158.6	150.5	163.2	169.8
Energy intensity of service sector:							
Final consumption / gross value-added mp		17.4	17.7	18.6	19.0	20.1	20.3
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	2 567	2 695	2 816	2 967	3 074	3 135
Final energy consumption / capita		1 661	1 722	1 819	1 877	1 990	2 068
Household consumption / capita		269	273	281	297	298	309
Electricity consumption / capita	kWh/cap.	3 410	3 824	4 089	4 709	4 835	4 734
Energy dependency							
Net energy imports / Gross consumption	in %	70.1	71.8	74.8	76.5	76.4	74.3
Net oil imports / Gross consumption		54.7	55.4	56.7	55.2	54.3	53.8
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	64.7	63.9	64.6	63.3	64.7	65.9
Efficiency of thermal power stations		38.3	39.7	41.1	40.2	41.3	42.5

2. Energy balance

Principal aggregates by product

 eurostat	SPAIN						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	31 962	30 651	31 289	30 305	31 245	32 925	5.4%
<i>among which:</i> Hard coal	8 356	8 446	7 659	7 005	6 544	6 148	-6.0%
Lignite and peat	1 617	1 425	1 642	1 561	1 197	1 210	1.2%
Crude oil	510	369	525	297	225	336	49.0%
Natural Gas	426	163	102	131	148	471	218.2%
Nuclear heat	13 994	13 511	14 418	15 181	16 046	16 434	2.4%
Hydro-electricity	3 393	2 989	2 924	1 966	2 534	3 527	39.2%
Biomass	3 608	3 660	3 806	3 894	4 105	4 156	1.2%
Imports							
Total	82 254	88 390	97 000	102 084	106 789	105 996	-0.7%
<i>among which:</i> Hard coal	7 533	7 042	9 038	12 061	13 049	11 412	-12.5%
Crude oil and feedstocks	54 701	56 372	60 188	58 562	58 393	57 486	-1.6%
Petroleum products	10 812	12 924	14 882	16 448	18 731	20 298	8.4%
Natural Gas	8 315	11 540	12 058	13 903	15 467	15 827	2.3%
Electricity	580	395	771	1 028	1 055	875	-17.0%
Exports							
Total	8 400	8 159	9 446	7 657	8 438	7 233	-14.3%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	7 846	7 386	8 661	6 860	7 258	6 232	-14.1%
Natural gas	-	-	-	-	-	-	-
Electricity	489	660	478	537	673	578	-14.1%
Gross inland consumption							
Total	100 825	106 054	111 099	117 567	122 754	126 253p	2.8%
<i>among which:</i> Solid fuels	16 373	18 519	17 775	20 092	20 643	18 456	-10.6%
Crude oil and petrol. prod.	54 537	56 087	59 905	62 225	63 223	66 184	4.7%
Natural gas	8 642	11 308	11 609	13 289	15 219	16 400	7.8%
Nuclear Energy	13 994	13 511	14 418	15 181	16 046	16 434	2.4%
Renewables	7 059	6 737	6 943	6 130	7 085	8 326	17.5%
Transformation input							
Total	89 735	95 583	100 502	105 487	105 645	102 043p	-3.4%
<i>among which:</i> Crude oil and feedstocks	55 473	57 334	61 823	60 968	60 048	58 020	-3.4%
Petroleum products	2 744	2 790	3 426	5 145	4 602	5 096	10.7%
Hard coal	13 831	16 449	15 648	18 314	19 210	16 504	-14.1%
Lignite and peat	1 698	1 476	1 745	1 510	1 451	1 503	3.6%
Renewables	360	398	429	501	679	717	5.6%
Transformation output							
Total	67 800	72 879	77 652	78 590	78 428p	76 383	-2.6%
<i>among which:</i> Electricity	11 427	13 201	13 579	15 552	16 218	16 093	-0.8%
Heat	66	69	69	74	74p	-	

Final energy consumption

Total	65 259	67 757	71 750	74 378	79 435p	83 252p	4.8%
<i>among which:</i> Solid fuels	1 974	2 025	1 814	1 697	1 671	1 797	7.5%
Petroleum products	39 910	40 454	42 963	43 852	45 796	47 231	3.1%
Natural Gas	6 893	7 743	8 703	9 740	11 809	13 009	10.2%
Renewables	3 247	3 262	3 377	3 394	3 427	3 439	0.4%
Electricity	12 655	13 672	14 271	15 241	16 205	17 279	6.6%

Final energy consumption by sector
Industry

Total	19 780	21 674	22 541	22 451	25 474p	27 163p	6.6%
<i>among which:</i> Solid fuels	1 748	1 799	1 609	1 546	1 607	1 741	8.3%
Petroleum Products	5 379	6 066	6 112	5 170	5 647	5 887	4.3%
Natural Gas	5 401	6 076	6 742	7 368	9 151	10 004	9.3%
Renewables	1 255	1 271	1 385	1 401	1 302	1 314	0.9%
Electricity	5 483	5 917	6 141	6 574	7 364	7 762	5.4%


Transport

Total	27 750	28 011	30 458	31 890	32 848	34 233	4.2%
<i>among which:</i> Motor spirit	9 564	9 437	9 477	9 393	8 969	8 924	-0.5%
Diesel oil	14 043	14 245	16 382	17 681	18 676	20 039	7.3%
Jet fuel	3 378	3 639	3 962	4 198	4 486	4 526	0.9%
Electricity	298	310	322	307	358	392	9.5%


Services&households

Total	17 730	18 072	18 750	20 037	21 114	21 857	3.5%
<i>among which:</i> Solid fuels	226	226	205	151	64	55	-13.8%
Gas oil	4 284	4 334	4 057	4 349	5 099	5 139	0.8%
Natural Gas	1 492	1 663	1 956	2 362	2 658	3 005	13.0%
Renewables	1 992	1 992	1 991	1 992	2 059	2 060	0.0%
Electricity	6 874	7 444	7 807	8 361	8 483	9 125	7.6%
Heat	-	-	-	-	-	-	-


3.1 Electricity balance

 eurostat	SPAIN						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	174 243	190 237	195 065	209 030	225 148	237 991	5.7%
<i>among which:</i>							
Hydro	40 874	36 002	35 806	25 437	31 807	43 858	37.9%
Wind	338	716	1 352	2 744	4 724	6 966	47.5%
Geothermal	-	-	-	-	-	-	-
Nuclear	56 330	55 298	58 993	58 852	62 206	63 708	2.4%
Conventional thermal	76 701	98 221	98 914	121 997	126 411	123 459	-2.3%
<i>of which:</i>							
Hard coal	46 964	57 307	55 207	66 788	72 886	64 006	-12.2%
Lignite and peat	6 979	5 527	6 378	6 821	6 210	6 419	3.4%
Petroleum products	13 920	14 103	17 499	24 445	22 640	24 596	8.6%
Natural gas	6 767	18 174	16 212	19 058	21 074	23 272	10.4%
Derived gases	727	1 142	1 581	1 761	1 386	1 392	0.4%
Biomass	1 344	1 392	1 641	1 774	1 824	1 964	7.7%
Industrial wastes	-	576	396	1 350	391	1 810	362.9%
Total net generation	167 442	182 225	187 159	199 217	215 216	228 186	6.0%
Imports and exports							
Total imports	6 750	4 597	8 964	11 959	12 268	10 177	-17.0%
Total exports	5 690	7 670	5 562	6 240	7 827	6 727	-14.1%
Consumption and losses							
Consumption of the energy branch	11 587	12 938	13 178	15 316	18 752	17 443	-7.0%
<i>of which:</i>							
Consumption for pumped-storage	459	514	772	1 103	2 570	1 294	-49.6%
Network losses	14 985	13 993	18 330	19 624	20 041	20 208	0.8%
Final energy consumption	147 182	159 002	165 969	177 252	188 459	200 953	6.6%
<i>of which:</i>							
Industry	63 764	68 820	71 423	76 452	85 640	90 267	5.4%
<i>among which:</i>							
Iron&steel industry	10 803	11 729	12 170	13 265	14 732	15 921	8.1%
Non-ferrous metals	8 255	8 522	8 800	9 001	9 291	10 226	10.1%
Chemical industry	9 045	9 908	10 200	10 679	12 800	12 368	-3.4%
Non-met. mineral prod.	7 122	7 525	7 703	8 793	9 613	10 939	13.8%
Food, drink, tobacco	6 095	6 843	7 100	7 653	8 973	8 641	-3.7%
Pulp, paper and print	4 694	5 034	5 300	5 479	3 769	6 676	77.1%
Engineering & metal	6 705	7 830	8 300	8 634	9 668	10 167	5.2%
Other industries	6 423	6 467	6 700	7 416	11 295	9 209	-18.5%
Transport	3 471	3 604	3 750	3 566	4 163	4 558	9.5%
Services & households etc.	79 947	86 578	90 796	97 234	98 656	106 128	7.6%
<i>among which:</i>							
Households	37 515	40 105	41 700	45 443	43 619	49 685	13.9%


3.2 Electrical capacity, fuel inputs and heat


		SPAIN						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	46 921	48 586	50 010	52 413	53 529	55 508	3.7%
<i>by source:</i>								
Conventional thermal		22 732	24 191	25 243	25 644	26 243	26 915	2.6%
<i>of which:</i>								
Steam		19 752	20 422	20 589	20 603	21 098	21 770	3.2%
Gas turbine		981	1 068	1 419	1 419	1 535	1 535	0.0%
Combined cycle		1 311	1 466	1 530	1 530	1 181	1 181	0.0%
Internal combustion		688	1 235	1 705	2 092	2 429	2 429	0.0%
Nuclear		7 090	7 250	7 300	7 354	7 503	7 519	0.2%
Hydro		16 888	16 691	16 632	17 920	17 716	17 810	0.5%
<i>among which:</i>								
Pumped storage		5 095	5 095	5 095	5 095	2 640	2 518	-4.6%
Wind		211	454	835	1 495	2 067	3 264	57.9%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		44 416	45 258	45 654	47 738	48 801	50 411	3.3%
Autoproducers		2 505	3 335	4 363	4 684	4 740	5 109	7.8%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	17 378	21 463	20 877	26 298	26 520	24 982p	-5.8%
<i>among which:</i>								
Hard coal		11 418	13 747	12 910	15 896	16 798	14 436	-14.1%
Lignite and peat		1 698	1 476	1 745	1 510	1 451	1 503	3.6%
Petroleum products		2 718	2 717	3 280	4 981	4 442	5 074	14.2%
Natural gas		966	2 784	2 117	2 963	2 685	2 810	4.7%
Renewables		360	398	429	501	679	717	5.6%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
Heat production and consumption								
Total heat production	TJ	66	69	69	74	74p	-	
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	
Heat consumption		66	69	69	74	74p	-	
<i>of which: in industry</i>								
		66	69	69	74	74p	-	
<i>in households and services</i>								
		-	-	-	-	-	-	
<i>among which: in households</i>								
		-	-	-	-	-	-	

4.1 Crude oil and feedstocks


 in 1 000 t	SPAIN						
	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply							
Primary production	512	371	529	299	227	338	48.9%
Total imports	54 938	56 636	60 679	58 911	58 782	57 833	-1.6%
Total exports	-	-	-	-	-	-	-
Stock changes	34	-467	-392	529	-791	224	
Refinery intake	55 710	57 581	62 291	61 297	60 404	58 349	-3.4%
Imports of Crude Oil by origin							
<i>by region of origin:</i>							
OPEC	34 539	34 678	37 654	34 011	35 607	22 400	-37.1%
Near and Middle East	15 934	17 847	21 907	18 463	17 157	14 248	-17.0%
Africa	17 921	15 894	20 503	21 794	22 804	23 636	3.6%
<i>by country of origin:</i>							
Algeria	1 141	1 161	1 039	1 485	1 476	1 571	6.4%
Nigeria	10 845	9 723	7 865	8 679	9 165	8 676	-5.3%
Saudi Arabia	8 987	9 058	9 360	6 275	6 628	6 291	-5.1%
Kuwait	-	-	14	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-
Norway	1 948	711	267	249	249	420	68.7%
Refining capacity							
Capacity at the end of year	64 400	64 900	64 090	64 380	66 700		:
<i>among which:</i>							
Cracking and others	19 300	19 400	22 360	23 930	20 700		:
Reforming	8 300	8 400	8 520	8 520	7 800		:

4.2 Petroleum products


 eurostat	SPAIN						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Production and supply							
Total refinery output	53 785	57 056	61 657	60 841	59 830	57 806	-3.4%
<i>among which:</i>							
Motor spirit	9 262	9 235	9 930	9 437	9 616	9 272	-3.6%
Kerosene and jet fuel	4 071	4 074	3 919	4 272	4 118	4 002	-2.8%
Naphtha	2 303	2 694	2 940	3 102	3 358	3 076	-8.4%
Gas/diesel oil	17 280	18 532	19 969	20 368	20 066	20 177	0.6%
Residual fuel oil	12 546	13 623	15 058	14 126	13 080	11 784	-9.9%
Total imports	11 110	13 544	15 576	16 991	19 557	21 194	8.4%
Total exports	8 133	7 664	8 879	6 926	7 367	6 223	-15.5%
Bunkers	4 751	5 865	6 185	6 033	6 150	6 884	11.9%
Stock changes	930	-12	-775	-969	-150	712	
Gross inland consumption	-844	3	-263	3 063	5 890	8 799	49.4%
Imports and exports							
Imports by origin							
<i>among which:</i>							
Netherlands	54	245	344	657	473	493	4.2%
United Kingdom	815	512	774	1 379	972	996	2.5%
Norway	-	96	228	123	193	123	-36.3%
OPEC	3 311	3 495	4 616	2 277	5 667	4 042	-28.7%
Imports by product							
<i>among which:</i>							
Motor spirit	861	918	777	886	938	933	-0.5%
Kerosene and jet fuel	110	270	388	424	550	815	48.2%
Gas/diesel oil	3 271	3 604	4 829	6 749	7 244	8 055	11.2%
Residual fuel oil	1 055	1 645	2 289	2 235	2 756	3 297	19.6%
Exports by product							
<i>among which:</i>							
Motor spirit	1 305	1 249	1 925	1 612	2 374	2 291	-3.5%
Kerosene and jet fuel	584	359	102	250	180	134	-25.6%
Gas/diesel oil	1 151	781	957	729	848	572	-32.5%
Residual fuel oil	1 753	2 095	2 767	1 400	1 054	876	-16.9%
Consumption							
Inputs to electricity plants	2 820	2 826	3 419	5 193	4 631	5 266	13.7%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	6 331	7 575	8 748	8 532	9 092	9 372	3.1%
Final energy consumption	39 616	40 409	42 845	43 596	45 654	47 170	3.3%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	650	700	900	925	1 136	1 208	6.3%
Residual fuel oil	2 746	2 600	2 531	1 862	1 743	1 649	-5.4%

 eurostat	SPAIN						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Industry							
<i>among which by sector:</i>							
Iron&steel industry	280	520	537	425	538	540	0.4%
Non-ferrous metals	105	115	132	144	152	145	-4.6%
Chemical industry	1 181	1 230	1 090	772	767	770	0.4%
Non-met. mineral prod.	2 466	3 037	3 013	2 532	2 903	3 217	10.8%
Food, drink, tobacco	811	790	682	587	599	612	2.2%
Pulp, paper and print	258	275	302	313	301	285	-5.3%
Engineering & metal	270	392	387	394	451	438	-2.9%
Other industries	377	296	358	403	427	458	7.3%
Transport	26 766	27 003	29 401	30 830	31 684	33 022	4.2%
<i>among which:</i>							
Motor spirit	9 101	8 980	9 018	8 938	8 534	8 492	-0.5%
Jet fuel	3 289	3 543	3 858	4 087	4 368	4 407	0.9%
Diesel oil	13 900	14 100	16 215	17 500	18 485	19 834	7.3%
Services & households etc.	6 842	6 464	6 498	6 885	7 501	7 357	-1.9%
<i>among which:</i>							
Gas oil	4 240	4 290	4 016	4 305	5 047	5 087	0.8%
Residual fuel oil	376	131	417	491	465	419	-9.9%
Stocks at end of period							
Crude oil and feedstocks	4 112	4 586	4 978	4 449	5 240	1 000	-80.9%
Petroleum products	1 068	8 968	9 743	10 484	10 634	9 922	-6.7%


5. Natural gas

 eurostat	SPAIN							
	in TJ (GCV)		1996	1997	1998	1999	2000	2001
Primary production and supply								
Primary production		19 812	7 571	4 762	6 084	6 883	21 904	218.2%
Total imports		386 809	536 854	560 924	646 766	719 516	736 262	2.3%
Total exports		-	-	-	-	-	-	-
Stock changes		-4 585	-18 368	-25 634	-34 630	-18 407	4 758	
Gross inland consumption		402 036	526 057	540 052	618 220	707 992	762 924	7.8%
Imports								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		236 808	361 696	373 856	416 533	433 743	406 272	-6.3%
Norway		58 408	72 169	96 187	96 406	96 681	96 586	-0.1%
Consumption								
Inputs to electricity plants		44 948	129 519	98 499	137 847	124 891	130 702	4.7%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		2 488	1 426	1 200	837	-	-	-
Distribution losses		9 471	9 876	12 195	11 413	11 687	5 116	-56.2%
Non-energy use		23 725	24 574	22 906	15 000	22 070	21 915	-0.7%
Industry		251 262	282 654	313 623	342 767	425 685	465 396	9.3%
<i>among which:</i>								
Iron&steel industry		23 037	24 129	28 499	31 426	39 028	55 615	42.5%
Non-ferrous metals		5 321	5 330	7 675	6 076	7 546	12 818	69.9%
Chemical industry		47 953	54 495	57 986	67 987	84 434	73 457	-13.0%
Non-met. mineral prod.		68 496	76 060	84 252	106 251	131 954	152 103	15.3%
Food, drink, tobacco		23 874	27 613	30 605	34 841	43 269	53 248	23.1%
Pulp, paper and print		31 991	37 989	40 270	38 542	47 866	28 171	-41.1%
Engineering & metal		22 062	23 679	31 878	26 006	32 298	47 539	47.2%
Other industries		1 513	2 516	3 826	3 549	4 407	20 062	355.2%
Transport		-	213	272	483	-	-	-
Services & households etc.		69 406	77 347	90 984	109 873	123 659	139 796	13.0%
<i>among which:</i>								
Households		51 909	56 666	66 670	81 519	91 747	104 156	13.5%
Services		16 827	19 441	22 535	24 575	27 659	33 838	22.3%


6.1 Hard coal


 eurostat	SPAIN							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production	17 688	17 878	16 212	15 435	14 947	13 960	-6.6%	
Total imports	12 130	11 340	14 554	20 198	21 649	18 916	-12.6%	
Total exports	-	-	-	-	-	22		
Stock changes	-2 857	3 226	-643	-849	655	115	-82.4%	
Gross inland consumption	27 022	32 494	30 136	34 800	37 251	32 969	-11.5%	
Imports								
Imports by origin								
<i>among which:</i>								
USA	3 628	3 864	2 964	2 355	2 497	1 884	-24.5%	
Poland	51	244	221	542	313	293	-6.4%	
CIS	63	30	120	1 395	1 600	1 891	18.2%	
Australia	885	1 039	1 243	2 255	3 015	3 498	16.0%	
South Africa	4 806	3 148	5 532	8 666	9 180	7 147	-22.1%	
Colombia	721	337	419	740	1 112	395	-64.5%	
Consumption								
Inputs to electricity plants	22 611	27 470	24 980	29 979	32 427	27 745	-14.4%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	31	14	7	10	104	35	-66.3%	
Industry								
<i>among which:</i>								
Iron&steel industry	1	291	494	709	681	764	12.2%	
Non-ferrous metals	10	10	10	8	-	-	-	
Chemical industry	85	90	90	75	60	265	341.7%	
Non-met. mineral prod.	445	402	327	264	222	298	34.2%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	10	10	10	5	-	-	-	
Engineering & metal	10	10	10	6	-	-	-	
Other industries	-	-	-	-	250	100	-60.0%	
Services & households etc.	420	420	380	274	116	101	-12.9%	
Structural data								
Personnel employed underground (annual mean in 1000's)	21.3	18.0	17.8	16.9	16.7	15.8	-5.4%	
Number of active hard coal mines (end of year)	115	114	109	106	95	91	-4.2%	

6.2 Coal derivatives and peat

	SPAIN						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	2 413	2 646	2 631	2 331	2 470	2 648	7.2%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	9 604	8 463	9 750	8 832	8 524	8 718	2.3%
Brown coal briquettes	-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	18 102	21 908	22 255	17 300	19 864	22 529	13.4%
Blast-furnace gas	18 248	20 609	20 573	19 196	19 215	21 671	12.8%
Gasworks gas	1 763	1 328	1 962	1 385	3 983	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	2 069	1 923	1 532	1 409	1 249	1 250	0.1%
<i>among which:</i>							
Iron & steel industry	1 859	1 737	1 364	1 294	1 099	1 034	-5.9%
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	6 275	5 570	7 780	3 240	3 733	7 105	90.3%
Blast-furnace gas	9 211	11 038	9 300	6 515	6 521	8 727	33.8%
Gasworks gas	1 763	1 328	1 962	1 385	3 983	-	-
Inputs to electricity plants	7 064	11 617	13 947	16 151	17 027	15 909	-6.6%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	13 600	14 076	11 499	10 290	11 493	10 918	-5.0%
Consumption in industry	15 486	16 608	17 080	9 755	10 254	15 832	54.4%

7. Renewable energy sources

		SPAIN						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	7 059	6 737	6 943	6 130	7 085	8 326	17.5%
Hydro (excl. pumping)		3 393	2 989	2 924	1 966	2 534	3 527	39.2%
Wind		29	62	185	236	406	599	47.5%
Solar		26	23	26	29	32	36	12.4%
Geothermal		3	4	4	5	8	8	0.0%
Biomass		3 608	3 660	3 806	3 894	4 105	4 156	1.2%
	<i>among which:</i>							
Wood, wood-waste		3 320	3 388	3 538	3 606	3 630	3 678	1.3%
Municipal solid waste		211	194	187	199	279	279	0.0%
Biogas		77	79	82	90	131	134	2.4%
Gross inland consumption		7 059	6 737	6 943	6 130	7 085	8 326	17.5%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		360	398	429	501	679	717	5.6%
	<i>among which:</i>							
Wood, wood-waste		94	149	161	212	294	329	12.0%
Municipal waste		211	194	187	199	279	279	0.0%
Biogas		55	56	82	90	106	109	2.9%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	3 276	3 288	3 405	3 426	3 465	3 482	0.5%
	<i>by sector:</i>							
Industry		1 256	1 271	1 386	1 401	1 302	1 314	0.9%
Services & households etc.		2 020	2 017	2 019	2 025	2 098	2 103	0.2%
Transport		-	-	-	-	65	65	0.0%
	<i>by source:</i>							
Biomass		3 247	3 262	3 377	3 394	3 427	3 439	0.4%
	<i>among which:</i>							
Wood, wood-waste		3 226	3 239	3 377	3 394	3 337	3 349	0.4%
Municipal waste		-	-	-	-	-	-	-
Biogas		21	23	-	-	25	25	0.1%
Geothermal		3	4	4	5	8	8	0.0%
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		3	3	4	17	18	24	33.3%
Hydro with installed capacity < 1 MW		947	686	897	601	479	:	
Hydro with installed capacity > 1 & <10 MW		4 343	4 007	4 333	3 289	3 957	:	
Hydro with installed capacity > 10 MW		34 678	30 849	30 256	18 973	21 929	:	
Wood, Wood-waste		672	672	841	917	841	969	15.2%
Municipal waste		525	569	639	660	667	667	0.0%
Biogas		148	151	161	197	316	328	3.8%

		SPAIN						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		2	1	2	9	12	16	33.3%
Hydro with installed capacity < 1 MW		210	214	209	227	228	234	2.6%
Hydro with installed capacity > 1 & <10 MW		1 204	1 251	1 297	1 303	1 339	1 384	3.4%
Hydro with installed capacity > 10 MW		11 400	11 523	11 500	11 193	11 105	13 881	25.0%
Wood, Wood-waste		127	127	128	138	150	167	11.3%
Municipal waste		94	94	94	94	94	94	0.0%
Biogas		-	-	-	34	50	51	2.0%
Liquid biofuels								
Production	<i>1000 t</i>	-	-	-	-	80	80	0.0%
Solar Panels								
Solar panel surface	<i>1000 m²</i>	329	321	341	362	403	455	12.9%


1. Energy economy

Key figures and energy indicators

eurostat		FRANCE					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	125 632	123 910	120 716	122 845	130 410	131 732
Net energy imports		124 302	122 072	131 558	131 541	129 885	132 426
Net oil imports		89 884	88 666	93 321	89 767	90 452	95 647
Net gas imports		29 616	29 350	30 128	34 808	32 201	31 456
Gross inland energy consumption		249 168	243 209	250 776	250 811	254 478	262 319
Final energy consumption		148 621	145 654	150 829	150 760p	148 530	155 706
Industry		37 164	36 425	36 907	35 585p	34 802	37 195
Transport		46 097	47 140	49 645	49 732	51 599	51 782
Services and households etc.		65 361	62 089	64 276	65 443p	62 129	66 729
Gross electricity generation	GWh	513 051	504 226	510 806	523 981	540 654	549 181
Final electricity consumption		355 564	355 195	367 204	374 677	385 111	395 489
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	1 201 204	1 224 081	1 265 715	1 306 384	1 355 936	1 384 351
Population	1000 per.	58 026	58 208	58 398	58 623	58 893	59 191
Industry added value	Mio EUR	287 564	289 168	301 398	310 123	323 756	328 953
Total imports (current prices)	Mio EUR	255 099	272 619	304 250	323 020	369 114	369 514
among which:							
All energy commodities		14 927	19 199	14 920	17 784	32 629	31 488
Oil products		13 598	14 586	10 618	13 530	25 910	23 541
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	207.4	198.7	198.1	192.0	187.7	189.5
Final energy consumption / GDP(95)		123.7	119.0	119.2	115.4	109.5	112.5
Energy intensity of industry:							
Final consumption / gross value-added mp		129.2	126.0	122.5	114.7	107.5	113.1
Energy intensity of service sector:							
Final consumption / gross value-added mp		28.0	26.4	27.1	26.6	24.8	26.1
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	4 294	4 178	4 294	4 278	4 321	4 432
Final energy consumption / capita		2 561	2 502	2 583	2 572	2 522	2 631
Household consumption / capita		688	648	664	677	631	679
Electricity consumption / capita	kWh/cap.	6 425	6 362	6 612	6 537	6 770	6 784
Energy dependency							
Net energy imports / Gross consumption	in %	49.4	49.6	51.9	51.9	50.4	50.0
Net oil imports / Gross consumption		35.7	36.0	36.8	35.4	35.1	36.1
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	59.6	59.9	60.1	60.1	58.4	59.4
Efficiency of thermal power stations		42.2	38.7	37.6	38.2	37.0	39.2

2. Energy balance

Principal aggregates by product

 eurostat	FRANCE						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	125 632	123 910	120 716	122 845	130 410	131 732	1.0%
<i>among which:</i> Hard coal	4 384	3 465	2 915	2 717	1 898	1 182	-37.7%
Lignite and peat	333	430	307	234	123	135	9.5%
Crude oil	2 538	2 154	1 981	1 806	1 675	1 646	-1.7%
Natural Gas	2 407	2 127	1 837	1 670	1 354	1 359	0.3%
Nuclear heat	97 852	98 766	96 636	98 194	107 093	108 617	1.4%
Hydro-electricity	5 650	5 399	5 388	6 271	5 805	6 449	11.1%
Biomass	12 072	11 167	11 453	11 232	11 579	12 012	3.7%
Imports							
Total	150 097	149 419	159 167	157 734	159 790	159 579	-0.1%
<i>among which:</i> Hard coal	10 538	9 098	12 321	11 931	12 693	10 674	-15.9%
Crude oil and feedstocks	85 126	89 199	91 393	82 653	86 186	87 113	1.1%
Petroleum products	23 161	19 244	23 115	26 418	26 713	28 239	5.7%
Natural Gas	30 313	30 512	30 834	35 462	32 814	32 176	-1.9%
Electricity	311	364	395	427	318	384	21.0%
Exports							
Total	25 795	27 347	27 609	26 194	29 906	27 153	-9.2%
<i>among which:</i> Crude oil and feedstocks	1 000	1 250	1 412	1 364	1 811	-	-
Petroleum products	17 403	18 528	19 776	17 940	20 635	19 704	-4.5%
Natural gas	697	1 162	706	655	613	719	17.4%
Electricity	6 228	5 987	5 344	5 856	6 292	6 265	-0.4%
Gross inland consumption							
Total	249 168	243 209	250 776	250 811	254 478	262 319	3.1%
<i>among which:</i> Solid fuels	16 250	14 576	17 155	15 364	15 240	12 557	-17.6%
Crude oil and petrol. prod.	90 430	87 445	91 542	90 566	88 385	94 590	7.0%
Natural gas	32 687	31 339	33 413	34 481	32 190	33 793	5.0%
Nuclear Energy	97 852	98 766	96 636	98 194	107 093	108 617	1.4%
Renewables	17 866	16 706	16 980	17 635	17 545	18 642	6.3%
Transformation input							
Total	201 463	206 939	211 802	203 411	216 503	217 931	0.7%
<i>among which:</i> Crude oil and feedstocks	87 409	92 168	95 543	86 602	90 084	91 843	2.0%
Petroleum products	733	1 271	1 945	1 783	1 342	975	-27.4%
Hard coal	10 251	9 533	12 268	11 048	11 030	9 435	-14.5%
Lignite and peat	612	407	508	430	117	115	-1.9%
Renewables	1 800	1 721	1 675	1 662	1 874	1 945	3.8%
Transformation output							
Total	131 257	135 760	139 253	128 448	133 019	137 952	3.7%
<i>among which:</i> Electricity	37 972	37 464	38 148	38 379	40 257	40 407	0.4%
Heat	-	-	-	-	-	-	-

Final energy consumption

Total	148 621	145 654	150 829	150 760p	148 530	155 706	4.8%
<i>among which:</i> Solid fuels	6 939	7 039	6 746	5 780	5 775	5 044	-12.7%
Petroleum products	70 779	69 065	72 380	71 625	71 428	76 334	6.9%
Natural Gas	28 708	28 297	29 047	30 308	27 300	29 049	6.4%
Renewables	10 272	9 446	9 779	9 570	9 710	10 074	3.7%
Electricity	30 573	30 541	31 574	32 216	33 114	34 006	2.7%

Final energy consumption by sector
Industry

Total	37 164	36 425	36 907	35 585p	34 802	37 195	6.9%
<i>among which:</i> Solid fuels	5 669	5 916	5 892	5 034	5 154	4 499	-12.7%
Petroleum Products	7 283	5 650	5 123	4 437	4 456	7 521	68.8%
Natural Gas	10 812	11 158	11 756	11 975	10 838	10 818	-0.2%
Renewables	1 518	1 628	1 650	1 638	1 679	1 743	3.8%
Electricity	10 709	10 980	11 349	11 402	11 620	11 579	-0.4%


Transport

Total	46 097	47 140	49 645	49 732	51 599	51 782	0.4%
<i>among which:</i> Motor spirit	15 755	15 373	15 295	15 221	14 631	14 110	-3.6%
Diesel oil	24 122	25 288	26 877	26 581	28 679	29 480	2.8%
Jet fuel	5 000	5 130	6 047	6 448	6 683	6 613	-1.0%
Electricity	918	934	955	968	1 004	1 005	0.0%


Services&households

Total	65 361	62 089	64 276	65 443p	62 129	66 729	7.4%
<i>among which:</i> Solid fuels	1 269	1 124	854	745	621	545	-12.2%
Gas oil	15 155	14 306	15 194	15 079	13 216	15 297	15.7%
Natural Gas	17 896	17 139	17 291	18 333	16 461	18 210	10.6%
Renewables	8 523	7 523	7 870	7 652	7 703	8 008	4.0%
Electricity	18 947	18 627	19 270	19 846	20 489	21 422	4.6%
Heat	-	-	-	-	-	-	-


3.1 Electricity balance

 eurostat	FRANCE						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	513 051	504 226	510 806	523 981	540 654	549 181	1.6%
<i>among which:</i>							
Hydro	70 777	68 060	66 620	77 601	72 389	79 121	9.3%
Wind	15	24	48	36	77	124	61.0%
Geothermal	-	-	-	-	-	-	-
Nuclear	397 340	395 483	387 990	394 244	415 162	421 072	1.4%
Conventional thermal	44 919	40 659	56 148	52 100	53 026	48 864	-7.8%
<i>of which:</i>							
Hard coal	25 150	20 618	31 770	27 086p	27 095p	0p	
Lignite and peat	2 050	1 560	1 762	1 490	1 517p	0p	
Petroleum products	8 900	7 727	11 651	10 150	10 331p	0p	
Natural gas	4 190	4 900	4 975	7 530	7 664p	0p	
Derived gases	2 668	3 685	3 780	3 074	3 129p	0p	
Biomass	1 961	2 169	2 210	2 770	3 290	3 608	9.7%
Industrial/other wastes	-	-	-	0p	0p	45256p	
Total net generation	490 493	481 379	487 452	500 306	516 673	525 556	1.7%
Imports and exports							
Total imports	3 617	4 238	4 590	4 965	3 695	4 471	21.0%
Total exports	72 428	69 634	62 152	68 108	73 174	72 861	-0.4%
Consumption and losses							
Consumption of the energy branch	51 954	49 234	51 075	51 661	51 264	51 168	-0.2%
<i>of which:</i>							
Consumption for pumped-storage	766	29	1 596	1 626	1 726	1 698	-1.6%
Network losses	31 011	28 692	30 530	29 828	29 922	30 010	0.3%
Final energy consumption	355 564	355 195	367 204	374 677	385 111	395 489	2.7%
<i>of which:</i>							
Industry	124 540	127 699	131 987	132 610	135 145	134 665	-0.4%
<i>among which:</i>							
Iron&steel industry	14 617	15 739	15 803	15 284	17 152	16 714	-2.6%
Non-ferrous metals	8 435	8 620	9 004	9 421	9 701	10 080	3.9%
Chemical industry	24 478	25 452	25 835	25 085	25 735	25 106	-2.4%
Non-met. mineral prod.	8 781	8 780	8 900	9 667	8 124	8 374	3.1%
Food, drink, tobacco	16 253	16 865	16 740	17 186	17 700	18 444	4.2%
Pulp, paper and print	11 109	11 824	11 802	11 818	13 693	13 337	-2.6%
Engineering & metal	22 993	23 594	24 647	25 149	23 487	22 995	-2.1%
Other industries	13 085	11 978	14 489	14 572	14 037	14 400	2.6%
Transport	10 672	10 864	11 107	11 254	11 681	11 686	0.0%
Services & households etc.	220 352	216 632	224 110	230 813	238 285	249 138	4.6%
<i>among which:</i>							
Households	120 509	119 084	123 147	126 933	128 720	133 887	4.0%


3.2 Electrical capacity, fuel inputs and heat


		FRANCE						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	109 696	113 905	112 347	114 583	115 632	115 513	-0.1%
<i>by source:</i>								
Conventional thermal		24 406	25 931	25 558	26 213	26 799	26 964	0.6%
<i>of which:</i>								
Steam		21 820	23 262	22 889	23 560	:	:	
Gas turbine		1 944	2 026	2 026	2 100	:	:	
Combined cycle		-	-	-	-	-	-	-
Internal combustion		642	643	643	553	:	:	
Nuclear		59 970	62 875	61 675	63 183	63 183	63 183	0.0%
Hydro		25 314	25 089	25 095	25 170	25 594	25 285	-1.2%
<i>among which:</i>								
Pumped storage		4 292	4 292	4 303	4 302	4 302	4 302	0.0%
Wind		6	10	19	17	56	81	44.6%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		101 049	104 098	102 413	103 701	105 848	105 564	-0.3%
Autoproducers		8 650	10 047	10 174	10 882	9 784	10 189	4.1%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	9 012	8 928	12 735	11 741	12 316	10 719	-13.0%
<i>among which:</i>								
Hard coal		5 147	4 551	7 438	6 277	6 114	4 736	-22.5%
Lignite and peat		612	407	508	430	117	115	-1.9%
Petroleum products		591	1 167	1 844	1 669	1 272	954	-25.0%
Natural gas		624	703	725	1 071	2 219	2 236	0.8%
Renewables		1 379	1 302	1 326	1 305	1 532	1 584	3.4%
Heating plants		422	419	349	357	342	361	5.4%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		422	419	349	357	342	361	5.4%
Heat production and consumption								
Total heat production	TJ	-	-	-	-	-	-	-
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		-	-	-	-	-	-	-
<i>of which: in industry</i>								
		-	-	-	-	-	-	-
<i>in households and services</i>								
		-	-	-	-	-	-	-
<i>among which: in households</i>								
		-	-	-	-	-	-	-

4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	FRANCE						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		2 513	2 132	1 960	1 795	1 666	1 632	-2.0%
Total imports		84 277	88 284	90 443	82 145	85 698	86 362	0.8%
Total exports		985	1 231	1 391	1 344	1 784	-	
Stock changes		-238	-271	-515	-307	-427	-313	-26.7%
Refinery intake		86 528	91 215	94 537	86 042	89 536	91 024	1.7%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		41 475	42 074	49 356	42 124	39 827	34 221	-14.1%
Near and Middle East		27 070	29 493	39 327	33 589	31 608	24 836	-21.4%
Africa		13 672	11 766	15 756	11 949	13 798	18 658	35.2%
<i>by country of origin:</i>								
Algeria		3 018	3 883	3 446	2 952	3 440	4 266	24.0%
Nigeria		8 381	4 557	6 249	4 867	4 844	5 260	8.6%
Saudi Arabia		18 300	19 276	18 108	15 069	15 226	11 345	-25.5%
Kuwait		804	869	843	1 744	1 374	1 110	-19.2%
United Arab Emirates		5	-	557	-	6	255	
Norway		14 961	18 027	17 778	14 843	21 141	19 371	-8.4%
Refining capacity								
Capacity at the end of year	1 000 t/year	87 315	93 223	95 520	96 240	96 450	:	
<i>among which:</i>								
Cracking and others		28 200	28 500	31 710	32 270	33 280	:	
Reforming		11 100	11 100	11 360	11 510	12 090	:	

4.2 Petroleum products


 eurostat	FRANCE						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Production and supply							
Total refinery output	85 749	90 968	93 673	83 050	85 863	90 683	5.6%
<i>among which:</i>							
Motor spirit	18 007	18 805	19 618	16 171	15 487	18 273	18.0%
Kerosene and jet fuel	6 451	6 676	6 755	6 510	6 112	6 162	0.8%
Naphtha	4 282	5 744	5 398	4 642	5 776	5 695	-1.4%
Gas/diesel oil	33 337	35 112	35 988	31 698	33 428	35 132	5.1%
Residual fuel oil	10 516	11 052	12 150	10 799	11 068	11 291	2.0%
Total imports	23 027	19 121	23 061	26 917	26 715	28 281	5.9%
Total exports	17 200	18 324	19 662	17 994	20 676	19 686	-4.8%
Bunkers	2 785	3 028	2 955	2 985	3 085	2 767	-10.3%
Stock changes	589	-476	-510	1 487	-1 145	90	
Gross inland consumption	3 931	-2 390	70	8 070	2 587	6 149	137.7%
Imports and exports							
Imports by origin							
<i>among which:</i>							
Netherlands	2 810	2 047	2 847	2 660	2 854	1 993	-30.2%
United Kingdom	3 197	3 217	3 279	3 869	3 399	2 271	-33.2%
Norway	414	537	618	553	594	523	-12.0%
OPEC	3 341	3 134	2 773	4 589	3 832	4 314	12.6%
Imports by product							
<i>among which:</i>							
Motor spirit	2 036	1 775	2 431	2 029	2 489	1 715	-31.1%
Kerosene and jet fuel	793	770	1 054	1 704	2 228	2 551	14.5%
Gas/diesel oil	11 866	9 622	11 297	11 668	10 875	14 087	29.5%
Residual fuel oil	546	384	1 600	1 323	4 123	2 845	-31.0%
Exports by product							
<i>among which:</i>							
Motor spirit	4 470	4 789	5 524	5 102	5 314	4 751	-10.6%
Kerosene and jet fuel	1 874	1 866	1 885	1 335	1 207	1 231	2.0%
Gas/diesel oil	3 635	3 191	2 710	2 230	2 430	1 993	-18.0%
Residual fuel oil	2 368	3 027	4 663	4 332	5 382	5 699	5.9%
Consumption							
Inputs to electricity plants	619	1 220	1 929	1 746	1 330	1 000	-24.8%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	14 345	16 378	14 468	14 618	13 415	12 707	-5.3%
Final energy consumption	69 906	67 922	71 070	70 390	70 104	75 431	7.6%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	2 031	1 632	1 480	1 092	1 236	1 318	6.6%
Residual fuel oil	2 855	2 701	2 307	1 803	1 741	1 885	8.3%

 eurostat	FRANCE							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Industry								
<i>among which by sector:</i>								
Iron&steel industry	140	155	168	111	146p	193	32.2%	
Non-ferrous metals	388	623	272	271	322p	76	-76.4%	
Chemical industry	1 741	653	689	391	422p	3 275	676.1%	
Non-met. mineral prod.	1 183	755	1 212	1 673	1 412p	1 738	23.1%	
Food, drink, tobacco	958	770	875	595	638p	756	18.5%	
Pulp, paper and print	348	324	261	266	259p	210	-18.9%	
Engineering & metal	321	238	312	298	321p	279	-13.1%	
Other industries	2 564	2 238	1 412	984	976p	1 444	48.0%	
Transport	43 803	44 765	47 243	47 286	49 067	49 254	0.4%	
<i>among which:</i>								
Motor spirit	14 992	14 628	14 554	14 483	13 922	13 426	-3.6%	
Jet fuel	4 868	4 995	5 888	6 278	6 507	6 439	-1.0%	
Diesel oil	23 876	25 030	26 603	26 310	28 386	29 179	2.8%	
Services & households etc.	18 210	17 173	18 484	18 369	16 394	18 073	10.2%	
<i>among which:</i>								
Gas oil	15 000	14 160	15 039	14 925	13 081	15 141	15.7%	
Residual fuel oil	915	773	1 047	1 082	979	925	-5.5%	
Stocks at end of period								
Crude oil and feedstocks	7 172	7 443	7 958	8 265	8 692	9 032	3.9%	
Petroleum products	13 851	7 443	14 837	13 350	14 495	14 015	-3.3%	


5. Natural gas

 eurostat	FRANCE							
	in TJ (GCV)		1996	1997	1998	1999	2000	2001
Primary production and supply								
Primary production		111 953	98 949	85 475	77 692	62 999	63 200	0.3%
Total imports		1 410 181	1 419 433	1 434 395	1 649 710	1 526 486	1 496 818	-1.9%
Total exports		32 443	54 072	32 836	30 456	28 512	33 463	17.4%
Stock changes		30 895	-6 433	67 345	-92 880	-63 504	45 507	
Gross inland consumption		1 520 586	1 457 877	1 554 379	1 604 066	1 497 469	1 572 062	5.0%
Imports								
Imports by origin								
<i>among which:</i>								
CIS		458 287	405 029	400 479	482 256	432 819	372 921	-13.8%
Algeria		304 963	384 012	400 723	414 641	365 939	362 051	-1.1%
Norway		426 974	442 224	433 991	536 137	454 455	444 774	-2.1%
Consumption								
Inputs to electricity plants		29 010	32 710	33 714	49 805	103 251	104 038	0.8%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		18 979	14 890	14 486	17 325	12 502	19 397	55.2%
Distribution losses		2 460	2 430	2 490	2 620	14 506p	8 903p	-38.6%
Non-energy use		103 306	106 934	106 776	103 176	97 200	88 365	-9.1%
Industry		502 962	519 066	546 884	557 054	504 190	503 237	-0.2%
<i>among which:</i>								
Iron&steel industry		34 340	37 854	44 244	39 625	24 630	24 481	-0.6%
Non-ferrous metals		16 438	15 908	23 213	16 513	15 067	15 042	-0.2%
Chemical industry		80 283	80 482	85 424	95 573	99 646	99 479	-0.2%
Non-met. mineral prod.		73 234	74 956	71 310	78 185	70 737	70 618	-0.2%
Food, drink, tobacco		91 188	97 502	102 971	106 499	103 062	102 889	-0.2%
Pulp, paper and print		55 811	60 199	63 335	66 420	59 497	59 397	-0.2%
Engineering & metal		72 634	69 091	71 186	74 146	72 565	72 443	-0.2%
Other industries		52 513	57 035	58 874	54 454	38 841	38 776	-0.2%
Transport		18	14	14	14	78	972	
Services & households etc.		832 535	797 298	804 356	852 854	765 743	847 151	10.6%
<i>among which:</i>								
Households		422 798	411 422	406 970	441 684	380 792p	438 730p	15.2%
Services		400 093	376 070	385 657	399 438	372 563	394 150	5.8%


6.1 Hard coal


 eurostat	FRANCE							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production	7 312	5 779	4 862	4 532	3 166	1 971	-37.7%	
Total imports	15 758	13 604	18 424	17 841	18 980	15 960	-15.9%	
Total exports	290	219	65	78	89	86	-3.4%	
Stock changes	535	1 004	878	-466	-894	62		
Gross inland consumption	23 758	20 675	24 612	22 427	21 801	18 282	-16.1%	
Imports								
Imports by origin								
<i>among which:</i>								
USA	-	3 646	3 333	3 041	3 356	2 688	-19.9%	
Poland	1 139	744	1 304	1 456	1 617	877	-45.8%	
CIS	20	68	102	100	353	263	-25.5%	
Australia	2 541	3 053	2 457	2 303	3 841	3 891	1.3%	
South Africa	2 550	2 198	2 189	2 053	4 501	3 361	-25.3%	
Colombia	2 528	151	1 396	1 289	1 914	1 393	-27.2%	
Consumption								
Inputs to electricity plants	9 414	8 324	12 359	10 430	10 159	7 869	-22.5%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	307	188	195	379	8	123		
Industry								
<i>among which:</i>								
Iron&steel industry	3 375	3 377	2 252	2 394	2 462	2 251	-8.6%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	364	365	310p	-	-	-	-	
Non-met. mineral prod.	327	329	290p	202	201p	200	-0.5%	
Food, drink, tobacco	-	-	-	597	557p	477	-14.4%	
Pulp, paper and print	313	315	280p	183	163p	143	-12.3%	
Engineering & metal	-	-	-	27	18p	9	-50.0%	
Other industries	255	255	250p	-	-	-	-	
Services & households etc.	1 280	1 139	849	860	698	606	-13.2%	
Structural data								
Personnel employed underground (annual mean in 1000's)	5.6	5.3	5.1	5.0	5.0	4.5	-10.0%	
Number of active hard coal mines (end of year)	4	4	4	4	4	4	0.0%	

6.2 Coal derivatives and peat

	FRANCE						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	5 580	5 439	5 500	5 418	5 234	5 091	-2.7%
Patent Fuel	273	231	194	163	122	83	-32.0%
Lignite and peat	798	1 030	737	560	296	324	9.5%
Brown coal briquettes	-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	47 527	43 794	43 690	43 859	41 780	39 505	-5.4%
Blast-furnace gas	63 756	65 790	67 356	68 346	70 428	70 000	-0.6%
Gasworks gas	-	-	-	-	-	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	3 522	3 913	3 990	3 519	3 491	2 784	-20.3%
<i>among which:</i>							
Iron & steel industry	2 770	3 167	3 300	2 848	2 856	2 175	-23.8%
Services & households	96	81	71	56	50	44	-12.0%
Patent Fuel	412	359	278	233	198	169	-14.6%
<i>among which:</i>							
Services & households	412	359	278	233	198	169	-14.6%
Lignite and peat	254	172	135	60	89	109	22.5%
<i>among which:</i>							
Industry	221	137	104	35	53	59	11.3%
Services & households	33	35	31	25	36	50	38.9%
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	23 339	22 972	23 538	21 416	18 973	18 000	-5.1%
Blast-furnace gas	26 762	23 800	25 300	25 621	27 058	27 135	0.3%
Gasworks gas	3 099	3 059	2 743	2 720p	-	-	-
Inputs to electricity plants	27 961	33 930	38 081	42 599	45 868	47 236	3.0%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	21 338	21 704	21 402	21 103	18 382	18 870	2.7%
Consumption in industry	51 598	48 233	50 087	48 277p	46 031	45 135	-1.9%

7. Renewable energy sources

		FRANCE						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	17 866	16 706	16 980	17 635	17 540	18 636	6.2%
Hydro (excl. pumping)		5 650	5 399	5 388	6 271	5 805	6 449	11.1%
Wind		1	2	4	3	7	11	61.0%
Solar		15	16	17	18	25	26	1.1%
Geothermal		127	122	117	112	124	139	12.1%
Biomass		12 072	11 167	11 453	11 232	11 579	12 012	3.7%
	<i>among which:</i>							
Wood, wood-waste		10 094	9 214	9 484	9 234	9 231	9 593	3.9%
Municipal solid waste		1 610	1 514	1 560	1 560	1 854	1 908	2.9%
Biogas		137	143	150	158	171	195	14.3%
Gross inland consumption		17 866	16 706	16 980	17 635	17 545	18 642	6.3%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		1 800	1 721	1 675	1 662	1 874	1 945	3.8%
	<i>among which:</i>							
Wood, wood-waste		175	190	192	171	213	217	1.9%
Municipal waste		1 610	1 514	1 466	1 466	1 559	1 596	2.3%
Biogas		16	16	17	24	102	132	30.0%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	10 415	9 584	9 913	9 699	9 859	10 238	3.8%
	<i>by sector:</i>							
Industry		1 518	1 628	1 650	1 638	1 679	1 743	3.8%
Services & households etc.		8 665	7 661	8 004	7 782	7 852	8 172	4.1%
Transport		231	295	259	279	328	322	-1.7%
	<i>by source:</i>							
Biomass		10 272	9 446	9 779	9 570	9 710	10 074	3.7%
	<i>among which:</i>							
Wood, wood-waste		9 920	9 024	9 292	9 063	9 018	9 376	4.0%
Municipal waste		-	-	94	94	294	312	6.0%
Biogas		121	127	133	133	69	63	-8.7%
Geothermal		127	122	117	112	124	139	12.1%
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	1	
Hydro with installed capacity < 1 MW		1 688	1 476	1 566	1 601	1 656	0p	
Hydro with installed capacity > 1 & <10 MW		6 059	5 278	5 674	5 983	5 961	0p	
Hydro with installed capacity > 10 MW		59 042	57 052	56 288	64 676	59 157	73281p	
Wood, Wood-waste		1 639	1 807	1 745	1 485	1 422	1 502	5.6%
Municipal waste		932	1 099	1 140	1 140	1 522	1 505	-1.1%
Biogas		137	143	145	145	346	601	73.7%

		FRANCE						01/00
		1996	1997	1998	1999	2000	2001	
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	8	11	12	9.1%
Hydro with installed capacity < 1 MW		427	427	420	406	407	:	
Hydro with installed capacity > 1 & <10 MW		1 575	1 577	1 585	1 610	1 549	:	
Hydro with installed capacity > 10 MW		19 002	19 018	19 248	18 614	19 098	:	
Wood, Wood-waste		340	340	340	340	340p	:	
Municipal waste		268	272	272	272	272	:	
Biogas		-	-	-	-	-	-	-
Liquid biofuels								
Production	<i>1000 t</i>	285	363	319	344	398	389	-2.3%
Solar Panels								
Solar panel surface	<i>1000 m²</i>	409	438	460	475	543	441p	-18.8%

1. Energy economy

Key figures and energy indicators

eurostat		IRELAND					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	3 614	2 843	2 479	2 611	2 111	1 730
Net energy imports		8 338	9 487	10 624	11 672	12 332	13 106
Net oil imports		6 087	6 668	7 400	8 264	8 147	8 356
Net gas imports		483	865	1 396	1 894	2 478	2 925
Gross inland energy consumption		11 687	12 247	13 041	13 868	13 944	14 394
Final energy consumption		8 261	8 726	9 306	9 856	10 383	10 675
Industry		1 825	1 929	1 994	2 100	2 183	2 040
Transport		2 697	2 922	3 295	3 677	3 895	4 273
Services and households etc.		3 738	3 875	4 018	4 079	4 305	4 362
Gross electricity generation	GWh	19 181	19 961	21 155	22 051	23 978	24 956
Final electricity consumption		15 847	16 690	17 668	18 802	20 201	20 929
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	54 941	60 943	66 329	73 721	81 059	85 668
Population	1000 per.	3 626	3 661	3 715	3 756	3 801	3 854
Industry added value	Mio EUR	:	:	:	:	:	:
Total imports (current prices)	Mio EUR	37 155	43 380	54 555	61 033	71 187	76 675
among which:							
All energy commodities		1 021	1 208	997	1 280	2 271	2 096
Oil products		842	944	725	976	1 861	1 560
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	212.7	201.0	196.6	188.1	172.0	168.0
Final energy consumption / GDP(95)		150.4	143.2	140.3	133.7	128.1	124.6
Energy intensity of industry:							
Final consumption / gross value-added mp		:	:	:	:	:	:
Energy intensity of service sector:							
Final consumption / gross value-added mp		:	:	:	:	:	:
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	3 223	3 345	3 510	3 692	3 669	3 735
Final energy consumption / capita		2 278	2 384	2 505	2 624	2 732	2 770
Household consumption / capita		626	609	647	640	652	661
Electricity consumption / capita	kWh/cap.	4 980	5 178	5 350	5 595	5 967	6 085
Energy dependency							
Net energy imports / Gross consumption	in %	70.4	76.5	80.5	83.1	87.5	90.0
Net oil imports / Gross consumption		51.4	53.8	56.1	58.9	57.8	57.4
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	70.7	71.3	71.4	71.1	74.5	74.2
Efficiency of thermal power stations		38.0	38.1	37.8	37.4	40.7	39.3

2. Energy balance

Principal aggregates by product

eurostat	in 1 000 toe	IRELAND						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total		3 614	2 843	2 479	2 611	2 111	1 730	-18.1%
among which:	Hard coal	-	-	-	-	-	-	-
	Lignite and peat	1 260	739	813	1 251	894	810	-9.4%
	Crude oil	-	-	-	-	-	-	-
	Natural Gas	2 168	1 906	1 407	1 103	958	659	-31.3%
	Nuclear heat	-	-	-	-	-	-	-
	Hydro-electricity	62	58	79	73	73	51	-29.6%
	Biomass	123	135	166	167	164	180	10.0%
Imports								
Total		9 197	10 821	11 886	12 790	13 332	14 414	8.1%
among which:	Hard coal	1 773	1 942	1 809	1 508	1 709	1 836	7.4%
	Crude oil and feedstocks	2 178	2 917	3 155	2 859	3 068	3 394	10.6%
	Petroleum products	4 737	5 068	5 488	6 501	6 062	6 235	2.9%
	Natural Gas	483	865	1 396	1 894	2 478	2 925	18.1%
	Electricity	5	6	13	25	15	3	-77.5%
Exports								
Total		858	1 334	1 263	1 118	1 000	1 308	30.9%
among which:	Crude oil and feedstocks	-	-	-	-	-	-	-
	Petroleum products	828	1 317	1 243	1 096	984	1 274	29.5%
	Natural gas	-	-	-	-	-	-	-
	Electricity	16	7	6	4	6	25	305.6%
Gross inland consumption								
Total		11 687	12 247	13 041	13 868	13 944	14 394	3.2%
among which:	Solid fuels	3 005	2 867	2 847	2 501	2 566	2 613	1.8%
	Crude oil and petrol. prod.	5 856	6 412	7 125	8 092	7 676	7 958	3.7%
	Natural gas	2 651	2 772	2 803	2 997	3 436	3 584	4.3%
	Nuclear Energy	-	-	-	-	-	-	-
	Renewables	186	198	259	257	258	261	1.0%
Transformation input								
Total		6 389	7 325	7 815	7 733	8 207	8 730	6.4%
among which:	Crude oil and feedstocks	2 138	2 929	3 184	2 806	3 314	3 419	3.2%
	Petroleum products	621	793	1 088	1 357	1 009	1 193	18.2%
	Hard coal	1 497	1 450	1 473	1 285	1 441	1 528	6.1%
	Lignite and peat	791	743	692	743	595	714	19.9%
	Renewables	10	22	30	32	24	24	1.7%
Transformation output								
Total		3 882	4 690	5 019	4 808	5 390	5 575	3.4%
among which:	Electricity	1 564	1 631	1 702	1 786	1 942	2 038	5.0%
	Heat	-	-	-	-	-	-	-

Final energy consumption

Total	8 261	8 726	9 306	9 856	10 383	10 675	2.8%
<i>among which:</i> Solid fuels	929	865	856	565	557	503	-9.6%
Petroleum products	4 987	5 442	5 832	6 503	6 748	6 981	3.5%
Natural Gas	870	871	964	1 036	1 201	1 234	2.8%
Renewables	113	113	135	135	140	156	11.4%
Electricity	1 363	1 435	1 519	1 617	1 737	1 800	3.6%

Final energy consumption by sector
Industry

Total	1 825	1 929	1 994	2 100	2 183	2 040	-6.6%
<i>among which:</i> Solid fuels	120	89	77	64	51	48	-5.7%
Petroleum Products	734	824	819	918	902	776	-14.0%
Natural Gas	372	379	400	404	470	440	-6.3%
Renewables	68	68	87	87	96	109	13.5%
Electricity	532	569	609	625	664	667	0.4%


Transport

Total	2 697	2 922	3 295	3 677	3 895	4 273	9.7%
<i>among which:</i> Motor spirit	1 156	1 236	1 374	1 486	1 542	1 630	5.7%
Diesel oil	1 098	1 222	1 444	1 631	1 750	1 880	7.4%
Jet fuel	415	433	448	529	574	736	28.3%
Electricity	2	2	2	2	2	2	0.0%


Services&households

Total	3 738	3 875	4 018	4 079	4 305	4 362	1.3%
<i>among which:</i> Solid fuels	809	776	778	501	506	455	-10.0%
Gas oil	972	1 085	995	1 051	1 094	1 062	-3.0%
Natural Gas	497	492	564	631	730	794	8.7%
Renewables	45	46	48	48	44	47	6.8%
Electricity	829	864	908	989	1 070	1 130	5.6%
Heat	-	-	-	-	-	-	-


3.1 Electricity balance

 eurostat	IRELAND						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	19 181	19 961	21 155	22 051	23 978	24 956	4.1%
<i>among which:</i>							
Hydro	982	942	1 189	1 090	1 150	920	-20.0%
Wind	14	50	169	187	244	334	36.9%
Geothermal	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-
Conventional thermal	18 185	18 969	19 797	20 774	22 584	23 702	5.0%
<i>of which:</i>							
Hard coal	6 988	6 781	6 734	5 833	6 817	7 065	3.6%
Lignite and peat	2 187	2 059	1 697	1 682	1 770	2 193	23.9%
Petroleum products	2 687	3 466	4 850	6 170	4 639	5 204	12.2%
Natural gas	6 295	6 574	6 430	6 956	9 262	9 143	-1.3%
Derived gases	-	-	-	-	-	-	-
Biomass	27	27	85	91	96	97	1.0%
Industrial wastes	1	62	1	42	-	-	-
Total net generation	18 085	18 830	20 003	20 889	22 775	23 679	4.0%
Imports and exports							
Total imports	53	64	152	290	169	38	-77.5%
Total exports	182	76	73	49	71	288	305.6%
Consumption and losses							
Consumption of the energy branch	1 302	1 331	1 372	1 399	1 550	1 546	-0.3%
<i>of which:</i>							
Consumption for pumped-storage	113	110	120	123	145	157	8.3%
Network losses	1 642	1 661	1 921	1 869	2 020	1 907	-5.6%
Final energy consumption	15 847	16 690	17 668	18 802	20 201	20 929	3.6%
<i>of which:</i>							
Industry	6 182	6 613	7 087	7 271	7 727	7 760	0.4%
<i>among which:</i>							
Iron&steel industry	252	282	302	310	329	150	-54.4%
Non-ferrous metals	403	308	330	339	364	374	2.7%
Chemical industry	831	882	945	970	1 022	1 051	2.8%
Non-met. mineral prod.	533	543	582	597	639	657	2.8%
Food, drink, tobacco	1 520	1 601	1 716	1 761	1 896	1 950	2.8%
Pulp, paper and print	167	147	158	162	172	177	2.9%
Engineering & metal	854	869	931	955	1 023	1 052	2.8%
Other industries	1 020	1 367	1 465	1 502	1 562	1 608	2.9%
Transport	19	23	24	25	26	26	0.0%
Services & households etc.	9 646	10 054	10 557	11 506	12 448	13 143	5.6%
<i>among which:</i>							
Households	5 742	5 321	5 520	6 544	6 945	7 333	5.6%

3.2 Electrical capacity, fuel inputs and heat


		IRELAND						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	4 405	4 291	4 457	4 346	4 705	4 717	0.3%
<i>by source:</i>								
Conventional thermal		3 872	3 720	3 872	3 754	4 064	4 064	0.0%
<i>of which:</i>								
Steam		2 999	2 802	2 802	2 728	2 858	2 858	0.0%
Gas turbine		510	529	679	713	423	423	0.0%
Combined cycle		270	275	275	275	735	735	0.0%
Internal combustion		118	102	116	38	48	48	0.0%
Nuclear		-	-	-	-	-	-	-
Hydro		527	525	525	525	525	528	0.6%
<i>among which:</i>								
Pumped storage		290	292	292	292	292	292	0.0%
Wind		6	46	60	67	116	125	7.8%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		4 297	4 161	4 325	4 250	4 614	4 589	-0.5%
Autoproducers		118	130	132	96	128	128	0.0%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	4 116	4 277	4 505	4 770	4 767	5 180	8.7%
<i>among which:</i>								
Hard coal		1 497	1 450	1 473	1 285	1 441	1 528	6.1%
Lignite and peat		656	624	565	586	469	584	24.6%
Petroleum products		621	793	1 088	1 357	1 009	1 193	18.2%
Natural gas		1 331	1 388	1 348	1 509	1 825	1 851	1.5%
Renewables		10	22	30	32	24	24	1.7%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
Heat production and consumption								
Total heat production	TJ	-	-	-	-	-	-	-
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		-	-	-	-	-	-	-
<i>of which: in industry</i>								
		-	-	-	-	-	-	-
<i>in households and services</i>								
		-	-	-	-	-	-	-
<i>among which: in households</i>								
		-	-	-	-	-	-	-

4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	IRELAND						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		-	-	-	-	-	-	-
Total imports		2 167	2 909	3 148	2 848	3 055	3 371	10.3%
Total exports		-	-	-	-	-	-	-
Stock changes		-17	11	-114	-27	-19	7	
Refinery intake		2 127	2 921	3 177	2 795	3 300	3 396	2.9%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		-	-	-	-	-	-	-
Near and Middle East		-	-	-	-	-	-	-
Africa		-	-	-	-	-	-	-
<i>by country of origin:</i>								
Algeria		-	-	-	-	-	-	-
Nigeria		-	-	-	-	-	-	-
Saudi Arabia		-	-	-	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		1 827	2 886	3 047	2 707	3 013	2 862	-5.0%
Refining capacity								
Capacity at the end of year	1 000 t/year	3 250	3 088	3 340	3 700	3 530	:	
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		500	500	530	530	460	:	

4.2 Petroleum products


eurostat	IRELAND							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Production and supply								
Total refinery output		2 151	2 908	3 163	2 831	3 282	3 358	2.3%
<i>among which:</i>								
Motor spirit		380	452	468	435	534	662	24.0%
Kerosene and jet fuel		148	224	211	206	236	241	2.1%
Naphtha		58	94	121	114	104	12	-88.5%
Gas/diesel oil		709	1 000	1 122	982	1 133	1 173	3.5%
Residual fuel oil		773	1 022	1 099	988	1 158	1 132	-2.2%
Total imports		4 748	5 121	5 541	6 557	6 092	6 202	1.8%
Total exports		858	1 356	1 288	1 133	1 015	1 313	29.4%
Bunkers		158	151	158	172	150	161	7.3%
Stock changes		-59	-121	-9	29	-294	-244	17.0%
Gross inland consumption		3 673	3 493	4 086	5 281	4 633	4 484	-3.2%
Imports and exports								
Imports by origin								
<i>among which:</i>								
Netherlands		109	-	14	-	-	11	
United Kingdom		3 613	3 310	5 161	6 210	5 716	5 960	4.3%
Norway		-	-	-	-	-	34	
OPEC		-	-	80	-	-	-	
Imports by product								
<i>among which:</i>								
Motor spirit		736	788	868	989	975	1 001	2.7%
Kerosene and jet fuel		666	688	747	932	1 025	1 196	16.7%
Gas/diesel oil		1 642	1 560	1 714	1 948	2 004	2 069	3.2%
Residual fuel oil		1 332	1 584	1 705	2 207	1 576	1 831	16.2%
Exports by product								
<i>among which:</i>								
Motor spirit		4	68	11	7	1	124	
Kerosene and jet fuel		-	36	9	3	25	16	-36.0%
Gas/diesel oil		31	138	75	10	35	47	34.3%
Residual fuel oil		757	995	1 039	983	850	1 096	28.9%
Consumption								
Inputs to electricity plants		649	829	1 138	1 419	1 055	1 247	18.2%
Inputs to heating plants		-	-	-	-	-	-	-
Non-energy use		196	203	201	182	190	-	
Final energy consumption		4 917	5 382	5 769	6 441	6 678	6 846	2.5%
Industry								
<i>among which by product:</i>								
Gas/diesel oil		159	166	168	179	188	185	-1.6%
Residual fuel oil		446	462	456	486	469	444	-5.3%

 eurostat	IRELAND						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Industry							
<i>among which by sector:</i>							
Iron&steel industry	2	7	7	5	5	6	20.0%
Non-ferrous metals	242	257	253	264	253	228	-9.9%
Chemical industry	48	101	109	128	121	136	12.4%
Non-met. mineral prod.	83	158	141	208	203	46	-77.3%
Food, drink, tobacco	150	163	158	167	169	168	-0.6%
Pulp, paper and print	9	10	10	11	10	10	0.0%
Engineering & metal	51	66	67	72	72	69	-4.2%
Other industries	41	44	52	53	53	58	9.4%
Transport	2 618	2 837	3 200	3 573	3 785	4 154	9.7%
<i>among which:</i>							
Motor spirit	1 100	1 176	1 307	1 414	1 467	1 551	5.7%
Jet fuel	404	422	436	515	559	717	28.3%
Diesel oil	1 087	1 210	1 429	1 614	1 732	1 861	7.4%
Services & households etc.	1 542	1 678	1 711	1 897	1 941	1 907	-1.8%
<i>among which:</i>							
Gas oil	962	1 074	985	1 040	1 083	1 051	-3.0%
Residual fuel oil	155	170	164	171	190	167	-12.1%
Stocks at end of period							
Crude oil and feedstocks	327	316	430	457	128	121	-5.5%
Petroleum products	810	931	940	1 042	1 145	1 373	19.9%


5. Natural gas

 eurostat	IRELAND							
	in TJ (GCV)		1996	1997	1998	1999	2000	2001
Primary production and supply								
Primary production		100 844	88 678	65 448	51 329	44 581	30 639	-31.3%
Total imports		22 489	40 261	64 933	88 099	115 259	136 078	18.1%
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-	-	-
Gross inland consumption		123 333	128 939	130 381	139 428	159 840	166 717	4.3%
Imports								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
Consumption								
Inputs to electricity plants		61 938	64 569	62 693	70 200	84 880	86 131	1.5%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		-	-	-	-	-	-	-
Distribution losses		2 309	2 194	1 480	2 012	1 306	2 174	66.5%
Non-energy use		18 626	21 659	21 370	19 029	17 804	20 996	17.9%
Industry		17 319	17 644	18 610	18 815	21 867	20 490	-6.3%
<i>among which:</i>								
Iron&steel industry		772	804	838	964	838	33	-96.1%
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		4 731	5 860	6 110	6 026	7 543	7 962	5.6%
Non-met. mineral prod.		2 071	2 107	2 197	1 247	1 846	1 913	3.6%
Food, drink, tobacco		6 716	6 758	7 046	5 796	7 465	7 331	-1.8%
Pulp, paper and print		-	-	-	-	-	-	-
Engineering & metal		-	-	-	-	-	-	-
Other industries		2 538	1 565	1 846	3 932	2 953	2 035	-31.1%
Transport		-	-	-	-	-	-	-
Services & households etc.		23 141	22 873	26 228	29 372	33 981	36 926	8.7%
<i>among which:</i>								
Households		14 054	13 270	15 718	17 959	20 365	22 367	9.8%
Services		9 087	9 603	10 510	11 413	13 616	14 559	6.9%


6.1 Hard coal


 eurostat	IRELAND							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production	-	-	-	-	-	-	-	-
Total imports	2 802	3 070	2 860	2 384	2 630	2 919	11.0%	
Total exports	12	6	5	5	3	3	0.0%	
Stock changes	195	-233	22	95	201	-13		
Gross inland consumption	2 985	2 831	2 877	2 474	2 828	2 903	2.7%	
Imports								
Imports by origin								
<i>among which:</i>								
USA	792	676	1 025	723	442	332	-24.9%	
Poland	320	386	248	254	172	264	53.5%	
CIS	-	-	-	-	-	-	-	
Australia	-	-	163	-	284	405	42.6%	
South Africa	149	202	217	117	409	-	-	
Colombia	1 288	1 558	1 010	1 021	883	866	-1.9%	
Consumption								
Inputs to electricity plants	2 362	2 268	2 308	2 014	2 362	2 476	4.8%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry	187	139	121	100	78	76	-2.6%	
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	116	74	80	57	45	44	-2.2%	
Food, drink, tobacco	29	37	41	43	33	32	-3.0%	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	421	408	414	339	357	319	-10.6%	
Structural data								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	1	-	-	-	-	-	-	

6.2 Coal derivatives and peat

	IRELAND						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	28	31	30	31	47	47	0.0%
Lignite and peat	5 691	3 338	3 670	5 650	4 808	4 357	-9.4%
Brown coal briquettes	285	253	264	330	274	280	2.2%
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
<i>among which:</i>							
Iron & steel industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Patent Fuel	28	31	29	24	41	41	0.0%
<i>among which:</i>							
Services & households	28	31	29	24	41	41	0.0%
Lignite and peat	1 234	1 190	1 154	658	572	615	7.5%
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	1 234	1 190	1 154	658	572	615	7.5%
Brown coal briquettes	280	252	276	276	316	255	-19.3%
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	280	252	276	276	316	255	-19.3%
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	-	-	-	-	-	-	-
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	-	-	-	-	-	-	-
Consumption in industry	-	-	-	-	-	-	-

7. Renewable energy sources

		IRELAND						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	186	198	259	257	258	261	1.0%
Hydro (excl. pumping)		62	58	79	73	73	51	-29.6%
Wind		1	4	15	16	21	29	36.9%
Solar		0	0	0	0	0	0	-37.5%
Geothermal		0	0	0	0	0	0	0.0%
Biomass		123	135	166	167	164	180	10.0%
	<i>among which:</i>							
Wood, wood-waste		109	109	131	131	136	152	11.8%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		14	26	35	37	28	28	1.5%
Gross inland consumption		186	198	259	257	258	261	1.0%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		10	22	30	32	24	24	1.7%
	<i>among which:</i>							
Wood, wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		10	22	30	32	24	24	1.7%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	113	113	136	136	141	157	11.3%
	<i>by sector:</i>							
Industry		68	68	87	87	96	109	13.5%
Services & households etc.		45	46	48	48	45	48	6.6%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		113	113	135	135	140	156	11.4%
	<i>among which:</i>							
Wood, wood-waste		109	109	131	131	136	152	11.8%
Municipal waste		-	-	-	-	-	-	-
Biogas		4	4	4	4	4	4	0.0%
Geothermal		0	0	0	0	0	0	0.0%
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		24	23	26	27	27	25	-7.4%
Hydro with installed capacity > 1 & <10 MW		152	70	86	96	96	68	-29.2%
Hydro with installed capacity > 10 MW		542	620	809	723	723	503	-30.4%
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		27	81	85	91	96	97	1.0%

		IRELAND						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		7	8	8	7	7	10	42.9%
Hydro with installed capacity > 1 & <10 MW		47	47	47	27	27	27	0.0%
Hydro with installed capacity > 10 MW		182	182	182	199	199	199	0.0%
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		8	12	12	15	15	15	0.0%
Liquid biofuels								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
Solar Panels								
Solar panel surface	<i>1000 m²</i>	3	3	5	5	5	5	0.0%


1. Energy economy

Key figures and energy indicators

eurostat		ITALY					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	31 574	31 611	32 521	31 514	30 582	30 150
Net energy imports		134 456	134 237	140 373	143 485	152 588	147 261
Net oil imports		89 362	88 285	90 434	87 533	88 578	84 670
Net gas imports		30 433	31 976	34 889	40 486	47 008	44 810
Gross inland energy consumption		162 492	164 611	170 635	173 363	175 794	176 612p
Final energy consumption		117 412	118 169	121 581	126 163	126 119	129 697p
Industry		36 605	37 509	36 703	38 871	40 013	40 628p
Transport		38 041	38 735	40 999	41 518	41 341	41 973
Services and households etc.		42 767	41 924	43 878	45 774	44 765	47 097
Gross electricity generation	GWh	244 073	250 769	259 054	264 994	276 623	278 995
Final electricity consumption		240 188	247 814	254 747	261 030	272 547	277 328
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	848 213	865 400	880 925	895 581	923 704	940 391
Population	1000 per.	57 397	57 512	57 588	57 646	57 762	57 931
Industry added value	Mio EUR	236 231	240 407	243 832	245 154	251 576	254 605
Total imports (current prices)	Mio EUR	192 030	211 450	230 232	242 371	265 123	265 562
among which:							
All energy commodities		13 741	14 579	10 739	13 332	24 993	23 698
Oil products		12 533	13 112	9 473	11 944	23 293	20 612
Energy intensity							
Gross inland consumption / GDP(95)	kgoel/1 000 EUR	191.6	190.2	193.7	193.6	190.3	187.8
Final energy consumption / GDP(95)		138.4	136.5	138.0	140.9	136.5	137.9
Energy intensity of industry:							
Final consumption / gross value-added mp		155.0	156.0	150.5	158.6	159.0	159.6
Energy intensity of service sector:							
Final consumption / gross value-added mp		10.7	11.0	9.5	8.8	9.4	9.4
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoel/cap.	2 831	2 862	2 963	3 007	3 043	3 049
Final energy consumption / capita		2 046	2 055	2 111	2 189	2 183	2 239
Household consumption / capita		588	569	615	654	626	661
Electricity consumption / capita	kWh/cap.	4 089	4 236	4 392	4 432	4 666	4 700
Energy dependency							
Net energy imports / Gross consumption	in %	81.6	80.4	81.0	81.6	85.5	82.1
Net oil imports / Gross consumption		54.2	52.9	52.2	49.8	49.6	47.2
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	72.3	71.8	71.3	72.8	71.7	73.4
Efficiency of thermal power stations		40.2	40.9	40.8	40.6	40.2	41.6

2. Energy balance

Principal aggregates by product

 eurostat	ITALY						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	31 574	31 611	32 521	31 514	30 582	30 150	-1.4%
<i>among which:</i> Hard coal	-	-	-	-	-	69	
Lignite and peat	75	26	6	5	4	-	
Crude oil	5 515	6 002	5 671	5 028	4 606	4 117	-10.6%
Natural Gas	16 364	15 780	15 568	14 313	13 622	12 483	-8.4%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	3 615	3 577	3 544	3 901	3 812	4 025	5.6%
Biomass	3 470	3 597	4 900	5 421	5 374	6 153	14.5%
Imports							
Total	153 345	155 547	163 527	164 032	174 324	169 864	-2.6%
<i>among which:</i> Hard coal	11 247	10 398	11 262	11 766	12 926	13 267	2.6%
Crude oil and feedstocks	82 529	88 507	92 765	88 748	90 892	91 787	1.0%
Petroleum products	25 554	20 880	20 644	19 161	19 255	15 332	-20.4%
Natural Gas	30 468	32 011	34 927	40 528	47 049	44 861	-4.7%
Electricity	3 280	3 425	3 580	3 658	3 855	4 207	9.1%
Exports							
Total	18 889	21 311	23 155	20 547	21 736	22 603	4.0%
<i>among which:</i> Crude oil and feedstocks	92	421	414	280	529	614	16.1%
Petroleum products	18 628	20 681	22 562	20 095	21 041	21 835	3.8%
Natural gas	35	34	38	42	41	51	24.0%
Electricity	65	86	77	45	42	47	13.4%
Gross inland consumption							
Total	162 492	164 611	170 635	173 363	175 794	176 612p	0.5%
<i>among which:</i> Solid fuels	11 281	11 218	11 706	11 768	12 660	13 488	6.5%
Crude oil and petrol. prod.	92 204	92 660	92 920	90 096	88 898	87 253	-1.9%
Natural gas	46 067	47 486	51 126	55 569	57 940	58 099	0.3%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	9 620	9 804	11 276	12 168	12 349	13 480	9.2%
Transformation input							
Total	139 661	147 551	152 525	147 102	151 059	149 785p	-0.8%
<i>among which:</i> Crude oil and feedstocks	91 418	98 255	101 652	96 035	96 874	97 965	1.1%
Petroleum products	24 196	23 266	21 930	18 993	18 960	16 516	-12.9%
Hard coal	9 542	9 499	10 018	9 914	10 653	11 628	9.1%
Lignite and peat	75	23	65	54	1	1	0.0%
Renewables	231	348	525	784	736	658	-10.7%
Transformation output							
Total	113 267	120 660	124 478	118 084	119 648	120 900	1.0%
<i>among which:</i> Electricity	16 966	17 609	18 245	18 356	19 361	19 251	-0.6%
Heat	-	-	-	-	-	-	-

Final energy consumption

Total	117 412	118 169	121 581	126 163	126 119	129 697p	2.8%
<i>among which:</i> Solid fuels	3 724	3 871	3 939	3 725	3 512	3 811	8.5%
Petroleum products	53 922	54 421	54 499	57 171	56 312	57 457	2.0%
Natural Gas	34 726	34 418	36 219	37 665	37 611	38 749	3.0%
Renewables	3 239	3 238	4 359	4 638	4 638	5 495	18.5%
Electricity	20 652	21 308	21 904	22 445	23 435	23 846	1.8%

Final energy consumption by sector
Industry

Total	36 605	37 509	36 703	38 871	40 013	40 628p	1.5%
<i>among which:</i> Solid fuels	3 612	3 745	3 872	3 660	3 449	3 740	8.4%
Petroleum Products	6 109	6 489	5 185	6 595	6 409	6 596	2.9%
Natural Gas	14 946	15 018	15 343	15 864	16 625	16 653	0.2%
Renewables	970	946	946	946	946	1 215	28.5%
Electricity	10 238	10 623	10 924	11 509	12 197	12 313	1.0%


Transport

Total	38 041	38 735	40 999	41 518	41 341	41 973	1.5%
<i>among which:</i> Motor spirit	18 129	18 235	18 790	18 469	17 534	17 192	-1.9%
Diesel oil	14 670	15 102	16 305	16 952	17 654	18 712	6.0%
Jet fuel	2 618	2 710	3 173	3 555	3 491	3 393	-2.8%
Electricity	658	664	676	678	695	703	1.1%


Services&households

Total	42 767	41 924	43 878	45 774	44 765	47 097	5.2%
<i>among which:</i> Solid fuels	113	126	67	65	63	71	11.9%
Gas oil	7 854	7 488	7 084	7 202	6 771	7 271	7.4%
Natural Gas	19 517	19 122	20 590	21 513	20 659	21 729	5.2%
Renewables	2 226	2 226	3 335	3 614	3 614	4 202	16.3%
Electricity	9 756	10 021	10 304	10 258	10 543	10 830	2.7%
Heat	-	-	-	-	-	-	-


3.1 Electricity balance

 eurostat	ITALY						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	244 073	250 769	259 054	264 994	276 623	278 995	0.9%
<i>among which:</i>							
Hydro	47 072	46 552	47 365	51 777	50 900	53 926	5.9%
Wind	33	118	232	403	563	1 179	109.4%
Geothermal	3 762	3 905	4 214	4 403	4 705	4 507	-4.2%
Nuclear	-	-	-	-	-	-	-
Conventional thermal	193 206	200 194	207 243	208 411	220 455	219 383	-0.5%
<i>of which:</i>							
Hard coal	21 966	20 384	22 987	23 551	25 990	31 727	22.1%
Lignite and peat	114	134	324	261	282	3	-98.9%
Petroleum products	117 088	113 312	107 305	91 379	85 878	75 008	-12.7%
Natural gas	50 191	61 293	70 883	86 983	101 360	95 906	-5.4%
Derived gases	3 243	4 251	4 516	4 413	4 252	5 045	18.7%
Biomass	604	820	1 228	1 824	1 591	2 586	62.5%
Industrial wastes	-	-	-	-	1 102	9 108	726.5%
Total net generation	232 035	238 639	246 264	252 109	263 623	265 965	0.9%
Imports and exports							
Total imports	38 149	39 827	41 633	42 538	44 831	48 927	9.1%
Total exports	760	995	901	528	484	549	13.4%
Consumption and losses							
Consumption of the energy branch	19 634	19 813	21 119	21 665	22 674	23 589	4.0%
<i>of which:</i>							
Consumption for pumped-storage	1 847	1 779	2 213	2 491	2 566	2 396	-6.6%
Network losses	16 919	17 718	18 508	18 560	19 191	19 340	0.8%
Final energy consumption	240 188	247 814	254 747	261 030	272 547	277 328	1.8%
<i>of which:</i>							
Industry	119 069	123 545	127 048	133 847	141 847	143 205	1.0%
<i>among which:</i>							
Iron&steel industry	17 943	18 469	18 823	18 355	20 346	20 846	2.5%
Non-ferrous metals	5 366	5 394	5 441	5 234	5 526	5 714	3.4%
Chemical industry	19 877	20 284	20 394	20 864	21 946	21 224	-3.3%
Non-met. mineral prod.	11 833	12 096	12 591	13 025	13 698	13 931	1.7%
Food, drink, tobacco	9 935	10 188	10 710	11 172	11 644	12 044	3.4%
Pulp, paper and print	8 710	9 093	9 266	9 649	10 100	10 258	1.6%
Engineering & metal	20 861	22 162	23 185	23 713	25 162	25 369	0.8%
Other industries	12 915	13 644	14 366	19 945	20 919	21 207	1.4%
Transport	7 654	7 719	7 861	7 886	8 086	8 171	1.1%
Services & households etc.	113 465	116 550	119 838	119 297	122 614	125 952	2.7%
<i>among which:</i>							
Households	57 960	58 485	59 275	60 717	61 112	61 553	0.7%


3.2 Electrical capacity, fuel inputs and heat


		ITALY						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	68 217	70 252	72 352	73 684	75 421	76 135	0.9%
<i>by source:</i>								
Conventional thermal		47 786	49 657	51 583	52 426	54 035	54 477	0.8%
<i>of which:</i>								
Steam		39 508	40 020	40 745	40 728	40 048	39 278	-1.9%
Gas turbine		5 304	5 592	5 623	6 027	5 314	5 371	1.1%
Combined cycle		2 510	3 504	4 554	4 924	7 839	8 978	14.5%
Internal combustion		464	541	651	747	833	850	2.0%
Nuclear		-	-	-	-	-	-	-
Hydro		19 876	19 946	20 058	20 444	20 346	20 433	0.4%
<i>among which:</i>								
Pumped storage		6 877	6 886	7 000	7 027	6 957	4 753	-31.7%
Wind		70	120	164	229	450	664	47.6%
Geothermal		485	529	547	585	590	561	-4.9%
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		58 483	59 667	60 533	61 252	75 493	71 381	-5.4%
Autoproducers		9 832	10 749	11 983	12 596	409	4 833	
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	42 197	43 053	44 742	45 214	48 215	46 243p	-4.1%
<i>among which:</i>								
Hard coal		4 811	4 491	5 027	5 123	5 826	6 985	19.9%
Lignite and peat		75	23	65	54	1	1	0.0%
Petroleum products		24 153	23 261	21 925	18 989	18 955	16 512	-12.9%
Natural gas		9 852	11 582	13 533	16 577	18 689	17 911	-4.2%
Renewables		2 534	2 739	3 103	3 360	3 614	3 629	0.4%
Heating plants		8	8	10	12	12	-	
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		8	8	10	12	12	-	
Heat production and consumption								
Total heat production	TJ	-	-	-	-	-	-	-
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		-	-	-	-	-	-	-
<i>of which: in industry</i>								
		-	-	-	-	-	-	-
<i>in households and services</i>								
		-	-	-	-	-	-	-
<i>among which: in households</i>								
		-	-	-	-	-	-	-

4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	ITALY						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		5 452	5 948	5 622	4 998	4 585	4 097	-10.6%
Total imports		81 553	87 658	91 925	88 150	90 403	91 250	0.9%
Total exports		91	416	408	276	521	605	16.1%
Stock changes		-612	81	-88	103	-758	196	
Refinery intake		90 331	97 293	100 709	95 381	96 336	97 381	1.1%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		51 676	57 442	60 348	52 227	55 055	48 894	-11.2%
Near and Middle East		23 217	27 574	34 362	31 290	30 656	29 017	-5.3%
Africa		31 720	31 758	35 738	29 525	32 189	30 665	-4.7%
<i>by country of origin:</i>								
Algeria		2 775	1 923	1 685	2 011	3 190	2 765	-13.3%
Nigeria		1 201	2 242	1 669	1 262	1 142	1 752	53.4%
Saudi Arabia		9 877	13 261	12 496	8 343	8 407	8 933	6.3%
Kuwait		-	4	-	128	1 574	653	-58.5%
United Arab Emirates		78	-	-	-	-	-	-
Norway		1 707	2 892	3 746	4 259	3 650	2 927	-19.8%
Refining capacity								
Capacity at the end of year	1 000 t/year	112 700	113 200	115 500	115 500	115 500	:	
<i>among which:</i>								
Cracking and others		47 400	47 800	57 040	58 040	60 470	:	
Reforming		11 800	11 800	13 880	13 950	13 450	:	

4.2 Petroleum products


 eurostat	ITALY						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Production and supply							
Total refinery output	89 450	96 346	99 797	94 222	95 074	96 535	1.5%
<i>among which:</i>							
Motor spirit	19 295	21 393	21 348	20 182	19 494	21 093	8.2%
Kerosene and jet fuel	4 926	5 175	5 344	4 847	4 476	4 071	-9.0%
Naphtha	4 483	4 370	5 132	3 483	2 998	2 203	-26.5%
Gas/diesel oil	31 703	34 562	36 272	34 527	36 487	37 076	1.6%
Residual fuel oil	18 037	19 418	20 486	19 409	19 455	19 295	-0.8%
Total imports	26 552	21 787	21 629	19 957	20 079	15 996	-20.3%
Total exports	18 566	20 611	22 476	20 078	21 050	21 816	3.6%
Bunkers	2 362	2 455	2 700	2 485	2 785	2 900	4.1%
Stock changes	216	759	-505	-91	-1 038	1 077	
Gross inland consumption	5 840	-520	-4 052	-2 697	-4 794	-7 643	59.4%
Imports and exports							
Imports by origin							
<i>among which:</i>							
Netherlands	1 235	776	404	300	372	236	-36.6%
United Kingdom	3 344	3 225	2 597	1 522	1 696	1 452	-14.4%
Norway	1 232	859	934	399	167	246	47.3%
OPEC	5 483	6 005	6 729	8 068	10 104	5 946	-41.2%
Imports by product							
<i>among which:</i>							
Motor spirit	1 550	948	898	726	598	615	2.8%
Kerosene and jet fuel	45	-	37	417	317	338	6.6%
Gas/diesel oil	1 724	703	732	1 047	893	748	-16.2%
Residual fuel oil	17 797	15 021	14 349	11 911	11 744	7 690	-34.5%
Exports by product							
<i>among which:</i>							
Motor spirit	2 769	2 726	2 759	2 729	3 985	4 279	7.4%
Kerosene and jet fuel	923	726	982	1 093	830	638	-23.1%
Gas/diesel oil	8 334	10 172	11 249	8 930	8 586	9 881	15.1%
Residual fuel oil	4 852	4 930	5 117	4 524	4 709	3 516	-25.3%
Consumption							
Inputs to electricity plants	25 216	24 307	22 903	19 797	19 636	17 230	-12.3%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	12 308	12 978	9 807	9 634	10 175	9 605	-5.6%
Final energy consumption	52 937	53 534	53 597	56 297	55 500	56 559	1.9%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	325	310	424	408	418	435	4.1%
Residual fuel oil	3 146	3 178	2 963	4 184	3 763	3 482	-7.5%

 eurostat	ITALY						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Industry							
<i>among which by sector:</i>							
Iron&steel industry	62	103	88	97	99	121	22.2%
Non-ferrous metals	26	19	120	89	86	87	1.2%
Chemical industry	2 063	2 230	601	1 226	1 038	1 388	33.7%
Non-met. mineral prod.	2 365	2 671	1 985	3 321	3 513	2 948	-16.1%
Food, drink, tobacco	353	332	335	731	628	672	7.0%
Pulp, paper and print	327	337	76	181	160	192	20.0%
Engineering & metal	599	561	636	792	713	771	8.1%
Other industries	520	557	1 508	441	424	604	42.5%
Transport	35 830	36 468	38 647	39 178	38 979	39 574	1.5%
<i>among which:</i>							
Motor spirit	17 251	17 351	17 880	17 574	16 684	16 359	-1.9%
Jet fuel	2 549	2 639	3 089	3 461	3 399	3 304	-2.8%
Diesel oil	14 520	14 948	16 138	16 779	17 474	18 521	6.0%
Services & households etc.	10 464	9 952	9 132	9 824	9 393	9 771	4.0%
<i>among which:</i>							
Gas oil	7 774	7 412	7 012	7 128	6 702	7 197	7.4%
Residual fuel oil	210	243	344	378	330	350	6.1%
Stocks at end of period							
Crude oil and feedstocks	6 639	5 271	5 359	5 257	5 828	5 508	-5.5%
Petroleum products	15 083	14 076	14 581	14 672	15 193	14 710	-3.2%


5. Natural gas

 eurostat	ITALY						
	in TJ (GCV)						
	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply							
Primary production	761 235	734 074	724 243	665 836	633 716	580 723	-8.4%
Total imports	1 417 359	1 489 138	1 624 813	1 885 340	2 188 731	2 086 927	-4.7%
Total exports	1 635	1 600	1 791	1 943	1 907	2 365	24.0%
Stock changes	-33 931	-12 571	31 128	35 814	-125 159	37 490	
Gross inland consumption	2 143 028	2 209 041	2 378 393	2 585 047	2 695 381	2 702 775	0.3%
Imports							
Imports by origin							
<i>among which:</i>							
CIS	516 659	523 646	636 003	727 443	801 548	746 531	-6.9%
Algeria	731 109	775 030	869 442	1 021 156	1 071 372	930 135	-13.2%
Norway	-	-	-	-	-	46 520	
Consumption							
Inputs to electricity plants	458 321	538 802	629 550	771 144	869 419	833 212	-4.2%
Inputs to heat plants	-	-	-	-	-	-	
Consumption of energy branch	17 151	15 739	15 545	15 429	18 141	11 832	-34.8%
Distribution losses	2 859	9 259	5 043	12 534	12 690	8 894	-29.9%
Non-energy use	40 903	44 122	43 351	44 034	45 453	46 215	1.7%
Industry	695 277	698 644	713 754	737 985	773 402	774 687	0.2%
<i>among which:</i>							
Iron&steel industry	74 586	78 449	80 389	73 835	87 099	87 249	0.2%
Non-ferrous metals	14 925	15 203	16 108	16 718	17 452	17 488	0.2%
Chemical industry	138 406	128 552	129 198	148 322	139 903	140 132	0.2%
Non-met. mineral prod.	151 573	150 950	153 725	155 901	166 763	167 259	0.3%
Food, drink, tobacco	74 165	74 944	79 350	83 617	85 459	85 469	0.0%
Pulp, paper and print	65 578	68 007	69 070	72 007	75 096	74 981	-0.2%
Engineering & metal	78 098	90 641	93 407	92 377	101 919	102 146	0.2%
Other industries	42 634	36 350	34 683	37 384	37 569	37 643	0.2%
Transport	12 251	12 917	13 287	13 402	15 202	17 107	12.5%
Services & households etc.	907 943	889 558	957 867	1 000 806	961 076	1 010 830	5.2%
<i>among which:</i>							
Households	902 332	884 072	952 431	995 255	955 627	1 005 153	5.2%
Services	-	-	-	-	-	-	-


6.1 Hard coal


 eurostat	ITALY							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production	-	-	-	-	-	139		
Total imports	16 545	15 297	16 568	17 309	19 015	19 518	2.6%	
Total exports	-	-	-	-	-	-	-	
Stock changes	-210	709	420	-240	-1 000	-232	-76.8%	
Gross inland consumption	16 335	16 006	16 988	17 069	18 015	19 425	7.8%	
Imports								
Imports by origin								
<i>among which:</i>								
USA	7 998	7 502	4 825	3 653	3 285	5 142	56.5%	
Poland	181	177	136	621	912	234	-74.3%	
CIS	505	251	126	894	1 049	865	-17.5%	
Australia	2 406	2 404	3 080	3 299	3 604	2 684	-25.5%	
South Africa	3 277	2 938	3 947	3 785	3 722	4 639	24.6%	
Colombia	617	1 209	2 343	1 362	1 759	1 451	-17.5%	
Consumption								
Inputs to electricity plants	7 585	7 078	8 164	8 378	9 529	11 219	17.7%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	3	3	3	3	49	21	-57.1%	
Industry								
<i>among which:</i>								
Iron&steel industry	1 148	1 088	1 069	1 021	1 198	1 139	-4.9%	
Non-ferrous metals	45	41	47	-	34	28	-17.6%	
Chemical industry	3	3	-	-	3	3	0.0%	
Non-met. mineral prod.	677	535	47	844	-	-	-	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	41	38	1	3	31	29	-6.5%	
Other industries	4	4	552	1	540	549	1.7%	
Services & households etc.	79	83	3	3	3	-	-	
Structural data								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

6.2 Coal derivatives and peat

	ITALY						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	4 962	5 219	5 192	4 990	4 504	4 829	7.2%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	296	102	24	19	14	-	-
Brown coal briquettes	-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	42 812	44 804	38 564	18 833	22 020	14 465	-34.3%
Blast-furnace gas	45 426	51 147	47 135	43 734	47 156	38 893	-17.5%
Gasworks gas	9 771	253	203	-	-	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	3 449	3 872	3 897	3 606	3 336	3 846	15.3%
<i>among which:</i>							
Iron & steel industry	3 181	3 560	3 338	3 130	3 019	3 515	16.4%
Services & households	87	102	96	93	90	104	15.6%
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	16	14	12	18	26	8	-69.2%
<i>among which:</i>							
Industry	16	14	12	18	26	8	-69.2%
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	16 107	14 877	8 456	4 600	7 388	430	-94.2%
Blast-furnace gas	12 211	12 050	7 940	5 710	6 950	1 666	-76.0%
Gasworks gas	9 628	253	203	-	-	-	-
Inputs to electricity plants	32 650	40 510	45 236	44 213	45 596	48 820	7.1%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	26 769	27 323	23 107	7 860	9 052	2 456	-72.9%
Consumption in industry	28 709	26 927	16 396	10 310	14 338	2 096	-85.4%

7. Renewable energy sources

		ITALY						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	9 620	9 804	11 276	12 168	12 349	13 480	9.2%
Hydro (excl. pumping)		3 615	3 577	3 544	3 901	3 812	4 025	5.6%
Wind		3	10	20	35	48	101	109.4%
Solar		8	8	11	11	12	12	0.0%
Geothermal		2 524	2 611	2 801	2 801	3 103	3 188	2.8%
Biomass		3 470	3 597	4 900	5 421	5 374	6 153	14.5%
	<i>among which:</i>							
Wood, wood-waste		3 247	3 264	4 407	4 824	4 818	5 531p	14.8%
Municipal solid waste		134	172	273	374	356	397	11.5%
Biogas		46	95	142	145	122	147	20.9%
Gross inland consumption		9 620	9 804	11 276	12 168	12 349	13 480	9.2%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		2 311	2 398	2 588	2 588	2 890	2 971	2.8%
Biomass		231	348	525	784	736	658	-10.7%
	<i>among which:</i>							
Wood, wood-waste		51	92	127	264	259p	113p	-56.1%
Municipal waste		134	172	273	374	356	397	11.5%
Biogas		46	84	126	145	122	147	20.9%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	3 459	3 458	4 581	4 860	4 861	5 723	17.7%
	<i>by sector:</i>							
Industry		970	946	946	946	946	1 215	28.5%
Services & households etc.		2 446	2 446	3 557	3 836	3 837	4 430	15.4%
Transport		43	66	78	78	78	78	0.0%
	<i>by source:</i>							
Biomass		3 239	3 238	4 359	4 638	4 638	5 495	18.5%
	<i>among which:</i>							
Wood, wood-waste		3 196	3 172	4 281	4 560	4 560p	5 417p	18.8%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		213	213	213	213	213	217	2.0%
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		14	15	16	17	18	5	-72.2%
Hydro with installed capacity < 1 MW		1 649	1 627	1 718	1 762	1 550	1 668	7.6%
Hydro with installed capacity > 1 & <10 MW		7 205	6 497	6 602	6 840	6 567	6 988	6.4%
Hydro with installed capacity > 10 MW		33 181	33 475	32 893	36 756	36 088	38 154	5.7%
Wood, Wood-waste		157	195	271	586	221	644	191.4%
Municipal waste		240	293	464	653	804	1 258	56.5%
Biogas		207	332	494	580	566	684	20.8%

		ITALY						01/00
		1996	1997	1998	1999	2000	2001	
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		16	16	18	6	19	7p	-63.2%
Hydro with installed capacity < 1 MW		380	403	406	414	300	384	28.0%
Hydro with installed capacity > 1 & <10 MW		1 779	1 783	1 804	1 787	1 468	1 849	26.0%
Hydro with installed capacity > 10 MW		13 909	13 942	14 028	14 370	11 621	9 740	-16.2%
Wood, Wood-waste		96	90	154	-	180	-	
Municipal waste		80	89	167	168	219	222	1.4%
Biogas		76	95	124	141	179	198	10.6%
Liquid biofuels								
Production	<i>1000 t</i>	53	81	96	96	96p	96p	0.0%
Solar Panels								
Solar panel surface	<i>1000 m²</i>	180	180	240	240	240	240	0.0%

1. Energy economy

Key figures and energy indicators

eurostat		LUXEMBURG					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	40	47	50	46	57	50
Net energy imports		3 377	3 297	3 259	3 347	3 620	3 687
Net oil imports		1 859	1 913	2 048	2 100	2 332	2 396
Net gas imports		611	626	633	656	670	695
Gross inland energy consumption		3 401	3 351	3 274	3 440	3 628	3 765
Final energy consumption		3 235	3 224	3 183	3 341	3 544	3 689
Industry		1 144	1 028	864	918	954	918
Transport		1 356	1 467	1 553	1 701	1 877	1 986
Services and households etc.		735	729	767	722	714	786
Gross electricity generation	GWh	1 312	1 263	1 309	1 021	1 175	1 242
Final electricity consumption		4 917	5 133	5 297	5 510	5 716	5 633
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	14 289	15 477	16 543	17 985	19 582	19 823
Population	1000 per.	416	421	427	433	439	442
Industry added value	Mio EUR	3 214	3 393	3 479	3 568	3 758	3 869
Total imports (current prices)	Mio EUR	14 209	15 886	17 858	20 561	23 631	24 255
among which:							
All energy commodities		-	-	-	369	771	634
Oil products		-	-	-	-	-	-
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	238.0	216.5	197.9	191.3	185.3	189.9
Final energy consumption / GDP(95)		226.4	208.3	192.4	185.8	181.0	186.1
Energy intensity of industry:							
Final consumption / gross value-added mp		355.9	303.1	248.2	257.2	253.7	237.3
Energy intensity of service sector:							
Final consumption / gross value-added mp		8.4	8.2	8.3	6.3	6.2	6.8
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	8 175	7 960	7 667	7 944	8 263	8 519
Final energy consumption / capita		7 777	7 658	7 455	7 717	8 074	8 347
Household consumption / capita		1 493	1 448	1 492	1 418	1 368	1 494
Electricity consumption / capita	kWh/cap.	12 829	13 086	13 262	13 425	13 686	13 541
Energy dependency							
Net energy imports / Gross consumption	in %	99.3	98.4	99.5	97.3	99.8	97.9
Net oil imports / Gross consumption		54.7	57.1	62.6	61.1	64.3	63.6
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	95.1	96.2	97.2	97.1	97.7	98.0
Efficiency of thermal power stations		29.9	40.5	69.9	72.8	68.5	71.2

2. Energy balance

Principal aggregates by product

eurostat	LUXEMBURG							
	in 1 000 toe	1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total		40	47	50	46	57	50	-11.5%
<i>among which:</i>	Hard coal	-	-	-	-	-	-	-
	Lignite and peat	-	-	-	-	-	-	-
	Crude oil	-	-	-	-	-	-	-
	Natural Gas	-	-	-	-	-	-	-
	Nuclear heat	-	-	-	-	-	-	-
	Hydro-electricity	5	7	10	8	10	2	-83.3%
	Biomass	35	40	40	36	44	46	4.8%
Imports								
Total		3 451	3 375	3 356	3 423	3 701	3 782	2.2%
<i>among which:</i>	Hard coal	169	136	106	107	120	106	-11.1%
	Crude oil and feedstocks	-	-	-	-	-	-	-
	Petroleum products	1 863	1 918	2 065	2 120	2 350	2 427	3.3%
	Natural Gas	611	626	633	656	670	695	3.6%
	Electricity	491	519	545	534	555	549	-1.0%
Exports								
Total		74	78	96	75	81	95	17.2%
<i>among which:</i>	Crude oil and feedstocks	-	-	-	-	-	-	-
	Petroleum products	4	5	17	19	18	31	73.7%
	Natural gas	-	-	-	-	-	-	-
	Electricity	69	73	79	56	63	64	1.2%
Gross inland consumption								
Total		3 401	3 351	3 274	3 440	3 628	3 765	3.8%
<i>among which:</i>	Solid fuels	485	312	113	113	125	110	-12.1%
	Crude oil and petrol. prod.	1 843	1 921	2 013	2 147	2 283	2 425	6.2%
	Natural gas	611	626	633	656	670	695	3.6%
	Nuclear Energy	-	-	-	-	-	-	-
	Renewables	40	47	50	46	57	50	-11.5%
Transformation input								
Total		251	172	65	63	75	87	16.1%
<i>among which:</i>	Crude oil and feedstocks	-	-	-	-	-	-	-
	Petroleum products	7	4	-	-	-	-	-
	Hard coal	-	-	-	-	-	-	-
	Lignite and peat	-	-	-	-	-	-	-
	Renewables	19	24	24	20	28	30	7.5%
Transformation output								
Total		164	111	45	46	52	62	20.8%
<i>among which:</i>	Electricity	37	28	21	22	25	29	18.5%
	Heat	-	13	24	24	27	33	22.8%

Final energy consumption

Total	3 235	3 224	3 183	3 341	3 544	3 689	4.1%
<i>among which:</i> Solid fuels	356	237	108	109	121	107	-11.0%
Petroleum products	1 817	1 900	1 991	2 109	2 266	2 411	6.4%
Natural Gas	564	583	590	611	623	637	2.3%
Renewables	15	15	15	15	16	16	0.0%
Electricity	423	441	455	474	491	484	-1.5%

Final energy consumption by sector
Industry

Total	1 144	1 028	864	918	954	918	-3.7%
<i>among which:</i> Solid fuels	351	234	106	107	120	106	-11.1%
Petroleum Products	127	96	81	78	73	67	-7.2%
Natural Gas	349	383	374	398	413	406	-1.6%
Renewables	-	-	-	-	-	-	-
Electricity	257	272	283	318	331	318	-4.1%


Transport

Total	1 356	1 467	1 553	1 701	1 877	1 986	5.8%
<i>among which:</i> Motor spirit	545	566	569	587	607	598	-1.6%
Diesel oil	594	642	692	772	939	1 030	9.7%
Jet fuel	205	251	282	332	320	346	8.0%
Electricity	9	7	7	8	8	9	4.1%


Services&households

Total	735	729	767	722	714	786	10.0%
<i>among which:</i> Solid fuels	5	2	2	1	1	1	0.0%
Gas oil	330	331	348	326	313	352	12.3%
Natural Gas	215	201	216	213	210	231	10.0%
Renewables	15	15	15	15	16	16	0.0%
Electricity	157	163	165	148	152	158	4.1%
Heat	-	3	5	6	9	12	29.3%


3.1 Electricity balance

 eurostat	LUXEMBURG							
	in GWh	1996	1997	1998	1999	2000	2001	01/00
Generation								
Total gross generation	1 312	1 263	1 309	1 021	1 175	1 242	5.7%	
<i>among which:</i>								
Hydro	876	937	1 049	747	862	877	1.7%	
Wind	-	3	11	18	27	26	-3.7%	
Geothermal	-	-	-	-	-	-	-	
Nuclear	-	-	-	-	-	-	-	
Conventional thermal	436	323	249	256	286	339	18.5%	
<i>of which:</i>								
Hard coal	-	-	-	-	-	-	-	
Lignite and peat	-	-	-	-	-	-	-	
Petroleum products	16	13	-	-	-	-	-	
Natural gas	239	177	204	204	234	279	19.2%	
Derived gases	133	87	-	-	-	-	-	
Biomass	43	46	45	50	52	59	13.5%	
Industrial wastes	5	-	-	2	-	1	-	
Total net generation	1 260	1 232	1 250	996	1 147	1 179	2.8%	
Imports and exports								
Total imports	5 712	6 032	6 338	6 212	6 457	6 390	-1.0%	
Total exports	806	846	924	655	735	744	1.2%	
Consumption and losses								
Consumption of the energy branch	364	356	351	291	298	225	-24.5%	
<i>of which:</i>								
Consumption for pumped-storage	313	325	291	254	270	162	-40.0%	
Network losses	104	167	108	126	141	173	22.7%	
Final energy consumption	4 917	5 133	5 297	5 510	5 716	5 633	-1.5%	
<i>of which:</i>								
Industry	2 991	3 160	3 292	3 693	3 852	3 693	-4.1%	
<i>among which:</i>								
Iron&steel industry	1 473	1 681	1 728	1 845	1 924p	1 903	-1.1%	
Non-ferrous metals	-	-	-	-	0p	0p	-	
Chemical industry	400	262	270	270p	282p	309p	9.6%	
Non-met. mineral prod.	278	311	313	313p	327p	358p	9.5%	
Food, drink, tobacco	70	72	76	76p	79p	87p	10.1%	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	511	548	578	578p	603p	662p	9.8%	
Other industries	-	-	-	284p	296p	0p	-100.0%	
Transport	105	81	87	94	97	101	4.1%	
Services & households etc.	1 821	1 892	1 918	1 723	1 767	1 839	4.1%	
<i>among which:</i>								
Households	752	763	752	750p	750p	721p	-3.9%	

3.2 Electrical capacity, fuel inputs and heat


		LUXEMBURG						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	1 264	1 278	1 210	1 214	1 227	1 155	-5.9%
<i>by source:</i>								
Conventional thermal		101	135	59	72	74	-	-
<i>of which:</i>								
Steam		101	102	9	9	9	-	-
Gas turbine		-	-	-	-	-	-	-
Combined cycle		-	-	-	-	-	-	-
Internal combustion		15	15	32	45	47	-	-
Nuclear		-	-	-	-	-	-	-
Hydro		1 163	1 140	1 141	1 133	1 139	1 140	0.1%
<i>among which:</i>								
Pumped storage		1 129	1 100	1 100	1 100	1 100	1 100	0.0%
Wind		-	3	10	9	14	15	7.1%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		1 171	1 149	1 144	1 142	1 148	1 140	-0.7%
Autoproducers		93	132	75	72	79	-	-
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	124	102	65	63	75	87	16.1%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		7	4	-	-	-	-	-
Natural gas		45	41	41	42	47	57	21.3%
Renewables		19	24	24	20	28	30	7.5%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
Heat production and consumption								
Total heat production	TJ	-	13	24	24	27	33	22.8%
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		-	13	24	24	27	33	22.8%
<i>of which: in industry</i>								
		-	10	19	17	17	21	19.3%
<i>in households and services</i>								
		-	3	5	6	9	12	29.3%
<i>among which: in households</i>								
		-	3	5	6	9	12	29.3%

4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	LUXEMBURG						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		-	-	-	-	-	-	-
Total imports		-	-	-	-	-	-	-
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-	-	-
Refinery intake		-	-	-	-	-	-	-
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		-	-	-	-	-	-	-
Near and Middle East		-	-	-	-	-	-	-
Africa		-	-	-	-	-	-	-
<i>by country of origin:</i>								
Algeria		-	-	-	-	-	-	-
Nigeria		-	-	-	-	-	-	-
Saudi Arabia		-	-	-	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
Refining capacity								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

4.2 Petroleum products


eurostat	LUXEMBURG							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Production and supply								
Total refinery output	-	-	-	-	-	-	-	-
<i>among which:</i>								
Motor spirit	-	-	-	-	-	-	-	-
Kerosene and jet fuel	-	-	-	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-
Gas/diesel oil	-	-	-	-	-	-	-	-
Residual fuel oil	-	-	-	-	-	-	-	-
Total imports	1 824	1 874	2 016	2 069	2 295	2 372	3.4%	
Total exports	4	5	16	18	17	30	76.5%	
Bunkers	-	-	-	-	-	-	-	
Stock changes	-16	8	-35	46	-48	28		
Gross inland consumption	1 804	1 877	1 965	2 097	2 230	2 370	6.3%	
Imports and exports								
Imports by origin								
<i>among which:</i>								
Netherlands	148	133	166	181	72	71	-1.4%	
United Kingdom	-	-	-	-	-	-	-	
Norway	-	-	-	-	-	-	-	
OPEC	-	-	-	-	-	-	-	
Imports by product								
<i>among which:</i>								
Motor spirit	519	549	553	555	595	574	-3.5%	
Kerosene and jet fuel	206	243	281	323	319	331	3.8%	
Gas/diesel oil	978	1 014	1 125	1 134	1 333	1 416	6.2%	
Residual fuel oil	80	37	7	5	6	7	16.7%	
Exports by product								
<i>among which:</i>								
Motor spirit	-	2	3	4	3	3	0.0%	
Kerosene and jet fuel	-	-	-	-	-	-	-	
Gas/diesel oil	1	2	5	6	8	21	162.5%	
Residual fuel oil	-	-	-	-	-	-	-	
Consumption								
Inputs to electricity plants	7	4	-	-	-	-	-	
Inputs to heating plants	-	-	-	-	-	-	-	
Non-energy use	23	18	18	22	14	12	-14.3%	
Final energy consumption	1 777	1 856	1 942	2 058	2 213	2 356	6.5%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	51	58	60	56	50	45	-10.0%	
Residual fuel oil	74	36	7	5	6	7	16.7%	

 eurostat	LUXEMBURG							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Industry								
<i>among which by sector:</i>								
Iron&steel industry	65	37	18	21	9	6	-33.3%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	28	16	8	7	5	5	0.0%	
Non-met. mineral prod.	10	10	10	10	8	8	0.0%	
Food, drink, tobacco	4	5	4	5	4	3	-25.0%	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	20	27	38	31	40	39	-2.5%	
Transport	1 309	1 419	1 503	1 648	1 821	1 928	5.9%	
<i>among which:</i>								
Motor spirit	519	539	541	559	578	569	-1.6%	
Jet fuel	200	244	275	323	312	337	8.0%	
Diesel oil	588	635	685	764	929	1 019	9.7%	
Services & households etc.	339	340	359	334	321	362	12.8%	
<i>among which:</i>								
Gas oil	327	328	344	323	310	348	12.3%	
Residual fuel oil	-	-	-	-	-	-	-	
Stocks at end of period								
Crude oil and feedstocks	-	-	-	-	-	-	-	
Petroleum products	107	99	134	88	136	108	-20.6%	


5. Natural gas

 eurostat	LUXEMBURG						
	in TJ (GCV)						
	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply							
Primary production	-	-	-	-	-	-	-
Total imports	28 430	29 131	29 434	30 511	31 191	32 311	3.6%
Total exports	-	-	-	-	-	-	-
Stock changes	-	-	-	-	-	-	-
Gross inland consumption	28 430	29 131	29 434	30 511	31 191	32 311	3.6%
Imports							
Imports by origin							
<i>among which:</i>							
CIS	-	-	-	-	-	3 792	-
Algeria	-	-	-	-	-	-	-
Norway	26 039	26 593	27 240	28 536	28 775	28 519	-0.9%
Consumption							
Inputs to electricity plants	2 081	1 930	1 895	1 962	2 195	2 662	21.3%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	-	-	-	-	-	-	-
Distribution losses	114	63	101	132	21	-	-
Non-energy use	-	-	-	-	-	-	-
Industry	16 235	17 795	17 379	18 518	19 191	18 889	-1.6%
<i>among which:</i>							
Iron&steel industry	6 802	6 852	6 100	6 601	6 868	7 025	2.3%
Non-ferrous metals	-	-	-	-	-	-	-
Chemical industry	-	-	-	-	-	-	-
Non-met. mineral prod.	-	-	-	-	-	-	-
Food, drink, tobacco	-	-	-	-	-	-	-
Pulp, paper and print	-	-	-	-	-	-	-
Engineering & metal	-	-	-	-	-	-	-
Other industries	9 433	10 943	11 279	11 917	12 323	11 864	-3.7%
Transport	-	-	-	-	-	-	-
Services & households etc.	10 000	9 343	10 058	9 899	9 784	10 760	10.0%
<i>among which:</i>							
Households	10 000	9 343	10 058	9 899	9 784	10 760	10.0%
Services	-	-	-	-	-	-	-


6.1 Hard coal


 eurostat	LUXEMBURG							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production	-	-	-	-	-	-	-	-
Total imports	242	194	152	153	171	152	-11.1%	
Total exports	-	-	-	-	-	-	-	
Stock changes	-	-	-	-	-	-	-	
Gross inland consumption	242	194	152	153	171	152	-11.1%	
Imports								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	
Poland	-	-	-	-	-	-	-	
CIS	-	-	-	-	-	-	-	
Australia	-	-	-	-	-	-	-	
South Africa	107	99	91	90	114	81	-28.9%	
Colombia	-	-	-	-	-	-	-	
Consumption								
Inputs to electricity plants								
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry								
<i>among which:</i>								
Iron&steel industry	106	75	42	41	39	38	-2.6%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	136	119	110	112	132	114	-13.6%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	-	-	-	-	-	-	-	
Structural data								
Personnel employed underground								
(annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines								
(end of year)	-	-	-	-	-	-	-	

6.2 Coal derivatives and peat

	LUXEMBURG						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	5 302	2 940	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	267	145	-	-	-	-	-
<i>among which:</i>							
Iron & steel industry	267	145	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	10	5	4	3	2	2	0.0%
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	10	5	4	3	2	2	0.0%
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	2 513	1 401	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	2 228	1 346	-	-	-	-	-
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	-	-	-	-	-	-	-
Consumption in industry	2 513	1 401	-	-	-	-	-

7. Renewable energy sources

		LUXEMBURG						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	40	47	50	46	57	50	-11.5%
Hydro (excl. pumping)		5	7	10	8	10	2	-83.3%
Wind		-	0	1	2	2	2	-3.7%
Solar		-	-	-	-	-	0	
Geothermal		-	-	-	-	-	-	-
Biomass		35	40	40	36	44	46	4.8%
	<i>among which:</i>							
Wood, wood-waste		15	15	15	15	16	16	0.0%
Municipal solid waste		18	23	23	20	27	28	2.3%
Biogas		2	1	2	0	1	2	265.2%
Gross inland consumption		40	47	50	46	57	50	-11.5%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		19	24	24	20	28	30	7.5%
	<i>among which:</i>							
Wood, wood-waste		-	-	-	-	-	-	-
Municipal waste		18	23	23	20	27	28	2.3%
Biogas		2	1	2	0	1	2	265.2%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	15	15	15	15	16	16	0.3%
	<i>by sector:</i>							
Industry		-	-	-	-	-	-	-
Services & households etc.		15	15	15	15	16	16	0.3%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		15	15	15	15	16	16	0.0%
	<i>among which:</i>							
Wood, wood-waste		15	15	15	15	16	16	0.0%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	1	
Hydro with installed capacity < 1 MW		3	5	5	5	6	6	0.0%
Hydro with installed capacity > 1 & <10 MW		59	84	118	80	114	127	11.4%
Hydro with installed capacity > 10 MW		-	-	-	-	-	-	-
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		38	46	45	50	52	51	-1.9%
Biogas		-	-	1	1	4	8	100.0%

		LUXEMBURG						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		1	1	1	2	2	2	0.0%
Hydro with installed capacity > 1 & <10 MW		34	34	34	37	37	38	2.7%
Hydro with installed capacity > 10 MW		-	-	-	-	-	-	-
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		10	10	9	9	9	9	0.0%
Biogas		-	-	-	-	-	-	-
Liquid biofuels								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
Solar Panels								
Solar panel surface	<i>1000 m²</i>	1	1	2	2	2	2	0.0%


1. Energy economy

Key figures and energy indicators

eurostat		NETHERLANDS					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	73 717	65 520	62 684	59 209	56 912	60 634
Net energy imports		14 029	22 712	23 466	25 889	34 271	31 409
Net oil imports		35 117	36 469	36 474	36 648	41 670	41 694
Net gas imports		-30 889	-25 247	-22 688	-19 542	-17 191	-20 172
Gross inland energy consumption		76 254	75 035	75 010	74 475	75 601	77 587p
Final energy consumption		51 415	49 116	49 250	48 476	49 773	50 696
Industry		13 181	13 198	13 094	12 803	13 782	13 773
Transport		13 116	13 489	13 608	13 767	13 820	14 233
Services and households etc.		25 118	22 430	22 548	21 906	22 172	22 690
Gross electricity generation	GWh	85 325	86 659	90 898	86 396	89 615	93 747
Final electricity consumption		86 192	89 515	92 744	94 722	97 938	99 428
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	326 968	339 519	354 286	368 442	380 654	385 458
Population	1000 per.	15 531	15 609	15 707	15 812	15 926	16 046
Industry added value	Mio EUR	83 621	84 287	86 339	88 206	91 645	93 036
Total imports (current prices)	Mio EUR	170 582	186 853	202 803	215 643	235 851	237 845
among which:							
All energy commodities		11 696	12 622	5 094	13 982	24 671	22 138
Oil products		10 082	10 627	3 203	12 055	21 485	17 387
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	233.2	221.0	211.7	202.1	198.6	201.3
Final energy consumption / GDP(95)		157.2	144.7	139.0	131.6	130.8	131.5
Energy intensity of industry:							
Final consumption / gross value-added mp		157.6	156.6	151.7	145.2	150.4	148.0
Energy intensity of service sector:							
Final consumption / gross value-added mp		42.0	35.0	35.4	31.6	32.3	32.0
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	4 910	4 807	4 776	4 710	4 747	4 835
Final energy consumption / capita		3 310	3 147	3 136	3 066	3 125	3 159
Household consumption / capita		795	686	659	653	646	657
Electricity consumption / capita	kWh/cap.	6 142	6 325	6 506	6 602	6 754	6 861
Energy dependency							
Net energy imports / Gross consumption	in %	16.0	26.1	26.9	29.7	38.6	34.1
Net oil imports / Gross consumption		40.1	41.9	41.8	42.1	46.9	45.2
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	67.4	65.5	65.7	65.1	65.8	65.3
Efficiency of thermal power stations		49.4	51.4	52.5	51.1	55.5	54.1

2. Energy balance

Principal aggregates by product

 eurostat	NETHERLANDS						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	73 717	65 520	62 684	59 209	56 912	60 634	6.5%
among which:							
Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	3 144	2 960	2 681	2 556	2 373	2 285	-3.7%
Natural Gas	68 344	60 591	57 613	54 118	51 904	55 713	7.3%
Nuclear heat	1 037	591	937	988	1 013	1 026	1.3%
Hydro-electricity	7	8	9	8	12	10	-17.6%
Biomass	1 143	1 324	1 383	1 476	1 529	1 519	-0.7%
Imports							
Total	110 207	117 296	118 280	118 850	134 404	144 123	7.2%
among which:							
Hard coal	10 782	13 003	14 207	11 755	13 709	18 575	35.5%
Crude oil and feedstocks	62 403	61 267	62 511	59 745	61 141	61 400	0.4%
Petroleum products	31 727	36 415	35 041	37 286	44 567	46 532	4.4%
Natural Gas	4 080	5 174	5 164	7 751	12 475	15 323	22.8%
Electricity	971	1 127	1 052	1 927	1 973	1 848	-6.3%
Exports							
Total	96 178	94 583	94 814	92 961	100 132	112 714	12.6%
among which:							
Crude oil and feedstocks	853	520	345	310	186	358	92.9%
Petroleum products	58 159	60 693	60 733	60 074	63 853	65 880	3.2%
Natural gas	34 969	30 420	27 853	27 294	29 666	35 495	19.6%
Electricity	60	41	36	341	347	362	4.4%
Gross inland consumption							
Total	76 254	75 035	75 010	74 475	75 601	77 587p	2.6%
among which:							
Solid fuels	9 128	9 124	9 246	7 486	7 979	8 334	4.5%
Crude oil and petrol. prod.	26 461	27 290	27 159	28 034	28 442	29 374	3.3%
Natural gas	37 461	35 333	34 946	34 581	34 711	35 547	2.4%
Nuclear Energy	1 037	591	937	988	1 013	1 026	1.3%
Renewables	1 192	1 378	1 454	1 547	1 622	1 610	-0.7%
Transformation input							
Total	104 067	103 247	104 656	100 720	103 918	106 447p	2.4%
among which:							
Crude oil and feedstocks	81 260	80 949	81 538	77 924	82 188	83 510	1.6%
Petroleum products	866	735	709	1 470	618	653	5.6%
Hard coal	8 814	7 965	8 130	6 809	7 173	7 491	4.4%
Lignite and peat	-	-	-	-	-	-	-
Renewables	854	1 027	1 076	1 160	1 220	1 302	6.7%
Transformation output							
Total	93 596	93 294	94 224	89 793	94 049	95 615	1.7%
among which:							
Electricity	7 292	7 403	7 770	7 390	7 622	7 980	4.7%
Heat	1 994	2 073	2 333	2 518	2 631	2 606	-1.0%

NETHERLANDS

1996	1997	1998	1999	2000	2001	01/00
------	------	------	------	------	------	-------

Final energy consumption

Total	51 415	49 116	49 250	48 476	49 773	50 696	1.9%
<i>among which:</i> Solid fuels	1 405	1 576	1 481	1 445	1 294	1 342	3.7%
Petroleum products	15 554	15 858	16 017	16 032	16 497	16 506	0.1%
Natural Gas	24 568	21 435	21 030	19 994	20 600	21 036	2.1%
Renewables	289	296	308	316	309	217	-29.7%
Electricity	7 411	7 697	7 975	8 145	8 421	8 549	1.5%

Final energy consumption by sector
Industry

Total	13 181	13 198	13 094	12 803	13 782	13 773	-0.1%
<i>among which:</i> Solid fuels	1 371	1 537	1 449	1 406	1 266	1 310	3.5%
Petroleum Products	1 128	1 066	1 137	842	1 632	1 602	-1.8%
Natural Gas	6 141	5 879	5 790	5 713	5 743	5 358	-6.7%
Renewables	51	60	71	73	69	69	0.0%
Electricity	3 209	3 326	3 386	3 439	3 491	3 494	0.1%


Transport

Total	13 116	13 489	13 608	13 767	13 820	14 233	3.0%
<i>among which:</i> Motor spirit	4 409	4 356	4 321	4 355	4 242	4 334	2.2%
Diesel oil	4 990	5 191	5 089	5 175	5 472	5 942	8.6%
Jet fuel	2 768	2 997	3 261	3 388	3 343	3 250	-2.8%
Electricity	135	135	140	141	140	136	-3.3%


Services&households

Total	25 118	22 430	22 548	21 906	22 172	22 690	2.3%
<i>among which:</i> Solid fuels	35	39	32	39	28	31	13.9%
Gas oil	1 241	1 241	1 186	1 384	1 031	614	-40.4%
Natural Gas	18 427	15 556	15 241	14 281	14 857	15 679	5.5%
Renewables	238	236	237	242	240	149	-38.2%
Electricity	4 067	4 236	4 448	4 565	4 790	4 920	2.7%
Heat	903	921	1 171	1 207	1 062	1 096	3.2%


3.1 Electricity balance

 eurostat	NETHERLANDS						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	85 325	86 659	90 898	86 396	89 615	93 747	4.6%
<i>among which:</i>							
Hydro	82	94	106	90	142	117	-17.6%
Wind	437	475	640	645	829	825	-0.5%
Geothermal	-	-	-	-	-	-	-
Nuclear	4 160	2 408	3 814	3 832	3 926	3 976	1.3%
Conventional thermal	80 646	83 682	86 338	81 829	84 718	88 829	4.9%
<i>of which:</i>							
Hard coal	24 050	22 983	24 169	19 000	22 600	23 720	5.0%
Lignite and peat	-	-	-	-	-	-	-
Petroleum products	3 910	3 619	3 528	6 565	3 131	3 112	-0.6%
Natural gas	47 280	50 543	51 981	49 552	51 713	55 263	6.9%
Derived gases	2 810	2 982	3 105	3 108	2 848	3 021	6.1%
Biomass	2 147	2 909	3 132	2 821	3 251	3 458	6.4%
Industrial wastes	449	646	423	783	1 175	255	-78.3%
Total net generation	81 760	83 103	87 394	82 895	85 951	89 888	4.6%
Imports and exports							
Total imports	11 288	13 107	12 234	22 408	22 946	21 492	-6.3%
Total exports	699	475	420	3 968	4 031	4 209	4.4%
Consumption and losses							
Consumption of the energy branch	6 128	6 041	6 314	6 438	6 503	7 402	13.8%
<i>of which:</i>							
Consumption for pumped-storage	-	-	-	-	-	-	-
Network losses	3 592	3 735	3 871	3 960	4 089	4 200	2.7%
Final energy consumption	86 192	89 515	92 744	94 722	97 938	99 428	1.5%
<i>of which:</i>							
Industry	37 324	38 684	39 378	39 993	40 600	40 637	0.1%
<i>among which:</i>							
Iron&steel industry	2 231	2 329	2 296	2 263	2 624	2 626	0.1%
Non-ferrous metals	4 790	4 919	5 468	5 693	5 949	5 802	-2.5%
Chemical industry	12 040	12 175	12 262	11 857	11 995	11 567	-3.6%
Non-met. mineral prod.	1 469	1 568	1 507	1 552	1 690	1 619	-4.2%
Food, drink, tobacco	6 387	6 294	6 448	6 343	6 387	6 819	6.8%
Pulp, paper and print	3 308	3 556	3 580	3 671	3 804	3 623	-4.8%
Engineering & metal	4 081	4 242	4 269	4 916	4 504	4 625	2.7%
Other industries	2 309	2 708	2 731	2 877	2 819	2 907	3.1%
Transport	1 566	1 571	1 630	1 639	1 630	1 577	-3.3%
Services & households etc.	47 302	49 260	51 736	53 090	55 708	57 214	2.7%
<i>among which:</i>							
Households	19 998	20 400	20 800	21 350	21 800	22 100	1.4%


3.2 Electrical capacity, fuel inputs and heat


		NETHERLANDS						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	20 395	20 091	20 158	20 619	20 999	20 311	-3.3%
<i>by source:</i>								
Conventional thermal		19 554	19 272	19 311	19 724	20 070	19 344	-3.6%
<i>of which:</i>								
Steam		12 417	10 776	10 062	10 081	10 945	9 421	-13.9%
Gas turbine		1 254	800	800	800	1 334	1 298	-2.7%
Combined cycle		4 827	4 898	5 000	5 393	6 266	7 229	15.4%
Internal combustion		1 056	650	700	700	1 525	1 396	-8.5%
Nuclear		505	449	449	449	449	449	0.0%
Hydro		37	37	37	37	38	38	0.0%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		299	333	361	409	442	480	8.6%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		18 264	17 921	17 387	17 840	18 214	17 881	-1.8%
Autoproducers		2 160	2 220	2 823	2 835	2 844	2 451	-13.8%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	18 052	18 031	18 593	18 729	17 847	18 904p	5.9%
<i>among which:</i>								
Hard coal		5 945	5 158	5 425	4 590	5 114	5 368	5.0%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		866	735	709	1 470	618	653	5.6%
Natural gas		9 694	10 219	10 445	10 566	10 441	11 164	6.9%
Renewables		854	1 027	1 076	1 160	1 220	1 302	6.7%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
Heat production and consumption								
Total heat production	TJ	1 994	2 073	2 333	2 518	2 631	2 606	-1.0%
<i>among which: in heating plants</i>								
		4	5	6	7	8	10	15.3%
Heat consumption		1 695	1 757	1 983	2 140	2 236	2 606	16.5%
<i>of which: in industry</i>								
		792	836	812	933	1 174	1 510	28.6%
<i>in households and services</i>								
		903	921	1 171	1 207	1 062	1 096	3.2%
<i>among which: in households</i>								
		186	176	197	203	150	164	9.6%

4.1 Crude oil and feedstocks


 in 1 000 t		NETHERLANDS						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		3 103	2 930	2 661	2 535	2 350	2 263	-3.7%
Total imports		61 590	60 639	62 053	59 251	60 553	60 810	0.4%
Total exports		842	515	342	307	184	355	92.9%
Stock changes		-353	342	153	-187	-931	-584	37.3%
Refinery intake		80 170	80 040	80 816	77 173	81 294	82 598	1.6%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		34 566	34 808	37 410	33 685	30 856	28 982	-6.1%
Near and Middle East		18 533	22 118	32 619	28 906	25 085	22 670	-9.6%
Africa		7 286	5 731	4 910	4 265	5 608	6 851	22.2%
<i>by country of origin:</i>								
Algeria		3 984	3 801	4 351	4 035	4 780	4 666	-2.4%
Nigeria		3 022	1 874	384	158	455	1 387	204.8%
Saudi Arabia		13 460	16 024	14 967	11 560	12 265	10 539	-14.1%
Kuwait		8 409	6 561	7 603	4 979	6 177	6 031	-2.4%
United Arab Emirates		31	76	-	-	141	-	
Norway		15 111	12 918	11 755	10 633	11 340	10 782	-4.9%
Refining capacity								
Capacity at the end of year	1 000 t/year	59 400	59 400	61 780	61 780	59 600	:	
<i>among which:</i>								
Cracking and others		22 600	20 900	21 950	21 950	24 520	:	
Reforming		7 400	5 100	6 270	6 270	7 370	:	

4.2 Petroleum products


 eurostat	NETHERLANDS						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Production and supply							
Total refinery output	79 715	79 497	80 066	76 264	80 235	81 306	1.3%
<i>among which:</i>							
Motor spirit	14 943	14 176	14 976	13 251	14 314	14 476	1.1%
Kerosene and jet fuel	6 530	6 158	6 529	7 162	7 487	7 068	-5.6%
Naphtha	10 680	11 265	9 646	9 122	11 303	12 116	7.2%
Gas/diesel oil	21 354	21 201	21 251	21 682	21 994	22 167	0.8%
Residual fuel oil	13 324	13 245	14 448	11 146	11 215	10 780	-3.9%
Total imports	31 698	36 498	34 995	37 364	44 672	46 864	4.9%
Total exports	57 774	60 333	60 433	59 693	63 442	65 714	3.6%
Bunkers	11 812	12 536	12 638	13 063	13 788	15 140	9.8%
Stock changes	-162	-379	-6	1 546	-1 354	602	
Gross inland consumption	-37 965	-36 750	-38 008	-33 800	-33 912	-33 388	-1.5%
Imports and exports							
Imports by origin							
<i>among which:</i>							
Netherlands	-	-	-	-	-	-	-
United Kingdom	2 567	4 458	3 929	4 101	5 203	4 527	-13.0%
Norway	852	1 329	1 105	873	874	539	-38.3%
OPEC	2 477	3 488	3 112	3 064	2 534	1 794	-29.2%
Imports by product							
<i>among which:</i>							
Motor spirit	3 026	3 650	5 443	5 394	7 516	6 176	-17.8%
Kerosene and jet fuel	1 043	1 144	1 005	1 364	1 297	1 565	20.7%
Gas/diesel oil	7 714	9 009	8 559	7 332	8 007	9 239	15.4%
Residual fuel oil	7 402	7 924	7 026	9 456	13 059	14 695	12.5%
Exports by product							
<i>among which:</i>							
Motor spirit	9 293	9 316	10 634	11 283	12 746	11 451	-10.2%
Kerosene and jet fuel	4 090	3 674	3 701	4 435	4 440	4 175	-6.0%
Gas/diesel oil	20 044	21 228	20 898	19 831	19 418	22 097	13.8%
Residual fuel oil	8 740	9 166	9 688	7 995	10 210	10 894	6.7%
Consumption							
Inputs to electricity plants	852	777	739	1 370	616	647	5.0%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	5 217	6 271	6 029	6 556	7 256	7 586	4.5%
Final energy consumption	14 995	15 292	15 438	15 501	15 865	15 893	0.2%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	212	202	207	224	219	168	-23.3%
Residual fuel oil	91	53	60	45	39	44	12.8%

 eurostat	NETHERLANDS						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Industry							
<i>among which by sector:</i>							
Iron&steel industry	4	5	5	3	4	4	0.0%
Non-ferrous metals	-	-	-	-	7	-	
Chemical industry	694	674	727	476	1 161	1 207	4.0%
Non-met. mineral prod.	87	50	52	42	33	30	-9.1%
Food, drink, tobacco	34	25	25	35	16	20	25.0%
Pulp, paper and print	3	3	2	1	1	2	100.0%
Engineering & metal	23	20	22	18	22	21	-4.5%
Other industries	134	130	136	144	153	121	-20.9%
Transport	12 571	12 938	13 049	13 209	13 274	13 690	3.1%
<i>among which:</i>							
Motor spirit	4 195	4 145	4 112	4 144	4 036	4 124	2.2%
Jet fuel	2 695	2 918	3 175	3 299	3 255	3 164	-2.8%
Diesel oil	4 939	5 138	5 037	5 122	5 416	5 881	8.6%
Services & households etc.	1 419	1 416	1 390	1 542	1 165	791	-32.1%
<i>among which:</i>							
Gas oil	1 228	1 228	1 174	1 370	1 020	608	-40.4%
Residual fuel oil	-	10	20	23	2	27	
Stocks at end of period							
Crude oil and feedstocks	4 433	3 112	3 938	4 125	5 056	5 640	11.6%
Petroleum products	7 961	8 340	8 346	6 800	8 154	7 552	-7.4%


5. Natural gas

 eurostat	NETHERLANDS							
	in TJ (GCV)		1996	1997	1998	1999	2000	2001
Primary production and supply								
Primary production		3 179 381	2 818 715	2 680 135	2 517 547	2 414 593	2 591 786	7.3%
Total imports		189 802	240 674	240 252	360 586	580 346	712 810	22.8%
Total exports		1 626 777	1 415 150	1 295 709	1 269 699	1 380 051	1 651 219	19.6%
Stock changes		264	-541	1 007	270	-150	276	
Gross inland consumption		1 742 670	1 643 698	1 625 685	1 608 704	1 614 738	1 653 653	2.4%
Imports								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		178 013	218 117	208 923	221 184	253 118	258 626	2.2%
Consumption								
Inputs to electricity plants		450 957	475 369	485 898	491 520	485 721	519 356	6.9%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		57 608	65 763	69 806	69 210	67 330	64 319	-4.5%
Distribution losses		-	-	-	-	-	-	-
Non-energy use		116 499	124 978	118 869	117 864	116 589	102 872	-11.8%
Industry		285 667	273 507	269 328	265 747	267 167	249 231	-6.7%
<i>among which:</i>								
Iron&steel industry		14 673	14 418	14 347	14 668	14 740	14 833	0.6%
Non-ferrous metals		4 118	4 479	4 211	3 940	4 195	3 878	-7.6%
Chemical industry		116 171	108 101	105 380	95 989	99 518	89 304	-10.3%
Non-met. mineral prod.		28 337	29 388	27 579	27 834	28 657	28 066	-2.1%
Food, drink, tobacco		60 804	57 619	58 457	62 158	57 768	53 732	-7.0%
Pulp, paper and print		17 972	18 143	16 967	17 023	17 652	15 828	-10.3%
Engineering & metal		26 117	24 635	24 875	25 464	24 205	24 560	1.5%
Other industries		9 641	8 809	9 274	9 463	10 850	10 541	-2.8%
Transport		-	-	-	-	-	-	-
Services & households etc.		857 246	723 642	709 006	664 363	691 151	729 367	5.5%
<i>among which:</i>								
Households		469 520	393 904	374 560	371 044	370 692	385 112	3.9%
Services		230 034	171 473	175 446	138 219	172 961	197 102	14.0%


6.1 Hard coal


 eurostat	NETHERLANDS							
	in 1 000 t		1996	1997	1998	1999	2000	2001
Primary production and supply								
Primary production		-	-	-	-	-	-	-
Total imports		16 846	20 317	22 198	19 002	22 295	30 336	36.1%
Total exports		2 360	3 522	7 985	7 240	9 122	16 745	83.6%
Stock changes		477	-2 001	774	327	-245	-131	46.5%
Gross inland consumption		14 963	14 794	14 987	12 089	12 928	13 460	4.1%
Imports								
Imports by origin								
<i>among which:</i>								
USA		4 365	4 567	3 274	2 734	2 862	2 580	-9.9%
Poland		1 138	1 173	2 414	1 607	1 565	957	-38.8%
CIS		114	264	246	345	174	953	447.7%
Australia		826	1 812	2 920	2 781	3 013	2 486	-17.5%
South Africa		2 900	4 167	5 524	4 789	5 269	10 466	98.6%
Colombia		4 045	4 146	3 708	3 433	4 805	5 810	20.9%
Consumption								
Inputs to electricity plants		8 926	8 799	9 317	7 884	8 590	9 156	6.6%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		-	-	-	-	-	-	-
Industry								
<i>among which:</i>								
Iron&steel industry		1 000	1 215	1 207	1 172	1 052	1 212	15.2%
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		19	38	34	46	54	-	-
Non-met. mineral prod.		12	41	19	38	16	13	-18.8%
Food, drink, tobacco		28	40	37	31	36	36	0.0%
Pulp, paper and print		-	-	-	-	-	-	-
Engineering & metal		-	-	-	-	-	-	-
Other industries		-	-	-	-	-	-	-
Services & households etc.		33	43	31	50	31	35	12.9%
Structural data								
Personnel employed underground (annual mean in 1000's)		-	-	-	-	-	-	-
Number of active hard coal mines (end of year)		-	-	-	-	-	-	-

6.2 Coal derivatives and peat

	NETHERLANDS						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	2 921	2 905	2 837	2 327	2 127	2 214	4.1%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	27 115	26 383	24 098	19 766	18 875	19 268	2.1%
Blast-furnace gas	35 548	36 449	36 955	36 011	33 970	37 015	9.0%
Gasworks gas	-	-	-	-	-	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	898	868	794	730	691	638	-7.7%
<i>among which:</i>							
Iron & steel industry	849	797	726	661	621	571	-8.1%
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	2	2	-	-	-	-
<i>among which:</i>							
Services & households	-	2	2	-	-	-	-
Lignite and peat	31	41	19	35	44	57	29.5%
<i>among which:</i>							
Industry	19	27	2	16	26	35	34.6%
Services & households	12	14	17	19	18	22	22.2%
Brown coal briquettes	31	1	1	1	1	-	-
<i>among which:</i>							
Industry	19	-	-	-	-	-	-
Services & households	12	1	1	1	1	-	-
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	10 362	10 632	9 366	7 901	7 356	7 260	-1.3%
Blast-furnace gas	11 114	11 025	10 409	9 535	10 438	11 488	10.1%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	26 749	27 969	29 129	29 167	10 547	9 009	-14.6%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	11 154	11 100	11 054	9 104	8 329	8 956	7.5%
Consumption in industry	21 476	21 657	19 775	17 436	17 794	18 748	5.4%


7. Renewable energy sources

		NETHERLANDS						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	1 192	1 378	1 454	1 547	1 622	1 610	-0.7%
Hydro (excl. pumping)		7	8	9	8	12	10	-17.6%
Wind		38	41	55	55	71	71	-0.5%
Solar		4	5	6	7	9	10	14.1%
Geothermal		-	-	-	-	-	-	-
Biomass		1 143	1 324	1 383	1 476	1 529	1 519	-0.7%
	<i>among which:</i>							
Wood, wood-waste		244	254	267	267	300	321	7.1%
Municipal solid waste		774	943	994	1 090	1 097	1 060	-3.4%
Biogas		125	126	122	119	132	138	4.1%
Gross inland consumption		1 192	1 378	1 454	1 547	1 622	1 610	-0.7%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		854	1 027	1 076	1 160	1 220	1 302	6.7%
	<i>among which:</i>							
Wood, wood-waste		-	-	-	-	45	141	215.1%
Municipal waste		774	943	994	1 090	1 097	1 060	-3.4%
Biogas		80	84	81	70	78	100	28.5%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	293	302	314	323	317	227	-28.5%
	<i>by sector:</i>							
Industry		51	60	71	73	69	69	0.0%
Services & households etc.		242	241	243	249	249	158	-36.4%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		289	296	308	316	309	217	-29.7%
	<i>among which:</i>							
Wood, wood-waste		244	254	267	267	255	180	-29.4%
Municipal waste		-	-	-	-	-	-	-
Biogas		45	42	41	49	54	37	-31.0%
Geothermal		-	-	-	-	-	-	-
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		1	2	3	6	8	14	75.0%
Hydro with installed capacity < 1 MW		1	1	1	1	1	-	-
Hydro with installed capacity > 1 & <10 MW		-	-	-	-	-	-	-
Hydro with installed capacity > 10 MW		79	91	105	90	142	117	-17.6%
Wood, Wood-waste		-	-	-	-	378	670	77.2%
Municipal waste		1 877	2 621	2 860	2 535	2 574	2 487	-3.4%
Biogas		270	288	272	286	299	301	0.7%

		NETHERLANDS						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		3	4	6	10	13	21	61.5%
Hydro with installed capacity < 1 MW		2	2	2	2	2	-	
Hydro with installed capacity > 1 & <10 MW		-	-	-	-	-	-	
Hydro with installed capacity > 10 MW		35	35	35	35	36	38	5.6%
Wood, Wood-waste		-	-	-	-	-	-	
Municipal waste		359	395	395	395	424	414	-2.4%
Biogas		-	-	-	-	-	-	
Liquid biofuels								
Production	<i>1000 t</i>	-	-	-	-	-	-	
Solar Panels								
Solar panel surface	<i>1000 m²</i>	169	197	231	258	309	358	15.9%


1. Energy economy

Key figures and energy indicators

		AUSTRIA					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	8 397	8 500	8 654	9 255	9 379	9 546
Net energy imports		19 707	18 635	20 311	18 883	18 794	19 638
Net oil imports		11 014	10 502	12 121	11 037	10 660	11 317
Net gas imports		5 594	5 129	5 280	5 190	5 253	5 029
Gross inland energy consumption		28 313	28 064	28 890	28 569	28 415	30 348
Final energy consumption		21 618	21 317	21 907	21 906	22 372	23 563
Industry		4 917	6 248	6 523	5 823	6 566	6 334
Transport		6 127	5 856	6 098	6 488	6 523	6 917
Services and households etc.		10 574	9 213	9 286	9 595	9 284	10 311
Gross electricity generation	GWh	54 938	56 873	57 462	60 514	61 821	64 074
Final electricity consumption		47 541	48 102	48 896	50 499	51 796	55 558
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	183 440	186 363	193 671	198 974	206 004	207 384
Population	1000 per.	8 059	8 072	8 079	8 093	8 112	8 130
Industry added value	Mio EUR	53 641	55 417	57 836	59 396	62 050	61 981
Total imports (current prices)	Mio EUR	70 978	79 517	84 192	91 621	101 821	105 495
among which:							
All energy commodities		2 453	3 019	2 551	2 883	4 901	5 504
Oil products		1 851	1 913	1 520	1 951	3 398	3 279
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	154.3	150.6	149.2	143.6	137.9	146.3
Final energy consumption / GDP(95)		117.8	114.4	113.1	110.1	108.6	113.6
Energy intensity of industry:							
Final consumption / gross value-added mp		91.7	112.7	112.8	98.0	105.8	102.2
Energy intensity of service sector:							
Final consumption / gross value-added mp		19.1	18.7	19.7	18.7	16.8	18.7
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	3 513	3 477	3 576	3 530	3 503	3 733
Final energy consumption / capita		2 682	2 641	2 712	2 707	2 758	2 898
Household consumption / capita		957	791	774	821	798	886
Electricity consumption / capita	kWh/cap.	2 520	2 328	2 295	2 080	2 082	2 538
Energy dependency							
Net energy imports / Gross consumption	in %	69.6	66.4	70.3	66.1	66.1	64.7
Net oil imports / Gross consumption		38.9	37.4	42.0	38.6	37.5	37.3
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	76.4	76.0	75.8	76.7	78.7	77.6
Efficiency of thermal power stations		49.6	50.5	55.1	51.6	56.3	60.9

2. Energy balance

Principal aggregates by product

 eurostat	AUSTRIA						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	8 397	8 500	8 654	9 255	9 379	9 546	1.8%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	260	265	267	266	293	283	-3.4%
Crude oil	1 055	1 008	1 055	1 044	1 054	991	-6.0%
Natural Gas	1 270	1 215	1 335	1 478	1 533	1 492	-2.7%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	2 942	3 104	3 196	3 482	3 598	3 597	0.0%
Biomass	2 824	2 853	2 739	2 910	2 819	3 089	9.6%
Imports							
Total	21 631	21 128	22 912	21 786	21 699	23 019	6.1%
<i>among which:</i> Hard coal	2 455	2 489	2 460	2 371	2 326	2 538	9.1%
Crude oil and feedstocks	8 375	8 985	9 163	8 307	7 841	8 311	6.0%
Petroleum products	3 763	3 040	4 520	4 322	4 243	4 619	8.9%
Natural Gas	5 594	5 129	5 297	5 190	5 268	5 377	2.1%
Electricity	811	774	886	998	1 189	1 244	4.7%
Exports							
Total	1 925	2 493	2 602	2 903	2 905	3 381	16.4%
<i>among which:</i> Crude oil and feedstocks	-	25	-	52	137	105	-23.2%
Petroleum products	1 124	1 499	1 562	1 541	1 286	1 507	17.2%
Natural gas	-	-	16	-	15	348	
Electricity	729	840	900	1 161	1 306	1 225	-6.2%
Gross inland consumption							
Total	28 313	28 064	28 890	28 569	28 415	30 348	6.8%
<i>among which:</i> Solid fuels	3 393	3 606	3 157	3 260	3 588	3 744	4.4%
Crude oil and petrol. prod.	12 051	11 820	12 931	12 084	11 822	12 735	7.7%
Natural gas	6 785	6 539	6 713	6 831	6 519	6 973	7.0%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	5 847	6 000	5 968	6 418	6 451	6 727	4.3%
Transformation input							
Total	16 627	17 333	16 794	16 442	14 990	15 759	5.1%
<i>among which:</i> Crude oil and feedstocks	9 510	10 158	9 965	9 409	8 764	9 333	6.5%
Petroleum products	672	779	902	765	437	467	6.9%
Hard coal	2 258	2 410	2 206	2 122	2 245	2 435	8.5%
Lignite and peat	347	281	177	328	290	354	22.0%
Renewables	604	661	590	683	627	677	8.0%
Transformation output							
Total	14 087	14 665	14 437	13 821	12 918	13 738	6.4%
<i>among which:</i> Electricity	1 664	1 682	1 608	1 611	1 570	1 756	11.8%
Heat	1 190	1 086	1 137	1 167	1 070	1 158	8.3%



in 1 000 toe

AUSTRIA

1996 1997 1998 1999 2000 2001 01/00

Final energy consumption

Total	21 618	21 317	21 907	21 906	22 372	23 563	5.3%
<i>among which:</i> Solid fuels	892	899	808	732	756	644	-14.7%
Petroleum products	9 376	9 058	9 538	9 458	9 565	10 235	7.0%
Natural Gas	3 489	3 583	3 669	3 649	3 939	3 806	-3.4%
Renewables	2 255	2 180	2 120	2 178	2 143	2 358	10.0%
Electricity	4 088	4 136	4 204	4 342	4 454	4 777	7.3%

Final energy consumption by sector

Industry

Total	4 917	6 248	6 523	5 823	6 566	6 334	-3.5%
<i>among which:</i> Solid fuels	438	537	493	436	499	379	-23.9%
Petroleum Products	635	890	1 099	655	991	932	-6.0%
Natural Gas	1 412	2 106	2 133	1 855	2 087	1 852	-11.3%
Renewables	455	500	484	518	579	581	0.4%
Electricity	1 590	1 784	1 828	1 932	1 948	1 994	2.3%


Transport

Total	6 127	5 856	6 098	6 488	6 523	6 917	6.0%
<i>among which:</i> Motor spirit	2 288	2 168	2 203	2 149	2 079	2 092	0.7%
Diesel oil	2 995	2 827	3 053	3 514	3 564	3 931	10.3%
Jet fuel	510	532	553	542	586	570	-2.8%
Electricity	270	274	278	271	280	310	10.6%


Services&households

Total	10 574	9 213	9 286	9 595	9 284	10 311	11.1%
<i>among which:</i> Solid fuels	454	361	315	295	256	264	3.1%
Gas oil	2 309	2 271	2 265	2 225	1 978	2 325	17.5%
Natural Gas	2 052	1 461	1 537	1 795	1 852	1 954	5.5%
Renewables	1 795	1 675	1 629	1 653	1 556	1 767	13.6%
Electricity	2 227	2 078	2 098	2 139	2 225	2 474	11.2%
Heat	1 075	967	1 008	1 044	969	1 058	9.1%


3.1 Electricity balance

 eurostat	AUSTRIA						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	54 938	56 873	57 462	60 514	61 821	64 074	3.6%
<i>among which:</i>							
Hydro	35 580	37 293	38 716	41 727	43 498	43 483	0.0%
Wind	5	20	45	51	67	172	156.7%
Geothermal	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-
Conventional thermal	19 353	19 560	18 701	18 736	18 256	20 419	11.8%
<i>of which:</i>							
Hard coal	3 432	6 281	3 306	2 893	4 432	5 361	21.0%
Lignite and peat	1 400	1 250	825	1 496	1 293	1 599	23.7%
Petroleum products	1 831	2 392	2 785	2 419	1 643	2 004	22.0%
Natural gas	9 948	6 851	9 084	8 857	8 062	8 501	5.4%
Derived gases	937	1 026	1 009	1 100	1 038	970	-6.6%
Biomass	1 464	1 565	1 700	1 594	1 618	1 797	11.1%
Industrial wastes	341	195	-8	377	170	187	10.0%
Total net generation	53 444	55 287	56 022	59 022	59 985	62 449	4.1%
Imports and exports							
Total imports	9 428	9 007	10 304	11 608	13 824	14 467	4.7%
Total exports	8 476	9 775	10 467	13 507	15 192	14 252	-6.2%
Consumption and losses							
Consumption of the energy branch	3 739	3 630	3 511	3 561	3 743	3 764	0.6%
<i>of which:</i>							
Consumption for pumped-storage	374	233	275	251	258	256	-0.8%
Network losses	3 246	3 185	3 340	3 321	3 256	3 318	1.9%
Final energy consumption	47 541	48 102	48 896	50 499	51 796	55 558	7.3%
<i>of which:</i>							
Industry	18 497	20 753	21 264	22 470	22 657	23 187	2.3%
<i>among which:</i>							
Iron&steel industry	3 065	3 250	3 330	3 519	3 548	3 814	7.5%
Non-ferrous metals	412	615	630	666	672	722	7.4%
Chemical industry	2 539	2 950	3 023	3 194	3 221	3 462	7.5%
Non-met. mineral prod.	1 250	1 355	1 388	1 467	1 479	1 590	7.5%
Food, drink, tobacco	1 134	1 239	1 270	1 342	1 353	1 454	7.5%
Pulp, paper and print	4 096	4 816	4 935	5 215	5 258	4 487	-14.7%
Engineering & metal	1 152	1 168	1 198	1 266	1 276	1 371	7.4%
Other industries	3 826	4 098	4 198	4 436	4 473	4 807	7.5%
Transport	3 142	3 181	3 229	3 153	3 259	3 604	10.6%
Services & households etc.	25 902	24 168	24 403	24 876	25 880	28 767	11.2%
<i>among which:</i>							
Households	13 574	13 232	13 266	13 163	14 088	15 012	6.6%


3.2 Electrical capacity, fuel inputs and heat


		AUSTRIA						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	17 519	17 859	17 453	17 843	17 718	17 657	-0.3%
<i>by source:</i>								
Conventional thermal		6 142	6 307	5 982	6 160	6 134	6 038	-1.6%
<i>of which:</i>								
Steam		4 771	4 870	4 633	4 824	4 790	4 694	-2.0%
Gas turbine		286	313	256	256	256	257	0.4%
Combined cycle		954	993	979	968	968	980	1.2%
Internal combustion		131	131	114	112	120	107	-10.8%
Nuclear		-	-	-	-	-	-	-
Hydro		11 367	11 533	11 444	11 648	11 547	11 550	0.0%
<i>among which:</i>								
Pumped storage		2 975	2 975	3 937	3 568	3 568	3 568	0.0%
Wind		10	19	27	35	37	69	86.5%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		15 741	16 084	15 728	16 112	16 089	15 993	-0.6%
Autoproducers		1 779	1 776	1 726	1 732	1 630	1 665	2.1%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	4 966	4 810	4 370	4 596	4 000	4 160	4.0%
<i>among which:</i>								
Hard coal		804	945	698	601	941	1 122	19.3%
Lignite and peat		345	280	177	328	290	354	22.0%
Petroleum products		565	722	796	701	378	409	8.0%
Natural gas		2 531	2 062	2 057	2 224	1 733	1 714	-1.1%
Renewables		407	463	389	446	378	416	9.9%
Heating plants		307	457	506	502	457	469	2.8%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		2	1	-	-	-	-	-
Petroleum products		107	57	106	63	58	58	0.0%
Natural gas		-	200	199	193	140	140	-0.1%
Renewables		198	199	201	245	257	270	5.0%
Heat production and consumption								
Total heat production	TJ	1 190	1 086	1 137	1 167	1 070	1 158	8.3%
<i>among which: in heating plants</i>		391	339	335	406	386	381	-1.1%
Heat consumption		1 076	967	1 008	1 044	969	1 058	9.1%
<i>of which: in industry</i>		0	0	0	0	0	0	9.1%
<i>in households and services</i>		1 075	967	1 008	1 044	969	1 058	9.1%
<i>among which: in households</i>		417	408	417	465	455	513	12.6%

4.1 Crude oil and feedstocks


 eurostat	AUSTRIA							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		1 078	1 028	1 048	1 063	1 071	1 012	-5.5%
Total imports		8 530	9 135	9 097	8 436	7 950	8 470	6.5%
Total exports		-	25	-	53	137	106	-22.6%
Stock changes		18	55	-178	111	-17	114	
Refinery intake		9 687	10 324	9 895	9 555	8 891	9 510	7.0%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		5 737	6 322	5 904	5 176	4 526	4 853	7.2%
Near and Middle East		1 684	1 395	2 521	2 363	2 373	2 621	10.5%
Africa		4 717	4 094	3 713	3 257	2 446	3 246	32.7%
<i>by country of origin:</i>								
Algeria		1 429	1 468	888	927	739	520	-29.6%
Nigeria		1 624	1 385	994	695	986	1 390	41.0%
Saudi Arabia		1 089	1 214	903	515	595	641	7.7%
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		116	181	-	-	-	49	
Norway		-	-	-	-	-	-	-
Refining capacity								
Capacity at the end of year	1 000 t/year	10 500	10 500	10 000	10 000	10 330	:	
<i>among which:</i>								
Cracking and others		2 300	2 200	3 360	3 360	3 020	:	
Reforming		1 400	1 400	1 370	1 370	1 400	:	

4.2 Petroleum products


 eurostat	AUSTRIA						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Production and supply							
Total refinery output	9 714	10 304	9 829	9 414	8 769	9 352	6.6%
<i>among which:</i>							
Motor spirit	2 297	2 410	2 232	2 141	1 815	1 922	5.9%
Kerosene and jet fuel	485	508	542	509	545	514	-5.7%
Naphtha	-	-	628	-	-	-	-
Gas/diesel oil	3 606	3 916	3 895	3 675	3 724	3 959	6.3%
Residual fuel oil	1 441	1 540	1 347	1 308	979	1 047	6.9%
Total imports	3 749	3 038	4 519	4 313	4 247	4 608	8.5%
Total exports	1 114	1 477	1 536	1 530	1 306	1 536	17.6%
Bunkers	-	-	-	-	-	-	-
Stock changes	-35	261	-69	-114	138	316	129.0%
Gross inland consumption	2 600	1 822	2 914	2 669	3 079	3 388	10.0%
Imports and exports							
Imports by origin							
<i>among which:</i>							
Netherlands	56	19	47	53	61	30	-50.8%
United Kingdom	1	1	1	1	1	1	0.0%
Norway	-	-	-	-	-	-	-
OPEC	-	-	-	-	-	-	-
Imports by product							
<i>among which:</i>							
Motor spirit	612	547	759	762	670	603	-10.0%
Kerosene and jet fuel	36	24	28	40	43	45	4.7%
Gas/diesel oil	2 152	1 515	2 475	2 492	2 608	3 059	17.3%
Residual fuel oil	386	449	671	468	262	316	20.6%
Exports by product							
<i>among which:</i>							
Motor spirit	700	831	824	825	472	582	23.3%
Kerosene and jet fuel	6	3	14	6	7	2	-71.4%
Gas/diesel oil	97	271	468	459	416	415	-0.2%
Residual fuel oil	121	180	18	37	152	228	50.0%
Consumption							
Inputs to electricity plants	591	756	822	734	396	426	7.6%
Inputs to heating plants	111	59	111	66	61	61	0.0%
Non-energy use	1 213	1 351	1 887	1 352	1 337	1 424	6.5%
Final energy consumption	9 230	8 921	9 403	9 300	9 411	10 071	7.0%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	-	-	167	92	374	421	12.6%
Residual fuel oil	537	817	743	514	563	466	-17.2%

 eurostat	AUSTRIA						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Industry							
<i>among which by sector:</i>							
Iron&steel industry	125	296	284	193	208	174	-16.3%
Non-ferrous metals	14	18	20	14	15	13	-13.3%
Chemical industry	23	29	41	19	24	21	-12.5%
Non-met. mineral prod.	125	156	151	108	122	104	-14.8%
Food, drink, tobacco	56	63	70	42	46	40	-13.0%
Pulp, paper and print	79	103	100	65	72	60	-16.7%
Engineering & metal	62	61	120	26	49	45	-8.2%
Other industries	123	140	258	167	410	427	4.1%
Transport	5 671	5 414	5 660	6 055	6 081	6 441	5.9%
<i>among which:</i>							
Motor spirit	2 177	2 063	2 096	2 045	1 978	1 991	0.7%
Jet fuel	497	518	538	528	571	555	-2.8%
Diesel oil	2 964	2 798	3 022	3 478	3 528	3 891	10.3%
Services & households etc.	2 909	2 589	2 608	2 574	2 324	2 687	15.6%
<i>among which:</i>							
Gas oil	2 285	2 248	2 242	2 202	1 958	2 301	17.5%
Residual fuel oil	538	264	273	275	278	302	8.6%
Stocks at end of period							
Crude oil and feedstocks	1 398	1 340	1 518	1 448	1 443	1 363	-5.5%
Petroleum products	1 646	1 670	1 720	1 850	1 700	1 393	-18.1%


5. Natural gas

 eurostat	in TJ (GCV)	AUSTRIA						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		59 083	56 545	62 084	68 777	71 308	69 414	-2.7%
Total imports		260 237	238 603	246 410	241 433	245 062	250 147	2.1%
Total exports		-	-	767	-	696	16 184	
Stock changes		-3 683	9 059	4 585	7 554	-12 424	21 004	-269.1%
Gross inland consumption		315 637	304 207	312 312	317 764	303 250	324 381	7.0%
Imports								
Imports by origin								
<i>among which:</i>								
CIS		c	c	c	c	c	c	
Algeria		-	-	-	-	-	-	-
Norway		c	c	c	c	c	c	
Consumption								
Inputs to electricity plants		117 723	95 939	95 689	103 483	80 627	79 741	-1.1%
Inputs to heat plants		-	9 316	9 235	8 991	6 506	6 498	-0.1%
Consumption of energy branch		16 264	11 688	18 190	21 075	21 543	37 220	72.8%
Distribution losses		5 210	6 743	3 086	2 742	229	11 920	
Non-energy use		14 130	11 736	11 609	11 708	11 554	10 939	-5.3%
Industry		65 697	97 971	99 211	86 282	97 098	86 151	-11.3%
<i>among which:</i>								
Iron&steel industry		17 588	21 936	19 820	15 228	17 136	15 204	-11.3%
Non-ferrous metals		-	1 900	2 557	2 471	2 781	2 468	-11.3%
Chemical industry		8 468	11 118	12 765	10 568	11 893	10 552	-11.3%
Non-met. mineral prod.		12 359	12 976	14 095	13 840	15 575	13 819	-11.3%
Food, drink, tobacco		7 671	10 021	10 928	10 065	11 326	10 049	-11.3%
Pulp, paper and print		8 825	11 908	14 414	17 608	19 815	17 582	-11.3%
Engineering & metal		3 274	4 315	7 008	2 771	3 119	2 767	-11.3%
Other industries		2 565	18 493	8 170	8 582	9 658	8 569	-11.3%
Transport		1 175	714	-	-	-	-	-
Services & households etc.		95 452	67 980	71 484	83 482	86 151	90 912	5.5%
<i>among which:</i>								
Households		95 452	50 042	47 402	62 769	62 925	70 150	11.5%
Services		-	17 318	23 478	20 034	22 546	20 004	-11.3%


6.1 Hard coal


 eurostat	AUSTRIA						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply							
Primary production	-	-	-	-	-	-	-
Total imports	3 737	3 790	3 745	3 360	3 413	3 724	9.1%
Total exports	2	4	-	-	-	-	-
Stock changes	59	291	-14	97	297	41	-86.2%
Gross inland consumption	3 794	4 077	3 731	3 457	3 710	3 765	1.5%
Imports							
Imports by origin							
<i>among which:</i>							
USA	-	-	-	-	-	-	-
Poland	1 434	1 586	1 802	1 535	1 915	2 184	14.0%
CIS	3	9	1	1	-	-	-
Australia	22	-	-	-	-	11	-
South Africa	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-
Consumption							
Inputs to electricity plants	1 245	1 438	1 061	913	1 414	1 671	18.2%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	-	-	-	7	33	2	-93.9%
Industry	299	399	382	241	295	125	-57.6%
<i>among which:</i>							
Iron&steel industry	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-
Chemical industry	49	73	70	44	54	23	-57.4%
Non-met. mineral prod.	191	208	199	125	154	65	-57.8%
Food, drink, tobacco	-	-	-	-	-	-	-
Pulp, paper and print	58	118	113	71	87	37	-57.5%
Engineering & metal	-	-	-	-	-	-	-
Other industries	-	-	-	-	-	-	-
Services & households etc.	156	128	113	103	88	74	-15.9%
Structural data							
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-

6.2 Coal derivatives and peat

	AUSTRIA						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	1 559	1 566	1 598	1 608	1 385	1 394	0.6%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	1 109	1 131	1 141	1 138	1 250	1 207	-3.4%
Brown coal briquettes	-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	11 419	11 605	12 166	12 220	10 466	9 776	-6.6%
Blast-furnace gas	16 311	18 528	18 608	17 313	19 491	20 275	4.0%
Gasworks gas	-	-	-	-	-	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	699	661	586	610	633	664	4.9%
<i>among which:</i>							
Iron & steel industry	306	339	297	332	379	382	0.8%
Services & households	371	281	254	237	206	234	13.6%
Patent Fuel	-	7	4	4	4	1	-75.0%
<i>among which:</i>							
Services & households	-	7	4	4	4	1	-75.0%
Lignite and peat	127	112	104	152	72	63	-12.5%
<i>among which:</i>							
Industry	33	46	45	94	27	21	-22.2%
Services & households	94	66	59	58	45	42	-6.7%
Brown coal briquettes	167	132	103	106	95	98	3.2%
<i>among which:</i>							
Industry	13	-	-	-	-	-	-
Services & households	154	132	103	106	95	98	3.2%
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	4 946	5 737	5 801	5 264	3 556	4 664	31.2%
Blast-furnace gas	9 360	10 083	12 241	9 937	12 474	17 040	36.6%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	9 862	10 812	8 731	10 709	10 005	4 411	-55.9%
Inputs to heat plants	-	-	-	-	50	50	0.0%
Consumption of energy branch	3 691	3 501	4 002	3 623	3 872	3 886	0.4%
Consumption in industry	14 306	15 820	18 042	15 201	16 030	21 704	35.4%

7. Renewable energy sources

		AUSTRIA						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	5 812	6 012	5 998	6 467	6 500	6 781	4.3%
Hydro (excl. pumping)		2 942	3 104	3 196	3 482	3 598	3 597	0.0%
Wind		0	2	4	4	6	15	156.7%
Solar		42	48	55	58	64	67	4.6%
Geothermal		4	4	5	12	14	14	0.0%
Biomass		2 824	2 853	2 739	2 910	2 819	3 089	9.6%
	<i>among which:</i>							
Wood, wood-waste		2 674	2 694	2 581	2 723	2 619	2 816	7.5%
Municipal solid waste		114	117	114	139	149	198	33.3%
Biogas		24	30	30	33	35	56	59.6%
Gross inland consumption		5 847	6 000	5 968	6 418	6 451	6 727	4.3%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		1	1	1	8	9	9	0.0%
Biomass		604	661	590	683	627	677	8.0%
	<i>among which:</i>							
Wood, wood-waste		467	514	446	512	444	424	-4.5%
Municipal waste		114	117	114	139	149	198	33.3%
Biogas		23	30	30	33	34	55	61.4%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	2 300	2 232	2 178	2 240	2 211	2 429	9.8%
	<i>by sector:</i>							
Industry		455	500	484	518	579	581	0.4%
Services & households etc.		1 840	1 726	1 688	1 715	1 624	1 838	13.2%
Transport		6	6	6	6	8	9	10.0%
	<i>by source:</i>							
Biomass		2 255	2 180	2 120	2 178	2 143	2 358	10.0%
	<i>among which:</i>							
Wood, wood-waste		2 243	2 168	2 107	2 163	2 126	2 339	10.0%
Municipal waste		-	-	-	-	-	-	-
Biogas		1	0	0	1	1	1	9.8%
Geothermal		3	3	4	4	5	5	0.0%
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		1	2	2	2	3	4	33.3%
Hydro with installed capacity < 1 MW		1 615	1 590	1 539	1 512	1 566	1 522	-2.8%
Hydro with installed capacity > 1 & <10 MW		2 557	2 517	2 611	2 739	2 835	2 738	-3.4%
Hydro with installed capacity > 10 MW		30 041	31 880	33 014	35 027	37 439	37 574	0.4%
Wood, Wood-waste		1 319	1 589	1 563	1 517	1 482	1 528	3.1%
Municipal waste		75	71	75	78	84	77	-8.3%
Biogas		73	70	61	53	102	192	88.2%

		AUSTRIA						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		2	2	2	1	1	1	0.0%
Hydro with installed capacity < 1 MW		285	289	287	287p	282	282	0.0%
Hydro with installed capacity > 1 & <10 MW		539	546	550	550p	561	561	0.0%
Hydro with installed capacity > 10 MW		7 579	7 741	6 898	7 237	7 136	7 139	0.0%
Wood, Wood-waste		607	609	747	747p	747	747p	0.0%
Municipal waste		13	14	9	9p	9	9p	0.0%
Biogas		-	-	-	-	-	-	-
Liquid biofuels								
Production	<i>1000 t</i>	14	15	16	18	20	22	10.0%
Solar Panels								
Solar panel surface	<i>1000 m²</i>	1 457	1 458	1 876	1 900	1 900	1 900p	0.0%


1. Energy economy

Key figures and energy indicators

eurostat		PORTUGAL					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	3 157	3 045	3 036	2 656	3 109	3 368
Net energy imports		16 658	18 436	19 406	22 083	21 588	21 538
Net oil imports		13 174	14 464	15 482	16 467	15 556	16 298
Net gas imports		-	99	697	1 953	2 039	2 252
Gross inland energy consumption		19 560	20 744	22 246	23 892	24 108	24 233
Final energy consumption		13 863	14 550	15 364	15 976	16 929	17 355
Industry		4 400	4 889	5 237	5 263	5 518	5 611
Transport		5 112	5 266	5 704	6 043	6 516	6 544
Services and households etc.		4 352	4 395	4 423	4 669	4 896	5 200
Gross electricity generation	GWh	34 520	34 204	38 982	43 274	43 764	46 509
Final electricity consumption		30 229	31 940	33 845	36 120	38 373	39 937
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	85 558	88 949	93 023	96 558	100 119	101 763
Population	1000 per.	10 056	10 089	10 129	10 174	10 231	10 299
Industry added value	Mio EUR	24 072	25 520	26 402	26 812	27 495	28 058
Total imports (current prices)	Mio EUR	31 596	34 769	39 717	43 222	45 732	46 134
among which:							
All energy commodities		2 107	2 407	1 813	2 535	4 439	4 190
Oil products		1 747	1 944	1 460	2 024	3 557	3 334
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	228.6	233.2	239.1	247.4	240.8	238.1
Final energy consumption / GDP(95)		162.0	163.6	165.2	165.5	169.1	170.5
Energy intensity of industry:							
Final consumption / gross value-added mp		182.8	191.6	198.4	196.3	200.7	200.0
Energy intensity of service sector:							
Final consumption / gross value-added mp		24.2	22.9	21.1	21.6	22.7	29.2
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	1 945	2 056	2 196	2 348	2 356	2 353
Final energy consumption / capita		1 379	1 442	1 517	1 570	1 655	1 685
Household consumption / capita		265	264	262	272	274	277
Electricity consumption / capita	kWh/cap.	2 064	2 368	2 578	3 408	3 207	3 118
Energy dependency							
Net energy imports / Gross consumption	in %	83.1	86.8	85.8	90.2	87.2	87.2
Net oil imports / Gross consumption		65.7	68.1	68.4	67.3	62.8	66.0
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	70.9	70.1	69.1	66.9	70.2	71.6
Efficiency of thermal power stations		40.5	40.7	42.8	43.7	44.2	44.8

2. Energy balance

Principal aggregates by product

 eurostat	PORTUGAL						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	3 157	3 045	3 036	2 656	3 109	3 368	8.4%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	1 269	1 127	1 116	625	974	1 207	23.9%
Biomass	1 828	1 854	1 844	1 933	2 053	2 056	0.2%
Imports							
Total	19 367	20 815	21 706	23 912	23 371	23 194	-0.8%
<i>among which:</i> Hard coal	3 407	3 668	3 257	3 790	3 968	2 967	-25.2%
Crude oil and feedstocks	12 116	13 507	13 824	13 754	12 022	13 089	8.9%
Petroleum products	3 476	3 078	3 586	4 102	4 938	4 564	-7.6%
Natural Gas	-	99	697	1 953	2 039	2 252	10.4%
Electricity	354	462	342	312	404	322	-20.4%
Exports							
Total	2 709	2 379	2 300	1 830	1 783	1 656	-7.1%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	2 418	2 121	1 928	1 389	1 404	1 355	-3.5%
Natural gas	-	-	-	-	-	-	-
Electricity	258	213	318	386	324	301	-7.0%
Gross inland consumption							
Total	19 560	20 744	22 246	23 892	24 108	24 233	0.5%
<i>among which:</i> Solid fuels	3 463	3 491	3 171	3 790	3 803	3 192	-16.1%
Crude oil and petrol. prod.	12 845	13 872	15 319	15 574	15 083	15 396	2.1%
Natural gas	-	87	697	1 945	2 034	2 255	10.9%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	3 157	3 045	3 036	2 656	3 109	3 368	8.4%
Transformation input							
Total	17 204	18 209	19 924	21 209	19 207	19 575	1.9%
<i>among which:</i> Crude oil and feedstocks	12 457	13 168	14 090	13 546	12 251	13 013	6.2%
Petroleum products	1 436	1 498	2 121	2 234	1 670	1 919	14.9%
Hard coal	3 058	3 194	2 975	3 594	3 543	3 025	-14.6%
Lignite and peat	-	-	-	-	-	-	-
Renewables	141	165	157	242	356	352	-1.1%
Transformation output							
Total	14 470	15 355	16 667	17 001	15 523	15 970	2.9%
<i>among which:</i> Electricity	1 689	1 805	2 222	3 055	2 741	2 741	0.0%
Heat	51	67	80	86	134	162	20.2%

Final energy consumption

Total	13 863	14 550	15 364	15 976	16 929	17 355	2.5%
<i>among which:</i> Solid fuels	601	487	413	403	465	203	-56.5%
Petroleum products	8 819	9 412	9 922	10 089	10 469	10 797	3.1%
Natural Gas	-	44	234	489	789	1 036	31.2%
Renewables	1 687	1 689	1 687	1 690	1 697	1 704	0.4%
Electricity	2 599	2 746	2 910	3 106	3 299	3 434	4.1%

Final energy consumption by sector
Industry

Total	4 400	4 889	5 237	5 263	5 518	5 611	1.7%
<i>among which:</i> Solid fuels	601	487	413	403	465	203	-56.5%
Petroleum Products	2 013	2 527	2 697	2 473	2 326	2 475	6.4%
Natural Gas	-	42	220	435	659	831	26.2%
Renewables	537	539	537	540	547	554	1.3%
Electricity	1 167	1 198	1 253	1 298	1 372	1 390	1.3%


Transport

Total	5 112	5 266	5 704	6 043	6 516	6 544	0.4%
<i>among which:</i> Motor spirit	2 067	2 050	2 133	2 188	2 234	2 100	-6.0%
Diesel oil	2 393	2 575	2 893	3 059	3 439	3 636	5.7%
Jet fuel	623	602	647	740	790	755	-4.4%
Electricity	28	29	31	31	31	31	-0.6%


Services&households

Total	4 352	4 395	4 423	4 669	4 896	5 200	6.2%
<i>among which:</i> Solid fuels	-	-	-	-	-	-	-
Gas oil	599	673	769	808	908	1 091	20.1%
Natural Gas	-	2	15	54	131	204	56.4%
Renewables	1 150	1 150	1 150	1 150	1 150	1 150	0.0%
Electricity	1 405	1 519	1 626	1 777	1 897	2 014	6.2%
Heat	-	-	-	-	-	-	-


3.1 Electricity balance

 eurostat	PORTUGAL						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	34 520	34 204	38 982	43 274	43 764	46 509	6.3%
<i>among which:</i>							
Hydro	14 857	13 175	13 054	7 619	11 715	14 375	22.7%
Wind	21	36	88	123	168	256	52.4%
Geothermal	50	51	58	80	80	105	31.3%
Nuclear	-	-	-	-	-	-	-
Conventional thermal	19 592	20 942	25 782	35 452	31 801	31 773	-0.1%
<i>of which:</i>							
Hard coal	12 553	12 956	11 979	15 046	14 595	13 606	-6.8%
Lignite and peat	-	-	-	-	-	-	-
Petroleum products	6 040	6 776	10 687	11 009	8 421	9 338	10.9%
Natural gas	-	89	2 018	8 074	7 138	7 212	1.0%
Derived gases	40	85	76	85	93	16	-82.8%
Biomass	959	1 036	1 022	1 238	1 553	1 600	3.0%
Industrial wastes	-	-	-	-	1	1	0.0%
Total net generation	33 185	32 854	37 477	41 739	42 215	44 844	6.2%
Imports and exports							
Total imports	4 116	5 376	3 974	3 628	4 698	3 741	-20.4%
Total exports	3 005	2 477	3 700	4 488	3 767	3 502	-7.0%
Consumption and losses							
Consumption of the energy branch	1 837	1 877	2 101	2 302	2 281	2 413	5.8%
<i>of which:</i>							
Consumption for pumped-storage	41	30	30	146	166	144	-13.3%
Network losses	3 469	3 217	3 240	3 648	3 649	4 057	11.2%
Final energy consumption	30 229	31 940	33 845	36 120	38 373	39 937	4.1%
<i>of which:</i>							
Industry	13 568	13 932	14 574	15 094	15 954	16 161	1.3%
<i>among which:</i>							
Iron&steel industry	728	678	728	777	818	749	-8.4%
Non-ferrous metals	96	103	106	113	113	116	2.7%
Chemical industry	2 202	1 979	2 074	2 135	2 310	2 303	-0.3%
Non-met. mineral prod.	1 837	1 996	2 086	2 213	2 251	2 307	2.5%
Food, drink, tobacco	1 202	1 400	1 432	1 477	1 564	1 576	0.8%
Pulp, paper and print	1 786	1 903	1 949	1 965	2 054	2 097	2.1%
Engineering & metal	1 230	1 241	1 337	1 410	1 508	1 571	4.2%
Other industries	1 590	2 003	2 121	2 245	2 585	2 740	6.0%
Transport	320	338	366	365	360	358	-0.6%
Services & households etc.	16 341	17 670	18 905	20 661	22 059	23 418	6.2%
<i>among which:</i>							
Households	8 440	8 423	8 784	9 523	10 056	10 625	5.7%


3.2 Electrical capacity, fuel inputs and heat


		PORTUGAL						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	9 380	9 468	9 786	10 758	10 898	10 990	0.8%
<i>by source:</i>								
Conventional thermal		4 926	4 993	5 227	6 156	6 275	6 291	0.3%
<i>of which:</i>								
Steam		4 043	4 058	4 055	4 009	4 071	4 061	-0.2%
Gas turbine		329	329	329	329	329	329	0.0%
Combined cycle		-	-	225	990	990	990	0.0%
Internal combustion		554	606	618	828	885	911	2.9%
Nuclear		-	-	-	-	-	-	-
Hydro		4 428	4 438	4 501	4 527	4 526	4 560	0.8%
<i>among which:</i>								
Pumped storage		561	561	561	597	597	597	0.0%
Wind		18	29	48	57	83	125	50.6%
Geothermal		8	8	10	18	14	14	0.0%
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		8 668	8 700	8 986	9 787	9 800	9 896	1.0%
Autoproducers		712	768	800	963	1 099	1 095	-0.4%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	4 298	4 600	5 378	7 195	6 507	6 474	-0.5%
<i>among which:</i>								
Hard coal		2 750	2 867	2 646	3 256	3 198	2 961	-7.4%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		1 333	1 447	2 112	2 234	1 670	1 919	14.9%
Natural gas		-	24	377	1 354	1 171	1 166	-0.5%
Renewables		183	210	208	312	405	416	2.8%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
Heat production and consumption								
Total heat production	TJ	51	67	80	86	134	162	20.2%
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		51	67	75	80	127	152	19.7%
<i>of which: in industry</i>								
		51	67	75	80	127	152	19.7%
<i>in households and services</i>								
		-	-	-	-	-	-	-
<i>among which: in households</i>								
		-	-	-	-	-	-	-

4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	PORTUGAL						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		-	-	-	-	-	-	-
Total imports		12 121	13 480	13 919	13 807	12 133	13 158	8.4%
Total exports		-	-	-	-	-	-	-
Stock changes		268	-367	220	-346	138	-193	
Refinery intake		12 462	13 141	14 186	13 594	12 362	13 079	5.8%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		8 432	9 188	8 767	8 325	7 721	7 594	-1.6%
Near and Middle East		4 158	5 229	6 796	5 645	4 522	2 788	-38.3%
Africa		5 270	3 568	2 598	3 000	3 958	5 112	29.2%
<i>by country of origin:</i>								
Algeria		83	342	-	-	-	319	
Nigeria		3 512	2 670	2 137	2 293	3 277	3 637	11.0%
Saudi Arabia		2 555	2 878	2 704	1 971	1 954	1 965	0.6%
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		325	244	589	1 275	868	799	-7.9%
Refining capacity								
Capacity at the end of year	1 000 t/year	15 210	14 400	14 400	14 400	14 400	:	
<i>among which:</i>								
Cracking and others		3 100	3 500	3 720	3 720	3 700	:	
Reforming		2 200	2 200	2 230	2 230	2 200	:	

4.2 Petroleum products


 eurostat	PORTUGAL						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Production and supply							
Total refinery output	12 341	13 046	14 040	13 482	12 352	13 061	5.7%
<i>among which:</i>							
Motor spirit	2 591	2 835	2 792	2 654	2 296	2 615	13.9%
Kerosene and jet fuel	945	1 051	1 078	965	799	621	-22.3%
Naphtha	820	900	904	1 007	996	986	-1.0%
Gas/diesel oil	3 684	3 970	4 368	4 279	3 794	4 533	19.5%
Residual fuel oil	3 116	3 023	3 185	3 141	3 000	2 703	-9.9%
Total imports	3 575	3 199	3 716	4 302	5 118	4 839	-5.5%
Total exports	2 405	2 106	1 901	1 389	1 424	1 355	-4.8%
Bunkers	507	504	391	599	676	483	-28.6%
Stock changes	-103	310	-23	97	-6	-262	
Gross inland consumption	560	899	1 401	2 411	3 012	2 739	-9.1%
Imports and exports							
Imports by origin							
<i>among which:</i>							
Netherlands	398	202	224	486	597	451	-24.5%
United Kingdom	523	874	1 011	951	650	792	21.8%
Norway	60	50	56	36	63	71	12.7%
OPEC	364	100	236	94	178	564	216.9%
Imports by product							
<i>among which:</i>							
Motor spirit	55	4	3	14	157	12	-92.4%
Kerosene and jet fuel	-	-	-	1	77	156	102.6%
Gas/diesel oil	293	152	143	268	1 271	943	-25.8%
Residual fuel oil	1 154	787	1 578	1 795	1 226	1 313	7.1%
Exports by product							
<i>among which:</i>							
Motor spirit	658	888	789	588	397	635	59.9%
Kerosene and jet fuel	317	385	368	221	99	13	-86.9%
Gas/diesel oil	428	309	290	78	152	90	-40.8%
Residual fuel oil	573	292	164	164	483	195	-59.6%
Consumption							
Inputs to electricity plants	1 401	1 521	2 215	2 338	1 747	2 007	14.9%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	1 789	1 907	2 172	2 354	2 344	1 940	-17.2%
Final energy consumption	8 655	9 287	9 830	10 001	10 348	10 712	3.5%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	325	321	390	383	431	469	8.8%
Residual fuel oil	1 209	1 668	1 635	1 375	1 266	1 292	2.1%

 eurostat	PORTUGAL							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Industry								
<i>among which by sector:</i>								
Iron&steel industry		41	43	42	37	36	31	-13.9%
Non-ferrous metals		18	19	42	17	17	14	-17.6%
Chemical industry		140	428	398	99	97	437	350.5%
Non-met. mineral prod.		630	769	964	1 095	956	999	4.5%
Food, drink, tobacco		270	298	282	250	255	213	-16.5%
Pulp, paper and print		292	349	346	350	325	248	-23.7%
Engineering & metal		43	45	40	39	38	34	-10.5%
Other industries		332	362	395	394	392	389	-0.8%
Transport		4 943	5 095	5 523	5 853	6 319	6 352	0.5%
<i>among which:</i>								
Motor spirit		1 967	1 951	2 030	2 082	2 126	1 998	-6.0%
Jet fuel		607	586	630	721	769	735	-4.4%
Diesel oil		2 369	2 549	2 863	3 028	3 404	3 599	5.7%
Services & households etc.		1 658	1 576	1 475	1 526	1 582	1 734	9.6%
<i>among which:</i>								
Gas oil		593	666	761	800	899	1 080	20.1%
Residual fuel oil		325	163	-	-	-	-	-
Stocks at end of period								
Crude oil and feedstocks		706	1 073	853	1 199	1 061	1 255	18.3%
Petroleum products		1 991	1 695	1 775	1 899	1 903	2 202	15.7%


5. Natural gas

 eurostat	PORTUGAL								
	in TJ (GCV)		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply									
Primary production		-	-	-	-	-	-	-	-
Total imports		-	4 616	32 434	90 866	94 864	104 769	10.4%	
Total exports		-	-	-	-	-	-	-	
Stock changes		-	-584	-	-362	-251	137		
Gross inland consumption		-	4 032	32 434	90 504	94 613	104 906	10.9%	
Imports									
Imports by origin									
<i>among which:</i>									
CIS		-	-	-	-	-	-	-	
Algeria		-	4 616	32 434	90 866	82 351	93 143	13.1%	
Norway		-	-	-	-	-	-	-	
Consumption									
Inputs to electricity plants		-	1 117	17 555	62 969	54 482	54 234	-0.5%	
Inputs to heat plants		-	-	-	-	-	-	-	
Consumption of energy branch		-	-	-	-	-	-	-	
Distribution losses		-	32	80	120	120	1 150	858.3%	
Non-energy use		-	-	-	-	-	-	-	
Industry		-	1 946	10 222	20 239	30 648	38 673	26.2%	
<i>among which:</i>									
Iron&steel industry		-	220	732	908	976	1 050	7.6%	
Non-ferrous metals		-	-	20	40	438	265	-39.5%	
Chemical industry		-	-	708	1 365	2 174	2 732	25.7%	
Non-met. mineral prod.		-	1 551	7 942	14 844	20 144	23 096	14.7%	
Food, drink, tobacco		-	-	362	880	1 246	2 060	65.3%	
Pulp, paper and print		-	-	3	343	308	805	161.4%	
Engineering & metal		-	175	419	768	1 337	1 667	24.7%	
Other industries		-	-	13	187	373	742	98.9%	
Transport		-	-	-	-	-	-	-	
Services & households etc.		-	98	675	2 524	6 073	9 500	56.4%	
<i>among which:</i>									
Households		-	-	358	1 681	3 404	5 448	60.0%	
Services		-	98	279	580	2 663	3 960	48.7%	


6.1 Hard coal


 eurostat	PORTUGAL							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production	-	-	-	-	-	-	-	-
Total imports	5 349	5 758	5 113	6 080	6 367	4 807	-24.5%	
Total exports	-	-	-	-	-	-	-	
Stock changes	122	-203	-14	46	-213	338		
Gross inland consumption	5 471	5 555	5 099	6 126	6 154	5 145	-16.4%	
Imports								
Imports by origin								
<i>among which:</i>								
USA	1 329	1 531	667	782	541	529	-2.2%	
Poland	-	-	-	-	-	-	-	
CIS	12	-	-	55	90	28	-68.9%	
Australia	308	242	237	739	-	399		
South Africa	1 911	1 740	1 816	1 570	2 426	1 462	-39.7%	
Colombia	1 276	1 850	1 892	2 522	2 846	1 815	-36.2%	
Consumption								
Inputs to electricity plants	4 317	4 501	4 154	5 263	5 171	4 788	-7.4%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry								
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	713	573	474	380	484	265	-45.2%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	-	-	-	-	-	-	-	
Structural data								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

6.2 Coal derivatives and peat

	PORTUGAL						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	331	340	352	363	371	67	-81.9%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	2 593	3 047	3 059	2 803	2 930	548	-81.3%
Blast-furnace gas	1 576	1 858	1 687	1 788	1 926	435	-77.4%
Gasworks gas	3 204	3 163	3 419	3 468	2 073	219	-89.4%
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	239	198	179	257	257	64	-75.1%
<i>among which:</i>							
Iron & steel industry	194	183	160	171	179	41	-77.1%
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	654	564	452	501	503	75	-85.1%
Blast-furnace gas	656	659	1 286	936	390	134	-65.6%
Gasworks gas	2 826	2 843	3 085	3 145	1 990	211	-89.4%
Inputs to electricity plants	1 396	2 288	1 569	1 755	2 779	557	-80.0%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	1 318	1 334	1 379	1 197	1 130	209	-81.5%
Consumption in industry	1 372	1 296	1 807	1 498	937	213	-77.3%

7. Renewable energy sources

		PORTUGAL						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	3 157	3 045	3 036	2 656	3 109	3 368	8.4%
Hydro (excl. pumping)		1 269	1 127	1 116	625	974	1 207	23.9%
Wind		2	3	8	11	14	22	52.4%
Solar		16	16	17	18	18	19	3.4%
Geothermal		42	45	51	70	49	64	31.1%
Biomass		1 828	1 854	1 844	1 933	2 053	2 056	0.2%
	<i>among which:</i>							
Wood, wood-waste		1 825	1 851	1 842	1 875	1 878	1 882	0.2%
Municipal solid waste		-	-	-	57	174	175	0.2%
Biogas		3	3	2	1	1	-	
Gross inland consumption		3 157	3 045	3 036	2 656	3 109	3 368	8.4%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		42	45	51	70	49	64	31.1%
Biomass		141	165	157	242	356	352	-1.1%
	<i>among which:</i>							
Wood, wood-waste		140	164	155	184	180	177	-1.7%
Municipal waste		-	-	-	57	174	175	0.2%
Biogas		1	1	2	1	1	-	
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	1 703	1 705	1 703	1 708	1 716	1 723	0.4%
	<i>by sector:</i>							
Industry		537	539	537	540	547	554	1.3%
Services & households etc.		1 166	1 166	1 167	1 168	1 168	1 169	0.1%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		1 687	1 689	1 687	1 690	1 697	1 704	0.4%
	<i>among which:</i>							
Wood, wood-waste		1 685	1 687	1 687	1 690	1 697	1 704	0.4%
Municipal waste		-	-	-	-	-	-	-
Biogas		2	2	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		1	1	1	1	1	1	0.0%
Hydro with installed capacity < 1 MW		46	49	43	58	73	71	-2.7%
Hydro with installed capacity > 1 & <10 MW		612	589	523	531	805	911	13.2%
Hydro with installed capacity > 10 MW		14 111	12 467	12 417	6 697	10 445	13 052	25.0%
Wood, Wood-waste		958	1 035	1 022	1 080	1 037	1 086	4.7%
Municipal waste		-	-	-	157	514	511	-0.6%
Biogas		1	1	1	1	2	3	50.0%

		PORTUGAL						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	1	1	1	1	1	0.0%
Hydro with installed capacity < 1 MW		22	22	19	22	27	27	0.0%
Hydro with installed capacity > 1 & <10 MW		226	223	228	235	280	290	3.6%
Hydro with installed capacity > 10 MW		3 475	3 569	3 490	3 474	3 622	3 646	0.7%
Wood, Wood-waste		-	-	-	360	219	214	-2.3%
Municipal waste		-	-	-	81	64	64	0.0%
Biogas		-	-	-	1	1	1	0.0%
Liquid biofuels								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
Solar Panels								
Solar panel surface	<i>1000 m²</i>	208	216	223	230	238	246	3.4%


1. Energy economy

Key figures and energy indicators

eurostat		FINLAND					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	13 440	14 805	13 125	15 153	14 809	14 826
Net energy imports		17 334	18 535	18 325	17 217	18 542	18 905
Net oil imports		9 576	10 321	11 037	10 292	10 566	10 137
Net gas imports		2 967	2 907	3 336	3 338	3 422	3 707
Gross inland energy consumption		31 147	32 739	33 210	32 791	32 642	33 226
Final energy consumption		22 478	23 484	24 172	24 637	24 555	24 690
Industry		10 319	11 093	11 459	12 055	12 155	11 578
Transport		4 031	4 241	4 296	4 398	4 391	4 482
Services and households etc.		8 128	8 151	8 416	8 184	8 008	8 630
Gross electricity generation	GWh	69 372	69 186	70 170	69 433	69 989	74 450
Final electricity consumption		66 515	70 361	72 806	74 200	75 446	77 296
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	103 120	109 699	115 022	118 937	125 518	126 332
Population	1000 per.	5 125	5 140	5 154	5 166	5 176	5 188
Industry added value	Mio EUR	30 489	33 358	35 535	37 034	40 583	40 431
Total imports (current prices)	Mio EUR	30 640	34 102	36 984	38 457	44 609	44 635
among which:							
All energy commodities		2 302	2 635	2 147	2 515	4 370	4 154
Oil products		1 806	1 761	1 350	1 873	3 532	3 008
Energy intensity							
Gross inland consumption / GDP(95)	kgoel/1 000 EUR	302.0	298.4	288.7	275.7	260.1	263.0
Final energy consumption / GDP(95)		218.0	214.1	210.2	207.1	195.6	195.4
Energy intensity of industry:							
Final consumption / gross value-added mp		338.5	332.5	322.5	325.5	299.5	286.4
Energy intensity of service sector:							
Final consumption / gross value-added mp		44.9	36.6	36.5	35.0	34.6	40.6
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoel/cap.	6 077	6 370	6 444	6 347	6 306	6 404
Final energy consumption / capita		4 386	4 569	4 690	4 769	4 744	4 759
Household consumption / capita		937	1 016	1 044	998	951	954
Electricity consumption / capita	kWh/cap.	11 934	12 562	12 495	13 110	12 970	13 711
Energy dependency							
Net energy imports / Gross consumption	in %	55.0	55.9	54.3	51.6	55.7	55.9
Net oil imports / Gross consumption		30.4	31.1	32.7	30.9	31.7	30.0
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	72.2	71.7	72.8	75.1	75.2	74.3
Efficiency of thermal power stations		66.3	69.3	74.5	73.0	73.2	70.6

2. Energy balance

Principal aggregates by product

 eurostat	FINLAND						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	13 440	14 805	13 125	15 153	14 809	14 826	0.1%
<i>among which:</i>							
Hard coal	-	-	-	-	-	-	-
Lignite and peat	2 247	2 664	430	1 966	1 207	1 378	14.1%
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	5 024	5 390	5 370	5 926	5 799	5 874	1.3%
Hydro-electricity	1 020	1 053	1 294	1 099	1 261	1 135	-9.9%
Biomass	5 148	5 698	5 960	6 158	6 536	6 433	-1.6%
Imports							
Total	22 407	22 817	23 177	22 350	23 672	24 029	1.5%
<i>among which:</i>							
Hard coal	4 264	4 350	2 851	2 302	3 203	3 894	21.6%
Crude oil and feedstocks	9 794	10 435	12 269	11 700	12 146	11 377	-6.3%
Petroleum products	4 695	4 115	3 580	3 692	3 507	3 711	5.8%
Natural Gas	2 967	2 907	3 336	3 338	3 422	3 707	8.3%
Electricity	461	697	824	976	1 050	1 012	-3.6%
Exports							
Total	5 073	4 282	4 852	5 133	5 130	5 123	-0.1%
<i>among which:</i>							
Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	4 913	4 229	4 812	5 100	5 087	4 951	-2.7%
Natural gas	-	-	-	-	-	-	-
Electricity	147	39	24	20	28	156	455.2%
Gross inland consumption							
Total	31 147	32 739	33 210	32 791	32 642	33 226	1.8%
<i>among which:</i>							
Solid fuels	7 314	6 713	5 447	5 274	5 047	6 097	20.8%
Crude oil and petrol. prod.	9 205	10 148	10 836	9 904	9 343	8 903	-4.7%
Natural gas	2 967	2 907	3 336	3 338	3 422	3 707	8.3%
Nuclear Energy	5 024	5 390	5 370	5 926	5 799	5 874	1.3%
Renewables	6 169	6 752	7 257	7 261	7 803	7 574	-2.9%
Transformation input							
Total	28 094	27 147	27 840	28 315	28 083	28 661	2.1%
<i>among which:</i>							
Crude oil and feedstocks	12 934	11 934	13 729	13 499	13 231	12 414	-6.2%
Petroleum products	432	508	427	508	358	442	23.6%
Hard coal	4 608	4 172	3 039	3 035	3 033	3 523	16.2%
Lignite and peat	1 663	1 677	1 371	1 292	1 143	1 670	46.2%
Renewables	1 177	1 386	1 495	1 607	1 547	1 615	4.4%
Transformation output							
Total	21 928	20 902	22 359	22 364	22 065	21 933	-0.6%
<i>among which:</i>							
Electricity	4 944	4 894	4 737	4 867	4 751	5 260	10.7%
Heat	3 030	3 002	2 814	3 002	2 990	3 268	9.3%

Final energy consumption

Total	22 478	23 484	24 172	24 637	24 555	24 690	0.5%
<i>among which:</i> Solid fuels	1 007	1 045	1 285	1 200	1 075	1 118	4.1%
Petroleum products	7 334	7 493	7 693	7 783	7 834	7 669	-2.1%
Natural Gas	1 193	1 327	1 487	1 463	952	1 007	5.7%
Renewables	3 971	4 312	4 465	4 550	4 989	4 818	-3.4%
Electricity	5 719	6 050	6 260	6 380	6 487	6 646	2.5%

Final energy consumption by sector
Industry

Total	10 319	11 093	11 459	12 055	12 155	11 578	-4.8%
<i>among which:</i> Solid fuels	943	1 018	1 258	1 174	1 050	1 093	4.0%
Petroleum Products	1 156	1 048	1 138	1 352	1 475	1 074	-27.2%
Natural Gas	1 131	1 264	1 427	1 398	889	938	5.5%
Renewables	2 851	3 187	3 326	3 436	3 904	3 657	-6.3%
Electricity	3 110	3 394	3 506	3 570	3 669	3 644	-0.7%


Transport

Total	4 031	4 241	4 296	4 398	4 391	4 482	2.1%
<i>among which:</i> Motor spirit	1 920	1 969	1 940	1 934	1 865	1 904	2.1%
Diesel oil	1 591	1 725	1 794	1 897	1 925	1 986	3.2%
Jet fuel	436	460	480	506	505	505	0.0%
Electricity	40	43	44	45	46	49	5.0%


Services&households

Total	8 128	8 151	8 416	8 184	8 008	8 630	7.8%
<i>among which:</i> Solid fuels	64	27	27	26	25	26	5.3%
Gas oil	2 081	1 976	2 028	1 894	1 740	1 787	2.7%
Natural Gas	61	63	60	65	62	67	8.3%
Renewables	1 120	1 125	1 139	1 114	1 084	1 161	7.0%
Electricity	2 569	2 613	2 710	2 765	2 772	2 953	6.6%
Heat	2 126	2 075	2 176	2 137	2 050	2 259	10.2%


3.1 Electricity balance

 eurostat	FINLAND						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	69 372	69 186	70 170	69 433	69 989	74 450	6.4%
<i>among which:</i>							
Hydro	11 860	12 242	15 051	12 780	14 660	13 204	-9.9%
Wind	11	17	24	49	78	70	-10.3%
Geothermal	-	-	-	-	-	-	-
Nuclear	19 476	20 894	21 853	22 974	22 479	22 773	1.3%
Conventional thermal	38 025	36 033	33 242	33 630	32 772	38 403	17.2%
<i>of which:</i>							
Hard coal	14 982	13 111	8 272	8 522	8 535	10 659	24.9%
Lignite and peat	6 273	6 009	5 442	4 871	3 962	6 210	56.7%
Petroleum products	1 571	1 320	1 567	773	610	652	6.9%
Natural gas	7 677	6 884	8 412	10 113	10 080	11 552	14.6%
Derived gases	395	327	655	655	704	643	-8.7%
Biomass	6 723	7 143	6 696	8 363	8 557	8 411	-1.7%
Industrial wastes	404	1 239	2 198	333	324	276	-14.8%
Total net generation	66 357	66 160	67 325	66 655	67 292	71 230	5.9%
Imports and exports							
Total imports	5 367	8 103	9 582	11 356	12 206	11 769	-3.6%
Total exports	1 706	450	276	232	326	1 810	455.2%
Consumption and losses							
Consumption of the energy branch	3 804	3 933	3 705	3 668	3 671	4 086	11.3%
<i>of which:</i>							
Consumption for pumped-storage	-	-	-	-	-	-	-
Network losses	2 714	2 535	2 966	2 689	2 752	3 027	10.0%
Final energy consumption	66 515	70 361	72 806	74 200	75 446	77 296	2.5%
<i>of which:</i>							
Industry	36 166	39 477	40 773	41 520	42 674	42 384	-0.7%
<i>among which:</i>							
Iron&steel industry	2 246	2 355	2 444	2 537	2 470	2 562	3.7%
Non-ferrous metals	1 779	1 865	1 936	2 033	1 957	2 029	3.7%
Chemical industry	4 290	4 300	4 318	4 385	5 019	5 143	2.5%
Non-met. mineral prod.	710	720	790	850	871	927	6.4%
Food, drink, tobacco	1 460	1 480	1 520	1 540	1 588	1 590	0.1%
Pulp, paper and print	20 910	23 900	24 410	24 640	25 205	24 239	-3.8%
Engineering & metal	2 050	2 100	2 400	2 570	2 450	2 492	1.7%
Other industries	1 951	1 987	2 185	2 145	2 281	2 578	13.0%
Transport	470	495	515	520	538	565	5.0%
Services & households etc.	29 879	30 389	31 518	32 160	32 234	34 347	6.6%
<i>among which:</i>							
Households	17 234	17 421	18 141	18 445	18 135	19 373	6.8%

3.2 Electrical capacity, fuel inputs and heat


		FINLAND						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	14 574	15 702	16 150	16 164	16 258	16 472	1.3%
<i>by source:</i>								
Conventional thermal		9 468	10 274	10 605	10 605	10 698	10 898	1.9%
<i>of which:</i>								
Steam		5 946	6 455	6 578	6 635	7 215	7 415	2.8%
Gas turbine		1 442	1 565	1 700	1 700	1 847	1 847	0.0%
Combined cycle		-	-	-	-	1 586	1 586	0.0%
Internal combustion		-	-	-	-	50	50	0.0%
Nuclear		2 310	2 550	2 640	2 640	2 640	2 640	0.0%
Hydro		2 785	2 861	2 881	2 881	2 882	2 895	0.5%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		11	17	24	38	38	39	2.6%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		12 490	13 443	13 816	13 894	13 988	14 202	1.5%
Autoproducers		2 080	2 254	2 327	2 270	2 270	2 270	0.0%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	8 440	7 922	6 772	7 100	6 934	8 255	19.1%
<i>among which:</i>								
Hard coal		3 604	3 207	2 065	2 054	2 088	2 582	23.7%
Lignite and peat		1 585	1 593	1 294	1 249	1 081	1 611	49.1%
Petroleum products		432	284	236	508	131	132	0.9%
Natural gas		1 597	1 418	1 654	1 665	1 932	2 211	14.5%
Renewables		1 058	1 269	1 319	1 415	1 436	1 486	3.5%
Heating plants		418	635	655	478	792	834	5.3%
<i>among which:</i>								
Hard coal		84	80	57	74	46	37	-20.8%
Lignite and peat		78	84	77	43	62	59	-4.5%
Petroleum products		-	224	191	-	227	310	36.6%
Natural gas		129	121	145	161	239	183	-23.6%
Renewables		119	118	176	192	111	129	16.1%
Heat production and consumption								
Total heat production	TJ	3 030	3 002	2 814	3 002	2 990	3 268	9.3%
<i>among which: in heating plants</i>		701	608	629	712	731	741	1.4%
Heat consumption		2 750	2 699	2 517	2 780	2 780	3 039	9.3%
<i>of which: in industry</i>		625	625	341	643	730	780	6.7%
<i>in households and services</i>		2 126	2 075	2 176	2 137	2 050	2 259	10.2%
<i>among which: in households</i>		1 327	1 286	1 340	1 323	1 276	1 382	8.3%

4.1 Crude oil and feedstocks


 in 1 000 t		FINLAND						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		-	-	-	-	-	-	-
Total imports		9 494	10 129	11 931	11 378	11 834	11 095	-6.2%
Total exports		-	-	-	-	-	-	-
Stock changes		-	92	134	-64	-177	-546	-208.5%
Refinery intake		12 575	11 612	13 370	13 145	12 905	12 117	-6.1%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		-	90	46	-	-	-	-
Near and Middle East		-	-	-	-	-	-	-
Africa		-	-	-	-	-	-	-
<i>by country of origin:</i>								
Algeria		-	-	-	-	-	-	-
Nigeria		-	-	-	-	-	-	-
Saudi Arabia		-	-	-	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		2 368	2 610	3 185	2 764	2 587	1 804	-30.3%
Refining capacity								
Capacity at the end of year	1 000 t/year	10 000	10 000	12 800	12 500	12 500	:	
<i>among which:</i>								
Cracking and others		5 800	5 800	6 330	6 510	6 510	:	
Reforming		2 100	2 100	2 000	2 170	2 170	:	

4.2 Petroleum products


eurostat	FINLAND							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Production and supply								
Total refinery output		12 455	11 542	13 266	12 962	12 776	11 943	-6.5%
<i>among which:</i>								
Motor spirit		4 317	3 811	4 183	4 285	3 891	3 785	-2.7%
Kerosene and jet fuel		722	593	804	986	765	441	-42.4%
Naphtha		311	344	336	270	240	215	-10.4%
Gas/diesel oil		4 663	4 374	5 263	4 965	5 248	5 058	-3.6%
Residual fuel oil		1 220	1 105	1 297	1 292	1 407	1 306	-7.2%
Total imports		4 867	4 268	3 722	3 718	3 518	3 712	5.5%
Total exports		4 752	4 091	4 655	4 931	4 947	4 815	-2.7%
Bunkers		380	413	529	567	682	584	-14.4%
Stock changes		-	147	105	216	-365	-97	73.4%
Gross inland consumption		-265	-89	-1 262	-1 564	-2 476	-1 784	27.9%
Imports and exports								
Imports by origin								
<i>among which:</i>								
Netherlands		49	85	89	62	115	145	26.1%
United Kingdom		92	209	240	97	80	113	41.3%
Norway		456	68	126	450	491	281	-42.8%
OPEC		-	187	138	-	10	66	560.0%
Imports by product								
<i>among which:</i>								
Motor spirit		309	238	80	305	418	365	-12.7%
Kerosene and jet fuel		286	36	747	474	235	182	-22.6%
Gas/diesel oil		1 658	1 399	1 102	1 232	1 476	1 670	13.1%
Residual fuel oil		1 840	1 560	953	978	674	654	-3.0%
Exports by product								
<i>among which:</i>								
Motor spirit		2 754	2 169	2 248	2 505	2 221	2 200	-0.9%
Kerosene and jet fuel		282	200	284	492	294	123	-58.2%
Gas/diesel oil		1 339	1 246	1 722	1 577	1 947	2 054	5.5%
Residual fuel oil		121	42	-	-	123	79	-35.8%
Consumption								
Inputs to electricity plants		446	293	244	527	136	138	1.5%
Inputs to heating plants		-	234	200	-	236	323	36.9%
Non-energy use		1 075	1 334	1 463	948	871	1 038	19.2%
Final energy consumption		7 227	7 394	7 598	7 673	7 729	7 557	-2.2%
Industry								
<i>among which by product:</i>								
Gas/diesel oil		189	206	152	248	435	381	-12.4%
Residual fuel oil		782	753	885	905	870	629	-27.7%

 eurostat	FINLAND						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Industry							
<i>among which by sector:</i>							
Iron&steel industry	306	358	399	413	415	285	-31.3%
Non-ferrous metals	26	21	26	25	17	13	-23.5%
Chemical industry	112	130	127	280	84	40	-52.4%
Non-met. mineral prod.	83	90	98	98	76	61	-19.7%
Food, drink, tobacco	125	108	125	127	61	47	-23.0%
Pulp, paper and print	65	55	64	65	206	254	23.3%
Engineering & metal	97	76	94	89	86	27	-68.6%
Other industries	161	177	139	205	520	342	-34.2%
Transport	3 872	4 075	4 129	4 228	4 223	4 308	2.0%
<i>among which:</i>							
Motor spirit	1 827	1 874	1 846	1 840	1 775	1 812	2.1%
Jet fuel	425	448	467	493	492	492	0.0%
Diesel oil	1 575	1 707	1 776	1 878	1 905	1 966	3.2%
Services & households etc.	2 170	2 238	2 293	2 063	1 999	2 154	7.8%
<i>among which:</i>							
Gas oil	2 060	1 956	2 007	1 875	1 722	1 769	2.7%
Residual fuel oil	99	264	268	166	203	335	65.0%
Stocks at end of period							
Crude oil and feedstocks	1 614	1 228	1 094	858	1 035	1 415	36.7%
Petroleum products	2 228	2 268	2 163	1 284	2 293	2 368	3.3%


5. Natural gas

 eurostat	FINLAND								
	in TJ (GCV)		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply									
Primary production		-	-	-	-	-	-	-	-
Total imports		138 037	135 221	155 171	155 283	159 201	172 446	8.3%	
Total exports		-	-	-	-	-	-	-	
Stock changes		-	-	-	-	-	-	-	
Gross inland consumption		138 037	135 221	155 171	155 283	159 201	172 446	8.3%	
Imports									
Imports by origin									
<i>among which:</i>									
CIS		138 037	135 221	155 171	155 283	159 201	172 446	8.3%	
Algeria		-	-	-	-	-	-	-	
Norway		-	-	-	-	-	-	-	
Consumption									
Inputs to electricity plants		74 274	65 954	76 955	77 441	89 867	102 863	14.5%	
Inputs to heat plants		5 999	5 649	6 751	7 481	11 129	8 506	-23.6%	
Consumption of energy branch		638	878	878	958	11 956	12 405	3.8%	
Distribution losses		-	-	-	-	-	-	-	
Non-energy use		1 596	1 476	1 436	1 277	1 558	1 516	-2.7%	
Industry		52 635	58 790	66 398	65 023	41 366	43 646	5.5%	
<i>among which:</i>									
Iron&steel industry		6 714	7 573	8 553	8 376	2 839	2 737	-3.6%	
Non-ferrous metals		-	-	-	-	-	-	-	
Chemical industry		1 536	1 716	1 938	1 898	1 239	1 393	12.4%	
Non-met. mineral prod.		5 529	6 090	6 878	6 736	3 073	2 406	-21.7%	
Food, drink, tobacco		1 718	1 825	2 061	2 019	1 800	2 265	25.8%	
Pulp, paper and print		36 021	40 371	45 596	44 651	25 440	25 193	-1.0%	
Engineering & metal		-	-	-	-	128	343	168.0%	
Other industries		1 117	1 215	1 372	1 343	5 144	8 072	56.9%	
Transport		-	-	-	-	53	80	50.9%	
Services & households etc.		2 855	2 953	2 793	3 032	2 873	3 112	8.3%	
<i>among which:</i>									
Households		838	867	900	1 024	971	1 044	7.5%	
Services		1 219	1 408	1 175	1 330	1 264	1 430	13.1%	


6.1 Hard coal


 eurostat	FINLAND							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production	-	-	-	-	-	-	-	-
Total imports	6 894	7 033	4 610	3 597	5 072	6 175	21.7%	
Total exports	-	-	-	-	-	-	-	
Stock changes	810	-38	593	1 658	59	-53		
Gross inland consumption	7 704	6 995	5 203	5 255	5 131	6 122	19.3%	
Imports								
Imports by origin								
<i>among which:</i>								
USA	642	596	419	312	360	238	-33.9%	
Poland	3 780	4 220	2 609	1 639	2 018	1 976	-2.1%	
CIS	1 638	1 277	806	1 482	2 541	2 892	13.8%	
Australia	-	-	-	-	-	159		
South Africa	-	310	99	131	-	-		
Colombia	-	461	186	-	-	-		
Consumption								
Inputs to electricity plants	5 997	5 307	3 415	3 372	3 428	4 240	23.7%	
Inputs to heat plants	139	132	94	121	76	60	-21.1%	
Consumption of energy branch	-	-	-	-	-	-		
Industry	280	318	412	491	342	401	17.3%	
<i>among which:</i>								
Iron&steel industry	21	29	36	42	-	-		
Non-ferrous metals	-	-	-	-	-	-		
Chemical industry	25	28	37	44	72	82	13.9%	
Non-met. mineral prod.	190	201	264	318	168	220	31.0%	
Food, drink, tobacco	-	-	-	-	9	9	0.0%	
Pulp, paper and print	-	-	-	-	-	-		
Engineering & metal	-	-	-	-	-	-		
Other industries	44	60	75	87	-	-		
Services & households etc.	4	4	4	4	4	4	0.0%	
Structural data								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-		
Number of active hard coal mines (end of year)	-	-	-	-	-	-		

6.2 Coal derivatives and peat

	FINLAND						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	910	879	912	900	910	909	-0.1%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	8 752	10 374	1 675	8 068	4 860	5 711	17.5%
Brown coal briquettes	-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	7 682	7 621	7 771	7 721	8 148	7 778	-4.5%
Blast-furnace gas	14 996	15 970	16 633	16 869	17 953	15 916	-11.3%
Gasworks gas	-	-	-	-	-	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	675	766	777	788	813	814	0.1%
<i>among which:</i>							
Iron & steel industry	668	759	777	788	798	796	-0.3%
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	1 458	1 273	1 958	1 483	1 250	1 317	5.4%
<i>among which:</i>							
Industry	1 219	1 179	1 861	1 387	1 161	1 220	5.1%
Services & households	239	94	97	96	89	97	9.0%
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	7 314	7 326	4 832	7 321	7 452	7 118	-4.5%
Blast-furnace gas	10 519	11 943	10 629	10 796	10 832	9 165	-15.4%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	4 845	4 322	6 496	6 473	7 817	6 568	-16.0%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	-	-	2 447	-	-	-	-
Consumption in industry	17 833	19 269	15 461	18 117	18 284	16 283	-10.9%

7. Renewable energy sources

		FINLAND						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	6 169	6 752	7 257	7 261	7 803	7 574	-2.9%
Hydro (excl. pumping)		1 020	1 053	1 294	1 099	1 261	1 135	-9.9%
Wind		1	1	2	4	7	6	-10.3%
Solar		0	0	0	0	0	0	0.0%
Geothermal		-	-	-	-	-	-	-
Biomass		5 148	5 698	5 960	6 158	6 536	6 433	-1.6%
	<i>among which:</i>							
Wood, wood-waste		5 115	5 667	5 929	6 125	6 473	6 338	-2.1%
Municipal solid waste		17	19	15	15	45	77	70.0%
Biogas		16	12	16	18	18	18	0.0%
Gross inland consumption		6 169	6 752	7 257	7 261	7 803	7 574	-2.9%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		1 177	1 386	1 495	1 607	1 547	1 615	4.4%
	<i>among which:</i>							
Wood, wood-waste		1 156	1 363	1 472	1 589	1 508	1 545	2.4%
Municipal waste		17	19	15	15	32	63	95.7%
Biogas		4	4	8	4	7	7	5.1%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	3 971	4 312	4 465	4 551	4 989	4 818	-3.4%
	<i>by sector:</i>							
Industry		2 851	3 187	3 326	3 436	3 904	3 657	-6.3%
Services & households etc.		1 120	1 125	1 140	1 114	1 085	1 161	7.0%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		3 971	4 312	4 465	4 550	4 989	4 818	-3.4%
	<i>among which:</i>							
Wood, wood-waste		3 959	4 303	4 457	4 536	4 965	4 793	-3.5%
Municipal waste		-	-	-	-	13	14	8.1%
Biogas		12	8	8	14	11	10	-4.6%
Geothermal		-	-	-	-	-	-	-
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		117	123	158	112	134	127	-5.2%
Hydro with installed capacity > 1 & <10 MW		854	880	1 170	885	1 058	1 031	-2.6%
Hydro with installed capacity > 10 MW		10 889	11 039	13 723	11 783	13 468	12 047	-10.6%
Wood, Wood-waste		5 718	6 941	7 492	8 341	8 476	8 189	-3.4%
Municipal waste		5	6	7	-	59	200	239.0%
Biogas		22	24	30	22	22	22	0.0%

		FINLAND						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		30	30	30	30	29	29	0.0%
Hydro with installed capacity > 1 & <10 MW		280	274	274	274	279	280	0.4%
Hydro with installed capacity > 10 MW		2 475	2 557	2 577	2 577	2 574	2 586	0.5%
Wood, Wood-waste		1 100	1 100	1 100	1 200	1 300	1 500	15.4%
Municipal waste		1	1	1	1	-	-	-
Biogas		-	-	-	-	-	-	-
Liquid biofuels								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
Solar Panels								
Solar panel surface	<i>1000 m²</i>	7	7	8	8	8	8	0.0%


1. Energy economy

Key figures and energy indicators

eurostat		SWEDEN					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	31 637	32 170	33 178	33 257	30 144	33 843
Net energy imports		21 095	19 605	19 687	18 019	19 076	18 992
Net oil imports		17 463	16 599	17 614	15 749	15 635	16 479
Net gas imports		728	719	712	714	699	767
Gross inland energy consumption		51 576	50 271	50 699	50 812	47 844	51 597
Final energy consumption		34 621	34 143	34 215	34 065	34 534	33 186
Industry		12 867	13 114	13 037	13 043	13 611	12 713
Transport		7 615	7 687	7 779	7 997	8 118	8 577
Services and households etc.		14 139	13 342	13 398	13 026	12 805	11 896
Gross electricity generation	GWh	140 633	149 422	158 275	155 171	145 585	161 704
Final electricity consumption		126 004	125 361	126 439	126 580	128 725	132 667
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	192 362	197 042	204 218	213 560	222 867	225 379
Population	1000 per.	8 841	8 846	8 851	8 858	8 872	8 896
Industry added value	Mio EUR	52 501	55 193	58 417	62 734	68 170	67 541
Total imports (current prices)	Mio EUR	63 597	71 574	79 671	83 549	93 178	89 910
among which:							
All energy commodities		4 334	4 454	2 804	3 856	7 147	5 928
Oil products		3 942	4 043	2 480	3 408	6 436	5 226
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	268.1	255.1	248.3	237.9	214.7	228.9
Final energy consumption / GDP(95)		180.0	173.3	167.5	159.5	155.0	147.2
Energy intensity of industry:							
Final consumption / gross value-added mp		245.1	237.6	223.2	207.9	199.7	188.2
Energy intensity of service sector:							
Final consumption / gross value-added mp		44.1	38.6	37.9	38.3	36.4	28.9
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	5 834	5 683	5 728	5 736	5 393	5 800
Final energy consumption / capita		3 916	3 860	3 866	3 846	3 892	3 730
Household consumption / capita		960	929	922	867	850	856
Electricity consumption / capita	kWh/cap.	10 729	8 749	8 244	8 535	8 024	8 398
Energy dependency							
Net energy imports / Gross consumption	in %	40.0	38.0	37.7	34.4	38.8	35.9
Net oil imports / Gross consumption		33.2	32.2	33.7	30.1	31.8	31.1
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	67.1	67.9	67.5	67.0	72.2	64.3
Efficiency of thermal power stations		76.8	85.4	81.7	83.7	85.6	87.9

2. Energy balance

Principal aggregates by product

 eurostat	SWEDEN						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	31 637	32 170	33 178	33 257	30 144	33 843	12.3%
among which:							
Hard coal	-	-	-	-	-	-	-
Lignite and peat	307	275	342	249	231	284	23.0%
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	19 159	18 038	18 554	18 879	14 781	18 601	25.8%
Hydro-electricity	4 449	5 934	6 391	6 164	6 757	6 805	0.7%
Biomass	7 706	7 901	7 859	7 929	8 330	8 106	-2.7%
Imports							
Total	31 714	30 862	30 403	29 182	31 209	30 332	-2.8%
among which:							
Hard coal	2 199	2 262	2 079	2 019	2 137	2 117	-0.9%
Crude oil and feedstocks	19 436	20 510	20 275	19 721	20 938	20 030	-4.3%
Petroleum products	7 730	6 205	6 554	5 762	5 635	6 179	9.7%
Natural Gas	728	719	712	714	699	767	9.8%
Electricity	1 366	882	525	727	1 574	957	-39.2%
Exports							
Total	10 619	11 257	10 716	11 163	12 133	11 341	-6.5%
among which:							
Crude oil and feedstocks	449	408	400	446	566	544	-3.9%
Petroleum products	9 255	9 708	8 815	9 289	10 372	9 186	-11.4%
Natural gas	-	-	-	-	-	-	-
Electricity	838	1 114	1 444	1 370	1 172	1 587	35.4%
Gross inland consumption							
Total	51 576	50 271	50 699	50 812	47 844	51 597	7.8%
among which:							
Solid fuels	3 064	2 611	2 582	2 438	2 442	2 775	13.6%
Crude oil and petrol. prod.	15 924	15 279	15 411	15 197	14 363	15 098	5.1%
Natural gas	728	719	712	714	699	767	9.8%
Nuclear Energy	19 159	18 038	18 554	18 879	14 781	18 601	25.8%
Renewables	12 171	13 857	14 282	14 129	15 132	14 959	-1.1%
Transformation input							
Total	47 410	46 059	46 493	46 794	42 467	46 286	9.0%
among which:							
Crude oil and feedstocks	20 636	21 733	21 384	21 340	21 618	20 917	-3.2%
Petroleum products	1 937	993	1 099	907	521	726	39.3%
Hard coal	2 064	1 680	1 682	1 700	1 632	1 743	6.8%
Lignite and peat	271	268	324	242	200	238	19.0%
Renewables	2 523	2 492	2 460	2 699	2 868	3 111	8.5%
Transformation output							
Total	33 650	33 518	33 523	33 770	32 301	32 387	0.3%
among which:							
Electricity	7 628	6 888	7 194	7 144	5 719	7 053	23.3%
Heat	4 231	3 781	3 867	3 982	3 777	3 983	5.4%

Final energy consumption

Total	34 621	34 143	34 215	34 065	34 534	33 186	-3.9%
<i>among which:</i> Solid fuels	1 180	1 135	1 071	1 013	1 141	1 153	1.1%
Petroleum products	12 852	12 519	12 541	12 507	12 655	11 142	-11.9%
Natural Gas	404	400	369	418	423	461	9.0%
Renewables	5 183	5 409	5 399	5 230	5 462	4 995	-8.5%
Electricity	10 834	10 779	10 872	10 884	11 068	11 407	3.1%

Final energy consumption by sector
Industry

Total	12 867	13 114	13 037	13 043	13 611	12 713	-6.6%
<i>among which:</i> Solid fuels	1 179	1 132	1 070	1 013	1 141	1 153	1.1%
Petroleum Products	2 141	2 041	2 066	1 980	1 909	1 479	-22.5%
Natural Gas	275	280	237	286	289	334	15.6%
Renewables	4 185	4 430	4 424	4 386	4 833	4 401	-8.9%
Electricity	4 486	4 600	4 675	4 813	4 896	4 764	-2.7%


Transport

Total	7 615	7 687	7 779	7 997	8 118	8 577	5.7%
<i>among which:</i> Motor spirit	4 425	4 341	4 226	4 246	4 185	4 167	-0.4%
Diesel oil	2 074	2 194	2 398	2 519	2 692	3 155	17.2%
Jet fuel	842	869	879	939	928	946	1.9%
Electricity	264	254	240	259	275	268	-2.3%


Services&households

Total	14 139	13 342	13 398	13 026	12 805	11 896	-7.1%
<i>among which:</i> Solid fuels	1	3	1	-	-	-	-
Gas oil	2 982	2 705	2 615	2 468	2 778	1 320	-52.5%
Natural Gas	129	120	132	131	134	127	-5.3%
Renewables	998	979	975	844	629	594	-5.6%
Electricity	6 085	5 925	5 956	5 812	5 898	6 375	8.1%
Heat	3 529	3 233	3 358	3 411	3 206	3 407	6.3%


3.1 Electricity balance

 eurostat	SWEDEN						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	140 633	149 422	158 275	155 171	145 585	161 704	11.1%
<i>among which:</i>							
Hydro	51 775	69 056	74 378	71 713	78 619	79 192	0.7%
Wind	144	203	316	371	457	481	5.3%
Geothermal	-	-	-	-	-	-	-
Nuclear	74 274	69 928	73 583	73 188	57 316	72 109	25.8%
Conventional thermal	14 440	10 235	9 998	9 899	9 193	9 922	7.9%
<i>of which:</i>							
Hard coal	3 860	2 106	2 102	2 242	1 636	2 142	30.9%
Lignite and peat	-	-	-	-	-	-	-
Petroleum products	7 222	3 831	3 264	3 094	1 729	2 697	56.0%
Natural gas	574	610	431	398	462	382	-17.3%
Derived gases	593	792	1 113	998	953	1 119	17.4%
Biomass	2 191	2 835	2 760	2 646	4 206	3 348	-20.4%
Industrial wastes	-	61	328	521	207	234	13.0%
Total net generation	136 556	143 169	153 788	150 783	141 873	157 807	11.2%
Imports and exports							
Total imports	15 885	10 252	6 102	8 456	18 308	11 135	-39.2%
Total exports	9 746	12 960	16 799	15 938	13 630	18 454	35.4%
Consumption and losses							
Consumption of the energy branch	10 387	10 865	10 912	10 504	10 409	9 739	-6.4%
<i>of which:</i>							
Consumption for pumped-storage	15	19	17	10	14	20	42.9%
Network losses	10 346	10 430	10 935	10 570	11 094	11 932	7.6%
Final energy consumption	126 004	125 361	126 439	126 580	128 725	132 667	3.1%
<i>of which:</i>							
Industry	52 169	53 496	54 369	55 971	56 938	55 402	-2.7%
<i>among which:</i>							
Iron&steel industry	4 944	5 177	4 997	4 963	5 365	5 272	-1.7%
Non-ferrous metals	2 651	2 696	2 700	2 664	2 799	2 812	0.5%
Chemical industry	4 529	4 896	5 988	5 998	5 423	5 408	-0.3%
Non-met. mineral prod.	1 235	1 123	1 115	1 127	1 174	1 253	6.7%
Food, drink, tobacco	2 583	2 369	2 435	2 512	2 989	2 637	-11.8%
Pulp, paper and print	19 573	20 131	21 091	21 584	23 564	21 662	-8.1%
Engineering & metal	6 978	4 349	4 269	4 214	4 348	4 356	0.2%
Other industries	6 975	9 829	8 929	10 122	8 375	9 197	9.8%
Transport	3 067	2 955	2 796	3 016	3 194	3 119	-2.3%
Services & households etc.	70 768	68 910	69 274	67 593	68 593	74 146	8.1%
<i>among which:</i>							
Households	43 321	42 575	42 496	40 163	42 020	45 074	7.3%

3.2 Electrical capacity, fuel inputs and heat


		SWEDEN						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	34 158	34 536	33 029	34 080	33 721	33 652	-0.2%
<i>by source:</i>								
Conventional thermal		7 795	7 869	6 508	7 375	7 526	7 342	-2.4%
<i>of which:</i>								
Steam		5 989	5 884	4 437	5 314	5 337	5 178	-3.0%
Gas turbine		1 713	1 905	1 904	1 812	1 932	1 932	0.0%
Combined cycle		-	-	95	146	175	175	0.0%
Internal combustion		93	80	72	103	82	57	-30.5%
Nuclear		10 055	10 083	10 083	10 076	9 461	9 453	-0.1%
Hydro		16 203	16 462	16 260	16 433	16 525	16 564	0.2%
<i>among which:</i>								
Pumped storage		427	91	91	19	19	19	0.0%
Wind		105	122	178	196	209	293	40.2%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		32 775	33 025	32 082	33 065	32 714	32 641	-0.2%
Autoproducers		1 383	1 511	947	1 018	1 010	1 011	0.1%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	4 338	3 215	3 454	3 424	3 146	3 325	5.7%
<i>among which:</i>								
Hard coal		844	464	442	432	361	358	-0.8%
Lignite and peat		146	146	224	115	106	145	37.3%
Petroleum products		1 390	618	656	589	276	405	47.0%
Natural gas		265	252	256	222	184	215	17.0%
Renewables		1 513	1 548	1 587	1 777	1 996	1 939	-2.9%
Heating plants		1 642	1 409	1 380	1 410	1 219	1 561	28.1%
<i>among which:</i>								
Hard coal		28	18	2	3	1	1	100.0%
Lignite and peat		125	122	100	126	95	93	-1.5%
Petroleum products		452	279	354	242	176	236	34.0%
Natural gas		23	38	48	75	71	57	-19.9%
Renewables		1 010	944	873	922	872	1 172	34.4%
Heat production and consumption								
Total heat production	TJ	4 231	3 781	3 867	3 982	3 777	3 983	5.4%
<i>among which: in heating plants</i>								
		2 141	1 910	1 910	1 968	1 874	1 912	2.0%
Heat consumption		3 905	3 644	3 714	3 767	3 550	3 768	6.1%
<i>of which: in industry</i>								
		375	410	356	356	344	361	4.9%
<i>in households and services</i>								
		3 529	3 233	3 358	3 411	3 206	3 407	6.3%
<i>among which: in households</i>								
		2 167	2 125	2 195	2 233	2 081	2 237	7.5%

4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	SWEDEN						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		-	-	-	-	-	-	-
Total imports		19 397	20 473	20 241	19 693	20 901	20 040	-4.1%
Total exports		442	402	394	439	558	536	-3.9%
Stock changes		135	-90	-125	30	-115	-177	-53.9%
Refinery intake		20 586	21 683	21 335	21 294	21 569	20 918	-3.0%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		4 635	4 635	4 979	3 938	3 892	5 341	37.2%
Near and Middle East		3 388	3 388	3 523	3 019	2 596	4 227	62.8%
Africa		135	135	464	34	296	279	-5.7%
<i>by country of origin:</i>								
Algeria		-	-	-	-	-	-	-
Nigeria		135	135	373	-	266	252	-5.3%
Saudi Arabia		2 013	2 013	1 648	1 065	832	1 146	37.7%
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		8 818	8 818	9 775	10 459	9 601	9 143	-4.8%
Refining capacity								
Capacity at the end of year	1 000 t/year	20 100	20 100	19 200	19 200	19 200	:	
<i>among which:</i>								
Cracking and others		5 900	5 900	6 540	6 540	6 540	:	
Reforming		2 900	2 900	3 500	3 500	3 500	:	

4.2 Petroleum products


eurostat	SWEDEN							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Production and supply								
Total refinery output		20 367	21 405	21 001	21 160	21 368	19 846	-7.1%
<i>among which:</i>								
Motor spirit		4 345	4 571	4 336	4 303	4 394	4 020	-8.5%
Kerosene and jet fuel		217	150	101	72	112	143	27.7%
Naphtha		1 491	1 452	1 613	1 847	1 320	1 026	-22.3%
Gas/diesel oil		7 126	7 618	7 510	7 452	7 765	7 677	-1.1%
Residual fuel oil		5 824	6 230	5 959	5 673	6 403	5 519	-13.8%
Total imports		7 621	6 017	6 395	5 571	5 453	5 984	9.7%
Total exports		9 340	9 729	8 835	9 281	10 375	9 165	-11.7%
Bunkers		1 136	1 347	1 609	1 553	1 396	1 429	2.4%
Stock changes		-581	74	-556	951	190	175	-7.9%
Gross inland consumption		-3 436	-4 985	-4 605	-4 312	-6 128	-4 435	27.6%
Imports and exports								
Imports by origin								
<i>among which:</i>								
Netherlands		172	172	88	63	76	42	-44.7%
United Kingdom		631	631	660	403	590	625	5.9%
Norway		775	775	838	837	442	963	117.9%
OPEC		364	64	109	110	101	33	-67.3%
Imports by product								
<i>among which:</i>								
Motor spirit		1 423	1 523	1 581	1 600	1 593	1 619	1.6%
Kerosene and jet fuel		578	754	673	694	754	839	11.3%
Gas/diesel oil		1 816	1 334	1 631	1 548	1 282	1 267	-1.2%
Residual fuel oil		1 829	686	923	475	519	715	37.8%
Exports by product								
<i>among which:</i>								
Motor spirit		1 541	2 128	1 893	2 062	1 993	1 705	-14.5%
Kerosene and jet fuel		117	10	17	22	45	-	
Gas/diesel oil		3 452	3 497	3 198	3 651	3 859	3 771	-2.3%
Residual fuel oil		3 060	3 286	2 993	2 752	3 538	3 041	-14.0%
Consumption								
Inputs to electricity plants		1 434	642	678	609	285	419	47.0%
Inputs to heating plants		466	284	362	246	178	240	34.8%
Non-energy use		1 852	1 887	1 643	1 697	1 441	2 136	48.2%
Final energy consumption		12 573	12 236	12 254	12 223	12 361	10 879	-12.0%
Industry								
<i>among which by product:</i>								
Gas/diesel oil		430	439	418	425	429	273	-36.4%
Residual fuel oil		1 104	951	900	899	858	893	4.1%

 eurostat	SWEDEN						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Industry							
<i>among which by sector:</i>							
Iron&steel industry	318	301	315	309	301	303	0.7%
Non-ferrous metals	31	26	27	28	36	23	-36.1%
Chemical industry	275	305	366	311	308	84	-72.7%
Non-met. mineral prod.	147	138	146	171	174	130	-25.3%
Food, drink, tobacco	213	194	184	180	133	150	12.8%
Pulp, paper and print	617	553	507	500	500	485	-3.0%
Engineering & metal	232	209	200	181	152	149	-2.0%
Other industries	196	205	192	185	224	65	-71.0%
Transport	7 094	7 179	7 288	7 483	7 590	8 052	6.1%
<i>among which:</i>							
Motor spirit	4 211	4 131	4 021	4 040	3 982	3 965	-0.4%
Jet fuel	820	846	856	914	904	921	1.9%
Diesel oil	2 053	2 172	2 374	2 493	2 665	3 123	17.2%
Services & households etc.	3 341	3 028	2 919	2 773	2 874	1 342	-53.3%
<i>among which:</i>							
Gas oil	2 952	2 677	2 588	2 443	2 750	1 307	-52.5%
Residual fuel oil	347	318	298	289	83	35	-57.8%
Stocks at end of period							
Crude oil and feedstocks	1 177	1 267	1 392	1 362	1 474	1 611	9.3%
Petroleum products	4 292	4 218	4 774	3 823	3 719	3 108	-16.4%


5. Natural gas

 eurostat	SWEDEN								
	in TJ (GCV)		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply									
Primary production		-	-	-	-	-	-	-	-
Total imports		33 866	33 439	33 127	33 205	32 508	35 685	9.8%	
Total exports		-	-	-	-	-	-	-	
Stock changes		-	-	-	-	-	-	-	
Gross inland consumption		33 866	33 439	33 127	33 205	32 508	35 685	9.8%	
Imports									
Imports by origin									
<i>among which:</i>									
CIS		-	-	-	-	-	-	-	
Algeria		-	-	-	-	-	-	-	
Norway		-	-	-	-	-	-	-	
Consumption									
Inputs to electricity plants		12 325	11 741	11 892	10 324	8 572	10 025	17.0%	
Inputs to heat plants		1 089	1 788	2 255	3 475	3 299	2 644	-19.9%	
Consumption of energy branch		78	117	116	-	-	-	-	
Distribution losses		-	-	-	-	-	-	-	
Non-energy use		-	-	-	-	-	-	-	
Industry		12 791	13 026	11 043	13 324	13 440	15 536	15.6%	
<i>among which:</i>									
Iron&steel industry		894	894	778	894	335	879	162.4%	
Non-ferrous metals		194	389	311	311	377	335	-11.1%	
Chemical industry		2 294	2 605	2 294	2 216	3 810	3 977	4.4%	
Non-met. mineral prod.		855	1 011	894	894	1 089	2 345	115.3%	
Food, drink, tobacco		4 666	4 044	3 655	4 821	4 564	4 773	4.6%	
Pulp, paper and print		2 255	2 177	1 439	2 294	1 800	2 010	11.7%	
Engineering & metal		1 283	1 206	894	785	460	-	-	
Other industries		505	544	622	972	879	1 091	24.1%	
Transport		-	-	-	-	-	-	-	
Services & households etc.		5 987	5 598	6 143	6 104	6 237	5 904	-5.3%	
<i>among which:</i>									
Households		2 255	2 138	3 421	4 160	3 351	3 898	16.3%	
Services		3 732	3 460	2 722	1 944	2 886	2 006	-30.5%	


6.1 Hard coal


 eurostat	SWEDEN							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production	-	-	-	-	-	-	-	-
Total imports	3 246	3 340	3 069	2 930	3 092	3 064	-0.9%	
Total exports	59	2	2	2	2	2	0.0%	
Stock changes	450	-215	-78	-69	-229	209		
Gross inland consumption	3 637	3 123	2 989	2 859	2 861	3 271	14.3%	
Imports								
Imports by origin								
<i>among which:</i>								
USA	930	915	832	548	595	487	-18.2%	
Poland	1 261	1 062	787	894	698	280	-59.9%	
CIS	299	267	183	188	321	345	7.5%	
Australia	513	798	851	1 009	1 073	1 167	8.8%	
South Africa	-	-	-	-	-	-	-	
Colombia	-	-	-	115	120	166	38.3%	
Consumption								
Inputs to electricity plants	1 297	696	702	600	501	497	-0.8%	
Inputs to heat plants	46	29	4	5	1	2	100.0%	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry	730	763	724	656	767	872	13.7%	
<i>among which:</i>								
Iron&steel industry	246	285	288	307	313	483	54.3%	
Non-ferrous metals	58	54	57	57	65	56	-13.8%	
Chemical industry	1	-	-	-	-	-	-	
Non-met. mineral prod.	276	255	244	179	252	252	0.0%	
Food, drink, tobacco	21	21	19	21	19	-	-	
Pulp, paper and print	39	37	29	30	31	15	-51.6%	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	1	2	-	-	
Services & households etc.	2	2	2	-	-	-	-	
Structural data								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

6.2 Coal derivatives and peat

	SWEDEN						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	1 150	1 160	1 148	1 145	1 146	1 148	0.2%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	1 026	921	1 145	835	773	951	23.0%
Brown coal briquettes	-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	9 408	9 137	9 087	10 021	9 684	10 316	6.5%
Blast-furnace gas	14 360	15 203	16 192	16 712	15 010	17 114	14.0%
Gasworks gas	2 042	1 971	2 077	2 003	1 875	1 948	3.9%
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	1 014	928	866	856	947	854	-9.8%
<i>among which:</i>							
Iron & steel industry	948	863	796	784	873	788	-9.7%
Services & households	-	2	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	41	26	22	26	10	33	230.0%
<i>among which:</i>							
Industry	41	26	22	26	10	33	230.0%
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	11	4	14	5	3	8	166.7%
<i>among which:</i>							
Industry	11	4	14	5	3	8	166.7%
Services & households	-	-	-	-	-	-	-
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	4 387	4 304	4 066	4 524	4 395	4 309	-2.0%
Blast-furnace gas	5 196	5 106	4 855	4 417	4 207	5 175	23.0%
Gasworks gas	1 825	1 801	1 892	1 840	1 599	1 720	7.6%
Inputs to electricity plants	7 653	7 879	8 897	9 727	8 378	9 974	19.0%
Inputs to heat plants	147	331	148	132	192	89	-53.6%
Consumption of energy branch	4 364	4 354	4 484	4 995	4 794	4 933	2.9%
Consumption in industry	9 884	9 711	9 172	9 226	8 801	9 688	10.1%

7. Renewable energy sources

		SWEDEN						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	12 171	13 857	14 282	14 129	15 132	14 959	-1.1%
Hydro (excl. pumping)		4 449	5 934	6 391	6 164	6 757	6 805	0.7%
Wind		12	18	27	31	39	41	5.3%
Solar		4	4	5	5	5	6	10.8%
Geothermal		-	-	-	-	-	-	-
Biomass		7 706	7 901	7 859	7 929	8 330	8 106	-2.7%
	<i>among which:</i>							
Wood, wood-waste		7 198	7 353	7 340	7 406	7 733	7 574	-2.1%
Municipal solid waste		392	424	416	421	498	420	-15.8%
Biogas		115	124	103	102	99	112	13.5%
Gross inland consumption		12 171	13 857	14 282	14 129	15 132	14 959	-1.1%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		2 523	2 492	2 460	2 699	2 868	3 111	8.5%
	<i>among which:</i>							
Wood, wood-waste		2 015	1 944	1 941	2 176	2 271	2 579	13.6%
Municipal waste		392	424	416	421	498	420	-15.8%
Biogas		115	124	103	102	99	112	13.5%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	5 187	5 413	5 404	5 235	5 467	5 001	-8.5%
	<i>by sector:</i>							
Industry		4 185	4 430	4 424	4 386	4 833	4 401	-8.9%
Services & households etc.		1 002	983	980	849	634	600	-5.4%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		5 183	5 409	5 399	5 230	5 462	4 995	-8.5%
	<i>among which:</i>							
Wood, wood-waste		5 183	5 409	5 399	5 230	5 462	4 995	-8.5%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		598	1 786	859	664	753	612	-18.7%
Hydro with installed capacity > 1 & <10 MW		2 334	2 582	3 589	3 291	3 427	3 195	-6.8%
Hydro with installed capacity > 10 MW		48 605	64 560	69 894	67 735	74 404	75 338	1.3%
Wood, Wood-waste		2 016	2 685	2 573	2 507	3 943	3 059	-22.4%
Municipal waste		124	104	183	130	231	264	14.3%
Biogas		51	46	21	9	32	25	-21.9%

		SWEDEN						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	3	-	-	-
Hydro with installed capacity < 1 MW		209	209	171	168	178	157	-11.8%
Hydro with installed capacity > 1 & <10 MW		764	760	765	775	741	778	5.0%
Hydro with installed capacity > 10 MW		14 778	15 416	15 483	15 470	15 587	15 609	0.1%
Wood, Wood-waste		1 437	1 331	1 331	1 490	1 490	1 778	19.3%
Municipal waste		76	73	73	77	77	76	-1.3%
Biogas		-	-	-	18	18	19	5.6%
Liquid biofuels								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
Solar Panels								
Solar panel surface	<i>1000 m²</i>	161	173	181	185	207	229	10.6%


1. Energy economy

Key figures and energy indicators

eurostat		UNITED KINGDOM					
		1996	1997	1998	1999	2000	2001
Energy statistics							
Primary energy production	1000 toe	261 292	261 484	268 787	276 823	268 299	258 076
Net energy imports		-33 265	-34 389	-36 385	-46 945	-39 031	-20 832
Net oil imports		-46 808	-48 055	-50 264	-55 324	-45 515	-35 420
Net gas imports		356	-588	-1 627	-5 539	-9 310	-8 348
Gross inland energy consumption		228 248	222 539	230 165	228 717	230 639	232 494
Final energy consumption		150 432	147 727	148 480	151 583	151 483	151 861
Industry		36 396	36 422	35 274	36 748	35 852	35 194
Transport		48 735	49 445	50 045	51 822	52 066	51 098
Services and households etc.		65 300	61 859	63 161	63 013	63 565	65 569
Gross electricity generation	GWh	347 383	345 378	362 015	368 363	377 309	385 827
Final electricity consumption		305 656	309 252	315 644	322 770	329 533	333 806
Socio-economic statistics							
Gross domestic product	Mio EUR 1995	890 512	921 174	948 103	970 951	1 000 879	1 022 000
Population	1000 per.	58 704	59 009	59 240	59 507	59 759	60 004
Industry added value	Mio EUR	250 891	254 230	256 841	258 845	263 195	260 012
Total imports (current prices)	Mio EUR	274 154	279 246	287 103	304 284	342 214	349 839
among which:							
All energy commodities		8 553	9 354	6 966	7 960	15 710	16 299
Oil products		6 963	7 448	5 218	6 295	13 467	13 570
Energy intensity							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	256.3	241.6	242.8	235.6	230.4	227.5
Final energy consumption / GDP(95)		168.9	160.4	156.6	156.1	151.4	148.6
Energy intensity of industry:							
Final consumption / gross value-added mp		145.1	143.3	137.3	142.0	136.2	135.4
Energy intensity of service sector:							
Final consumption / gross value-added mp		34.9	32.8	31.3	30.9	29.4	29.2
Energy consumption per inhabitant							
Gross inland consumption / capita	kgoe/cap.	3 888	3 771	3 885	3 844	3 859	3 875
Final energy consumption / capita		2 563	2 503	2 506	2 547	2 535	2 531
Household consumption / capita		756	702	722	712	721	744
Electricity consumption / capita	kWh/cap.	6 110	6 027	6 191	6 276	6 405	6 480
Energy dependency							
Net energy imports / Gross consumption	in %	-14.4	-15.3	-15.6	-20.3	-16.8	-8.9
Net oil imports / Gross consumption		-20.3	-21.3	-21.6	-23.9	-19.6	-15.1
Energy efficiency							
Final energy consumption/Gross inland consumption	in %	65.9	66.4	64.5	66.3	65.7	65.3
Efficiency of thermal power stations		41.7	42.0	40.7	44.3	44.0	43.3

2. Energy balance

Principal aggregates by product

 eurostat	UNITED KINGDOM						
	in 1 000 toe						
	1996	1997	1998	1999	2000	2001	01/00
Primary production							
Total	261 292	261 484	268 787	276 823	268 299	258 076	-3.8%
among which:							
Hard coal	29 274	28 678	25 155	21 533	18 221	18 764	3.0%
Lignite and peat	-	-	-	-	-	-	-
Crude oil	132 060	130 229	134 373	139 150	127 882	118 156	-7.6%
Natural Gas	75 887	77 258	81 131	89 161	97 654	95 219	-2.5%
Nuclear heat	22 180	23 248	25 831	24 540	21 942	23 240	5.9%
Hydro-electricity	289	355	450	461	437	349	-20.3%
Biomass	1 553	1 652	1 763	1 897	2 069	2 251	8.8%
Imports							
Total	75 523	75 840	77 360	75 166	87 767	97 491	11.1%
among which:							
Hard coal	12 074	13 227	14 804	13 053	14 946	22 657	51.6%
Crude oil and feedstocks	50 884	50 768	48 683	45 563	55 104	54 240	-1.6%
Petroleum products	9 037	8 724	11 395	14 011	14 134	17 207	21.7%
Natural Gas	1 533	1 088	819	995	2 015	2 357	17.0%
Electricity	1 437	1 429	1 086	1 247	1 230	917	-25.5%
Exports							
Total	108 788	110 229	113 745	122 111	126 797	118 322	-6.7%
among which:							
Crude oil and feedstocks	82 850	80 634	85 894	93 171	94 129	87 850	-6.7%
Petroleum products	23 879	26 913	24 448	21 728	20 624	19 016	-7.8%
Natural gas	1 177	1 677	2 446	6 534	11 325	10 705	-5.5%
Electricity	3	4	14	23	12	23	97.0%
Gross inland consumption							
Total	228 248	222 539	230 165	228 717	230 639	232 494	0.8%
among which:							
Solid fuels	44 228	39 820	41 030	34 216	35 945	39 638	10.3%
Crude oil and petrol. prod.	82 511	79 751	80 555	82 102	81 399	79 169	-2.7%
Natural gas	75 962	76 179	79 342	84 160	87 500	86 821	-0.8%
Nuclear Energy	22 180	23 248	25 831	24 540	21 942	23 240	5.9%
Renewables	1 891	2 071	2 296	2 438	2 599	2 697	3.7%
Transformation input							
Total	179 646	179 488	183 455	175 335	177 161	175 245	-1.1%
among which:							
Crude oil and feedstocks	98 318	98 665	95 351	89 739	89 299	85 717	-4.0%
Petroleum products	3 187	1 611	1 067	646	1 471	1 267	-13.8%
Hard coal	37 547	33 501	36 918	30 150	33 342	35 402	6.2%
Lignite and peat	-	-	-	-	-	-	-
Renewables	668	794	972	1 273	1 515	1 691	11.6%
Transformation output							
Total	135 330	135 042	132 853	128 503	128 958	124 340	-3.6%
among which:							
Electricity	29 405	29 157	30 462	30 890	31 692	32 541	2.7%
Heat	-	-	-	2 498	2 515	2 314	-8.0%

Final energy consumption

Total	150 432	147 727	148 480	151 583	151 483	151 861	0.2%
<i>among which:</i> Solid fuels	8 367	8 032	7 282	6 943	5 546	5 880	6.0%
Petroleum products	62 202	61 590	61 690	63 107	62 480	62 321	-0.3%
Natural Gas	50 882	48 745	50 270	49 633	51 115	51 848	1.4%
Renewables	885	858	791	624	553	559	1.0%
Electricity	26 282	26 591	27 140	27 753	28 335	28 702	1.3%

Final energy consumption by sector
Industry

Total	36 396	36 422	35 274	36 748	35 852	35 194	-1.8%
<i>among which:</i> Solid fuels	5 375	5 230	4 706	4 762	3 789	3 926	3.6%
Petroleum Products	7 194	6 529	6 157	6 423	6 019	6 338	5.3%
Natural Gas	12 673	13 279	13 626	13 683	14 063	13 878	-1.3%
Renewables	520	519	450	280	210	211	0.7%
Electricity	8 867	9 006	9 075	9 532	9 780	9 667	-1.2%


Transport

Total	48 735	49 445	50 045	51 822	52 066	51 098	-1.9%
<i>among which:</i> Motor spirit	23 581	23 422	22 996	23 792	22 757	22 060	-3.1%
Diesel oil	16 138	16 645	16 768	17 031	17 358	17 620	1.5%
Jet fuel	8 227	8 587	9 456	10 186	11 140	10 556	-5.2%
Electricity	638	667	720	736	747	760	1.8%


Services&households

Total	65 300	61 859	63 161	63 013	63 565	65 569	3.2%
<i>among which:</i> Solid fuels	2 992	2 802	2 576	2 182	1 757	1 954	11.2%
Gas oil	3 011	2 720	2 603	2 290	2 136	1 845	-13.6%
Natural Gas	38 209	35 467	36 644	35 950	37 052	37 971	2.5%
Renewables	364	338	341	343	344	348	1.3%
Electricity	16 776	16 917	17 345	17 485	17 808	18 274	2.6%
Heat	-	-	-	1 412	1 416	1 326	-6.3%


3.1 Electricity balance

 eurostat	UNITED KINGDOM						
	in GWh						
	1996	1997	1998	1999	2000	2001	01/00
Generation							
Total gross generation	347 383	345 378	362 015	368 363	377 309	385 827	2.3%
<i>among which:</i>							
Hydro	4 917	5 613	6 861	8 263	7 780	6 412	-17.6%
Wind	486	665	877	850	946	965	2.0%
Geothermal	-	-	-	-	-	-	-
Nuclear	94 671	98 146	100 140	95 133	85 063	90 093	5.9%
Conventional thermal	247 309	240 954	254 137	264 117	283 520	288 357	1.7%
<i>of which:</i>							
Hard coal	145 830	119 793	122 862	106 112	119 960	131 463	9.6%
Lignite and peat	-	-	-	-	-	-	-
Petroleum products	13 872	8 056	6 489	5 685	8 548	7 142	-16.4%
Natural gas	82 068	107 457	117 124	143 052	148 237	142 567	-3.8%
Derived gases	3 333	3 062	4 423	5 289	2 352	2 107	-10.4%
Biomass	1 881	2 250	2 917	3 979	4 358	5 076	16.5%
Industrial wastes	325	336	322	-	65	2	-96.9%
Total net generation	329 686	329 080	344 329	351 670	360 975	368 451	2.1%
Imports and exports							
Total imports	16 714	16 615	12 630	14 507	14 308	10 663	-25.5%
Total exports	37	41	162	263	134	264	97.0%
Consumption and losses							
Consumption of the energy branch	27 248	25 524	28 053	27 147	28 015	27 851	-0.6%
<i>of which:</i>							
Consumption for pumped-storage	874	991	970	872	805	854	6.1%
Network losses	29 601	25 691	29 162	29 789	31 241	32 213	3.1%
Final energy consumption	305 656	309 252	315 644	322 770	329 533	333 806	1.3%
<i>of which:</i>							
Industry	103 129	104 744	105 547	110 856	113 741	112 431	-1.2%
<i>among which:</i>							
Iron&steel industry	10 528	10 355	9 699	9 779	9 898	9 607	-2.9%
Non-ferrous metals	5 207	5 281	5 698	5 895	6 012	6 115	1.7%
Chemical industry	19 018	18 967	19 493	21 348	22 947	22 515	-1.9%
Non-met. mineral prod.	7 504	7 257	7 051	7 265	7 414	7 386	-0.4%
Food, drink, tobacco	11 326	11 564	11 765	12 617	12 003	12 139	1.1%
Pulp, paper and print	9 545	9 850	10 651	11 068	11 345	11 182	-1.4%
Engineering & metal	19 818	19 957	20 143	20 429	21 105	21 121	0.1%
Other industries	17 024	17 775	17 381	18 704	19 108	18 418	-3.6%
Transport	7 425	7 760	8 372	8 558	8 684	8 843	1.8%
Services & households etc.	195 102	196 748	201 725	203 356	207 108	212 532	2.6%
<i>among which:</i>							
Households	107 513	104 455	109 610	110 308	111 842	115 336	3.1%


3.2 Electrical capacity, fuel inputs and heat


		UNITED KINGDOM						
		1996	1997	1998	1999	2000	2001	01/00
Net electrical capacity								
Total installed capacity	MW	73 372	72 785	73 345	75 605	78 569	79 794	1.6%
<i>by source:</i>								
Conventional thermal		55 973	55 235	55 795	58 033	61 398	62 585	1.9%
<i>of which:</i>								
Steam		40 951	40 181	38 327	37 990	37 273	37 268	0.0%
Gas turbine		2 346	2 186	1 492	2 017	2 026	2 024	-0.1%
Combined cycle		12 302	12 575	15 418	17 058	21 138	22 293	5.5%
Internal combustion		224	183	156	171	176	175	-0.6%
Nuclear		12 916	12 946	12 956	12 956	12 486	12 486	0.0%
Hydro		4 245	4 282	4 263	4 265	4 273	4 296	0.5%
<i>among which:</i>								
Pumped storage		2 788	2 788	2 788	2 788	2 788	2 788	0.0%
Wind		238	322	331	351	412	427	3.6%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		69 066	68 288	68 390	70 057	72 030	73 219	1.7%
Autoproducers		4 306	4 497	4 955	5 548	6 539	6 575	0.6%
Fuel consumption in electricity and heat production								
Conventional thermal power plants	1 000 toe	50 963	49 328	53 748	51 286	55 442	57 203	3.2%
<i>among which:</i>								
Hard coal		31 137	27 083	30 157	24 159	27 195	30 061	10.5%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		3 187	1 611	1 067	646	806	624	-22.5%
Natural gas		15 630	19 488	20 719	24 415	25 137	24 117	-4.1%
Renewables		668	794	972	1 169	1 410	1 621	14.9%
Heating plants		-	-	-	2 130	2 813	2 468	-12.3%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	665	643	-3.3%
Natural gas		-	-	-	2 026	2 043	1 754	-14.1%
Renewables		-	-	-	104	105	71	-32.9%
Heat production and consumption								
Total heat production	TJ	-	-	-	2 498	2 515	2 314	-8.0%
<i>among which: in heating plants</i>								
		-	-	-	2 498	2 515	2 314	-8.0%
Heat consumption		-	-	-	2 498	2 515	2 311	-8.1%
<i>of which: in industry</i>								
		-	-	-	1 086	1 099	985	-10.4%
<i>in households and services</i>								
		-	-	-	1 412	1 416	1 326	-6.3%
<i>among which: in households</i>								
		-	-	-	44	44	32	-28.2%

4.1 Crude oil and feedstocks


 in 1 000 t		UNITED KINGDOM						
		1996	1997	1998	1999	2000	2001	01/00
Primary production and supply								
Primary production		130 007	128 234	132 367	137 099	126 245	116 679	-7.6%
Total imports		50 099	49 994	47 957	44 891	54 387	53 551	-1.5%
Total exports		81 563	79 399	84 612	91 797	92 918	86 746	-6.6%
Stock changes		-356	-207	-593	-198	1 098	-648	
Refinery intake		96 794	97 157	93 928	88 415	88 144	84 629	-4.0%
Imports of Crude Oil by origin								
<i>by region of origin:</i>								
OPEC		9 078	6 642	7 079	4 145	4 050	3 672	-9.3%
Near and Middle East		3 386	2 955	4 872	1 587	2 365	2 022	-14.5%
Africa		2 770	697	1 105	2 411	2 454	1 526	-37.8%
<i>by country of origin:</i>								
Algeria		955	483	527	878	564	888	57.4%
Nigeria		1 579	214	538	460	-	116	
Saudi Arabia		2 598	2 955	3 173	698	2 053	1 531	-25.4%
Kuwait		1 594	1 544	898	-	-	-	-
United Arab Emirates		-	-	65	-	-	-	-
Norway		27 341	29 734	28 014	25 716	32 179	27 972	-13.1%
Refining capacity								
Capacity at the end of year	1 000 t/year	93 600	90 900	92 010	88 520	88 820	:	
<i>among which:</i>								
Cracking and others		35 900	37 000	42 380	40 820	45 470	:	
Reforming		17 100	14 300	14 410	13 080	12 910	:	

4.2 Petroleum products


 eurostat	UNITED KINGDOM						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Production and supply							
Total refinery output	96 508	96 756	93 564	86 734	86 341	82 093	-4.9%
<i>among which:</i>							
Motor spirit	28 048	28 260	27 392	25 246	23 470	21 556	-8.2%
Kerosene and jet fuel	11 815	11 678	11 413	10 802	9 562	8 998	-5.9%
Naphtha	2 824	2 871	2 352	2 451	3 099	3 463	11.7%
Gas/diesel oil	28 927	28 830	27 934	25 869	28 298	26 796	-5.3%
Residual fuel oil	13 779	14 062	13 476	12 195	11 621	11 912	2.5%
Total imports	9 315	8 888	11 373	13 896	14 212	16 978	19.5%
Total exports	23 679	26 740	24 332	21 655	20 677	19 080	-7.7%
Bunkers	2 665	2 962	3 080	2 330	2 079	2 274	9.4%
Stock changes	91	521	-94	573	-336	-776	131.0%
Gross inland consumption	-16 938	-20 293	-16 133	-9 516	-8 880	-5 152	42.0%
Imports and exports							
Imports by origin							
<i>among which:</i>							
Netherlands	804	704	885	1 167	1 666	1 336	-19.8%
United Kingdom	-	-	-	-	-	-	-
Norway	1 479	-	1 591	2 175	2 094	565	-73.0%
OPEC	589	1 205	1 886	1 699	3 001	4 380	46.0%
Imports by product							
<i>among which:</i>							
Motor spirit	1 798	1 427	2 019	2 508	2 459	3 618	47.1%
Kerosene and jet fuel	987	1 543	2 791	3 157	4 761	6 320	32.7%
Gas/diesel oil	1 198	1 866	3 467	5 425	3 815	4 098	7.4%
Residual fuel oil	1 979	1 212	791	655	596	1 011	69.6%
Exports by product							
<i>among which:</i>							
Motor spirit	8 120	8 603	7 959	6 330	4 708	4 453	-5.4%
Kerosene and jet fuel	1 030	1 219	1 096	992	686	623	-9.2%
Gas/diesel oil	6 006	6 586	6 199	6 668	6 416	5 287	-17.6%
Residual fuel oil	5 343	6 862	5 834	4 928	5 360	5 441	1.5%
Consumption							
Inputs to electricity plants	3 383	1 688	1 109	671	834	651	-21.9%
Inputs to heating plants	-	-	-	-	694	671	-3.3%
Non-energy use	11 231	10 954	10 723	10 734	10 064	8 847	-12.1%
Final energy consumption	60 534	59 895	59 963	61 323	60 669	60 541	-0.2%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	2 776	2 921	2 992	2 886	2 988	3 511	17.5%
Residual fuel oil	2 494	1 786	1 318	1 314	720	871	21.0%

 eurostat	UNITED KINGDOM							
	in 1 000 t	1996	1997	1998	1999	2000	2001	01/00
Industry								
<i>among which by sector:</i>								
Iron&steel industry	737	677	480	490	391	351	-10.2%	
Non-ferrous metals	48	50	39	38	38	74	94.7%	
Chemical industry	598	532	464	310	272	280	2.9%	
Non-met. mineral prod.	303	242	224	212	242	268	10.7%	
Food, drink, tobacco	594	457	393	371	205	257	25.4%	
Pulp, paper and print	165	120	115	99	41	77	87.8%	
Engineering & metal	641	547	459	426	379	470	24.0%	
Other industries	3 610	3 434	3 493	3 931	3 849	3 900	1.3%	
Transport	46 580	47 252	47 795	49 494	49 746	48 806	-1.9%	
<i>among which:</i>								
Motor spirit	22 438	22 287	21 882	22 639	21 654	20 991	-3.1%	
Jet fuel	8 010	8 361	9 207	9 918	10 847	10 278	-5.2%	
Diesel oil	15 973	16 475	16 597	16 857	17 181	17 440	1.5%	
Services & households etc.	6 814	6 184	6 100	5 505	5 030	5 474	8.8%	
<i>among which:</i>								
Gas oil	2 980	2 692	2 576	2 267	2 114	1 826	-13.6%	
Residual fuel oil	890	630	497	541	122	109	-10.7%	
Stocks at end of period								
Crude oil and feedstocks	5 068	7 230	7 823	8 021	6 923	7 571	9.4%	
Petroleum products	7 962	7 441	7 535	6 962	7 294	8 082	10.8%	


5. Natural gas

 eurostat	UNITED KINGDOM							
	<i>in TJ (GCV)</i>		1996	1997	1998	1999	2000	2001
Primary production and supply								
Primary production		3 530 268	3 594 050	3 774 202	4 147 772	4 542 870	4 429 599	-2.5%
Total imports		71 295	50 623	38 095	46 303	93 716	109 667	17.0%
Total exports		54 731	77 998	113 775	303 960	526 833	497 994	-5.5%
Stock changes		-13 075	-22 820	-7 542	25 002	-39 265	-2 380	93.9%
Gross inland consumption		3 533 757	3 543 855	3 690 980	3 915 117	4 070 488	4 038 892	-0.8%
Imports								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		71 295	50 623	33 748	21 038	40 623	45 835	12.8%
Consumption								
Inputs to electricity plants		727 089	906 559	963 839	1 135 775	1 169 383	1 121 923	-4.1%
Inputs to heat plants		-	-	-	94 267	95 021	81 610	-14.1%
Consumption of energy branch		237 014	243 368	273 575	277 103	283 648	329 319	16.1%
Distribution losses		58 107	77 724	58 514	52 841	73 447	34 666	-52.8%
Non-energy use		48 719	39 312	43 117	46 598	51 415	51 415	0.0%
Industry		589 537	617 726	633 902	636 535	654 217	645 584	-1.3%
<i>among which:</i>								
Iron&steel industry		75 384	74 077	72 378	77 839	76 025	75 499	-0.7%
Non-ferrous metals		17 453	16 661	19 915	19 976	20 765	19 055	-8.2%
Chemical industry		136 134	171 526	166 990	168 451	174 899	176 368	0.8%
Non-met. mineral prod.		52 484	52 531	52 880	52 319	53 705	52 499	-2.2%
Food, drink, tobacco		96 952	95 134	98 168	100 444	109 163	109 159	0.0%
Pulp, paper and print		53 305	49 540	51 268	45 115	40 594	44 579	9.8%
Engineering & metal		80 367	78 715	85 690	89 029	92 469	90 104	-2.6%
Other industries		52 676	55 256	60 448	58 284	59 781	52 693	-11.9%
Transport		-	-	-	-	-	-	-
Services & households etc.		1 777 496	1 649 912	1 704 669	1 672 391	1 723 640	1 766 408	2.5%
<i>among which:</i>								
Households		1 353 028	1 243 915	1 281 222	1 289 038	1 331 672	1 364 987	2.5%
Services		419 367	400 813	420 016	379 195	387 234	396 644	2.4%


6.1 Hard coal


 eurostat	UNITED KINGDOM						
	in 1 000 t						
	1996	1997	1998	1999	2000	2001	01/00
Primary production and supply							
Primary production	48 538	46 981	40 046	36 163	30 600	31 513	3.0%
Total imports	17 799	19 756	21 244	20 293	23 445	35 542	51.6%
Total exports	988	1 147	971	761	661	550	-16.8%
Stock changes	3 825	-3 975	1 224	-1 164	5 056	-2 563	
Gross inland consumption	70 833	63 129	62 674	55 445	59 038	64 359	9.0%
Imports							
Imports by origin							
<i>among which:</i>							
USA	6 657	6 950	6 746	3 021	2 773	2 610	-5.9%
Poland	850	700	-	1 308	1 107	1 235	11.6%
CIS	78	40	20	204	491	4 353	786.6%
Australia	3 748	4 362	4 610	5 954	6 102	7 076	16.0%
South Africa	1 559	2 472	2 463	2 696	4 756	10 259	115.7%
Colombia	2 823	2 810	3 820	4 279	5 649	6 722	19.0%
Consumption							
Inputs to electricity plants	54 893	46 987	48 510	41 068	46 135	50 996	10.5%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	8	8	10	10	12	10	-16.7%
Industry							
<i>among which:</i>							
Iron&steel industry	586	607	568	510	458	765	67.0%
Non-ferrous metals	282	228	183	354	118	240	103.4%
Chemical industry	891	773	637	841	426	408	-4.2%
Non-met. mineral prod.	1 025	915	835	667	270	278	3.0%
Food, drink, tobacco	384	311	257	290	194	215	10.8%
Pulp, paper and print	267	219	121	179	109	178	63.3%
Engineering & metal	148	115	115	129	73	87	19.2%
Other industries	513	395	288	155	136	288	111.8%
Services & households etc.	3 282	3 237	2 742	2 879	2 205	2 685	21.8%
Structural data							
Personnel employed underground (annual mean in 1000's)	8.3	7.6	6.2	6.1	6.0	5.0	-16.7%
Number of active hard coal mines (end of year)	25	23	21	21	16	13	-18.8%

6.2 Coal derivatives and peat

	UNITED KINGDOM						
	1996	1997	1998	1999	2000	2001	01/00
Production							
Solid fuels	<i>in 1 000 t</i>						
Coke	6 222	6 233	6 215	5 870	6 377	5 516	-13.5%
Patent Fuel	862	814	616	635	537	487	-9.3%
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
Derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	48 762	47 815	47 254	45 425	47 236	41 702	-11.7%
Blast-furnace gas	72 392	74 743	72 417	68 404	63 169	53 150	-15.9%
Gasworks gas	-	-	-	-	-	-	-
Consumption							
Solid fuels	<i>in 1 000 t</i>						
Coke	4 032	4 121	3 960	4 305	4 085	3 607	-11.7%
<i>among which:</i>							
Iron & steel industry	3 736	3 896	3 449	3 782	3 548	3 219	-9.3%
Services & households	181	92	115	121	145	67	-53.8%
Patent Fuel	836	715	631	572	521	483	-7.3%
<i>among which:</i>							
Services & households	816	677	599	554	496	446	-10.1%
Lignite and peat	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Total derived gases	<i>in TJ (GCV)</i>						
Coke-oven gas	26 947	28 206	20 848	14 767	15 786	4 585	-71.0%
Blast-furnace gas	49 682	52 445	33 998	27 849	23 141	3 799	-83.6%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	14 457	14 950	35 535	38 272	38 146	33 284	-12.7%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	21 978	21 766	24 386	27 378	28 059	38 743	38.1%
Consumption in industry	76 629	80 651	54 846	42 616	38 927	8 384	-78.5%

7. Renewable energy sources

		UNITED KINGDOM						
		1996	1997	1998	1999	2000	2001	01/00
Primary production								
Total primary production	<i>in 1000 toe</i>	1 891	2 071	2 296	2 438	2 599	2 697	3.7%
Hydro (excl. pumping)		289	355	450	461	437	349	-20.3%
Wind		42	57	75	73	81	83	2.0%
Solar		6	6	7	7	11	14	21.5%
Geothermal		1	1	1	1	1	1	0.0%
Biomass		1 553	1 652	1 763	1 897	2 069	2 251	8.8%
	<i>among which:</i>							
Wood, wood-waste		891	898	836	806	839	882	5.1%
Municipal solid waste		263	297	402	406	420	465	10.8%
Biogas		398	457	525	685	810	904	11.6%
Gross inland consumption		1 891	2 071	2 296	2 438	2 599	2 697	3.7%
Inputs to electricity and heat production								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		668	794	972	1 273	1 515	1 691	11.6%
	<i>among which:</i>							
Wood, wood-waste		110	116	123	266	369	411	11.4%
Municipal waste		228	287	385	383	392	433	10.4%
Biogas		330	391	464	624	754	847	12.3%
Final consumption of RES (excl. electricity)								
Total	<i>in 1000 toe</i>	892	865	798	631	565	573	1.4%
	<i>by sector:</i>							
Industry		520	519	450	280	210	211	0.7%
Services & households etc.		371	345	349	351	356	362	1.9%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		885	858	791	624	553	559	1.0%
	<i>among which:</i>							
Wood, wood-waste		781	782	713	540	470	470	0.1%
Municipal waste		35	10	17	22	28	32	15.1%
Biogas		68	66	61	61	56	57	1.6%
Geothermal		1	1	1	1	1	1	0.0%
Electricity generation from RES								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	1	1	2	100.0%
Hydro with installed capacity < 1 MW		44	65	86	81	77	76	-1.3%
Hydro with installed capacity > 1 & <10 MW		328	424	536	151	138	134	-2.9%
Hydro with installed capacity > 10 MW		2 989	3 639	4 604	5 129	4 871	3 846	-21.0%
Wood, Wood-waste		-	-	-	783	473	770	62.8%
Municipal waste		778	933	1 351	1 083	1 394	1 436	3.0%
Biogas		1 103	1 316	1 566	2 113	2 555	2 870	12.3%

		UNITED KINGDOM						
		1996	1997	1998	1999	2000	2001	01/00
Electrical capacities of RES								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	1	1	1	2	3	50.0%
Hydro with installed capacity < 1 MW		19	23	24	25	26	27	3.8%
Hydro with installed capacity > 1 & <10 MW		142	149	151	39	40	41	2.5%
Hydro with installed capacity > 10 MW		1 296	1 281	1 297	1 413	1 419	1 440	1.5%
Wood, Wood-waste		-	-	-	84	133	133	0.0%
Municipal waste		151	151	204	161	184	189	2.7%
Biogas		253	282	334	400	468	503	7.5%
Liquid biofuels								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
Solar Panels								
Solar panel surface	<i>1000 m²</i>	265	276	287	298	312	396	26.9%