

# Energie: Jährliche Statistiken

**Daten 2004**

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# Energy: Yearly statistics

**Data 2004**

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# Énergie: statistiques annuelles

**Données 2004**

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

of which :

1. **Iron and steel** (NACE<sup>1</sup> 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 )

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<sup>1</sup> NACE Rev.1 General Classification of Industrial Activities in the European Community


## Abbreviations and symbols

<b>p</b>	provisional data	<b>kWh</b>	kilowatt hour
<b>:</b>	no data available	<b>MW</b>	megawatt = $10^3$ kW
<b>¾</b>	nil*	<b>GWh</b>	gigawatt hour = $10^6$ kWh
<b>0</b>	figure less than half the unit used	<b>J</b>	joule
<b>kgoe</b>	kilogram of oil equivalent (41868 kjoules NCV/kg)	<b>kJ</b>	kilojoule
<b>Mio</b>	million	<b>TJ</b>	terajoule = $10^9$ kJ
<b>Mrd</b>	1 000 million	<b>NCV</b>	net calorific value
<b>t</b>	tonne (metric ton)	<b>GCV</b>	gross calorific value
<b>t = t</b>	tonne for tonne	<b>EUR</b>	European currency unit
<b>toe</b>	tonne of oil equivalent (41868 kjoules NCV/kg)	<b>of which</b>	the words 'of which' indicate the presence of all the subdivisions of the total
		<b>among which</b>	the words 'among which' indicate the presence of certain subdivisions only

\*Some external trade data by country of origin are not yet available for the 10 new Member States

# 1. Energy economy


## Key figures and energy indicators

		EU-25					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	903 823	892 023	894 240	894 027	886 499	882 301
Net energy imports		765 960	801 957	830 362	829 893	874 838	907 216
Net oil imports		503 809	517 970	539 618	525 955	547 633	560 177
Net gas imports		177 868	187 103	185 640	201 159	216 517	227 462
Gross inland energy consumption		1 642 912	1 654 548	1 694 070p	1 686 877p	1 727 348	1 746 880
Final energy consumption		1 070 955	1 086 807p	1 112 445p	1 100 498p	1 129 436p	1 141 968p
Industry		299 438	312 459p	313 040p	310 638p	315 142p	319 211p
Transport		331 785	333 546	335 800	338 994p	343 864	350 239
Services and households etc.		439 731	440 802	463 605	450 866p	470 431p	472 517p
Gross electricity generation	GWh	2 849 363	2 928 506	3 010 773	3 019 626	3 117 178	3 179 132
Final electricity consumption		2 379 414	2 457 791	2 530 457	2 540 490	2 604 571	2 651 682
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	7 694 724	7 992 982	8 142 085	8 232 731	8 318 287	8 513 419
Population	1000 per.	449 242	450 379	451 388	452 990	455 023	457 189
Industry added value	Mio EUR	:	:	:	:	:	:
Total imports (current prices)	Mio EUR	2 637 881	2 927 135	2 991 254	3 028 081	3 124 541	3 351 529
among which:							
All energy commodities		:	:	:	:	:	:
Oil products		:	:	:	:	:	:
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	213.5	207.0	208.1	204.9	207.7	205.2
Final energy consumption / GDP(95)		139.2	136.0	136.6	133.7	135.8	134.1
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		:	:	:	:	:	:
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		:	:	:	:	:	:
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 657	3 674	3 753	3 724	3 796	3 821
Final energy consumption / capita		2 384	2 413	2 464	2 429	2 482	2 498
Household consumption / capita		618	628	662	640	661	659
Final electricity consumption / capita	kWh/cap.	5 297	5 457	5 606	5 608	5 724	5 800
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	45.5	47.2	47.8	47.9	49.3	50.5
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	65.2	65.7	65.7	65.2	65.4	65.4
Efficiency of thermal power stations		45.7	47.9	48.4	47.8	47.7	47.8



## 2. Energy balance

### Principal aggregates by product

 eurostat	EU-25						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	903 823	892 023	894 240	894 027	886 499	882 301	-0.5%
among which:							
Hard coal	145 816	134 273	129 748	125 762	123 656	118 602	-4.1%
Lignite and peat	67 855	67 491	70 807	73 748	72 970	71 868	-1.5%
Crude oil	170 175	162 311	151 421	154 426	144 605	134 260	-7.2%
Natural Gas	191 815	196 578	197 371	193 673	189 368	192 232	1.5%
Nuclear heat	237 930	237 664	246 026	248 786	251 163	254 361	1.3%
Hydro-electricity	27 525	29 000	30 609	25 559	24 932	26 128	4.8%
Biomass	56 226	58 246	60 503	62 725	68 059	71 547	5.1%
<b>Imports</b>							
Total	1 168 772	1 233 535	1 261 928	1 268 541	1 309 536	1 363 138	4.1%
among which:							
Hard coal	106 266	117 029	130 143	122 862	129 116	141 186	9.3%
Crude oil and feedstocks	593 330	615 474	614 908	602 965	619 340	638 337	3.1%
Petroleum products	221 728	231 384	241 495	246 774	249 397	261 047	4.7%
Natural Gas	219 288	236 033	241 369	260 972	275 454	288 096	4.6%
Electricity	19 300	22 345	22 099	24 285	24 783	23 837	-3.8%
<b>Exports</b>							
Total	402 812	431 578	431 566	438 648	434 697	455 922	4.9%
among which:							
Crude oil and feedstocks	112 226	118 374	106 182	109 675	98 055	89 614	-8.6%
Petroleum products	199 023	210 514	210 603	214 108	223 048	249 593	11.9%
Natural gas	41 420	48 929	55 729	59 813	58 937	60 633	2.9%
Electricity	18 094	20 201	20 975	22 427	24 414	23 873	-2.2%
<b>Gross inland consumption</b>							
Total	1 642 912	1 654 548	1 694 070p	1 686 877p	1 727 348	1 746 880	1.1%
among which:							
Solid fuels	298 910	305 549	307 140	304 768	313 017	311 954	-0.3%
Crude oil and petrol. prod.	646 427	636 321	650 773	643 039	648 376	650 563	0.3%
Natural gas	366 182	376 831	387 642	389 025	408 311	417 581	2.3%
Nuclear Energy	237 930	237 664	246 026	248 786	251 163	254 361	1.3%
Renewables	89 804	93 389	98 006	96 166	102 937	109 194	6.1%
<b>Transformation input</b>							
Total	1 375 183	1 398 072	1 405 217p	1 410 709p	1 448 301	1 469 027	1.4%
among which:							
Crude oil and feedstocks	696 437	710 880	708 986	703 880	717 408	730 864	1.9%
Petroleum products	44 978	40 229	38 720	38 584p	34 829	29 069	-16.5%
Hard coal	192 947	200 802	198 352	196 613	206 585	205 965	-0.3%
Lignite and peat	66 513	68 707	71 583	72 572	72 836	72 238	-0.8%
Renewables	18 431	18 372	19 733	21 506	26 711	29 207	9.3%
<b>Transformation output</b>							
Total	1 006 422	1 030 378p	1 034 748p	1 030 606p	1 056 600p	1 073 091p	1.6%
among which:							
Electricity	213 964	218 577	223 468	228 263	236 551	239 337	1.2%
Heat	44 949	50 651p	53 171p	52 043p	53 295p	53 151p	-0.3%

**Final energy consumption**

Total	1 070 955	1 086 807p	1 112 445p	1 100 498p	1 129 436p	1 141 968p	1.1%
<i>among which:</i> Solid fuels	59 554	57 352	55 643	53 223	51 956	52 595	1.2%
Petroleum products	473 078	469 092	480 556	475 205p	483 369	488 069	1.0%
Natural Gas	241 954	249 873	256 578	252 607	266 448	268 067	0.6%
Renewables	42 309	43 995	45 295	45 903	47 236	48 657	3.0%
Electricity	204 593	211 332	217 580	218 443	223 953	228 004	1.8%

**Final energy consumption by sector**
**Industry**

Total	299 438	312 459p	313 040p	310 638p	315 142p	319 211p	1.3%
<i>among which:</i> Solid fuels	43 574	44 343	42 498	41 218	40 806	41 703	2.2%
Petroleum Products	46 271	45 553	48 996	46 872p	48 297	51 584	6.8%
Natural Gas	91 039	97 803	95 813	96 516	98 339	95 838	-2.5%
Renewables	14 589	15 462	15 394	15 954	15 406	15 940	3.5%
Electricity	85 490	89 604	91 024	91 214	92 120	93 661	1.7%


**Transport**

Total	331 785	333 546	335 800	338 994p	343 864	350 239	1.9%
<i>among which:</i> Motor spirit	135 596	129 717	127 096	125 275p	121 507	117 338	-3.4%
Diesel oil	142 116	147 620	153 583	158 489p	165 023	172 604	4.6%
Jet fuel	43 052	45 164	43 694	43 311p	44 640	46 830	4.9%
Electricity	5 740	5 916	5 889	5 959	6 042	6 093	0.8%


**Services&households**

Total	439 731	440 802	463 605	450 866p	470 431p	472 517p	0.4%
<i>among which:</i> Solid fuels	15 979	12 998	13 116	11 982	11 147	10 892	-2.3%
Gas oil	81 747	78 456	84 062	78 376p	79 564	76 047	-4.4%
Natural Gas	150 609	151 711	160 328	155 659	167 652	171 768	2.5%
Renewables	27 328	27 928	29 184	28 975	30 535	30 867	1.1%
Electricity	113 363	115 813	120 667	121 270	125 792	128 250	2.0%
Heat	30 788	35 235	37 326	36 122	36 155p	35 967p	-0.5%


### 3.1 Electricity balance

 eurostat	EU-25						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	2 849 363	2 928 506	3 010 773	3 019 626	3 117 178	3 179 132	2.0%
<i>among which:</i>							
Hydro	347 852	364 214	384 835	329 272	321 753	337 192	4.8%
Wind	14 216	22 249	26 975	35 705	44 356	58 521	31.9%
Geothermal	4 483	4 785	4 612	4 758	5 431	5 521	1.7%
Nuclear	922 937	921 359	953 759	964 461	973 674	986 074	1.3%
Conventional thermal	1 559 875	1 615 899	1 640 592	1 685 430	1 771 964	1 791 824	1.1%
<i>of which:</i>							
Hard coal	578 320	615 638	612 361	619 299	666 227p	647 866	-2.8%
Lignite and peat	262 955	274 124	285 548	278 984	295 820p	288 845	-2.4%
Petroleum products	196 840	176 674	168 575	183 853	157 910p	142 774	-9.6%
Natural gas	444 497	469 890	477 161	512 481	552 373p	601 043	8.8%
Derived gases	32 276	30 562	31 557	30 218	30 276p	30 875	2.0%
Biomass	35 680	39 486	41 132	47 816	57 081	67 908	19.0%
Industrial wastes	9 307	9 525	24 258	12 779	12 277p	12 513	1.9%
Total net generation	2 698 221	2 774 696	2 857 311	2 865 421	2 960 754	3 022 783	2.1%
<b>Imports and exports</b>							
Total imports	224 455	259 872	257 016	282 431	288 228	277 219	-3.8%
Total exports	210 430	234 942	243 939	260 830	283 933	277 641	-2.2%
<b>Consumption and losses</b>							
Consumption of the energy branch	268 695	268 105	266 569	273 489	282 823	288 219	1.9%
<i>of which:</i>							
Consumption for pumped-storage	9 929	13 721	10 322	13 874	13 324	13 192	-1.0%
Network losses	188 656	200 603	197 941	195 427	202 393	205 177p	1.4%
Final energy consumption	2 379 414	2 457 791	2 530 457	2 540 490	2 604 571	2 651 682	1.8%
<i>of which:</i>							
Industry	994 247	1 042 091	1 058 609	1 060 814	1 071 351	1 089 272	1.7%
<i>among which:</i>							
Iron&steel industry	117 066	126 517	124 083	119 586	120 110	122 816	2.3%
Non-ferrous metals	70 682	72 973	77 391	77 445	78 535	81 842	4.2%
Chemical industry	190 306	194 222	191 274	191 606	191 266p	193 042p	0.9%
Non-met. mineral prod.	75 128	75 534	77 720	77 829	80 146	81 497	1.7%
Food, drink, tobacco	93 654	97 049	98 177	100 327	102 046p	103 322p	1.3%
Pulp, paper and print	125 258	130 927	132 293	133 953	135 063	138 746	2.7%
Engineering & metal	138 774	142 059	143 889	144 848	145 542p	149 420p	2.7%
Other industries	132 309	149 259	160 550	162 325	167 193p	167 757p	0.3%
Transport	66 757	68 799	68 485	69 302	70 264	70 861	0.8%
Services & households etc.	1 318 410	1 346 901	1 403 363	1 410 374	1 462 956	1 491 549	2.0%
<i>among which:</i>							
Households	690 405	694 830	719 626	724 327	751 669p	765 174p	1.8%


## 3.2 Electrical capacity, fuel inputs and heat


	EU-25							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	650 679	663 235	669 860	684 831	697 857	706 352	1.2%
<i>by source:</i>								
Conventional thermal		379 683	387 343	388 744	392 309	404 483	407 709	0.8%
<i>of which:</i>								
Steam		298 549	298 713	294 539	:	:	:	
Gas turbine		26 287	26 586	26 988	:	:	:	
Combined cycle		37 471	48 728	53 004	:	:	:	
Internal combustion		7 939	9 507	9 416	:	:	:	
Nuclear		134 164	133 738	133 769	135 994	134 092	132 985	-0.8%
Hydro		127 322	128 335	129 568	132 962	130 475	131 440	0.7%
<i>among which:</i>								
Pumped storage		35 490	34 885	34 925	30 555	34 529	30 589p	-11.4%
Wind		8 913	13 215	17 192	22 886	28 086	33 562	19.5%
Geothermal		597	604	587	680	721	656	-9.0%
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		588 736	616 801	622 765	636 877	652 112	655 021p	0.4%
Autoproducers		57 811	46 618	47 251	48 402	46 540	51 539p	10.7%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	357 387	365 130	369 988p	382 056p	402 041	404 802	0.7%
<i>among which:</i>								
Hard coal		139 235	146 432	147 216	148 142	156 904	155 356	-1.0%
Lignite and peat		63 321	65 577	68 122	70 004	70 241	69 625	-0.9%
Petroleum products		41 997	37 284	35 870	36 366p	32 908	27 403	-16.7%
Natural gas		86 741	89 292	91 173	98 083	107 624	115 160	7.0%
Renewables		15 774	15 887	16 921	18 716	23 664	26 164	10.6%
Heating plants		17 197	16 463	17 024	16 096	15 610	15 602	0.0%
<i>among which:</i>								
Hard coal		5 228	4 728	4 881	4 661	4 379	4 244	-3.1%
Lignite and peat		247	217	272	341	374	326	-12.9%
Petroleum products		2 134	2 142	2 224	1 554	1 206	1 130	-6.3%
Natural gas		6 469	6 424	6 362	6 329	6 191	6 452	4.2%
Renewables		2 657	2 485	2 812	2 790	3 047	3 043	-0.1%
<b>Heat production and consumption</b>								
Total heat production	TJ	44 949	50 651p	53 171p	52 043p	53 295p	53 151p	-0.3%
<i>among which: in heating plants</i>								
		16 143	15 074	15 392	14 563	14 388p	13 935	-3.1%
Heat consumption		39 170	44 435p	46 766p	45 787p	46 742p	46 917p	0.4%
<i>of which: in industry</i>								
		8 382	9 200p	9 440p	9 666p	10 588p	10 950p	3.4%
<i>in households and services</i>								
		30 788	35 235	37 326	36 122	36 155p	35 967p	-0.5%
<i>among which: in households</i>								
		19 541	27 407	29 420	28 611	28 588p	28 373p	-0.8%

## 4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	EU-25						04/03
		1999	2000	2001	2002	2003	2004	
<b>Primary production and supply</b>								
Primary production		167 733	160 223	149 393	152 037	142 537	132 345	-7.2%
Total imports		590 909	613 129	612 833	602 323	618 022	636 742	3.0%
Total exports		110 524	116 754	104 686	107 887	96 585	88 234	-8.6%
Stock changes		1 282	1 133	-1 617	281	-870	-2 561	-194.3%
Refinery intake		692 611	707 267	705 637	701 813	714 716	728 016	1.9%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		239 567	238 231	204 616	186 217	204 067	210 487	3.1%
Near and Middle East		161 293	155 379	136 810	121 897	123 789	122 363	-1.2%
Africa		100 984	107 633	110 797	99 011	106 451	103 780	-2.5%
<i>by country of origin:</i>								
Algeria		17 126	21 419	19 331	17 967	18 639	21 609	15.9%
Nigeria		19 711	22 407	25 723	18 440	23 224	14 858	-36.0%
Saudi Arabia		61 025	65 143	57 496	53 144	61 535	64 460	4.8%
Kuwait		7 662	9 768	7 990	6 384	6 243	6 605	5.8%
United Arab Emirates		403	147	354	-	-	14	
Norway		108 298	114 904	108 121	103 078	106 404	108 625	2.1%
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	664 600	667 440	:	:	:	:	
<i>among which:</i>								
Cracking and others		270 250	278 230	:	:	:	:	
Reforming		89 180	89 550	:	:	:	:	

## 4.2 Petroleum products

 eurostat	EU-25						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	682 119	694 746	696 009	692 041	705 987	718 273	1.7%
among which:							
Motor spirit	145 467	143 298	145 438	146 735	147 340	150 558	2.2%
Kerosene and jet fuel	46 128	44 824	42 569	41 234	43 079	46 399	7.7%
Naphtha	40 830	44 020	42 943	39 126	42 198	40 798	-3.3%
Gas/diesel oil	237 017	245 577	248 895	248 125	253 775	254 917	0.5%
Residual fuel oil	115 641	117 469	113 751	108 962	110 149	113 296	2.9%
Total imports	222 916	232 684	242 534	248 298	251 249	263 185	4.8%
Total exports	198 338	210 055	210 100	213 724	222 682	249 469	12.0%
Bunkers	41 963	44 352	45 882	46 803	47 160	50 237	6.5%
Stock changes	9 210	-5 665	1 864	2 897	-2 381	2 176	191.4%
Gross inland consumption	-6 874	-25 902	-9 422	-6 634	-18 169	-31 528	73.5%
<b>Imports and exports</b>							
Imports by origin							
among which:							
Netherlands	39 280	40 611	37 435	34 591	34 304	37 939	10.6%
United Kingdom	21 306	21 906	20 929	22 138	20 908	20 560	-1.7%
Norway	7 069	6 527	4 728	7 045	7 720	7 846	1.6%
OPEC	22 700	27 912	23 974	25 375	23 001	24 981	8.6%
Imports by product							
among which:							
Motor spirit	31 032	33 822	31 685	29 204	28 717	27 343	-4.8%
Kerosene and jet fuel	14 574	16 759	20 023	19 705	20 871	23 696	13.5%
Gas/diesel oil	74 062	71 881	83 578	86 073	87 968	93 513	6.3%
Residual fuel oil	41 663	46 128	44 007	50 133	46 609	45 539	-2.3%
Exports by product							
among which:							
Motor spirit	46 824	48 414	47 626	49 833	52 178	61 177	17.2%
Kerosene and jet fuel	11 674	11 019	11 088	10 475	11 222	12 210	8.8%
Gas/diesel oil	61 438	62 368	65 950	67 427	66 766	70 575	5.7%
Residual fuel oil	38 328	44 790	42 638	41 691	45 606	54 482	19.5%
<b>Consumption</b>							
Inputs to electricity plants	43 627	38 729	37 316	37 907p	34 387	28 583	-16.9%
Inputs to heating plants	2 209	2 219	2 309	1 627	1 269	1 185	-6.6%
Non-energy use	90 692	92 499	90 215	89 545p	89 662	89 140	-0.6%
Final energy consumption	464 051	460 126	472 059	466 954p	475 071	479 833	1.0%
Industry							
among which <b>by product:</b>							
Gas/diesel oil	12 641	12 958	13 904	13 436p	13 618	14 709	8.0%
Residual fuel oil	19 914	17 156	17 127	16 678p	16 790	16 759	-0.2%


 eurostat	EU-25							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		3 514	3 466p	3 150	2 874p	2 820	2 961	5.0%
Non-ferrous metals		1 432	1 615p	1 135	1 116p	1 064	1 017	-4.4%
Chemical industry		5 955	5 697p	9 305	7 457p	7 749	9 955	28.5%
Non-met. mineral prod.		12 713	12 445p	12 778	12 487p	13 421	13 859	3.3%
Food, drink, tobacco		5 078	4 797p	4 918	5 020p	4 963	4 766	-4.0%
Pulp, paper and print		2 408	2 320p	2 284	2 331p	2 378	2 137	-10.1%
Engineering & metal		3 638	3 488p	3 512	3 570p	3 640	3 353	-7.9%
Other industries		10 867	10 833p	11 659	10 743p	12 443	13 869	11.5%
<b>Transport</b>		315 937	317 399	319 563	322 482p	327 009	332 836	1.8%
<i>among which:</i>								
Motor spirit		129 026	123 432	120 938	119 205p	115 619	111 652	-3.4%
Jet fuel		41 919	43 975	42 544	42 171p	43 465	45 598	4.9%
Diesel oil		140 665	146 112	152 014	156 870p	163 338	170 841	4.6%
<b>Services &amp; households etc.</b>		99 728	95 154	101 049	95 007p	97 293	92 875	-4.5%
<i>among which:</i>								
Gas oil		80 912	77 655	83 203	77 576p	78 751	75 270	-4.4%
Residual fuel oil		4 527	3 396	3 320	3 213p	4 098	2 610	-36.3%
<b>Stocks at end of period</b>								
Crude oil and feedstocks		60 449	59 309	56 604	61 126	62 515	64 736	3.6%
Petroleum products		95 593	101 505	99 934	96 707	98 365	95 973	-2.4%

## 5. Natural gas


 eurostat	EU-25						
	in TJ (GCV)						
	1999	2000	2001	2002	2003	2004	
<b>Primary production and supply</b>							
Primary production	8 923 249	9 144 799	9 181 695	9 009 654	8 809 387	8 942 623	1.5%
Total imports	10 201 263	10 980 240	11 228 473	12 140 420	12 814 119	13 402 215	4.6%
Total exports	1 926 849	2 276 195	2 592 501	2 782 522	2 741 738	2 820 662	2.9%
Stock changes	-162 869	-318 664	215 452	-270 106	112 874	-98 326	-187.1%
Gross inland consumption	17 034 794	17 530 180	18 033 119	18 097 446	18 994 642	19 425 850	2.3%
<b>Imports</b>							
Imports by origin							
<i>among which:</i>							
CIS	:	:	:	:	:	:	:
Algeria	:	:	:	:	:	:	:
Norway	:	:	:	:	:	:	:
<b>Consumption</b>							
Inputs to electricity plants	4 035 193	4 153 877	4 241 384	4 562 819	5 006 649	5 357 245	7.0%
Inputs to heat plants	300 930	298 837	295 956	294 411	287 992	300 139	4.2%
Consumption of energy branch	546 343	567 079	663 804	630 406	590 652	620 361	5.0%
Distribution losses	147 347	180 942	140 862	96 828p	108 452	134 846	24.3%
Non-energy use	626 006	650 243	631 709	593 676	612 047	626 249	2.3%
Industry	4 235 152	4 549 785	4 457 214	4 489 919	4 574 752	4 458 402	-2.5%
<i>among which:</i>							
Iron&steel industry	470 570	490 888	491 399	442 378	447 986	468 623	4.6%
Non-ferrous metals	124 224	128 206	133 203	140 824	135 335	132 956	-1.8%
Chemical industry	945 750	998 972	956 304	950 069	977 225	960 138	-1.7%
Non-met. mineral prod.	701 873	750 227	771 112	743 802	805 286	768 059	-4.6%
Food, drink, tobacco	581 558	601 556	609 639	650 623	661 684	661 435	0.0%
Pulp, paper and print	409 598	430 150	410 149	424 639	455 704	426 031	-6.5%
Engineering & metal	484 884	507 466	521 781	509 085	535 145	519 116	-3.0%
Other industries	318 561	333 434	356 872	421 754	342 117	318 247	-7.0%
Transport	14 230	16 689	20 308	20 114	21 249	21 453	1.0%
Services & households etc.	7 006 338	7 057 618	7 458 464	7 241 248	7 799 162	7 990 643	2.5%
<i>among which:</i>							
Households	4 720 927	4 768 364	5 032 572	4 926 275	5 285 046	5 398 747	2.2%
Services	2 069 875	2 077 751	2 211 092	2 101 898	2 317 304	2 362 036	1.9%




## 6.1 Hard coal


 eurostat	EU-25							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	267 927	253 017	246 993	239 280	236 170	228 146	-3.4%	
Total imports	165 368	182 957	205 778	193 881	203 395	221 188	8.7%	
Total exports	43 190	43 664	51 356	41 928	36 173	38 102	5.3%	
Stock changes	1 765	13 399	2 064	2 732	7 425	-1 518	-120.4%	
Gross inland consumption	394 664	408 432	405 201	396 007	413 185	411 881	-0.3%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	:	:	:	:	:	:	:	
Poland	:	:	:	:	:	:	:	
CIS	:	:	:	:	:	:	:	
Australia	:	:	:	:	:	:	:	
South Africa	:	:	:	:	:	:	:	
Colombia	:	:	:	:	:	:	:	
<b>Consumption</b>								
Inputs to electricity plants	257 565	273 537	274 386	275 598	289 805	286 736	-1.1%	
Inputs to heat plants	9 724	8 742	9 529	9 021	8 553	8 132	-4.9%	
Consumption of energy branch	2 485	1 841	1 834	1 195	1 316	1 172	-10.9%	
Industry								
<i>among which:</i>								
Iron&steel industry	12 399	13 010	13 236	13 305	12 715	13 739	8.1%	
Non-ferrous metals	677	396	612	533	386	507	31.3%	
Chemical industry	4 799	5 340	5 025	5 334	5 638	6 075	7.8%	
Non-met. mineral prod.	9 051	8 580	8 077	6 616	6 346	6 448	1.6%	
Food, drink, tobacco	3 342	3 211	2 998	2 921	2 890	2 783	-3.7%	
Pulp, paper and print	2 097	2 004	1 907	1 891	1 813	1 802	-0.6%	
Engineering & metal	1 190	1 294	1 059	900	1 053	659	-37.4%	
Other industries	884	1 904	808	732	806	715	-11.3%	
Services & households etc.	21 201	17 274	18 055	16 137	15 743	15 791	0.3%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	:	:	:	:	:	:	:	
Number of active hard coal mines (end of year)	:	:	:	:	:	:	:	

## 6.2 Coal derivatives and peat

 eurostat	EU-25						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	50 908	51 792	49 175	46 031	48 120	49 416	2.7%
Patent Fuel	1 005	857	768	690	609	520	-14.6%
Lignite and peat	344 374	346 529	357 888	368 531	368 557	364 340	-1.1%
Brown coal briquettes	6 236	6 115	6 039	5 839	5 809	6 086	4.8%
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	422 287	415 387	376 620	356 589	363 916	363 252	-0.2%
Blast-furnace gas	571 239	599 398	554 830	559 202	575 165	591 075	2.8%
Gasworks gas	23 207	26 899	22 721	22 649	24 699	23 101	-6.5%
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	31 292	32 251	31 045	31 264	31 604	30 670	-3.0%
<i>among which:</i>							
Iron & steel industry	25 346	26 982	26 731	27 017	27 733	27 113	-2.2%
Services & households	2 345	1 923	1 674	1 518	1 304	1 056	-19.0%
Patent Fuel	987	888	772	719	573	511	-10.8%
<i>among which:</i>							
Services & households	969	861	734	693	555	499	-10.1%
Lignite and peat	6 552	6 169	5 240	5 382	4 128	4 518	9.4%
<i>among which:</i>							
Industry	3 729	3 454	3 168	2 896	2 434	2 523	3.7%
Services & households	2 823	2 703	2 058	2 486	1 686	1 995	18.3%
Brown coal briquettes	4 880	4 677	4 352	4 019	4 048	4 328	6.9%
<i>among which:</i>							
Industry	2 471	2 511	2 316	2 136	2 147	2 622	22.1%
Services & households	2 409	2 166	2 036	1 883	1 901	1 706	-10.3%
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	170 154	169 044	156 999	144 916	143 631	147 759	2.9%
Blast-furnace gas	242 373	260 575	241 438	230 983	237 714	234 253	-1.5%
Gasworks gas	7 900	8 661	4 418	4 122	5 158	4 336	-15.9%
Inputs to electricity plants	356 538	362 566	337 778	338 906	352 044	361 730	2.8%
Inputs to heat plants	14 418	13 111	13 066	10 434	9 713	9 496	-2.2%
Consumption of energy branch	194 167	193 394	175 116	187 946	192 212	195 010	1.5%
Consumption in industry	413 284	429 912	398 692	376 233	382 710	382 376	-0.1%


## 7. Renewable energy sources

		EU-25						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	89 643	92 979	97 520	95 797	102 698	108 811	6.0%
Hydro (excl. pumping)		27 525	29 000	30 609	25 559	24 932	26 128	4.8%
Wind		1 221	1 913	2 320	3 070	3 815	5 033	32.0%
Solar		372	417	474	537	617	743	20.5%
Geothermal		4 299	3 403	3 614	3 906	5 275	5 360	1.6%
Biomass		56 226	58 246	60 503	62 725	68 059	71 547	5.1%
	<i>among which:</i>							
Wood, wood-waste		47 052	47 962	49 325	50 375	54 316	56 443	3.9%
Municipal solid waste		6 859	7 388	7 769	7 925	8 976	9 285	3.4%
Biogas		1 916	2 283	2 808	3 389	3 369	3 728	10.7%
Gross inland consumption		89 804	93 389	98 006	96 166	102 937	109 194	6.1%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		3 873	2 955	3 061	3 356	4 708	4 786	1.7%
Biomass		14 558	15 417	16 672	18 150	22 004	24 421	11.0%
	<i>among which:</i>							
Wood, wood-waste		6 584	6 686	7 483	8 410	10 790	12 473	15.6%
Municipal waste		6 473	6 827	7 122	7 148	8 326	8 626	3.6%
Biogas		1 501	1 904	2 238	2 586	2 868	3 290	14.7%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	42 309	43 995	45 295	45 903	47 236	48 657	3.0%
	<i>by sector:</i>							
Industry		14 589	15 462	15 394	15 954	15 406	15 940	3.5%
Services & households etc.		27 328	27 928	29 184	28 975	30 535	30 867	1.1%
Transport		391	604	718	974	1 295	1 850	42.8%
	<i>by source:</i>							
Biomass		41 517	43 138	44 277	44 837	46 086	47 406	2.9%
	<i>among which:</i>							
Wood, wood-waste		40 300	41 253	42 347	42 279	43 719	44 542	1.9%
Municipal waste		153	561	635	776	650	658	1.1%
Biogas		372	374	567	799	412	347	-15.9%
Geothermal		427	448	553	558	572	572	-0.1%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		75	111	171	258	438	736	68.0%
Hydro with installed capacity < 1 MW		8 770	8 688	8 833	9 009	9 142	9 509	4.0%
Hydro with installed capacity > 1 & <10 MW		29 845	32 157	31 738	30 033	26 814	32 350	20.6%
Hydro with installed capacity > 10 MW		277 510	292 039	313 832	252 197	245 973	262 404	6.7%
Wood, Wood-waste		:	:	20 208	24 070	29 199	36 554	25.2%
Municipal waste		11 923	13 383	13 754	16 240	18 580	19 661	5.8%
Biogas		:	:	7 391	9 214	9 981	11 542	15.6%

		EU-25						04/03
		1999	2000	2001	2002	2003	2004	
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		125	183	274	342	519	862	66.1%
Hydro with installed capacity < 1 MW		2 323	2 271	2 325	2 288	2 411	2 322	-3.7%
Hydro with installed capacity > 1 & <10 MW		7 857	7 541	7 976	8 432	8 221	8 787	6.9%
Hydro with installed capacity > 10 MW		84 586	83 198	83 452	86 372	83 857	96 418	15.0%
Wood, Wood-waste		5 830	6 064p	5 717p	6 042p	6 723p	7 765p	15.5%
Municipal waste		2 137	2 284	2 399	2 483p	3 160p	3 371p	6.7%
Biogas		954	1 167	1 460	1 575	1 837	2 067	12.5%
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	492	748	919	1 224	1 645	2 489	51.3%
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	:	:	:	:	:	:	


# 1. Energy economy

## Key figures and energy indicators

		EU-15					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	765 626	755 961	755 229	753 451	744 173	741 492
Net energy imports		705 859	742 147	769 978	767 436	807 854	838 055
Net oil imports		457 322	472 414	494 695	480 411	500 772	511 620
Net gas imports		147 366	155 340	152 463	167 235	180 507	191 514
Gross inland energy consumption		1 441 926	1 455 604	1 490 424p	1 483 188p	1 517 266	1 536 502
Final energy consumption		947 869	966 479p	989 855p	977 356p	1 003 013p	1 013 884p
Industry		262 039	273 491p	275 998p	272 687p	276 279p	279 653p
Transport		306 901	310 122	311 656	314 217p	317 224	322 085
Services and households etc.		378 928	382 866	402 200	390 452p	409 511p	412 146p
Gross electricity generation	GWh	2 532 975	2 600 998	2 674 544	2 679 818	2 763 291	2 820 466
Final electricity consumption		2 157 258	2 229 599	2 297 066	2 306 364	2 364 229	2 405 313
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	7 418 005	7 704 102	7 846 074	7 929 570	8 003 713	8 182 918
Population	1000 per.	374 284	375 503	376 991	378 711	380 822	383 047
Industry added value	Mio EUR	:	:	:	:	:	:
Total imports (current prices)	Mio EUR	2 495 359	2 762 926	2 819 948	2 848 566	2 928 175	3 126 119
among which:							
All energy commodities		113 146	213 774	208 349	200 280	212 970	252 159
Oil products		88 794	174 222	157 567	150 221	157 692	190 403
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	194.4	188.9	190.0	187.0	189.6	187.8
Final energy consumption / GDP(95)		127.8	125.4	126.2	123.3	125.3	123.9
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		:	:	:	:	:	:
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		:	:	:	:	:	:
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 852	3 876	3 953	3 916	3 984	4 011
Final energy consumption / capita		2 532	2 574	2 626	2 581	2 634	2 647
Household consumption / capita		640	658	690	666	689	688
Final electricity consumption / capita	kWh/cap.	5 764	5 938	6 093	6 090	6 208	6 279
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	47.6	49.5	50.2	50.2	51.7	52.9
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	65.7	66.4	66.4	65.9	66.1	66.0
Efficiency of thermal power stations		45.3	48.2	48.5	47.8	47.5	47.8


## 2. Energy balance

### Principal aggregates by product

 eurostat	EU-15						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	765 626	755 961	755 229	753 451	744 173	741 492	-0.4%
<i>among which:</i> Hard coal	59 761	50 826	45 735	43 171	41 747	39 298	-5.9%
Lignite and peat	47 612	47 607	51 201	53 872	52 555	51 610	-1.8%
Crude oil	167 463	159 436	148 373	151 350	141 479	131 177	-7.3%
Natural Gas	185 745	190 481	191 124	187 483	183 169	185 631	1.3%
Nuclear heat	223 709	222 846	229 878	230 648	231 703	234 801	1.3%
Hydro-electricity	26 195	27 645	29 194	24 144	23 877	24 748	3.6%
Biomass	48 781	50 785	52 353	53 844	58 351	61 471	5.3%
<b>Imports</b>							
Total	1 070 364	1 134 009	1 157 658	1 162 156	1 198 749	1 247 838	4.1%
<i>among which:</i> Hard coal	99 545	110 699	123 615	116 017	121 949	133 647	9.6%
Crude oil and feedstocks	552 928	573 281	571 544	560 388	575 692	593 385	3.1%
Petroleum products	204 660	216 795	225 079	228 790	231 262	239 895	3.7%
Natural Gas	188 749	204 170	208 155	227 013	239 361	252 037	5.3%
Electricity	16 712	18 971	18 629	20 427	20 428	19 707	-3.5%
<b>Exports</b>							
Total	364 505	391 862	387 680	394 720	390 895	409 783	4.8%
<i>among which:</i> Crude oil and feedstocks	111 886	117 803	105 247	108 891	97 387	88 886	-8.7%
Petroleum products	188 381	199 859	196 681	199 877	208 796	232 774	11.5%
Natural gas	41 383	48 830	55 692	59 778	58 854	60 523	2.8%
Electricity	14 674	15 328	15 678	16 479	17 623	17 415	-1.2%
<b>Gross inland consumption</b>							
Total	1 441 926	1 455 604	1 490 424p	1 483 188p	1 517 266	1 536 502	1.3%
<i>among which:</i> Solid fuels	207 013	214 764	217 625	216 942	222 729	224 755	0.9%
Crude oil and petrol. prod.	596 757	588 369	601 411	593 443	598 496	598 471	0.0%
Natural gas	329 304	339 268	347 353	349 570	366 336	375 326	2.5%
Nuclear Energy	223 709	222 846	229 878	230 648	231 703	234 801	1.3%
Renewables	81 216	84 642	88 494	86 093	92 632	98 240	6.1%
<b>Transformation input</b>							
Total	1 224 787	1 245 189	1 247 009p	1 254 720p	1 285 056	1 304 242	1.5%
<i>among which:</i> Crude oil and feedstocks	652 575	665 340	660 941	657 230	670 096	681 286	1.7%
Petroleum products	39 593	36 339	34 815	35 192p	31 605	26 269	-16.9%
Hard coal	138 213	144 219	141 277	141 635	148 381	148 287	-0.1%
Lignite and peat	46 460	49 386	52 134	53 699	52 717	52 591	-0.2%
Renewables	17 586	17 573	18 769	20 476	25 558	27 701	8.4%
<b>Transformation output</b>							
Total	905 096	927 168p	927 226p	925 703p	946 474p	961 708p	1.6%
<i>among which:</i> Electricity	188 368	192 040	196 225	200 692	207 440	210 133	1.3%
Heat	27 072	34 054p	34 858p	34 708p	35 268p	35 971p	2.0%


		1999	2000	2001	2002	2003	2004	04/03
<b>Final energy consumption</b>								
Total		947 869	966 479p	989 855p	977 356p	1 003 013p	1 013 884p	1.1%
among which:	Solid fuels	38 030	36 987	36 940	34 262	33 449	34 167	2.1%
	Petroleum products	438 280	435 450	446 377	440 269p	446 983	449 844	0.6%
	Natural Gas	217 867	225 897	231 599	227 530	240 753	242 426	0.7%
	Renewables	35 974	37 499	38 221	38 266	39 128	40 618	3.8%
	Electricity	185 491	191 711	197 512	198 312	203 287	206 820	1.7%
<b>Final energy consumption by sector</b>								
<b>Industry</b>								
Total		262 039	273 491p	275 998p	272 687p	276 279p	279 653p	1.2%
among which:	Solid fuels	32 452	32 271	32 139	30 224	29 895	30 753	2.9%
	Petroleum Products	42 014	41 388	45 336	42 966p	44 579	47 591	6.8%
	Natural Gas	82 943	89 462	87 281	87 786	89 739	87 325	-2.7%
	Renewables	13 532	14 417	14 035	14 359	13 762	14 336	4.2%
	Electricity	77 930	81 867	83 252	83 408	83 995	85 119	1.3%
<b>Transport</b>								
Total		306 901	310 122	311 656	314 217p	317 224	322 085	1.5%
among which:	Motor spirit	123 159	118 383	115 941	114 387p	110 660	106 790	-3.5%
	Diesel oil	132 155	138 260	143 472	147 898p	152 873	159 006	4.0%
	Jet fuel	42 007	43 907	42 401	41 939p	43 332	45 434	4.9%
	Electricity	4 974	5 128	5 204	5 217	5 283	5 344	1.2%
<b>Services&amp;households</b>								
Total		378 928	382 866	402 200	390 452p	409 511p	412 146p	0.6%
among which:	Solid fuels	5 578	4 708	4 776	4 015	3 554	3 414	-3.9%
	Gas oil	77 105	73 427	78 797	73 145p	74 771	71 153	-4.8%
	Natural Gas	134 622	136 084	143 893	139 323	150 572	154 659	2.7%
	Renewables	22 051	22 478	23 476	22 934	24 107	24 450	1.4%
	Electricity	102 587	104 715	109 057	109 686	114 009	116 356	2.1%
	Heat	18 857	24 619	25 106	24 649	24 964p	25 363p	1.6%

### 3.1 Electricity balance


 eurostat	EU-15						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	2 532 975	2 600 998	2 674 544	2 679 818	2 763 291	2 820 466	2.1%
<i>among which:</i>							
Hydro	329 035	345 332	365 509	310 190	306 602	318 359	3.8%
Wind	14 210	22 240	26 958	35 633	44 184	58 330	32.0%
Geothermal	4 483	4 785	4 612	4 758	5 431	5 521	1.7%
Nuclear	867 244	863 915	891 162	894 147	898 234	910 247	1.3%
Conventional thermal	1 318 003	1 364 726	1 386 303	1 435 090	1 508 840	1 528 009	1.3%
<i>of which:</i>							
Hard coal	451 473	477 235	476 293	485 953	526 471p	508 586	-3.4%
Lignite and peat	184 392	196 557	206 943	202 146	214 315p	208 295	-2.8%
Petroleum products	181 407	163 620	154 389	171 633	145 970p	131 450	-9.9%
Natural gas	427 459	452 012	456 843	489 676	527 491p	574 837	9.0%
Derived gases	29 970	27 850	28 416	27 224	27 161p	27 534	1.4%
Biomass	35 133	39 182	40 603	47 243	56 447	65 385	15.8%
Industrial wastes	8 169	8 270	22 816	11 215	10 985p	11 922	8.5%
Total net generation	2 408 842	2 475 748	2 548 781	2 553 407	2 636 092	2 693 009	2.2%
<b>Imports and exports</b>							
Total imports	194 358	220 635	216 657	237 569	237 574	229 189	-3.5%
Total exports	170 663	178 259	182 330	191 650	204 960	202 535	-1.2%
<b>Consumption and losses</b>							
Consumption of the energy branch	218 284	219 683	217 990	224 359	231 000	235 175	1.8%
<i>of which:</i>							
Consumption for pumped-storage	8 687	12 576	9 259	12 910	12 221	12 089	-1.1%
Network losses	157 743	170 272	167 847	165 814	171 859	175 817p	2.3%
Final energy consumption	2 157 258	2 229 599	2 297 066	2 306 364	2 364 229	2 405 313	1.7%
<i>of which:</i>							
Industry	906 326	952 117	968 219	970 035	976 860	989 938	1.3%
<i>among which:</i>							
Iron&steel industry	102 726	111 444	110 692	107 427	107 049	108 415	1.3%
Non-ferrous metals	64 725	66 866	70 093	69 349	69 383	72 301	4.2%
Chemical industry	173 260	177 011	174 102	174 513	173 692p	175 216p	0.9%
Non-met. mineral prod.	66 710	67 269	69 572	69 686	71 433	72 709	1.8%
Food, drink, tobacco	84 880	88 311	89 113	90 875	92 651p	94 044p	1.5%
Pulp, paper and print	118 921	124 515	125 584	127 102	128 466	131 467	2.3%
Engineering & metal	127 427	130 270	131 469	132 703	132 507p	135 033p	1.9%
Other industries	122 471	138 881	149 984	151 266	155 772p	155 908p	0.1%
Transport	57 850	59 643	60 519	60 677	61 439	62 156	1.2%
Services & households etc.	1 193 082	1 217 839	1 268 328	1 275 652	1 325 930	1 353 219	2.1%
<i>among which:</i>							
Households	631 797	636 126	659 760	664 057	689 170p	701 896p	1.8%




## 3.2 Electrical capacity, fuel inputs and heat


	EU-15							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	574 102	586 420	591 784	605 772	617 857p	625 757	1.3%
<i>by source:</i>								
Conventional thermal		322 592	330 493	330 876	334 538	346 209p	348 843	0.8%
<i>of which:</i>								
Steam		246 296	246 853	242 844	:	:	:	
Gas turbine		25 519	25 528	25 628	:	:	:	
Combined cycle		37 042	47 835	52 018	:	:	:	
Internal combustion		7 899	9 473	9 384	:	:	:	
Nuclear		124 700	123 831	123 847	125 072	122 803	121 696	-0.9%
Hydro		117 304	118 283	119 303	122 650	120 109p	121 068	0.8%
<i>among which:</i>								
Pumped storage		32 179	31 574	31 614	27 244	31 218p	27 278p	-12.6%
Wind		8 909	13 209	17 171	22 832	28 015p	33 494	19.6%
Geothermal		597	604	587	680	721	656	-9.0%
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		516 857	544 672	550 044	563 125	577 665p	579 589p	0.3%
Autoproducers		53 082	41 890	41 829	43 074	40 918p	46 311p	13.2%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	290 490	298 093	301 570p	315 617p	332 076	335 104	0.9%
<i>among which:</i>								
Hard coal		103 170	108 793	109 088	111 303	118 369	116 879	-1.3%
Lignite and peat		43 546	46 552	49 024	51 503	50 586	50 315	-0.5%
Petroleum products		37 939	34 121	32 658	33 567p	30 160	24 980	-17.2%
Natural gas		81 605	84 006	85 184	91 814	100 581	108 033	7.4%
Renewables		15 327	15 476	16 427	18 214	23 101	25 302	9.5%
Heating plants		7 887	8 279	8 349	7 928	7 471	7 970	6.7%
<i>among which:</i>								
Hard coal		537	553	493	730	526	834	58.7%
Lignite and peat		169	157	188	230	199	211	6.1%
Petroleum products		820	1 430	1 541	986	753	774	2.8%
Natural gas		3 776	3 704	3 437	3 407	3 242	3 437	6.0%
Renewables		2 259	2 097	2 342	2 262	2 457	2 399	-2.4%
<b>Heat production and consumption</b>								
Total heat production	TJ	27 072	34 054p	34 858p	34 708p	35 268p	35 971p	2.0%
<i>among which: in heating plants</i>								
		9 156	8 116	8 064	7 671	7 604p	7 628	0.3%
Heat consumption		24 207	30 811p	31 662p	31 551p	32 070p	32 747p	2.1%
<i>of which: in industry</i>								
		5 350	6 192p	6 556p	6 902p	7 106p	7 384p	3.9%
<i>in households and services</i>								
		18 857	24 619	25 106	24 649	24 964p	25 363p	1.6%
<i>among which: in households</i>								
		9 881	18 877	19 448	19 471	19 660p	19 980p	1.6%

## 4.1 Crude oil and feedstocks


 eurostat	EU-15						
	1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 t</i>							
<b>Primary production and supply</b>							
Primary production	165 040	157 370	146 377	148 975	139 427	129 248	-7.3%
Total imports	550 562	571 007	569 775	559 795	574 532	591 871	3.0%
Total exports	110 185	116 187	103 759	107 101	95 920	87 509	-8.8%
Stock changes	1 334	1 493	-2 286	483	-194	-2 196	-1031.7%
Refinery intake	648 841	661 825	657 954	655 258	667 597	678 542	1.6%
<b>Imports of Crude Oil by origin</b>							
<i>by region of origin:</i>							
OPEC	238 486	237 703	203 790	185 852	203 778	210 100	3.1%
Near and Middle East	160 780	154 897	136 040	121 228	122 534	121 961	-0.5%
Africa	99 689	107 034	109 971	98 646	106 162	103 393	-2.6%
<i>by country of origin:</i>							
Algeria	16 734	20 932	19 122	17 878	18 606	21 410	15.1%
Nigeria	19 711	22 407	25 723	18 440	23 186	14 858	-35.9%
Saudi Arabia	61 025	65 143	57 496	53 144	61 535	64 460	4.8%
Kuwait	7 662	9 768	7 990	6 384	6 243	6 605	5.8%
United Arab Emirates	-	147	354	-	-	14	
Norway	107 459	114 798	108 121	102 827	106 404	108 493	2.0%
<b>Refining capacity</b>							
Capacity at the end of year	<i>1 000 t/year</i>	664 600	667 440	:	:	:	:
<i>among which:</i>							
Cracking and others		270 250	278 230	:	:	:	:
Reforming		89 180	89 550	:	:	:	:

## 4.2 Petroleum products


 eurostat	EU-15						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	638 813	650 474	649 678	647 089	659 713	669 880	1.5%
<i>among which:</i>							
Motor spirit	136 430	133 628	135 204	136 552	136 994	139 761	2.0%
Kerosene and jet fuel	45 156	43 482	40 839	39 570	41 283	44 375	7.5%
Naphtha	38 189	41 286	40 308	36 563	39 473	37 933	-3.9%
Gas/diesel oil	221 493	229 794	232 140	231 749	236 596	236 673	0.0%
Residual fuel oil	106 769	109 719	105 901	102 630	103 705	107 523	3.7%
Total imports	206 050	218 301	226 363	230 527	233 329	242 262	3.8%
Total exports	187 699	199 429	196 290	199 503	208 438	232 636	11.6%
Bunkers	40 967	43 622	44 998	45 925	46 305	49 426	6.7%
Stock changes	8 568	-5 114	2 011	2 500	-2 064	2 291	211.0%
Gross inland consumption	-12 927	-28 579	-11 263	-10 084	-21 076	-35 097	-66.5%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	39 186	40 576	37 414	34 573	34 280	37 912	10.6%
United Kingdom	21 208	21 824	20 730	22 086	20 803	20 404	-1.9%
Norway	6 885	6 408	4 612	6 871	7 535	7 768	3.1%
OPEC	22 656	27 911	23 914	25 335	22 957	24 961	8.7%
Imports by product							
<i>among which:</i>							
Motor spirit	26 194	30 167	27 691	25 480	25 093	23 483	-6.4%
Kerosene and jet fuel	13 868	16 028	19 323	18 975	20 223	22 812	12.8%
Gas/diesel oil	69 006	67 194	77 746	79 143	81 057	84 938	4.8%
Residual fuel oil	38 330	43 933	41 668	47 489	44 103	42 778	-3.0%
Exports by product							
<i>among which:</i>							
Motor spirit	44 508	45 847	43 909	46 112	48 513	56 763	17.0%
Kerosene and jet fuel	11 356	10 408	10 189	9 650	10 407	11 168	7.3%
Gas/diesel oil	57 611	58 780	61 091	62 046	61 296	64 348	5.0%
Residual fuel oil	35 413	42 105	39 931	39 391	43 385	51 822	19.4%
<b>Consumption</b>							
Inputs to electricity plants	39 382	35 421	33 959	34 935p	31 470	26 013	-17.3%
Inputs to heating plants	838	1 478	1 597	1 017	779	801	2.8%
Non-energy use	84 024	85 058	83 473	82 792p	83 073	81 830	-1.5%
Final energy consumption	430 113	427 303	438 741	432 887p	439 549	442 513	0.7%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	11 606	11 778	12 636	12 192p	12 530	13 565	8.3%
Residual fuel oil	17 493	15 389	15 741	15 141p	15 495	15 228	-1.7%

 eurostat	EU-15							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		3 216	3 212p	3 076	2 741p	2 691	2 790	3.7%
Non-ferrous metals		1 381	1 585p	1 102	1 081p	1 045	997	-4.6%
Chemical industry		4 626	4 565p	8 226	6 281p	6 688	8 723	30.4%
Non-met. mineral prod.		11 800	11 685p	12 099	11 782p	12 548	12 972	3.4%
Food, drink, tobacco		4 541	4 273p	4 424	4 502p	4 499	4 280	-4.9%
Pulp, paper and print		2 274	2 238p	2 183	2 212p	2 278	2 039	-10.5%
Engineering & metal		3 493	3 311p	3 358	3 454p	3 487	3 225	-7.5%
Other industries		10 122	9 939p	10 786	9 917p	11 621	12 895	11.0%
<b>Transport</b>		292 615	295 512	296 884	299 235p	302 002	306 318	1.4%
<i>among which:</i>								
Motor spirit		117 191	112 647	110 323	108 844p	105 298	101 615	-3.5%
Jet fuel		40 901	42 751	41 285	40 835p	42 191	44 238	4.9%
Diesel oil		130 805	136 848	142 007	146 388p	151 312	157 382	4.0%
<b>Services &amp; households etc.</b>		93 443	88 452	94 102	88 153p	90 597	86 177	-4.9%
<i>among which:</i>								
Gas oil		76 318	72 677	77 992	72 398p	74 007	70 426	-4.8%
Residual fuel oil		4 161	3 053	2 997	2 881p	3 625	2 392	-34.0%
<b>Stocks at end of period</b>								
Crude oil and feedstocks		56 633	54 985	53 099	57 441	58 339	59 826	2.5%
Petroleum products		89 786	95 136	93 456	90 626	92 322	89 815	-2.7%


## 5. Natural gas

 eurostat	EU-15							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		8 640 862	8 861 179	8 891 102	8 721 703	8 521 019	8 635 546	1.3%
Total imports		8 780 618	9 497 991	9 683 376	10 560 657	11 135 075	11 724 759	5.3%
Total exports		1 925 137	2 271 591	2 590 794	2 780 879	2 737 892	2 815 541	2.8%
Stock changes		-177 135	-304 847	175 177	-239 502	123 736	-84 609	-168.4%
Gross inland consumption		15 319 208	15 782 732	16 158 861	16 261 979	17 041 938	17 460 155	2.5%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		c	c	c	c	c	c	
Algeria		2 109 596	2 187 817	1 901 242	2 075 329	2 140 073	2 019 304	-5.6%
Norway		c	c	c	c	c	c	
<b>Consumption</b>								
Inputs to electricity plants		3 796 275	3 907 968	3 962 744	4 271 196	4 679 051	5 025 675	7.4%
Inputs to heat plants		175 681	172 295	159 904	158 490	150 800	159 884	6.0%
Consumption of energy branch		482 813	497 060	574 697	545 444	506 253	523 361	3.4%
Distribution losses		106 582	135 284	99 148	61 932p	67 748	98 337	45.2%
Non-energy use		506 038	511 753	478 830	472 367	461 310	467 928	1.4%
Industry		3 858 525	4 161 749	4 060 335	4 083 820	4 174 661	4 062 381	-2.7%
<i>among which:</i>								
Iron&steel industry		417 513	436 013	439 873	390 115	398 683	412 753	3.5%
Non-ferrous metals		109 240	112 845	117 330	124 569	118 722	115 440	-2.8%
Chemical industry		899 040	952 575	913 113	909 045	941 453	923 261	-1.9%
Non-met. mineral prod.		612 797	654 856	667 557	640 712	701 595	667 044	-4.9%
Food, drink, tobacco		527 661	548 524	550 958	584 791	592 474	596 584	0.7%
Pulp, paper and print		394 699	413 516	393 088	407 208	438 223	408 657	-6.7%
Engineering & metal		446 367	468 328	482 495	466 900	489 208	473 141	-3.3%
Other industries		268 248	283 491	307 802	371 451	299 175	281 052	-6.1%
Transport		14 029	16 347	19 737	19 584	20 558	20 521	-0.2%
Services & households etc.		6 262 636	6 330 635	6 693 923	6 481 305	7 004 589	7 194 734	2.7%
<i>among which:</i>								
Households		4 246 126	4 306 088	4 534 982	4 440 353	4 761 967	4 897 282	2.8%
Services		1 818 702	1 829 962	1 962 625	1 846 713	2 065 647	2 086 666	1.0%


## 6.1 Hard coal

 eurostat	EU-15							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	99 978	86 089	78 114	73 702	71 075	66 279	-6.7%	
Total imports	154 981	173 086	195 731	183 175	192 139	209 268	8.9%	
Total exports	9 729	11 765	19 637	11 663	9 291	11 718	26.1%	
Stock changes	412	8 261	130	4 058	7 145	160	-97.8%	
Gross inland consumption	247 534	257 282	255 348	250 332	262 221	265 443	1.2%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	20 023	19 607	19 727	13 819	11 936	14 568	22.1%	
Poland	18 696	19 721	18 449	18 304	16 193	16 275	0.5%	
CIS	6 483	9 939	17 128	16 738	20 127	34 020	69.0%	
Australia	24 692	28 365	29 122	28 862	30 332	30 087	-0.8%	
South Africa	35 191	40 161	48 668	53 533	56 868	54 052	-5.0%	
Colombia	18 973	23 050	22 549	21 353	22 882	24 103	5.3%	
<b>Consumption</b>								
Inputs to electricity plants	174 002	183 417	183 539	187 267	198 991	196 000	-1.5%	
Inputs to heat plants	777	793	819	1 176	878	1 282	46.0%	
Consumption of energy branch	423	213	243	208	152	130	-14.5%	
Industry								
<i>among which:</i>								
Iron&steel industry	10 329	10 434	10 698	11 256	10 729	11 698	9.0%	
Non-ferrous metals	527	235	437	386	266	449	68.8%	
Chemical industry	1 422	612	1 276	1 681	1 959	2 027	3.5%	
Non-met. mineral prod.	5 807	5 429	5 426	4 393	4 262	4 326	1.5%	
Food, drink, tobacco	1 152	1 002	1 013	864	896	1 069	19.3%	
Pulp, paper and print	996	906	913	960	886	1 013	14.3%	
Engineering & metal	181	102	129	77	70	221	215.7%	
Other industries	211	401	195	188	227	197	-13.2%	
Services & households etc.	5 104	3 963	4 474	3 494	3 083	3 201	3.8%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	64.0	57.3	51.3	40.2	:	:		
Number of active hard coal mines (end of year)	146	127	119	116	:	:		

## 6.2 Coal derivatives and peat

	EU-15						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	36 657	36 743	34 302	31 503	31 943	33 189	3.9%
Patent Fuel	1 005	857	768	690	609	520	-14.6%
Lignite and peat	248 531	252 248	264 068	275 429	270 631	269 354	-0.5%
Brown coal briquettes	5 639	5 653	5 546	5 394	5 331	5 651	6.0%
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	309 335	292 458	256 807	240 636	235 806	237 983	0.9%
Blast-furnace gas	494 527	508 152	470 620	475 289	484 760	498 532	2.8%
Gasworks gas	7 883	8 871	4 515	4 127	4 246	4 487	5.7%
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	25 463	26 491	25 832	24 002	23 950	23 005	-3.9%
<i>among which:</i>							
Iron & steel industry	22 025	23 215	23 325	21 469	21 675	20 932	-3.4%
Services & households	854	838	738	621	415	286	-31.1%
Patent Fuel	987	886	771	717	572	511	-10.7%
<i>among which:</i>							
Services & households	969	861	734	693	555	499	-10.1%
Lignite and peat	3 753	3 362	3 330	3 148	2 725	2 820	3.5%
<i>among which:</i>							
Industry	2 722	2 427	2 386	2 349	1 935	2 042	5.5%
Services & households	1 031	935	944	799	790	778	-1.5%
Brown coal briquettes	4 527	4 420	4 135	3 819	3 844	4 104	6.8%
<i>among which:</i>							
Industry	2 467	2 508	2 313	2 135	2 144	2 617	22.1%
Services & households	2 060	1 912	1 822	1 684	1 700	1 487	-12.5%
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	129 879	125 850	114 133	108 978	104 202	107 937	3.6%
Blast-furnace gas	197 727	206 125	194 038	190 137	195 471	192 111	-1.7%
Gasworks gas	7 359	8 480	4 246	3 860	3 989	4 168	4.5%
Inputs to electricity plants	302 528	303 553	279 569	280 507	291 128	298 787	2.6%
Inputs to heat plants	11 716	9 850	9 647	8 038	5 999	6 690	11.5%
Consumption of energy branch	136 558	128 025	110 491	113 385	109 934	112 967	2.8%
Consumption in industry	328 009	332 268	308 426	299 339	299 869	300 373	0.2%

## 7. Renewable energy sources

		EU-15						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	80 747	84 037	87 819	85 363	91 787	97 145	5.8%
Hydro (excl. pumping)		26 195	27 645	29 194	24 144	23 877	24 748	3.6%
Wind		1 221	1 912	2 318	3 064	3 799	5 015	32.0%
Solar		337	381	438	500	579	649	12.1%
Geothermal		4 213	3 315	3 517	3 812	5 180	5 261	1.6%
Biomass		48 781	50 785	52 353	53 844	58 351	61 471	5.3%
	<i>among which:</i>							
Wood, wood-waste		39 814	40 725	41 492	41 740	44 911	46 750	4.1%
Municipal solid waste		6 725	7 240	7 576	7 765	8 814	9 116	3.4%
Biogas		1 843	2 212	2 722	3 305	3 266	3 602	10.3%
Gross inland consumption		81 216	84 642	88 494	86 093	92 632	98 240	6.1%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		3 865	2 949	3 046	3 341	4 694	4 776	1.7%
Biomass		13 721	14 624	15 723	17 135	20 864	22 925	9.9%
	<i>among which:</i>							
Wood, wood-waste		5 932	6 063	6 726	7 566	9 843	11 197	13.8%
Municipal waste		6 339	6 704	6 984	7 034	8 186	8 478	3.6%
Biogas		1 449	1 857	2 184	2 530	2 816	3 216	14.2%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	35 974	37 499	38 221	38 266	39 128	40 618	3.8%
	<i>by sector:</i>							
Industry		13 532	14 417	14 035	14 359	13 762	14 336	4.2%
Services & households etc.		22 051	22 478	23 476	22 934	24 107	24 450	1.4%
Transport		391	604	711	973	1 259	1 832	45.5%
	<i>by source:</i>							
Biomass		35 296	36 762	37 322	37 325	38 102	39 549	3.8%
	<i>among which:</i>							
Wood, wood-waste		34 098	34 922	35 473	34 837	35 842	36 771	2.6%
Municipal waste		152	536	593	731	628	637	1.5%
Biogas		353	354	537	775	365	298	-18.3%
Geothermal		348	365	471	471	486	485	-0.2%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		75	111	171	258	438	736	68.0%
Hydro with installed capacity < 1 MW		8 476	8 177	8 315	8 419	8 660	8 569	-1.1%
Hydro with installed capacity > 1 & <10 MW		29 244	31 551	31 003	29 255	26 216	30 823	17.6%
Hydro with installed capacity > 10 MW		264 800	279 325	300 870	239 790	236 336	248 888	5.3%
Wood, Wood-waste		18 362	19 589	19 585	23 425	28 592	34 393	20.3%
Municipal waste		11 923	13 383	13 754	16 240	18 580	19 592	5.4%
Biogas		4 720	6 306	7 333	9 146	9 899	11 300	14.2%



eurostat	EU-15						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	125	183	274	342	519	862	66.1%
Hydro with installed capacity < 1 MW	2 135	2 047	2 058	1 974	2 093	1 971	-5.8%
Hydro with installed capacity > 1 & <10 MW	7 624	7 308	7 708	8 089	7 852	8 396	6.9%
Hydro with installed capacity > 10 MW	79 039	77 664	77 938	80 947	78 358	90 880	16.0%
Wood, Wood-waste	5 823	6 046p	5 692p	5 982p	6 669p	7 563p	13.4%
Municipal waste	2 113	2 260	2 375	2 458p	3 129p	3 346p	6.9%
Biogas	945	1 156	1 444	1 556	1 815	2 040	12.4%
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	492	748	872	1 221	1 599	2 381	48.9%
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	9 213	10 489	12 094	13 198	14 478	15 740	8.7%


# 1. Energy economy

## Key figures and energy indicators

eurostat		BELGIQUE/BELGIË					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	13 274	13 065	12 675	12 883	13 118	13 159
Net energy imports		46 914	48 651	48 710	45 335	49 363	49 309
Net oil imports		25 918	27 331	27 142	25 160	28 334	27 702
Net gas imports		13 478	13 278	13 134	13 653	14 243	14 559
Gross inland energy consumption		56 876	57 168	55 656	52 552	55 801	54 826
Final energy consumption		36 931	36 931	37 201	35 848	37 932	37 416
Industry		13 253	13 636	13 527	12 697	12 635	12 444
Transport		9 597	9 672	9 452	9 613	10 134	10 201
Services and households etc.		14 082	13 624	14 223	13 538	15 163	14 772
Gross electricity generation	GWh	84 521	83 894	79 697	82 060	84 618	85 441
Final electricity consumption		74 505	77 539	78 138	78 443	79 677	80 603
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	238 767	247 994	250 593	254 359	256 685	263 333
Population	1000 per.	10 214	10 239	10 263	10 310	10 356	10 396
Industry added value	Mio EUR	60 248	63 368	63 282	63 161	62 766	64 581
Total imports (current prices)	Mio EUR	166 313	180 766	181 140	181 385	187 039	198 942
among which:							
All energy commodities		8 844	17 075	17 204	16 570	18 102	22 118
Oil products		6 591	13 270	12 831	12 047	12 761	14 465
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	238.2	230.5	222.1	206.6	217.4	208.2
Final energy consumption / GDP(95)		154.7	148.9	148.5	140.9	147.8	142.1
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		220.0	215.2	213.8	201.0	201.3	192.7
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		24.9	22.7	23.3	22.4	27.2	24.7
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	5 569	5 583	5 423	5 097	5 388	5 274
Final energy consumption / capita		3 616	3 607	3 625	3 477	3 663	3 599
Household consumption / capita		928	924	959	899	953	963
Final electricity consumption / capita	kWh/cap.	7 295	7 573	7 613	7 609	7 694	7 753
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	76.6	77.8	80.0	76.4	78.8	78.9
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	64.9	64.6	66.8	68.2	68.0	68.2
Efficiency of thermal power stations		45.8	46.4	50.1	51.4	47.6	47.6

## 2. Energy balance

### Principal aggregates by product

 eurostat	BELGIQUE/BELGIE						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	13 274	13 065	12 675	12 883	13 118	13 159	0.3%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	-	-	-	-	-	-	-
Natural Gas	0	2	-	-	-	-	-
Nuclear heat	12 644	12 422	11 956	12 217	12 222	12 204	-0.1%
Hydro-electricity	29	39	38	31	21	27	28.3%
Biomass	597	596	673	627	864	913	5.7%
<b>Imports</b>							
Total	70 672	73 672	72 281	70 421	74 185	76 111	2.6%
<i>among which:</i> Hard coal	7 585	7 888	8 026	6 934	6 573	6 853	4.3%
Crude oil and feedstocks	34 165	36 165	33 403	32 897	36 262	35 511	-2.1%
Petroleum products	13 836	14 378	15 466	15 063	15 434	17 432	13.0%
Natural Gas	13 478	13 278	13 134	13 653	14 243	14 559	2.2%
Electricity	779	1 001	1 360	1 432	1 261	1 253	-0.7%
<b>Exports</b>							
Total	23 758	25 021	23 570	25 086	24 823	26 802	8.0%
<i>among which:</i> Crude oil and feedstocks	3 120	3 507	2 295	2 781	3 054	3 098	1.4%
Petroleum products	18 963	19 706	19 432	20 020	20 307	22 143	9.0%
Natural gas	-	-	-	-	-	-	-
Electricity	706	629	577	780	710	584	-17.7%
<b>Gross inland consumption</b>							
Total	56 876	57 168	55 656	52 552	55 801	54 826	-1.7%
<i>among which:</i> Solid fuels	7 421	8 200	7 077	6 652	6 216	6 090	-2.0%
Crude oil and petrol. prod.	22 532	21 949	21 692	18 662	21 216	20 053	-5.5%
Natural gas	13 335	13 369	13 180	13 378	14 402	14 570	1.2%
Nuclear Energy	12 644	12 422	11 956	12 217	12 222	12 204	-0.1%
Renewables	738	746	820	802	1 056	1 161	10.0%
<b>Transformation input</b>							
Total	58 619	60 614	60 293	65 082	66 197	64 335	-2.8%
<i>among which:</i> Crude oil and feedstocks	35 019	37 085	38 224	42 808	43 026	40 985	-4.7%
Petroleum products	444	172	248	-	258	432	67.3%
Hard coal	4 946	5 699	5 010	4 876	4 701	4 630	-1.5%
Lignite and peat	-	-	-	-	-	-	-
Renewables	346	367	409	404	574	638	11.1%
<b>Transformation output</b>							
Total	45 823	47 999	48 645	53 254	53 563	51 785	-3.3%
<i>among which:</i> Electricity	7 138	7 066	6 708	6 923	7 155	7 197	0.6%
Heat	420	532	525	514	504	502	-0.4%



in 1 000 toe

**BELGIQUE/BELGIE**

**1999      2000      2001      2002      2003      2004      04/03**

**Final energy consumption**

Total	36 931	36 931	37 201	35 848	37 932	37 416	-1.4%
<i>among which:</i> Solid fuels	3 271	3 378	3 301	2 452	2 381	2 326	-2.3%
Petroleum products	16 956	16 047	16 257	15 519	17 472	16 624	-4.9%
Natural Gas	8 947	9 446	9 509	9 712	9 653	9 958	3.2%
Renewables	362	338	371	362	453	484	7.0%
Electricity	6 406	6 667	6 719	6 745	6 851	6 931	1.2%

**Final energy consumption by sector**

**Industry**

Total	13 253	13 636	13 527	12 697	12 635	12 444	-1.5%
<i>among which:</i> Solid fuels	3 071	3 164	3 096	2 224	2 210	2 139	-3.2%
Petroleum Products	1 627	1 265	1 646	1 280	1 284	1 089	-15.2%
Natural Gas	4 181	4 608	4 239	4 641	4 386	4 425	0.9%
Renewables	200	180	191	207	256	291	13.5%
Electricity	3 236	3 428	3 373	3 348	3 437	3 471	1.0%


**Transport**

Total	9 597	9 672	9 452	9 613	10 134	10 201	0.7%
<i>among which:</i> Motor spirit	2 518	2 362	2 300	2 196	2 214	2 032	-8.2%
Diesel oil	5 123	5 494	5 690	5 839	5 998	6 525	8.8%
Jet fuel	1 552	1 530	1 160	1 257	1 544	1 425	-7.7%
Electricity	120	124	126	125	128	129	0.8%


**Services&households**

Total	14 082	13 624	14 223	13 538	15 163	14 772	-2.6%
<i>among which:</i> Solid fuels	199	215	205	228	171	187	9.0%
Gas oil	5 150	4 791	4 802	4 304	5 140	5 105	-0.7%
Natural Gas	4 766	4 838	5 270	5 070	5 267	5 533	5.0%
Renewables	162	157	180	154	196	194	-1.4%
Electricity	3 050	3 115	3 220	3 272	3 286	3 331	1.4%
Heat	50	64	63	62	60	60	-0.4%


### 3.1 Electricity balance

 eurostat	BELGIQUE/BELGIE							
	in GWh		1999	2000	2001	2002	2003	2004
<b>Generation</b>								
Total gross generation		84 521	83 894	79 697	82 060	84 618	85 441	1.0%
<i>among which:</i>								
Hydro		1 489	1 699	1 648	1 488	1 316	1 607	22.1%
Wind		13	15	34	57	90	129	43.3%
Geothermal		-	-	-	-	-	-	-
Nuclear		49 017	48 157	46 349	47 360	47 379	47 312	-0.1%
Conventional thermal		34 002	34 023	31 666	33 155	35 833	36 393	1.6%
<i>of which:</i>								
Hard coal		9 939	12 916	9 936	10 029	9 638	9 147	-5.1%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		1 035	797	1 664	972	1 007	1 675	66.3%
Natural gas		19 231	15 977	15 780	17 868	21 609	21 477	-0.6%
Derived gases		2 589	3 114	2 828	2 631	1 970	2 336	18.6%
Biomass		828	860	945	1 169	1 339	1 535	14.6%
Industrial wastes		380	359	513	486	270	223	-17.4%
Total net generation		80 851	80 160	76 085	78 143	80 807	81 539	0.9%
<b>Imports and exports</b>								
Total imports		9 059	11 645	15 818	16 658	14 664	14 567	-0.7%
Total exports		8 207	7 319	6 712	9 070	8 254	6 790	-17.7%
<b>Consumption and losses</b>								
Consumption of the energy branch		5 587	5 758	5 702	6 307	6 525	7 465	14.4%
<i>of which:</i>								
Consumption for pumped-storage		372	397	417	395	377	406	7.7%
Network losses		4 133	3 683	3 755	3 768	3 757	3 855	2.6%
Final energy consumption		74 505	77 539	78 138	78 443	79 677	80 603	1.2%
<i>of which:</i>								
Industry		37 633	39 868	39 224	38 933	39 975	40 367	1.0%
<i>among which:</i>								
Iron&steel industry		6 198	6 876	6 663	6 833	7 015	7 061	0.7%
Non-ferrous metals		1 907	2 045	1 980	1 997	2 083	2 123	1.9%
Chemical industry		12 790	13 480	13 189	13 177	13 537	13 473	-0.5%
Non-met. mineral prod.		2 470	2 518	2 497	2 515	2 563	2 613	2.0%
Food, drink, tobacco		3 767	3 953	4 041	3 907	4 005	4 083	1.9%
Pulp, paper and print		2 475	2 525	2 465	2 497	2 563	2 612	1.9%
Engineering & metal		3 018	3 231	3 126	2 984	3 083	3 143	1.9%
Other industries		2 724	2 853	2 887	2 751	2 803	2 746	-2.0%
Transport		1 401	1 440	1 463	1 452	1 490	1 502	0.8%
Services & households etc.		35 471	36 231	37 451	38 058	38 212	38 734	1.4%
<i>among which:</i>								
Households		23 482	23 738	24 396	25 921	26 026	26 543	2.0%


## 3.2 Electrical capacity, fuel inputs and heat

		BELGIQUE/BELGIE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	15 575	15 682	15 538	15 546	15 609	15 634	0.2%
<i>by source:</i>								
Conventional thermal		8 442	8 545	8 353	8 341	8 366	8 365	0.0%
<i>of which:</i>								
Steam		4 719	4 272	4 082	4 084	4 049	3 670	-9.4%
Gas turbine		1 010	1 281	1 300	1 226	1 243	1 275	2.6%
Combined cycle		2 513	2 792	2 771	2 676	2 676	3 005	12.3%
Internal combustion		200	200	200	356	398	415	4.3%
Nuclear		5 713	5 713	5 738	5 761	5 761	5 761	0.0%
Hydro		1 410	1 410	1 421	1 413	1 415	1 415	0.0%
<i>among which:</i>								
Pumped storage		1 307	1 310	1 310	1 310	1 310	1 307	-0.2%
Wind		10	14	26	31	67	93	38.8%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		14 924	15 230	15 112	15 137	15 201	15 231	0.2%
Autoproducers		645	442	416	409	408	403	-1.2%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	7 293	7 453	6 483	6 550	7 536	7 635	1.3%
<i>among which:</i>								
Hard coal		2 247	3 025	2 267	2 263	2 191	2 071	-5.5%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		444	172	248	-	258	432	67.3%
Natural gas		3 528	3 144	2 884	3 164	3 954	3 908	-1.2%
Renewables		338	356	390	386	540	601	11.3%
Heating plants		39	41	40	19	34	37	8.6%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		31	30	21	-	-	-	-
Renewables		8	11	19	19	34	37	8.6%
<b>Heat production and consumption</b>								
Total heat production	TJ	420	532	525	514	504	502	-0.4%
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		387	490	483	474	464	462	-0.4%
<i>of which: in industry</i>								
		336	426	420	412	404	402	-0.4%
<i>in households and services</i>								
		50	64	63	62	60	60	-0.4%
<i>among which: in households</i>								
		13	16	16	15	15	15	-0.5%


## 4.1 Crude oil and feedstocks

 eurostat		BELGIQUE/BELGIE						
		1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 t</i>								
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		35 276	37 441	35 495	36 637	39 257	38 184	-2.7%
Total exports		3 074	3 455	2 261	2 740	3 009	3 052	1.4%
Stock changes		-37	52	129	32	-29	4	113.8%
Refinery intake		36 119	38 344	40 254	46 412	45 920	43 576	-5.1%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		11 081	12 500	11 597	11 262	14 533	12 208	-16.0%
Near and Middle East		9 177	11 135	9 944	9 752	11 811	10 285	-12.9%
Africa		465	930	555	962	1 670	772	-53.8%
<i>by country of origin:</i>								
Algeria		224	177	142	631	249	208	-16.5%
Nigeria		136	289	238	187	1 265	433	-65.8%
Saudi Arabia		5 677	6 794	5 821	6 337	6 144	5 373	-12.5%
Kuwait		63	-	87	2	-	331	
United Arab Emirates		-	-	50	-	-	-	-
Norway		9 347	8 936	8 135	6 784	4 711	2 949	-37.4%
<b>Refining capacity</b>								
Capacity at the end of year	<i>1 000 t/year</i>	37 550	37 880	:	:	:	:	
<i>among which:</i>								
Cracking and others		11 330	11 050	:	:	:	:	
Reforming		4 980	5 070	:	:	:	:	


## 4.2 Petroleum products

 eurostat	BELGIQUE/BELGIE						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	35 773	38 092	39 883	46 005	45 489	43 233	-5.0%
<i>among which:</i>							
Motor spirit	6 032	5 311	5 493	5 775	5 865	5 789	-1.3%
Kerosene and jet fuel	2 128	2 317	2 026	2 145	2 110	2 221	5.3%
Naphtha	1 608	2 026	2 135	2 051	2 460	2 318	-5.8%
Gas/diesel oil	11 749	12 501	12 777	12 464	13 013	12 327	-5.3%
Residual fuel oil	6 895	7 990	7 015	7 603	8 689	8 380	-3.6%
Total imports	13 811	14 445	15 468	15 160	15 592	17 558	12.6%
Total exports	18 852	19 655	19 367	19 969	20 239	22 084	9.1%
Bunkers	4 535	5 545	5 429	7 080	7 146	8 037	12.5%
Stock changes	1 001	-101	-327	268	-256	48	118.8%
Gross inland consumption	-8 564	-10 856	-9 655	-11 614	-12 041	-12 509	-3.9%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	9 428	9 062	8 256	9 502	10 744	12 684	18.1%
United Kingdom	1 078	1 357	1 509	1 327	1 064	640	-39.8%
Norway	487	505	235	116	100	131	31.0%
OPEC	80	157	96	555	326	22	-93.3%
Imports by product							
<i>among which:</i>							
Motor spirit	1 574	1 536	1 472	1 218	1 123	1 080	-3.8%
Kerosene and jet fuel	643	496	535	721	1 110	1 292	16.4%
Gas/diesel oil	6 313	6 259	7 281	6 314	6 657	8 300	24.7%
Residual fuel oil	2 227	2 347	2 886	3 678	4 457	5 364	20.4%
Exports by product							
<i>among which:</i>							
Motor spirit	5 257	4 604	4 801	4 935	4 859	4 991	2.7%
Kerosene and jet fuel	1 133	1 194	1 348	1 551	1 636	1 974	20.7%
Gas/diesel oil	7 355	7 422	7 589	7 643	7 419	8 193	10.4%
Residual fuel oil	2 763	3 887	3 413	3 515	4 024	4 430	10.1%
<b>Consumption</b>							
Inputs to electricity plants	463	180	260	-	270	452	67.4%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	4 365	5 210	5 442	5 159	4 538	3 686	-18.8%
Final energy consumption	16 770	15 919	16 080	15 339	17 327	16 416	-5.3%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	514	308	745	592	293	292	-0.3%
Residual fuel oil	851	507	658	334	712	696	-2.2%




 eurostat	BELGIQUE/BELGIE							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	43	252	36	50	32	31	-3.1%	
Non-ferrous metals	24	206	23	49	46	28	-39.1%	
Chemical industry	228	31	1	14	228	150	-34.2%	
Non-met. mineral prod.	249	147	414	319	396	321	-18.9%	
Food, drink, tobacco	159	162	168	163	178	178	0.0%	
Pulp, paper and print	42	47	50	60	45	43	-4.4%	
Engineering & metal	37	15	34	15	26	24	-7.7%	
Other industries	905	529	994	651	579	358	-38.2%	
<b>Transport</b>	9 260	9 331	9 119	9 284	9 796	9 861	0.7%	
<i>among which:</i>								
Motor spirit	2 396	2 248	2 189	2 090	2 107	1 934	-8.2%	
Jet fuel	1 511	1 490	1 129	1 224	1 503	1 387	-7.7%	
Diesel oil	5 071	5 438	5 632	5 779	5 937	6 458	8.8%	
<b>Services &amp; households etc.</b>	5 800	5 176	5 225	4 703	6 154	5 402	-12.2%	
<i>among which:</i>								
Gas oil	5 097	4 742	4 753	4 260	5 088	5 053	-0.7%	
Residual fuel oil	387	162	190	180	829	116	-86.0%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	981	929	800	768	797	793	-0.5%	
Petroleum products	2 629	2 730	3 092	2 824	3 080	3 032	-1.6%	


## 5. Natural gas

 eurostat	BELGIQUE/BELGIE								
	in TJ (GCV)		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>									
Primary production		17	96	-	-	-	-	-	-
Total imports		627 007	617 685	610 993	635 134	662 591	677 290	2.2%	
Total exports		-	-	-	-	-	-	-	
Stock changes		-6 685	4 124	2 130	-12 791	7 390	506	-93.2%	
Gross inland consumption		620 339	621 905	613 123	622 343	669 981	677 796	1.2%	
<b>Imports</b>									
Imports by origin									
<i>among which:</i>									
CIS		-	-	-	-	-	-	-	
Algeria		166 400	173 459	89 431	132 041	126 371	113 551	-10.1%	
Norway		212 318	199 298	202 635	207 287	215 374	251 582	16.8%	
<b>Consumption</b>									
Inputs to electricity plants		164 107	146 236	134 167	147 188	183 960	181 792	-1.2%	
Inputs to heat plants		1 431	1 382	956	-	-	-	-	
Consumption of energy branch		2 075	1 875	2 510	2 260	2 344	2 779	18.6%	
Distribution losses		-	-	-	-	-	-	-	
Non-energy use		35 431	33 512	34 476	32 061	39 298	39 697	1.0%	
<b>Industry</b>									
<i>among which:</i>									
Iron&steel industry		30 096	38 085	32 806	34 184	34 024	35 777	5.2%	
Non-ferrous metals		4 766	4 989	4 479	4 521	5 479	5 278	-3.7%	
Chemical industry		72 998	80 225	71 615	78 861	81 914	81 061	-1.0%	
Non-met. mineral prod.		19 551	20 386	19 601	18 021	25 528	28 534	11.8%	
Food, drink, tobacco		8 707	8 554	7 069	8 580	21 964	21 964	0.0%	
Pulp, paper and print		4 706	4 974	4 115	5 035	6 473	6 851	5.8%	
Engineering & metal		7 241	7 787	6 465	9 103	12 542	13 457	7.3%	
Other industries		43 518	46 377	48 319	55 037	8 366	5 191	-38.0%	
Transport		-	-	-	-	-	-	-	
<b>Services &amp; households etc.</b>									
<i>among which:</i>									
Households		152 293	153 172	168 496	160 795	167 411	175 154	4.6%	
Services		69 435	71 888	76 650	75 075	77 616	82 242	6.0%	


## 6.1 Hard coal


 eurostat	BELGIQUE/BELGIE							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	10 836	11 347	12 681	9 905	9 390	9 790	4.3%	
Total exports	1 156	1 425	1 886	2 008	961	1 314	36.7%	
Stock changes	-23	749	-872	970	105	-234	-322.9%	
Gross inland consumption	10 021	11 046	10 141	9 040	8 663	8 423	-2.8%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	2 007	2 207	2 410	1 840	1 735	1 659	-4.4%	
Poland	444	299	661	540	61	346	467.2%	
CIS	484	724	830	969	915	1 263	38.0%	
Australia	3 535	3 463	3 824	2 577	2 339	2 623	12.1%	
South Africa	3 075	3 087	3 560	2 798	3 607	3 094	-14.2%	
Colombia	94	431	215	314	12	64	433.3%	
<b>Consumption</b>								
Inputs to electricity plants	3 759	4 374	3 781	3 772	3 618	2 974	-17.8%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry								
<i>among which:</i>								
Iron&steel industry	1 525	1 458	1 535	824	712	642	-9.8%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	32	-	-	1	-	6		
Non-met. mineral prod.	309	359	225	215	111	168	51.4%	
Food, drink, tobacco	12	38	44	46	59	59	0.0%	
Pulp, paper and print	11	44	49	43	46	58	26.1%	
Engineering & metal	-	-	8	19	13	6	-53.8%	
Other industries	32	55	31	8	7	3	-57.1%	
Services & households etc.	270	297	324	309	234	256	9.4%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

 eurostat	BELGIQUE/BELGIE						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	3 137	3 104	3 221	2 966	2 861	2 965	3.6%
Patent Fuel	7	5	11	11	11	10	-9.1%
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	23 873	23 348	22 769	22 266	21 094	22 393	6.2%
Blast-furnace gas	38 681	39 304	35 494	36 670	36 381	38 298	5.3%
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	2 414	2 575	2 764	1 964	2 151	2 044	-5.0%
<i>among which:</i>							
Iron & steel industry	2 345	2 489	2 682	1 909	2 092	1 980	-5.4%
Services & households	3	3	2	7	3	-	
Patent Fuel	8	7	10	9	5	8	60.0%
<i>among which:</i>							
Services & households	8	7	10	7	5	8	60.0%
Lignite and peat	159	218	204	189	189	189	0.0%
<i>among which:</i>							
Industry	159	218	204	189	189	189	0.0%
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	6	4	5	5	4	12	200.0%
<i>among which:</i>							
Industry	-	-	-	-	-	8	
Services & households	6	4	5	5	4	4	0.0%
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	8 543	8 634	8 922	9 264	9 285	9 129	-1.7%
Blast-furnace gas	17 504	15 856	15 466	16 127	19 154	17 758	-7.3%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	25 807	27 480	23 153	23 228	19 189	23 494	22.4%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	10 700	10 682	10 722	10 317	9 847	10 301	4.6%
Consumption in industry	26 047	24 490	24 388	25 391	28 439	26 887	-5.5%


## 7. Renewable energy sources

		BELGIQUE/BELGIE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	630	641	719	666	896	955	6.5%
Hydro (excl. pumping)		29	39	38	31	21	27	28.3%
Wind		1	1	3	5	8	11	46.6%
Solar		1	1	1	2	2	3	10.2%
Geothermal		1	4	4	1	1	1	-10.4%
Biomass		597	596	673	627	864	913	5.7%
	<i>among which:</i>							
Wood, wood-waste		266	244	274	254	346	386	11.9%
Municipal solid waste		304	323	355	329	467	454	-2.7%
Biogas		27	29	44	45	52	72	40.2%
Gross inland consumption		738	746	820	802	1 056	1 161	10.0%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		346	367	409	404	574	638	11.1%
	<i>among which:</i>							
Wood, wood-waste		20	18	20	40	63	115	81.9%
Municipal waste		304	323	355	329	467	454	-2.7%
Biogas		22	26	34	36	44	69	56.2%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	362	338	371	362	453	484	7.0%
	<i>by sector:</i>							
Industry		200	180	191	207	256	291	13.5%
Services & households etc.		162	157	180	154	196	194	-1.4%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		360	333	365	359	449	481	7.1%
	<i>among which:</i>							
Wood, wood-waste		355	330	355	349	441	476	7.8%
Municipal waste		-	-	-	-	-	-	-
Biogas		5	3	10	10	8	5	-36.2%
Geothermal		1	4	4	1	1	1	-10.4%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	1	
Hydro with installed capacity < 1 MW		14	19	18	17	14	22	57.1%
Hydro with installed capacity > 1 & <10 MW		183	236	224	181	133	163	22.6%
Hydro with installed capacity > 10 MW		145	205	199	162	100	125	25.0%
Wood, Wood-waste		199	164	173	271	377	513	36.1%
Municipal waste		554	689	756	761	788	789	0.1%
Biogas		75	98	127	137	174	233	33.9%

		BELGIQUE/BELGIE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	1	1	1	0.0%
Hydro with installed capacity < 1 MW		6	6	6	7	6	8	33.3%
Hydro with installed capacity > 1 & <10 MW		54	54	54	53	53	52	-1.9%
Hydro with installed capacity > 10 MW		43	43	51	51	51	55	7.8%
Wood, Wood-waste		38	47	62	57	121	130	7.4%
Municipal waste		72	97	101	134	133	132	-0.8%
Biogas		9	39	28	29	42	50	19.0%
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	36	41	44	50	58	74	27.6%


# 1. Energy economy

## Key figures and energy indicators

		CESKÁ REPUBLIKA					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	27 612	29 443	30 088	30 262	32 465	32 260
Net energy imports		9 517	9 297	10 568	10 906	10 928	11 040
Net oil imports		7 731	7 428	8 079	7 770	8 216	8 781
Net gas imports		7 442	7 482	7 736	7 917	7 698	7 094
Gross inland energy consumption		37 947	40 307	41 161	41 395	43 529	43 558
Final energy consumption		21 693	22 390	22 513	23 429	25 223	25 754
Industry		7 957	8 516	8 032	9 313	9 400	9 846
Transport		4 649	4 721	4 986	5 143	5 793	6 137
Services and households etc.		9 087	9 153	9 495	8 973	10 030	9 771
Gross electricity generation	GWh	64 693	73 466	74 647	76 346	83 223	84 323
Final electricity consumption		48 089	49 351	50 856	50 789	52 376	53 801
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	43 731	45 432	46 631	47 325	48 844	51 135
Population	1000 per.	10 290	10 278	10 267	10 206	10 203	10 212
Industry added value	Mio EUR	15 755	16 704	15 791	16 931	17 962	18 539
Total imports (current prices)	Mio EUR	31 756	36 939	41 747	43 791	47 239	55 937
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	867.8	887.2	882.7	874.7	891.2	851.8
Final energy consumption / GDP(95)		496.1	492.8	482.8	495.1	516.4	503.7
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		505.0	509.8	508.7	550.0	523.3	531.1
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		151.4	151.1	136.3	133.4	146.7	136.0
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 688	3 922	4 009	4 056	4 266	4 266
Final energy consumption / capita		2 108	2 178	2 193	2 296	2 472	2 522
Household consumption / capita		516	512	558	523	587	572
Final electricity consumption / capita	kWh/cap.	4 674	4 802	4 954	4 976	5 133	5 269
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	25.1	23.1	25.7	26.3	25.1	25.3
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	57.2	55.5	54.7	56.6	57.9	59.1
Efficiency of thermal power stations		47.2	46.8	47.2	46.9	48.1	47.6

## 2. Energy balance

### Principal aggregates by product

 eurostat <i>in 1 000 toe</i>	CESKÁ REPUBLIKA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	27 612	29 443	30 088	30 262	32 465	32 260	-0.6%
<i>among which:</i> Hard coal	22 973	24 908	25 190	24 100	24 101	23 423	-2.8%
Lignite and peat	106	94	106	106	95	88	-6.8%
Crude oil	179	171	180	257	309	297	-3.9%
Natural Gas	175	169	122	115	131	162	23.9%
Nuclear heat	3 446	3 506	3 805	4 834	6 674	6 791	1.8%
Hydro-electricity	144	151	177	214	119	174	46.0%
Biomass	589	444	510	637	1 036	1 324	27.8%
<b>Imports</b>							
Total	18 068	17 766	19 015	19 038	19 366	19 250	-0.6%
<i>among which:</i> Hard coal	631	628	766	798	835	991	18.8%
Crude oil and feedstocks	5 923	5 601	5 936	5 999	6 292	6 315	0.4%
Petroleum products	3 092	2 894	3 424	3 160	3 169	3 420	7.9%
Natural Gas	7 442	7 483	7 736	7 918	7 740	7 166	-7.4%
Electricity	772	750	807	817	867	841	-3.1%
<b>Exports</b>							
Total	8 551	8 468	8 447	8 132	8 438	8 211	-2.7%
<i>among which:</i> Crude oil and feedstocks	106	109	117	136	130	62	-52.1%
Petroleum products	1 178	958	1 164	1 252	1 116	893	-20.0%
Natural gas	-	1	-	1	41	72	72.7%
Electricity	1 054	1 612	1 627	1 796	2 261	2 192	-3.1%
<b>Gross inland consumption</b>							
Total	37 947	40 307	41 161	41 395	43 529	43 558	0.1%
<i>among which:</i> Solid fuels	18 027	21 645	21 042	20 473	20 604	19 494	-5.4%
Crude oil and petrol. prod.	8 148	7 790	8 282	8 322	8 578	9 379	9.3%
Natural gas	7 727	7 500	8 032	7 762	7 842	7 788	-0.7%
Nuclear Energy	3 446	3 506	3 805	4 834	6 674	6 791	1.8%
Renewables	731	595	687	851	1 156	1 363	17.9%
<b>Transformation input</b>							
Total	29 342	30 691	31 610	31 944	34 295	34 893	1.7%
<i>among which:</i> Crude oil and feedstocks	6 177	6 047	6 257	6 234	6 587	6 851	4.0%
Petroleum products	333	300	312	235	231	199	-13.7%
Hard coal	16 361	17 818	18 207	17 599	17 800	17 818	0.1%
Lignite and peat	102	100	112	113	107	100	-7.0%
Renewables	338	287	285	282	294	368	25.1%
<b>Transformation output</b>							
Total	18 659	19 329	19 888	19 876	21 129	21 367	1.1%
<i>among which:</i> Electricity	5 372	6 118	6 206	6 320	7 002	7 030	0.4%
Heat	3 494	3 322	3 561	3 399	3 514	3 459	-1.6%



**Final energy consumption**

Total	21 693	22 390	22 513	23 429	25 223	25 754	2.1%
<i>among which:</i> Solid fuels	2 501	3 649	2 743	3 797	4 225	4 288	1.5%
Petroleum products	5 353	5 291	5 366	5 719	6 281	6 684	6.4%
Natural Gas	6 011	5 890	6 424	6 165	6 294	6 186	-1.7%
Renewables	246	154	222	352	740	793	7.2%
Electricity	4 135	4 243	4 373	4 367	4 504	4 626	2.7%

**Final energy consumption by sector**
**Industry**

Total	7 957	8 516	8 032	9 313	9 400	9 846	4.7%
<i>among which:</i> Solid fuels	1 304	2 249	1 745	2 944	3 103	3 164	1.9%
Petroleum Products	754	590	406	578	491	660	34.3%
Natural Gas	2 629	2 602	2 612	2 581	2 522	2 483	-1.6%
Renewables	245	127	177	301	210	258	22.9%
Electricity	1 616	1 629	1 714	1 768	1 767	1 922	8.8%


**Transport**

Total	4 649	4 721	4 986	5 143	5 793	6 137	5.9%
<i>among which:</i> Motor spirit	2 025	1 956	2 001	2 027	2 210	2 202	-0.4%
Diesel oil	2 185	2 297	2 511	2 638	3 022	3 292	8.9%
Jet fuel	181	197	211	200	258	331	28.3%
Electricity	185	198	180	182	188	186	-0.6%


**Services&households**

Total	9 087	9 153	9 495	8 973	10 030	9 771	-2.6%
<i>among which:</i> Solid fuels	1 197	1 400	998	852	1 122	1 124	0.2%
Gas oil	9	7	4	6	7	11	57.1%
Natural Gas	3 379	3 285	3 808	3 577	3 764	3 692	-1.9%
Renewables	2	27	45	51	530	535	1.0%
Electricity	2 334	2 416	2 479	2 417	2 549	2 517	-1.2%
Heat	2 038	1 843	2 005	1 888	1 869	1 814	-3.0%


### 3.1 Electricity balance

 eurostat	CESKÁ REPUBLIKA						
	1999	2000	2001	2002	2003	2004	04/03
<i>in GWh</i>							
<b>Generation</b>							
Total gross generation	64 693	73 466	74 647	76 346	83 223	84 323	1.3%
<i>among which:</i>							
Hydro	2 215	2 313	2 467	2 845	1 794	2 562	42.8%
Wind	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
Nuclear	13 357	13 590	14 749	18 738	25 872	26 325	1.8%
Conventional thermal	49 121	57 563	57 431	54 763	55 557	55 436	-0.2%
<i>of which:</i>							
Hard coal	43 891	52 241	52 114	49 705	50 668	49 422	-2.5%
Lignite and peat	320	300	310	300	298	225	-24.5%
Petroleum products	427	372	386	384	368	348	-5.4%
Natural gas	3 008	3 165	3 143	2 931	3 058	3 827	25.1%
Derived gases	640	762	765	754	668	875	31.0%
Biomass	1	-	-	-	-	738	
Industrial wastes	834	723	713	689	497	1	-99.8%
Total net generation	59 798	67 741	68 780	70 391	76 655	77 909	1.6%
<b>Imports and exports</b>							
Total imports	8 983	8 725	9 380	9 502	10 086	9 776	-3.1%
Total exports	12 258	18 742	18 919	20 889	26 299	25 493	-3.1%
<b>Consumption and losses</b>							
Consumption of the energy branch	8 167	8 860	8 929	8 961	9 140	9 188	0.5%
<i>of which:</i>							
Consumption for pumped-storage	183	194	143	126	141	187	32.6%
Network losses	4 627	4 683	4 910	4 858	5 087	5 084	-0.1%
Final energy consumption	48 089	49 351	50 856	50 789	52 376	53 801	2.7%
<i>of which:</i>							
Industry	18 799	18 944	19 939	20 558	20 550	22 358	8.8%
<i>among which:</i>							
Iron&steel industry	2 908	3 001	2 906	3 446	3 031	3 157	4.2%
Non-ferrous metals	268	279	280	305	805	764	-5.1%
Chemical industry	3 276	3 196	3 430	3 211	3 641	3 771	3.6%
Non-met. mineral prod.	2 152	2 037	2 279	2 162	2 381	2 432	2.1%
Food, drink, tobacco	1 438	1 377	1 544	1 534	1 557	1 594	2.4%
Pulp, paper and print	1 750	1 601	1 843	1 877	1 239	1 766	42.5%
Engineering & metal	3 007	3 347	3 650	3 783	3 873	4 645	19.9%
Other industries	2 761	2 818	2 633	2 660	2 688	2 473	-8.0%
Transport	2 149	2 305	2 092	2 119	2 182	2 168	-0.6%
Services & households etc.	27 141	28 102	28 825	28 112	29 644	29 275	-1.2%
<i>among which:</i>							
Households	14 048	13 822	14 239	14 121	14 508	14 525	0.1%


## 3.2 Electrical capacity, fuel inputs and heat


 eurostat	CESKÁ REPUBLIKA							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	15 215	15 159	15 390	16 304	17 332	17 418	0.5%
<i>by source:</i>								
Conventional thermal		11 302	11 302	11 485	11 399	11 423	11 498	0.7%
<i>of which:</i>								
Steam		10 900	10 693	10 873	10 781	10 679	10 748	0.6%
Gas turbine		-	-	-	-	-	-	-
Combined cycle		-	-	-	-	-	-	-
Internal combustion		33	33	26	24	18	16	-11.1%
Nuclear		1 760	1 760	1 760	2 760	3 760	3 760	0.0%
Hydro		2 153	2 097	2 145	2 145	2 149	2 160	0.5%
<i>among which:</i>								
Pumped storage		1 145	1 145	1 145	1 145	1 145	1 145	0.0%
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		12 903	12 903	13 216	14 037	15 167	15 194	0.2%
Autoproducers		2 313	2 313	2 227	2 273	2 176	2 240	2.9%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	14 436	15 873	16 108	15 440	15 485	15 624	0.9%
<i>among which:</i>								
Hard coal		12 507	13 925	14 146	13 536	13 688	13 699	0.1%
Lignite and peat		102	100	112	113	107	100	-7.0%
Petroleum products		205	203	212	165	163	130	-20.6%
Natural gas		657	694	694	695	704	748	6.3%
Renewables		299	252	251	249	238	315	32.0%
Heating plants		1 146	999	1 033	995	983	1 004	2.2%
<i>among which:</i>								
Hard coal		262	287	288	283	268	230	-14.1%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		129	97	100	70	68	70	2.9%
Natural gas		691	550	582	581	563	645	14.4%
Renewables		39	34	34	34	56	53	-4.2%
<b>Heat production and consumption</b>								
Total heat production	TJ	3 494	3 322	3 561	3 399	3 514	3 459	-1.6%
<i>among which: in heating plants</i>		911	847	891	866	840	796	-5.2%
Heat consumption		2 962	2 624	2 793	2 589	2 653	2 625	-1.1%
<i>of which: in industry</i>		924	781	789	702	784	811	3.5%
in households and services		2 038	1 843	2 005	1 888	1 869	1 814	-3.0%
<i>among which: in households</i>		1 334	1 213	1 343	1 282	1 265	1 188	-6.1%

## 4.1 Crude oil and feedstocks


 eurostat	CESKÁ REPUBLIKA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		183	175	183	265	317	306	-3.5%
Total imports		6 064	5 725	6 037	6 189	6 454	6 504	0.8%
Total exports		109	111	119	140	133	64	-51.9%
Stock changes		-82	115	41	-46	-41	7	117.1%
Refinery intake		6 314	6 171	6 357	6 425	6 751	7 042	4.3%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		609	486	826	365	289	387	33.9%
Near and Middle East		-	41	55	629	624	261	-58.2%
Africa		609	445	826	365	289	387	33.9%
<i>by country of origin:</i>								
Algeria		392	445	209	89	33	199	503.0%
Nigeria		-	-	-	-	38	-	-
Saudi Arabia		-	-	-	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		131	-	-	199	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

## 4.2 Petroleum products


 eurostat	CESKÁ REPUBLIKA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output	6 247	6 131	6 309	6 376	6 710	6 999	4.3%	
<i>among which:</i>								
Motor spirit	956	1 036	1 106	1 248	1 324	1 289	-2.6%	
Kerosene and jet fuel	134	163	168	160	140	147	5.0%	
Naphtha	413	355	570	409	479	561	17.1%	
Gas/diesel oil	2 172	2 125	2 250	2 412	2 590	2 673	3.2%	
Residual fuel oil	1 128	911	773	376	445	394	-11.5%	
Total imports	3 023	2 829	3 359	3 102	3 116	3 364	8.0%	
Total exports	1 196	973	1 156	1 243	1 111	890	-19.9%	
Bunkers	-	-	-	-	-	-	-	
Stock changes	112	-130	-198	156	-69	19	127.5%	
Gross inland consumption	1 939	1 726	2 005	2 022	1 944	2 493	28.2%	
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands	9	9	9	4	7	10	42.9%	
United Kingdom	1	-	-	2	2	4	100.0%	
Norway	3	8	5	9	5	-	-	
OPEC	1	-	-	-	-	-	-	
Imports by product								
<i>among which:</i>								
Motor spirit	1 050	929	1 102	989	986	942	-4.5%	
Kerosene and jet fuel	56	38	33	50	104	192	84.6%	
Gas/diesel oil	1 040	1 111	1 345	1 255	1 280	1 260	-1.6%	
Residual fuel oil	295	181	271	212	140	205	46.4%	
Exports by product								
<i>among which:</i>								
Motor spirit	99	75	209	274	184	184	0.0%	
Kerosene and jet fuel	-	6	-	-	-	-	-	
Gas/diesel oil	617	492	603	693	640	365	-43.0%	
Residual fuel oil	237	160	129	67	80	48	-40.0%	
<b>Consumption</b>								
Inputs to electricity plants	214	212	222	222	216	170	-21.3%	
Inputs to heating plants	135	102	105	94	90	91	1.1%	
Non-energy use	2 193	2 088	2 351	1 917	1 923	2 491	29.5%	
Final energy consumption	5 243	5 185	5 247	5 614	6 186	6 597	6.6%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	149	196	222	195	49	53	8.2%	
Residual fuel oil	608	311	77	294	283	466	64.7%	

 eurostat	CESKÁ REPUBLIKA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	173	136	25	102	98	132	34.7%	
Non-ferrous metals	1	1	1	1	-	-	-	
Chemical industry	155	-	-	14	28	166	492.9%	
Non-met. mineral prod.	143	114	22	65	54	59	9.3%	
Food, drink, tobacco	42	48	28	82	80	67	-16.3%	
Pulp, paper and print	27	16	5	49	9	13	44.4%	
Engineering & metal	23	37	30	20	33	14	-57.6%	
Other industries	176	235	303	248	234	272	16.2%	
<b>Transport</b>	4 330	4 389	4 666	4 816	5 443	5 780	6.2%	
<i>among which:</i>								
Motor spirit	1 927	1 861	1 904	1 929	2 103	2 095	-0.4%	
Jet fuel	176	192	205	195	251	322	28.3%	
Diesel oil	2 163	2 274	2 485	2 611	2 991	3 258	8.9%	
<b>Services &amp; households etc.</b>	133	178	152	185	192	80	-58.3%	
<i>among which:</i>								
Gas oil	9	7	4	6	7	11	57.1%	
Residual fuel oil	54	88	52	110	124	9	-92.7%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	795	680	639	679	726	719	-1.0%	
Petroleum products	1 206	1 336	1 534	1 378	1 447	1 428	-1.3%	

## 5. Natural gas


 eurostat	CESKÁ REPUBLIKA							
	<i>in TJ (GCV)</i>		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		8 153	7 876	5 671	5 338	6 098	7 555	23.9%
Total imports		346 211	348 100	359 894	368 354	360 045	333 350	-7.4%
Total exports		-	38	-	38	1 928	3 329	72.7%
Stock changes		5 078	-7 031	8 091	-12 564	604	24 717	
Gross inland consumption		359 442	348 907	373 656	361 090	364 819	362 293	-0.7%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		283 092	272 765	270 950	268 981	265 394	246 182	-7.2%
Algeria		-	-	-	-	-	-	-
Norway		54 048	74 957	88 944	99 335	94 651	88 168	-6.8%
<b>Consumption</b>								
Inputs to electricity plants		30 556	32 274	32 283	32 333	32 736	34 813	6.3%
Inputs to heat plants		32 168	25 590	27 097	27 007	26 206	29 992	14.4%
Consumption of energy branch		5 868	6 607	6 132	6 192	5 563	6 076	9.2%
Distribution losses		10 961	10 232	9 288	8 770	7 522	3 630	-51.7%
Non-energy use		-	-	-	-	-	-	-
Industry		122 324	121 028	121 493	120 085	117 342	115 521	-1.6%
<i>among which:</i>								
Iron&steel industry		10 902	10 345	12 053	12 701	12 285	13 652	11.1%
Non-ferrous metals		2 295	2 228	2 362	2 450	2 555	2 610	2.2%
Chemical industry		9 520	9 288	9 377	9 520	10 170	11 103	9.2%
Non-met. mineral prod.		27 068	27 751	27 920	28 050	29 820	29 792	-0.1%
Food, drink, tobacco		17 614	16 877	16 150	16 104	18 520	17 448	-5.8%
Pulp, paper and print		3 779	3 964	3 642	3 820	3 402	2 583	-24.1%
Engineering & metal		9 781	10 194	11 196	11 270	12 440	13 818	11.1%
Other industries		37 146	36 039	34 518	32 220	23 395	19 207	-17.9%
Transport		120	189	228	304	340	492	44.7%
Services & households etc.		157 201	152 797	177 135	166 399	175 110	171 769	-1.9%
<i>among which:</i>								
Households		96 266	95 334	110 580	103 720	111 740	109 372	-2.1%
Services		57 811	54 291	63 417	59 367	60 195	59 284	-1.5%

## 6.1 Hard coal


 in 1 000 t	CESKÁ REPUBLIKA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>							
Primary production	58 621	64 709	65 599	62 855	63 436	61 350	-3.3%
Total imports	1 040	1 095	1 203	1 237	1 296	1 620	25.0%
Total exports	9 356	8 654	8 690	7 642	6 752	6 650	-1.5%
Stock changes	704	3 486	477	133	16	-1 739	
Gross inland consumption	51 009	60 636	58 589	56 583	57 996	54 581	-5.9%
<b>Imports</b>							
Imports by origin							
<i>among which:</i>							
USA	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-
CIS	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-
<b>Consumption</b>							
Inputs to electricity plants	38 067	43 864	44 752	43 299	42 978	42 523	-1.1%
Inputs to heat plants	778	745	767	779	753	664	-11.8%
Consumption of energy branch	9	9	10	10	7	7	0.0%
<b>Industry</b>							
<i>among which:</i>							
Iron&steel industry	817	1 032	1 104	888	782	737	-5.8%
Non-ferrous metals	1	19	13	15	14	-	
Chemical industry	1 221	2 560	1 673	1 702	2 489	2 812	13.0%
Non-met. mineral prod.	323	450	431	369	316	233	-26.3%
Food, drink, tobacco	198	322	263	265	325	155	-52.3%
Pulp, paper and print	188	248	200	191	202	69	-65.8%
Engineering & metal	220	585	452	442	617	146	-76.3%
Other industries	39	947	58	60	94	31	-67.0%
Services & households etc.	2 664	3 216	2 177	1 821	2 572	2 540	-1.2%
<b>Structural data</b>							
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-




## 6.2 Coal derivatives and peat

	CESKÁ REPUBLIKA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	3 332	3 411	3 522	3 537	3 556	3 548	-0.2%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	512	453	507	501	470	450	-4.3%
Brown coal briquettes	288	253	280	302	314	317	1.0%
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	23 381	25 266	25 274	25 903	25 235	24 997	-0.9%
Blast-furnace gas	22 429	26 510	25 002	25 891	28 240	29 425	4.2%
Gasworks gas	12 748	14 009	13 682	13 719	14 555	14 007	-3.8%
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-77	-156	68	2 165	2 211	2 138	-3.3%
<i>among which:</i>							
Iron & steel industry	-328	-411	-200	1 933	2 012	1 940	-3.6%
Services & households	137	156	162	154	135	128	-5.2%
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	21	9	8	4	12	6	-50.0%
<i>among which:</i>							
Industry	4	2	2	2	4	4	0.0%
Services & households	17	7	6	2	8	2	-75.0%
Brown coal briquettes	122	118	112	107	110	145	31.8%
<i>among which:</i>							
Industry	1	-	-	-	-	3	
Services & households	121	118	112	107	110	142	29.1%
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	9 948	10 596	11 963	7 502	8 390	8 170	-2.6%
Blast-furnace gas	11 304	12 588	13 530	11 085	11 825	11 881	0.5%
Gasworks gas	-	-	-	110	104	39	-62.5%
Inputs to electricity plants	23 370	25 978	25 909	25 585	26 451	28 383	7.3%
Inputs to heat plants	1 048	1 082	1 070	1 038	997	-	
Consumption of energy branch	11 724	14 758	10 550	18 487	18 538	18 502	-0.2%
Consumption in industry	21 252	23 184	25 493	18 697	20 319	20 090	-1.1%


## 7. Renewable energy sources

		ČESKÁ REPUBLIKA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	733	595	687	851	1 156	1 498	29.7%
Hydro (excl. pumping)		144	151	177	214	119	174	46.0%
Wind		-	-	-	0	0	1	150.0%
Solar		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Biomass		589	444	510	637	1 036	1 324	27.8%
<i>among which:</i>								
Wood, wood-waste		472	319	368	493	895	1 101	23.0%
Municipal solid waste		75	88	105	108	100	106	5.4%
Biogas		41	36	37	36	41	50	21.6%
Gross inland consumption		731	595	687	851	1 156	1 363	17.9%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		338	287	285	282	294	368	25.1%
<i>among which:</i>								
Wood, wood-waste		226	190	190	188	196	254	30.1%
Municipal waste		75	64	63	63	78	86	10.5%
Biogas		38	32	32	31	20	27	34.2%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	246	154	222	352	740	793	7.2%
<i>by sector:</i>								
Industry		245	127	177	301	210	258	22.9%
Services & households etc.		2	27	45	51	530	535	1.0%
Transport		-	-	-	0	0	0	25.0%
<i>by source:</i>								
Biomass		246	154	222	352	740	793	7.2%
<i>among which:</i>								
Wood, wood-waste		244	128	177	305	696	750	7.8%
Municipal waste		0	24	42	45	22	19	-13.0%
Biogas		2	2	3	2	21	23	9.9%
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		-	-	-	-	-	286	
Hydro with installed capacity > 1 & <10 MW		-	-	-	-	-	617	
Hydro with installed capacity > 10 MW		1	1	1	2	1	1 116	
Wood, Wood-waste		1	-	-	-	-	593	
Municipal waste		-	-	-	-	-	17	
Biogas		-	-	-	-	-	128	

		CESKÁ REPUBLIKA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		92	52	54	104	107	120	12.1%
Hydro with installed capacity > 1 & <10 MW		101	90	106	134	144	142	-1.4%
Hydro with installed capacity > 10 MW		815	810	840	762	753	753	0.0%
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	-	-	-	-	-	83	
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	-	-	-	-	-	-	-


# 1. Energy economy

## Key figures and energy indicators

		DANMARK					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	23 690	27 587	26 999	28 412	28 282	30 868
Net energy imports		-3 260	-7 076	-5 701	-8 528	-6 872	-9 968
Net oil imports		-4 693	-8 097	-6 746	-9 165	-9 254	-10 648
Net gas imports		-2 568	-2 882	-3 054	-2 984	-2 594	-3 691
Gross inland energy consumption		20 215	19 643	20 169	19 776	20 578	19 998
Final energy consumption		14 935	14 600	14 959	14 662	14 961	15 168
Industry		3 029	2 943	2 982	2 854	2 860	2 921
Transport		4 738	4 720	4 747	4 719	4 902	5 137
Services and households etc.		7 168	6 938	7 229	7 089	7 200	7 110
Gross electricity generation	GWh	38 897	36 035	37 697	39 269	46 149	40 463
Final electricity consumption		32 229	32 461	32 555	32 502	32 357	32 973
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	154 701	160 160	161 289	162 040	163 164	166 215
Population	1000 per.	5 314	5 330	5 349	5 368	5 384	5 398
Industry added value	Mio EUR	33 085	34 183	33 665	33 036	32 472	32 441
Total imports (current prices)	Mio EUR	59 305	67 000	68 263	73 387	72 143	76 783
among which:							
All energy commodities		1 626	2 561	2 334	2 193	2 290	2 654
Oil products		1 339	2 248	1 865	1 733	1 730	2 052
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	130.7	122.6	125.0	122.0	126.1	120.3
Final energy consumption / GDP(95)		96.5	91.2	92.7	90.5	91.7	91.3
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		91.5	86.1	88.6	86.4	88.1	90.1
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		19.3	18.1	18.6	18.6	19.0	18.7
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 804	3 685	3 770	3 684	3 822	3 705
Final energy consumption / capita		2 811	2 739	2 797	2 731	2 779	2 810
Household consumption / capita		815	776	817	791	802	790
Final electricity consumption / capita	kWh/cap.	6 065	6 090	6 086	6 054	6 010	6 109
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	-15.2	-33.8	-26.8	-41.2	-31.9	-47.9
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	73.9	74.3	74.2	74.1	72.7	75.8
Efficiency of thermal power stations		63.9	64.7	65.4	66.1	64.8	68.4

## 2. Energy balance

### Principal aggregates by product

 eurostat	DANMARK						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	23 690	27 587	26 999	28 412	28 282	30 868	9.1%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	14 763	18 132	17 238	18 504	18 515	19 643	6.1%
Natural Gas	7 024	7 411	7 589	7 603	7 203	8 492	17.9%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	3	2	2	3	2	2	28.6%
Biomass	1 633	1 668	1 789	1 872	2 073	2 154	3.9%
<b>Imports</b>							
Total	15 357	14 839	14 351	13 346	14 827	14 244	-3.9%
<i>among which:</i> Hard coal	4 243	3 825	4 138	3 775	5 635	4 487	-20.4%
Crude oil and feedstocks	4 868	4 072	3 285	3 499	3 631	3 933	8.3%
Petroleum products	5 745	6 124	6 093	5 146	4 755	4 801	1.0%
Natural Gas	-	-	-	-	-	-	-
Electricity	427	724	705	769	604	746	23.5%
<b>Exports</b>							
Total	18 617	21 915	20 052	21 874	21 699	24 212	11.6%
<i>among which:</i> Crude oil and feedstocks	11 252	13 678	12 200	14 000	13 678	15 347	12.2%
Petroleum products	4 054	4 615	3 924	3 809	3 962	4 034	1.8%
Natural gas	2 568	2 882	3 054	2 984	2 594	3 691	42.3%
Electricity	626	667	754	947	1 339	993	-25.8%
<b>Gross inland consumption</b>							
Total	20 215	19 643	20 169	19 776	20 578	19 998	-2.8%
<i>among which:</i> Solid fuels	4 608	3 987	4 202	4 187	5 665	4 359	-23.1%
Crude oil and petrol. prod.	9 371	9 044	9 125	8 736	8 279	8 323	0.5%
Natural gas	4 491	4 449	4 631	4 627	4 661	4 634	-0.6%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	1 940	2 103	2 256	2 400	2 704	2 926	8.2%
<b>Transformation input</b>							
Total	17 459	16 804	17 124	16 918	18 275	16 699	-8.6%
<i>among which:</i> Crude oil and feedstocks	8 308	8 452	8 311	8 079	8 420	8 205	-2.6%
Petroleum products	1 496	1 395	1 394	1 209	542	426	-21.5%
Hard coal	4 387	3 668	3 942	3 976	5 496	4 122	-25.0%
Lignite and peat	-	-	-	-	-	-	-
Renewables	1 088	1 096	1 195	1 309	1 496	1 633	9.1%
<b>Transformation output</b>							
Total	14 333	14 000	14 184	14 076	14 931	14 130	-5.4%
<i>among which:</i> Electricity	3 081	2 731	2 870	2 959	3 490	2 912	-16.6%
Heat	2 958	2 860	3 085	3 056	3 104	3 092	-0.4%

**Final energy consumption**

Total	14 935	14 600	14 959	14 662	14 961	15 168	1.4%
<i>among which:</i> Solid fuels	317	290	244	220	231	262	13.3%
Petroleum products	7 168	6 950	7 015	6 909	7 013	7 185	2.4%
Natural Gas	1 748	1 660	1 762	1 650	1 731	1 698	-1.9%
Renewables	588	639	687	669	726	723	-0.4%
Electricity	2 771	2 791	2 799	2 795	2 782	2 835	1.9%

**Final energy consumption by sector**
**Industry**

Total	3 029	2 943	2 982	2 854	2 860	2 921	2.2%
<i>among which:</i> Solid fuels	298	265	215	199	203	238	16.9%
Petroleum Products	783	752	793	781	780	802	2.9%
Natural Gas	838	790	817	758	752	731	-2.8%
Renewables	103	111	126	93	111	112	0.8%
Electricity	854	860	863	853	836	862	3.0%


**Transport**

Total	4 738	4 720	4 747	4 719	4 902	5 137	4.8%
<i>among which:</i> Motor spirit	2 060	2 031	2 003	2 011	2 017	1 993	-1.2%
Diesel oil	1 799	1 790	1 823	1 875	2 039	2 176	6.7%
Jet fuel	807	820	843	739	761	886	16.5%
Electricity	29	30	30	31	30	32	4.8%


**Services&households**

Total	7 168	6 938	7 229	7 089	7 200	7 110	-1.3%
<i>among which:</i> Solid fuels	19	25	29	20	27	24	-13.2%
Gas oil	1 538	1 395	1 399	1 338	1 272	1 193	-6.2%
Natural Gas	910	870	946	892	979	967	-1.2%
Renewables	485	528	562	575	615	611	-0.6%
Electricity	1 888	1 901	1 907	1 910	1 915	1 942	1.4%
Heat	2 173	2 090	2 267	2 238	2 288	2 275	-0.6%

### 3.1 Electricity balance


 eurostat	DANMARK							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation		38 897	36 035	37 697	39 269	46 149	40 463	-12.3%
<i>among which:</i>								
Hydro		31	29	28	32	21	27	28.6%
Wind		3 029	4 242	4 306	4 877	5 561	6 583	18.4%
Geothermal		-	-	-	-	-	-	-
Nuclear		-	-	-	-	-	-	-
Conventional thermal		35 837	31 764	33 363	34 360	40 567	33 853	-16.6%
<i>of which:</i>								
Hard coal		20 081	16 670	17 822	18 257	25 307	18 675	-26.2%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		4 879	4 435	4 168	4 011	2 341	1 633	-30.2%
Natural gas		9 078	8 805	9 263	9 590	9 772	10 001	2.3%
Derived gases		-	-	-	-	-	-	-
Biomass		1 799	1 755	2 110	2 502	3 147	3 544	12.6%
Industrial wastes		-	99	-	-	-	-	-
Total net generation		37 023	34 443	36 143	37 317	43 717	38 429	-12.1%
<b>Imports and exports</b>								
Total imports		4 963	8 417	8 199	8 939	7 023	8 673	23.5%
Total exports		7 275	7 752	8 774	11 010	15 568	11 545	-25.8%
<b>Consumption and losses</b>								
Consumption of the energy branch		2 438	2 149	2 224	2 615	3 227	2 844	-11.9%
<i>of which:</i>								
Consumption for pumped-storage		-	-	-	-	-	-	-
Network losses		1 916	2 090	2 357	2 093	2 041	1 788	-12.4%
Final energy consumption		32 229	32 461	32 555	32 502	32 357	32 973	1.9%
<i>of which:</i>								
Industry		9 931	10 001	10 032	9 924	9 727	10 020	3.0%
<i>among which:</i>								
Iron&steel industry		714	733	753	424	314	324	3.2%
Non-ferrous metals		73	74	63	65	80	83	3.8%
Chemical industry		1 264	1 232	1 330	1 363	1 237	1 274	3.0%
Non-met. mineral prod.		870	904	865	883	864	890	3.0%
Food, drink, tobacco		2 193	2 258	2 289	2 336	2 272	2 340	3.0%
Pulp, paper and print		739	746	756	775	840	866	3.1%
Engineering & metal		1 791	1 782	1 767	1 812	1 768	1 821	3.0%
Other industries		1 989	1 977	1 909	1 959	2 057	2 118	3.0%
Transport		341	348	348	364	353	370	4.8%
Services & households etc.		21 957	22 112	22 175	22 214	22 277	22 583	1.4%
<i>among which:</i>								
Households		10 283	10 242	10 146	10 188	10 260	10 333	0.7%

## 3.2 Electrical capacity, fuel inputs and heat


		DANMARK						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	12 727	13 057	12 759	13 327	13 615	13 363	-1.9%
<i>by source:</i>								
Conventional thermal		10 945	10 233	10 192	10 430	10 488	10 228	-2.5%
<i>of which:</i>								
Steam		8 892	8 154	7 607	7 737	7 769	7 440	-4.2%
Gas turbine		549	549	553	545	546	569	4.2%
Combined cycle		533	518	1 004	1 100	1 101	1 101	0.0%
Internal combustion		970	1 012	1 028	1 048	1 073	1 118	4.2%
Nuclear		-	-	-	-	-	-	-
Hydro		11	10	11	11	11	11	0.0%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		1 771	2 814	2 556	2 886	3 116	3 124	0.3%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		12 170	12 089	12 204	12 767	13 019	12 735	-2.2%
Autoproducers		557	572	557	562	598	630	5.4%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	8 571	7 822	8 241	8 301	9 281	7 942	-14.4%
<i>among which:</i>								
Hard coal		4 386	3 667	3 942	3 975	5 495	4 122	-25.0%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		1 440	1 344	1 329	1 156	491	388	-21.0%
Natural gas		2 088	2 112	2 188	2 268	2 225	2 225	0.0%
Renewables		658	699	782	902	1 069	1 207	12.9%
Heating plants		561	513	555	523	559	537	-3.9%
<i>among which:</i>								
Hard coal		1	1	1	1	1	1	-1.2%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		56	51	65	53	51	38	-26.1%
Natural gas		74	63	77	63	80	73	-9.1%
Renewables		430	397	413	407	427	426	-0.3%
<b>Heat production and consumption</b>								
Total heat production	TJ	2 958	2 860	3 085	3 056	3 104	3 092	-0.4%
<i>among which: in heating plants</i>								
		562	527	564	528	583	569	-2.3%
Heat consumption		2 325	2 255	2 435	2 406	2 465	2 452	-0.5%
<i>of which: in industry</i>								
		152	164	168	168	177	177	0.0%
<i>in households and services</i>								
		2 173	2 090	2 267	2 238	2 288	2 275	-0.6%
<i>among which: in households</i>								
		1 483	1 418	1 538	1 506	1 534	1 523	-0.7%




## 4.1 Crude oil and feedstocks


 eurostat		DANMARK						
		1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 t</i>								
<b>Primary production and supply</b>								
Primary production		14 465	17 780	16 887	18 143	18 143	19 262	6.2%
Total imports		4 771	3 994	3 219	3 432	3 558	3 857	8.4%
Total exports		11 025	13 413	11 951	13 727	13 403	15 050	12.3%
Stock changes		-120	-66	-4	58	-48	-59	-22.9%
Refinery intake		8 142	8 289	8 143	7 922	8 251	8 046	-2.5%
<b>Imports of Crude Oil by origin</b>								
<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		4 424	2 596	2 937	3 231	3 492	3 735	7.0%
<b>Refining capacity</b>								
Capacity at the end of year	<i>1 000 t/year</i>	9 150	9 150	:	:	:	:	
<i>among which:</i>								
Cracking and others		4 580	4 580	:	:	:	:	
Reforming		1 740	1 740	:	:	:	:	

## 4.2 Petroleum products


 eurostat	DANMARK							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output	8 110	8 231	8 044	7 890	8 154	7 954	-2.5%	
<i>among which:</i>								
Motor spirit	2 259	2 278	2 239	2 074	2 082	1 986	-4.6%	
Kerosene and jet fuel	519	496	543	529	611	606	-0.8%	
Naphtha	-	6	5	-	-	6		
Gas/diesel oil	3 273	3 260	3 220	3 258	3 451	3 329	-3.5%	
Residual fuel oil	1 599	1 717	1 567	1 574	1 519	1 557	2.5%	
Total imports	5 823	6 200	6 177	5 206	4 808	4 836	0.6%	
Total exports	4 026	4 590	3 886	3 779	3 929	4 018	2.3%	
Bunkers	1 316	1 352	1 139	937	990	806	-18.6%	
Stock changes	712	404	-262	257	20	182	810.0%	
Gross inland consumption	1 214	676	907	763	-81	201	348.1%	
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands	149	77	91	48	43	180	318.6%	
United Kingdom	178	261	311	180	116	186	60.3%	
Norway	507	508	492	640	574	463	-19.3%	
OPEC	1 443	1 428	1 674	1 088	281	419	49.1%	
Imports by product								
<i>among which:</i>								
Motor spirit	938	1 016	1 034	1 006	871	879	0.9%	
Kerosene and jet fuel	533	674	797	571	528	709	34.3%	
Gas/diesel oil	1 945	1 984	1 834	1 718	1 927	1 829	-5.1%	
Residual fuel oil	1 854	1 963	1 947	1 369	921	888	-3.6%	
Exports by product								
<i>among which:</i>								
Motor spirit	1 160	1 388	1 295	1 126	1 012	958	-5.3%	
Kerosene and jet fuel	324	348	404	368	494	420	-15.0%	
Gas/diesel oil	1 177	1 219	901	979	1 137	1 141	0.4%	
Residual fuel oil	1 243	1 441	1 132	1 179	1 161	1 381	18.9%	
<b>Consumption</b>								
Inputs to electricity plants	1 496	1 397	1 381	1 200	502	396	-21.1%	
Inputs to heating plants	63	56	70	58	54	40	-25.9%	
Non-energy use	310	300	262	268	275	302	9.8%	
Final energy consumption	7 068	6 852	6 924	6 822	6 923	7 095	2.5%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	361	342	384	361	380	392	3.2%	
Residual fuel oil	215	203	184	198	172	172	0.0%	

 eurostat	DANMARK							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		4	4	6	5	6	6	0.0%
Non-ferrous metals		2	3	4	4	3	3	0.0%
Chemical industry		30	29	36	35	28	29	3.6%
Non-met. mineral prod.		282	290	302	301	304	319	4.9%
Food, drink, tobacco		178	172	176	180	170	172	1.2%
Pulp, paper and print		10	10	12	11	12	12	0.0%
Engineering & metal		78	73	71	66	72	75	4.2%
Other industries		213	188	194	189	194	196	1.0%
<b>Transport</b>		4 570	4 552	4 580	4 553	4 734	4 964	4.9%
<i>among which:</i>								
Motor spirit		1 960	1 933	1 906	1 914	1 919	1 896	-1.2%
Jet fuel		786	798	821	720	741	863	16.5%
Diesel oil		1 781	1 772	1 804	1 856	2 018	2 154	6.7%
<b>Services &amp; households etc.</b>		1 663	1 493	1 488	1 425	1 346	1 262	-6.2%
<i>among which:</i>								
Gas oil		1 522	1 381	1 385	1 324	1 259	1 181	-6.2%
Residual fuel oil		72	53	45	47	29	23	-20.7%
<b>Stocks at end of period</b>								
Crude oil and feedstocks		656	723	727	669	719	778	8.2%
Petroleum products		2 208	1 832	1 981	1 875	1 855	1 673	-9.8%

## 5. Natural gas

 eurostat	DANMARK							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		326 735	344 772	353 062	353 693	335 062	395 033	17.9%
Total imports		-	-	-	-	-	-	-
Total exports		119 443	134 087	142 090	138 837	120 692	171 722	42.3%
Stock changes		1 613	-3 732	4 461	408	2 445	-7 748	-416.9%
Gross inland consumption		208 905	206 953	215 433	215 264	216 815	215 563	-0.6%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		97 115	98 263	101 799	105 499	103 506	103 524	0.0%
Inputs to heat plants		3 424	2 928	3 579	2 926	3 714	3 377	-9.1%
Consumption of energy branch		26 224	27 807	27 171	29 237	29 279	30 193	3.1%
Distribution losses		133	134	133	134	133	133	0.0%
Non-energy use		-	-	-	-	-	-	-
Industry		38 988	36 752	37 984	35 277	34 980	33 993	-2.8%
<i>among which:</i>								
Iron&steel industry		2 078	2 016	1 967	1 906	1 666	1 619	-2.8%
Non-ferrous metals		160	154	202	195	142	138	-2.8%
Chemical industry		4 049	3 813	4 040	3 643	3 951	3 839	-2.8%
Non-met. mineral prod.		7 019	6 939	6 283	6 085	6 107	5 933	-2.8%
Food, drink, tobacco		13 002	12 762	12 706	11 524	10 074	9 787	-2.8%
Pulp, paper and print		2 330	2 295	2 687	2 338	2 926	2 843	-2.8%
Engineering & metal		5 147	4 685	4 935	4 715	5 188	5 041	-2.8%
Other industries		2 989	2 668	2 899	2 855	3 101	3 019	-2.6%
Transport		-	-	-	-	-	-	-
Services & households etc.		42 350	40 470	44 005	41 482	45 548	44 992	-1.2%
<i>among which:</i>								
Households		31 528	30 011	32 189	30 634	32 774	32 599	-0.5%
Services		6 977	6 707	7 830	8 022	10 161	9 886	-2.7%


## 6.1 Hard coal


 eurostat	DANMARK							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	7 117	6 416	6 924	6 263	9 515	7 592	-20.2%	
Total exports	200	123	164	168	151	157	4.0%	
Stock changes	755	348	231	810	169	-108	-163.9%	
Gross inland consumption	7 672	6 641	6 991	6 905	9 533	7 327	-23.1%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	13	246	188	-23.6%	
Poland	2 640	2 311	2 094	2 263	880	1 092	24.1%	
CIS	837	1 295	1 816	1 085	980	1 966	100.6%	
Australia	500	143	160	250	569	442	-22.3%	
South Africa	1 767	1 672	1 880	1 214	2 971	1 845	-37.9%	
Colombia	1 244	812	415	792	2 681	1 454	-45.8%	
<b>Consumption</b>								
Inputs to electricity plants	7 404	6 191	6 601	6 617	9 304	7 010	-24.7%	
Inputs to heat plants	2	2	1	1	1	1	0.0%	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry	419	375	324	275	286	335	17.1%	
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	21	19	17	14	22	25	13.6%	
Non-met. mineral prod.	269	227	184	156	188	220	17.0%	
Food, drink, tobacco	93	96	102	87	73	85	16.4%	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	30	42	47	33	45	39	-13.3%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

eurostat	DANMARK						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	824	755	795	693	685	678	-1.0%
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	48	40	38	37	34	39	14.7%
<i>among which:</i>							
Iron & steel industry	1	1	1	1	-	-	-
Services & households	-	-	-	-	1	1	0.0%
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	2	1	2	1	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	2	1	2	1	-	-	-
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	791	725	762	664	656	650	-0.9%
Inputs to electricity plants	-	-	-	-	-	-	-
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	-	-	-	-	-	-	-
Consumption in industry	57	50	47	47	22	22	0.0%

## 7. Renewable energy sources


		DANMARK						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	1 904	2 044	2 171	2 305	2 564	2 734	6.6%
Hydro (excl. pumping)		3	2	2	3	2	2	28.6%
Wind		260	365	370	419	478	566	18.4%
Solar		7	7	8	8	9	9	2.6%
Geothermal		1	1	2	2	2	2	0.0%
Biomass		1 633	1 668	1 789	1 872	2 073	2 154	3.9%
	<i>among which:</i>							
Wood, wood-waste		873	873	926	950	1 080	1 128	4.4%
Municipal solid waste		696	726	770	809	870	883	1.5%
Biogas		63	70	73	80	85	89	4.5%
Gross inland consumption		1 940	2 103	2 256	2 400	2 704	2 926	8.2%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		1	1	2	2	2	2	0.0%
Biomass		1 087	1 095	1 194	1 307	1 494	1 631	9.1%
	<i>among which:</i>							
Wood, wood-waste		373	348	407	487	620	739	19.1%
Municipal waste		660	688	726	754	804	826	2.8%
Biogas		54	58	61	66	71	67	-5.8%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	588	639	687	669	726	723	-0.4%
	<i>by sector:</i>							
Industry		103	111	126	93	111	112	0.8%
Services & households etc.		485	528	562	575	615	611	-0.6%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		581	631	679	660	718	715	-0.4%
	<i>among which:</i>							
Wood, wood-waste		537	583	624	592	637	635	-0.4%
Municipal waste		36	38	44	55	66	58	-13.1%
Biogas		8	10	11	14	14	22	57.5%
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		10	10	14	32	11	14	27.3%
Hydro with installed capacity > 1 & <10 MW		21	19	14	17	10	13	30.0%
Hydro with installed capacity > 10 MW		-	-	-	15	-	-	-
Wood, Wood-waste		531	409	587	878	1 400	1 834	31.0%
Municipal waste		1 073	1 238	938	1 384	1 471	1 447	-1.6%
Biogas		197	208	173	240	276	264	-4.3%

	DANMARK						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	5	5	7	7	7	7	0.0%
Hydro with installed capacity > 1 & <10 MW	6	5	4	4	4	4	0.0%
Hydro with installed capacity > 10 MW	-	-	-	-	-	-	-
Wood, Wood-waste	110	86	133	215	311	474	52.4%
Municipal waste	198	233	242	270	285	312	9.5%
Biogas	40	40	47	53	58	63	8.6%
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	25	40	45	65	44.4%
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	246	250	271	282	298	306	2.7%




# 1. Energy economy

## Key figures and energy indicators

		DEUTSCHLAND					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	134 535	132 095	132 986	133 821	134 264	135 266
Net energy imports		202 556	204 702	215 720	208 342	212 135	214 708
Net oil imports		127 817	125 974	131 445	123 296	125 233	121 331
Net gas imports		57 300	56 865	58 197	60 071	62 437	65 895
Gross inland energy consumption		338 421	340 225	352 161	344 869	346 795	347 741
Final energy consumption		219 940	228 718	232 282	227 027	230 119p	229 920p
Industry		56 546	60 839	59 460	58 658	58 104p	58 351p
Transport		66 903	65 978	64 615	64 181	62 410	62 610
Services and households etc.		96 491	101 901	108 207	104 189	109 604p	108 959p
Gross electricity generation	GWh	555 465	571 551	586 340	571 645	599 470	606 636
Final electricity consumption		467 483	482 603	505 280	498 840	509 265	513 327
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	2 064 742	2 131 016	2 157 441	2 158 719	2 154 670	2 189 832
Population	1000 per.	82 037	82 164	82 260	82 440	82 537	82 532
Industry added value	Mio EUR	567 748	593 268	592 876	580 966	581 926	602 386
Total imports (current prices)	Mio EUR	603 186	664 521	672 695	663 591	697 149	745 991
among which:							
All energy commodities		25 648	47 461	47 607	43 596	47 522	52 487
Oil products		18 374	35 479	31 867	28 073	29 460	34 772
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	163.9	159.7	163.2	159.8	161.0	158.8
Final energy consumption / GDP(95)		106.5	107.3	107.7	105.2	106.8	105.0
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		99.6	102.5	100.3	101.0	99.8	96.9
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		24.3	20.3	21.2	20.2	22.0	21.2
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	4 125	4 141	4 281	4 183	4 202	4 213
Final energy consumption / capita		2 681	2 784	2 824	2 754	2 788	2 786
Household consumption / capita		765	879	934	896	932	933
Final electricity consumption / capita	kWh/cap.	5 698	5 874	6 143	6 051	6 170	6 220
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	59.5	59.8	60.9	60.0	60.7	61.3
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	65.0	67.2	66.0	65.8	66.4	66.1
Efficiency of thermal power stations		45.1	54.7	53.3	51.3	51.2	51.3

## 2. Energy balance

### Principal aggregates by product

 eurostat	DEUTSCHLAND						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	134 535	132 095	132 986	133 821	134 264	135 266	0.7%
<i>among which:</i> Hard coal	28 506	24 164	19 697	18 875	18 693	18 701	0.0%
Lignite and peat	34 053	35 437	38 482	39 889	39 298	39 640	0.9%
Crude oil	2 778	3 208	3 322	3 559	3 747	3 513	-6.2%
Natural Gas	16 708	15 800	15 932	15 987	15 920	14 732	-7.5%
Nuclear heat	43 853	43 750	44 189	42 522	42 578	43 095	1.2%
Hydro-electricity	1 689	1 995	1 955	1 988	1 656	1 812	9.4%
Biomass	6 384	6 830	7 300	7 929	8 643	9 367	8.4%
<b>Imports</b>							
Total	229 042	234 913	244 542	237 912	242 652	251 463	3.6%
<i>among which:</i> Hard coal	14 271	17 390	20 778	20 219	21 652	25 199	16.4%
Crude oil and feedstocks	105 143	105 061	106 584	106 404	108 100	111 721	3.3%
Petroleum products	41 044	42 741	44 337	36 752	36 524	34 471	-5.6%
Natural Gas	61 591	61 085	63 444	65 858	68 515	72 869	6.4%
Electricity	3 491	3 881	3 936	4 159	4 222	4 143	-1.9%
<b>Exports</b>							
Total	26 486	30 211	28 822	29 570	30 517	36 755	20.4%
<i>among which:</i> Crude oil and feedstocks	1 761	3 260	1 044	1 341	657	1 124	71.1%
Petroleum products	16 609	18 568	18 433	18 520	18 734	23 737	26.7%
Natural gas	4 291	4 220	5 248	5 787	6 078	6 974	14.7%
Electricity	3 401	3 618	3 622	3 299	4 504	4 369	-3.0%
<b>Gross inland consumption</b>							
Total	338 421	340 225	352 161	344 869	346 795	347 741	0.3%
<i>among which:</i> Solid fuels	80 110	83 724	86 435	84 309	84 967	85 840	1.0%
Crude oil and petrol. prod.	132 954	129 872	133 647	128 638	126 919	125 357	-1.2%
Natural gas	71 996	71 853	75 591	75 571	79 131	78 731	-0.5%
Nuclear Energy	43 853	43 750	44 189	42 522	42 578	43 095	1.2%
Renewables	8 637	9 735	10 424	11 599	12 293	13 755	11.9%
<b>Transformation input</b>							
Total	262 306	265 667	266 201	264 554	272 351	277 337	1.8%
<i>among which:</i> Crude oil and feedstocks	118 500	119 856	117 945	117 921	120 110	124 033	3.3%
Petroleum products	2 105	1 796	1 746	1 662	1 817	2 039	12.2%
Hard coal	40 353	40 931	39 040	37 980	39 590	40 241	1.6%
Lignite and peat	34 612	37 266	39 072	40 118	39 399	39 537	0.3%
Renewables	2 081	2 146	2 253	2 548	3 311	3 729	12.6%
<b>Transformation output</b>							
Total	185 963	195 809	193 079	191 061	195 989p	200 814	2.5%
<i>among which:</i> Electricity	45 258	46 108	47 174	45 393	47 822	47 592	-0.5%
Heat	9 950	17 045	17 045	17 045	17 045p	17 403	2.1%



in 1 000 toe

## DEUTSCHLAND

1999 2000 2001 2002 2003 2004 04/03

### Final energy consumption

Total	219 940	228 718	232 282	227 027	230 119p	229 920p	-0.1%
<i>among which:</i> Solid fuels	10 493	10 950	10 617	10 250	10 348	10 566	2.1%
Petroleum products	101 252	98 052	100 779	96 206	93 332	90 467	-3.1%
Natural Gas	51 948	54 928	53 908	53 882	58 848	60 297	2.5%
Renewables	4 388	4 785	5 312	5 677	5 591	5 906	5.6%
Electricity	40 196	41 496	43 446	42 893	43 789	44 138	0.8%

### Final energy consumption by sector

#### Industry

Total	56 546	60 839	59 460	58 658	58 104p	58 351p	0.4%
<i>among which:</i> Solid fuels	9 105	9 674	9 354	9 191	9 302	9 702	4.3%
Petroleum Products	6 106	5 296	5 671	5 293	4 875	4 728	-3.0%
Natural Gas	18 564	21 222	18 633	18 607	19 183	18 981	-1.1%
Renewables	452	453	636	759	-	-	-
Electricity	17 720	19 082	20 344	20 084	19 930	20 107	0.9%


#### Transport

Total	66 903	65 978	64 615	64 181	62 410	62 610	0.3%
<i>among which:</i> Motor spirit	31 580	30 064	29 160	28 363	26 949	26 045	-3.4%
Diesel oil	26 785	26 921	26 632	26 927	26 132	26 818	2.6%
Jet fuel	7 002	7 345	7 010	6 984	7 148	7 296	2.1%
Electricity	1 362	1 368	1 410	1 392	1 388	1 393	0.3%


#### Services&households

Total	96 491	101 901	108 207	104 189	109 604p	108 959p	-0.6%
<i>among which:</i> Solid fuels	1 388	1 268	1 240	1 036	1 047	864	-17.4%
Gas oil	28 221	26 900	30 904	27 408	26 957	24 298	-9.9%
Natural Gas	33 383	33 706	35 275	35 275	39 665	41 316	4.2%
Renewables	3 830	4 128	4 365	4 430	4 880	4 931	1.0%
Electricity	21 115	21 046	21 693	21 416	22 471	22 638	0.7%
Heat	7 065	13 396	13 396	13 396	13 396p	13 713p	2.4%


### 3.1 Electricity balance

 eurostat	DEUTSCHLAND							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation	555 465	571 551	586 340	571 645	599 470	606 636	1.2%	
<i>among which:</i>								
Hydro	23 613	25 962	27 253	27 864	24 440	27 874	14.1%	
Wind	5 528	9 352	10 456	15 856	18 859	25 270	34.0%	
Geothermal	-	-	-	-	-	-	-	
Nuclear	170 004	169 606	171 305	164 842	165 060	167 065	1.2%	
Conventional thermal	356 320	366 631	377 326	363 083	391 111	386 427	-1.2%	
<i>of which:</i>								
Hard coal	143 083	143 164	138 999	133 729	144 052p	135 319	-6.1%	
Lignite and peat	135 984	148 332	154 669	150 816	162 458p	157 911	-2.8%	
Petroleum products	5 845	4 785	4 773	4 342	4 677p	10 140	116.8%	
Natural gas	55 063	52 495	58 430	54 061	58 234p	61 475	5.6%	
Derived gases	6 907	7 475	7 913	6 999	7 539p	8 598	14.0%	
Biomass	5 251	6 175	5 250	7 688	10 144	11 473	13.1%	
Industrial wastes	4 187	4 205	7 292	5 448	4 007p	1 511	-62.3%	
Total net generation	518 662	533 552	549 033	536 122	564 671	571 754	1.3%	
<b>Imports and exports</b>								
Total imports	40 598	45 134	45 779	48 370	49 107	48 187	-1.9%	
Total exports	39 558	42 077	42 122	38 372	52 379	50 808	-3.0%	
<b>Consumption and losses</b>								
Consumption of the energy branch	60 711	56 420	54 425	52 507	54 792	55 407	1.1%	
<i>of which:</i>								
Consumption for pumped-storage	1 338	3 282	1 514	1 579	2 552	2 513	-1.5%	
Network losses	24 372	32 824	25 772	25 556	26 968	28 483	5.6%	
Final energy consumption	467 483	482 603	505 280	498 840	509 265	513 327	0.8%	
<i>of which:</i>								
Industry	206 085	221 926	236 597	233 582	231 785	233 842	0.9%	
<i>among which:</i>								
Iron&steel industry	22 096	23 654	24 380	24 070	23 874	24 086	0.9%	
Non-ferrous metals	18 166	18 502	19 070	18 827	18 774	18 941	0.9%	
Chemical industry	51 151	48 336	49 820	49 185	48 906	49 341	0.9%	
Non-met. mineral prod.	14 835	14 826	15 281	15 087	15 066	15 200	0.9%	
Food, drink, tobacco	14 120	14 699	15 150	14 957	14 834	14 966	0.9%	
Pulp, paper and print	19 981	21 768	22 437	22 151	22 020	22 215	0.9%	
Engineering & metal	27 925	29 224	30 121	29 738	29 437	29 698	0.9%	
Other industries	31 633	44 564	53 790	53 102	52 384	52 847	0.9%	
Transport	15 835	15 910	16 399	16 190	16 144	16 200	0.3%	
Services & households etc.	245 563	244 767	252 284	249 068	261 336	263 285	0.7%	
<i>among which:</i>								
Households	131 281	128 907	132 865	131 172	139 548	140 389	0.6%	


## 3.2 Electrical capacity, fuel inputs and heat


		DEUTSCHLAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	114 691	118 267	119 923	125 995	124 669	123 845	-0.7%
<i>by source:</i>								
Conventional thermal		79 371	80 794	79 380	81 092	80 365	78 413	-2.4%
<i>of which:</i>								
Steam		70 259	70 831	69 000	:	:	:	
Gas turbine		6 417	6 279	6 246	:	:	:	
Combined cycle		1 790	2 729	3 179	:	:	:	
Internal combustion		905	955	955	:	:	:	
Nuclear		22 329	22 396	22 396	23 403	21 439	20 552	-4.1%
Hydro		8 853	8 982	9 393	9 499	8 256	8 251	-0.1%
<i>among which:</i>								
Pumped storage		5 469	4 654	4 562	4 562	4 198	4 198	0.0%
Wind		4 138	6 095	8 754	12 001	14 609	16 629	13.8%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		97 784	108 229	109 785	116 150	114 739	113 955	-0.7%
Autoproducers		11 437	10 118	10 333	10 105	10 318	10 313	0.0%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	83 651	85 252	89 310	90 332	95 275	95 007	-0.3%
<i>among which:</i>								
Hard coal		32 781	32 929	32 695	31 652	32 827	32 510	-1.0%
Lignite and peat		32 042	34 746	36 278	38 285	37 654	37 619	-0.1%
Petroleum products		1 183	1 107	1 108	1 043	1 352	1 430	5.8%
Natural gas		12 676	11 095	13 217	13 217	16 866	16 331	-3.2%
Renewables		2 081	2 146	2 253	2 548	3 190	3 607	13.1%
Heating plants		1 716	1 435	1 423	1 505	1 413	1 283	-9.2%
<i>among which:</i>								
Hard coal		-	-	-	76	98	445	354.0%
Lignite and peat		-	-	36	35	-	3	
Petroleum products		459	219	169	171	-	212	
Natural gas		1 214	1 182	1 182	1 182	1 154	397	-65.6%
Renewables		-	-	-	-	122	122	0.0%
<b>Heat production and consumption</b>								
Total heat production	TJ	9 950	17 045	17 045	17 045	17 045p	17 403	2.1%
<i>among which: in heating plants</i>								
		2 849	1 919	1 919	1 919	1 919p	1 916	-0.2%
Heat consumption		8 737	15 430	15 430	15 430	15 430p	15 796p	2.4%
<i>of which: in industry</i>								
		1 672	2 034	2 034	2 034	2 034p	2 082p	2.4%
<i>in households and services</i>								
		7 065	13 396	13 396	13 396	13 396p	13 713p	2.4%
<i>among which: in households</i>								
		4 081	13 396	13 396	13 396	13 396p	13 713p	2.4%

## 4.1 Crude oil and feedstocks

 eurostat	DEUTSCHLAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		2 746	3 166	3 278	3 509	3 690	3 463	-6.2%
Total imports		103 933	103 684	105 171	104 897	106 464	110 126	3.4%
Total exports		1 741	3 217	1 030	1 322	647	1 108	71.3%
Stock changes		1 660	3 421	-750	-47	-242	-629	-159.9%
Refinery intake		117 101	118 265	116 365	116 244	118 295	122 256	3.3%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		28 804	28 547	23 072	20 547	20 472	22 031	7.6%
Near and Middle East		12 954	13 534	11 714	11 197	10 230	8 560	-16.3%
Africa		21 667	21 295	18 232	18 155	16 884	16 952	0.4%
<i>by country of origin:</i>								
Algeria		4 188	6 501	3 958	4 231	3 727	2 869	-23.0%
Nigeria		1 161	1 983	3 013	2 824	2 883	914	-68.3%
Saudi Arabia		4 505	4 568	4 016	3 612	3 880	4 219	8.7%
Kuwait		748	643	109	238	-	60	
United Arab Emirates		-	-	-	-	-	-	-
Norway		20 783	18 708	20 969	22 283	22 281	21 804	-2.1%
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	111 540	112 940	:	:	:	:	
<i>among which:</i>								
Cracking and others		47 330	48 500	:	:	:	:	
Reforming		17 000	17 030	:	:	:	:	


## 4.2 Petroleum products

 eurostat	DEUTSCHLAND						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	115 077	116 025	114 292	114 083	116 165	119 954	3.3%
<i>among which:</i>							
Motor spirit	26 829	26 972	26 021	25 970	26 449	26 467	0.1%
Kerosene and jet fuel	4 259	4 328	4 206	4 165	4 204	4 431	5.4%
Naphtha	9 663	9 024	8 495	8 663	8 693	9 389	8.0%
Gas/diesel oil	46 108	46 449	46 943	47 455	48 638	49 551	1.9%
Residual fuel oil	11 873	13 116	13 192	12 183	12 232	14 013	14.6%
Total imports	40 522	42 171	43 669	36 338	36 086	34 070	-5.6%
Total exports	16 664	18 601	18 495	18 584	18 846	23 819	26.4%
Bunkers	2 139	2 247	2 280	2 445	2 664	2 726	2.3%
Stock changes	2 503	-842	597	2 449	-1 301	1 613	224.0%
Gross inland consumption	24 412	20 728	24 694	19 395	15 249	11 178	-26.7%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	23 871	24 955	24 234	19 341	19 409	19 410	0.0%
United Kingdom	1 346	1 882	2 145	1 570	921	1 448	57.2%
Norway	445	477	541	459	814	351	-56.9%
OPEC	471	408	543	879	580	526	-9.3%
Imports by product							
<i>among which:</i>							
Motor spirit	7 436	8 752	7 838	5 508	5 204	4 123	-20.8%
Kerosene and jet fuel	2 857	3 130	3 396	3 193	3 321	3 902	17.5%
Gas/diesel oil	17 167	16 058	19 545	14 475	14 633	13 121	-10.3%
Residual fuel oil	2 443	2 903	2 328	2 925	3 249	2 762	-15.0%
Exports by product							
<i>among which:</i>							
Motor spirit	4 392	4 611	4 661	4 399	4 155	5 264	26.7%
Kerosene and jet fuel	119	299	517	386	292	537	83.9%
Gas/diesel oil	4 324	5 448	5 576	6 242	6 328	8 150	28.8%
Residual fuel oil	4 012	4 397	4 066	3 611	4 004	5 377	34.3%
<b>Consumption</b>							
Inputs to electricity plants	1 229	1 169	1 163	1 116	1 448	1 581	9.2%
Inputs to heating plants	463	218	168	170	-	219	
Non-energy use	22 244	22 732	22 319	21 999	22 119	22 474	1.6%
Final energy consumption	98 969	95 805	98 561	94 084	91 249	88 424	-3.1%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	2 716	2 413	2 250	2 180	2 087	2 265	8.5%
Residual fuel oil	2 348	1 925	2 544	2 380	2 106	1 855	-11.9%


 eurostat	DEUTSCHLAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	1 188	933	1 125	888	886	864	-2.5%	
Non-ferrous metals	137	135	130	122	119	121	1.7%	
Chemical industry	189	70	432	326	12	28	133.3%	
Non-met. mineral prod.	1 379	1 096	1 059	1 313	1 232	1 112	-9.7%	
Food, drink, tobacco	834	875	860	690	689	582	-15.5%	
Pulp, paper and print	265	212	212	215	211	181	-14.2%	
Engineering & metal	811	728	738	801	780	784	0.5%	
Other industries	1 152	1 093	996	854	1 119	917	-18.1%	
<b>Transport</b>	63 442	62 468	60 994	60 444	58 543	58 507	-0.1%	
<i>among which:</i>								
Motor spirit	30 050	28 607	27 747	26 989	25 643	24 783	-3.4%	
Jet fuel	6 818	7 152	6 825	6 800	6 960	7 104	2.1%	
Diesel oil	26 511	26 646	26 360	26 652	25 865	26 544	2.6%	
<b>Services &amp; households etc.</b>	29 325	27 980	31 814	28 256	27 774	25 151	-9.4%	
<i>among which:</i>								
Gas oil	27 933	26 625	30 588	27 128	26 682	24 050	-9.9%	
Residual fuel oil	209	146	6	5	5	5	0.0%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	18 104	14 683	15 433	15 480	15 722	16 351	4.0%	
Petroleum products	20 715	21 557	20 960	18 511	19 812	18 199	-8.1%	




## 5. Natural gas

 eurostat	DEUTSCHLAND							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		777 245	735 038	741 143	743 728	740 615	685 342	-7.5%
Total imports		2 865 234	2 841 697	2 951 423	3 063 709	3 187 328	3 389 857	6.4%
Total exports		199 636	196 326	244 115	269 209	282 769	324 436	14.7%
Stock changes		-93 600	-37 800	68 040	-22 680	36 000	-88 200	-345.0%
Gross inland consumption		3 349 243	3 342 609	3 516 491	3 515 548	3 681 174	3 662 563	-0.5%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		1 290 507	1 299 906	1 235 435	1 249 659	1 398 271	1 466 679	4.9%
Algeria		-	-	-	-	-	-	-
Norway		720 273	757 969	831 264	964 662	987 800	1 038 277	5.1%
<b>Consumption</b>								
Inputs to electricity plants		589 696	516 151	614 838	614 838	784 606	759 715	-3.2%
Inputs to heat plants		56 488	55 000	55 000	55 000	53 670	18 447	-65.6%
Consumption of energy branch		50 622	51 349	69 669	48 288	32 785	32 700	-0.3%
Distribution losses		22 000	20 000	25 379	6 123	6 000	10 627	77.1%
Non-energy use		100 000	100 000	100 000	100 000	100 648	100 000	-0.6%
Industry		863 601	987 257	866 799	865 590	892 399	883 000	-1.1%
<i>among which:</i>								
Iron&steel industry		112 961	115 241	114 864	114 803	107 304	108 000	0.6%
Non-ferrous metals		36 403	36 880	38 059	37 965	39 700	39 000	-1.8%
Chemical industry		223 487	235 428	217 593	225 563	235 870	230 000	-2.5%
Non-met. mineral prod.		130 808	131 938	121 035	115 651	120 936	120 000	-0.8%
Food, drink, tobacco		91 464	92 428	90 809	99 205	103 738	104 000	0.3%
Pulp, paper and print		90 265	96 359	96 439	92 501	96 728	96 000	-0.8%
Engineering & metal		118 204	116 023	118 155	115 172	120 435	120 000	-0.4%
Other industries		35 531	46 516	45 478	41 267	43 153	42 200	-2.2%
Transport		-	-	-	-	-	-	-
Services & households etc.		1 553 000	1 568 000	1 641 000	1 641 000	1 845 209	1 922 000	4.2%
<i>among which:</i>								
Households		1 056 000	1 090 000	1 150 000	1 150 000	1 251 209	1 320 000	5.5%
Services		486 000	466 000	480 000	480 000	581 000	590 000	1.5%


## 6.1 Hard coal


 eurostat	DEUTSCHLAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	43 848	37 376	30 669	29 209	28 753	29 151	1.4%	
Total imports	22 678	27 948	33 511	32 607	34 917	39 536	13.2%	
Total exports	212	279	112	227	195	184	-5.6%	
Stock changes	341	3 918	3 270	1 178	2 907	-581	-120.0%	
Gross inland consumption	66 655	68 963	67 338	62 767	66 382	67 922	2.3%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	852	689	827	332	381	966	153.5%	
Poland	5 765	6 794	7 394	6 896	7 150	7 482	4.6%	
CIS	299	937	2 220	1 946	2 656	5 831	119.5%	
Australia	2 320	3 716	3 221	4 510	5 006	3 996	-20.2%	
South Africa	5 765	4 578	5 773	9 898	9 052	9 304	2.8%	
Colombia	2 830	2 719	3 159	5 823	6 175	3 718	-39.8%	
<b>Consumption</b>								
Inputs to electricity plants	52 797	52 971	52 594	50 953	52 846	51 809	-2.0%	
Inputs to heat plants	-	-	-	125	161	628	290.1%	
Consumption of energy branch	14	7	6	3	1	-		
Industry								
<i>among which:</i>								
Iron&steel industry	2 498	2 740	2 511	2 718	3 264	3 606	10.5%	
Non-ferrous metals	12	9	15	15	16	17	6.3%	
Chemical industry	726	265	716	746	842	870	3.3%	
Non-met. mineral prod.	1 251	1 348	980	933	1 054	1 053	-0.1%	
Food, drink, tobacco	140	98	105	142	160	163	1.9%	
Pulp, paper and print	484	431	410	402	455	484	6.4%	
Engineering & metal	4	-	1	5	5	108	2060.0%	
Other industries	20	10	4	6	8	6	-25.0%	
Services & households etc.	383	358	404	315	400	247	-38.3%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	42.1	35.6	31.0	28.0	27.0	:		
Number of active hard coal mines (end of year)	15	12	11	10	10	:		

## 6.2 Coal derivatives and peat

	DEUTSCHLAND						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	8 568	9 115	7 265	7 226	7 827	8 479	8.3%
Patent Fuel	169	146	140	124	114	102	-10.5%
Lignite and peat	161 282	167 836	175 509	181 923	179 230	182 059	1.6%
Brown coal briquettes	5 236	5 238	5 139	4 942	4 843	5 256	8.5%
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	90 105	88 107	68 136	67 307	60 878	65 035	6.8%
Blast-furnace gas	162 393	180 770	167 852	168 895	171 651	180 947	5.4%
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	7 026	8 281	8 168	7 772	7 078	6 832	-3.5%
<i>among which:</i>							
Iron & steel industry	6 000	7 260	7 197	7 079	6 207	5 959	-4.0%
Services & households	372	344	331	212	101	85	-15.8%
Patent Fuel	146	115	89	105	80	60	-25.0%
<i>among which:</i>							
Services & households	146	115	89	105	80	60	-25.0%
Lignite and peat	812	505	376	361	364	366	0.5%
<i>among which:</i>							
Industry	752	445	336	336	334	340	1.8%
Services & households	60	60	40	25	30	26	-13.3%
Brown coal briquettes	4 084	3 908	3 662	3 310	3 428	3 716	8.4%
<i>among which:</i>							
Industry	2 442	2 408	2 209	2 017	2 026	2 502	23.5%
Services & households	1 642	1 500	1 453	1 293	1 402	1 214	-13.4%
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	50 426	50 696	45 322	42 785	38 337	38 913	1.5%
Blast-furnace gas	77 162	83 221	75 995	74 099	81 904	80 134	-2.2%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	76 479	77 176	76 798	77 151	77 987	83 554	7.1%
Inputs to heat plants	1 296	864	786	992	904	3 447	281.3%
Consumption of energy branch	32 092	38 122	28 414	36 819	31 353	34 059	8.6%
Consumption in industry	127 588	133 917	121 317	116 884	120 241	119 047	-1.0%


## 7. Renewable energy sources

		DEUTSCHLAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	8 637	9 735	10 424	11 599	12 293	13 755	11.9%
Hydro (excl. pumping)		1 689	1 995	1 955	1 988	1 656	1 812	9.4%
Wind		475	804	899	1 363	1 622	2 173	34.0%
Solar		78	96	145	190	241	269	11.9%
Geothermal		10	10	124	128	132	134	1.9%
Biomass		6 384	6 830	7 300	7 929	8 643	9 367	8.4%
	<i>among which:</i>							
Wood, wood-waste		4 472	4 708	4 710	4 702	5 740	6 130	6.8%
Municipal solid waste		1 444	1 362	1 433	1 463	1 258	1 248	-0.8%
Biogas		363	557	843	1 270	915	995	8.7%
Gross inland consumption		8 637	9 735	10 424	11 599	12 293	13 755	11.9%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	10	10	0.2%
Biomass		2 081	2 146	2 253	2 548	3 302	3 719	12.6%
	<i>among which:</i>							
Wood, wood-waste		390	346	275	233	1 193	1 544	29.4%
Municipal waste		1 444	1 362	1 433	1 463	1 258	1 248	-0.8%
Biogas		247	439	541	846	831	908	9.3%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	4 388	4 785	5 312	5 677	5 591	5 906	5.6%
	<i>by sector:</i>							
Industry		452	453	636	759	-	-	-
Services & households etc.		3 830	4 128	4 365	4 430	4 880	4 931	1.0%
Transport		106	203	311	489	711	975	37.1%
	<i>by source:</i>							
Biomass		4 303	4 684	5 048	5 382	5 257	5 561	5.8%
	<i>among which:</i>							
Wood, wood-waste		4 082	4 362	4 435	4 469	4 547	4 586	0.9%
Municipal waste		-	-	-	-	-	-	-
Biogas		115	119	301	424	-	-	-
Geothermal		10	10	124	128	122	124	2.0%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		30	60	116	188	333	557	67.3%
Hydro with installed capacity < 1 MW		2 019	1 802	2 208	2 800	3 400	3 314	-2.5%
Hydro with installed capacity > 1 & <10 MW		5 007	6 197	5 426	5 794	4 567	5 064	10.9%
Hydro with installed capacity > 10 MW		12 620	16 926	14 517	14 530	11 297	12 698	12.4%
Wood, Wood-waste		823	804	639	543	2 775	3 900	40.5%
Municipal waste		3 479	3 688	3 718	3 898	4 324	4 232	-2.1%
Biogas		949	1 683	2 077	3 247	2 968	3 264	10.0%

		DEUTSCHLAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		70	114	195	260	388	708	82.5%
Hydro with installed capacity < 1 MW		534	534	534	555	540	555	2.8%
Hydro with installed capacity > 1 & <10 MW		870	887	887	972	1 004	1 009	0.5%
Hydro with installed capacity > 10 MW		1 980	2 907	3 410	3 410	2 423	2 423	0.0%
Wood, Wood-waste		1 120	1 014	190	285	500	810	62.0%
Municipal waste		555	585	585	585	585	585	0.0%
Biogas		287	345	560	580	599	654	9.2%
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	130	250	354	556	822	1 137	38.3%
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	2 418	2 890	4 207	4 754	5 477	6 235	13.8%

# 1. Energy economy

## Key figures and energy indicators

		EESTI					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	2 976	3 168	3 420	3 620	4 141	4 031
Net energy imports		1 884	1 486	1 656	1 487	1 477	1 652
Net oil imports		1 100	626	812	880	850	905
Net gas imports		576	662	710	596	680	775
Gross inland energy consumption		4 881	4 572	5 097	4 964	5 409	5 639
Final energy consumption		2 355	2 362	2 517	2 586	2 656	2 747
Industry		496	528	582	524	587	623
Transport		579	577	650	679	642	467
Services and households etc.		1 280	1 256	1 284	1 383	1 427	1 657
Gross electricity generation	GWh	8 267	8 512	8 483	8 526	10 153	10 296
Final electricity consumption		4 763	4 969	5 134	5 272	5 573	5 892
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	3 492	3 766	4 010	4 300	4 588	4 946
Population	1000 per.	1 379	1 372	1 367	1 361	1 356	1 351
Industry added value	Mio EUR	855	973	1 047	1 200	1 312	1 431
Total imports (current prices)	Mio EUR	3 239	4 149	4 236	4 396	4 863	5 574
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	1 397.9	1 214.1	1 271.2	1 154.4	1 179.0	1 140.2
Final energy consumption / GDP(95)		674.5	627.1	627.7	601.3	579.0	555.4
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		580.0	542.7	556.3	436.3	447.3	435.1
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		131.9	126.1	124.6	133.9	135.8	141.8
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 539	3 332	3 729	3 647	3 989	4 174
Final energy consumption / capita		1 708	1 721	1 841	1 900	1 959	2 033
Household consumption / capita		695	676	687	701	716	862
Final electricity consumption / capita	kWh/cap.	3 453	3 621	3 756	3 873	4 110	4 361
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	37.4	31.8	31.9	29.3	26.8	28.5
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	48.3	51.7	49.4	52.1	49.1	48.7
Efficiency of thermal power stations		38.9	40.4	40.3	42.0	42.2	37.8

## 2. Energy balance


### Principal aggregates by product

eurostat	EESTI						
	1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 toe</i>							
<b>Primary production</b>							
Total	2 976	3 168	3 420	3 620	4 141	4 031	-2.7%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	2 467	2 667	2 618	2 806	3 239	3 029	-6.5%
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	0	0	1	1	1	2	69.2%
Biomass	509	500	550	542	608	685	12.5%
<b>Imports</b>							
Total	2 073	1 770	1 950	1 841	1 946	2 178	11.9%
<i>among which:</i> Hard coal	53	64	54	39	37	29	-22.9%
Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	1 164	760	935	1 033	1 007	1 098	9.0%
Natural Gas	576	662	710	596	680	775	13.9%
Electricity	12	22	23	35	8	30	273.1%
<b>Exports</b>							
Total	189	284	294	354	469	527	12.2%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	64	134	122	153	158	193	22.4%
Natural gas	-	-	-	-	-	-	-
Electricity	63	102	77	95	171	184	7.6%
<b>Gross inland consumption</b>							
Total	4 881	4 572	5 097	4 964	5 409	5 639	4.3%
<i>among which:</i> Solid fuels	2 826	2 979	2 908	2 849	3 329	3 335	0.2%
Crude oil and petrol. prod.	1 023	510	993	1 055	1 042	1 077	3.3%
Natural gas	576	662	710	596	680	775	13.9%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	508	501	539	523	521	607	16.6%
<b>Transformation input</b>							
Total	3 119	3 100	3 142	3 072	3 404	3 647	7.2%
<i>among which:</i> Crude oil and feedstocks	1	1	1	1	1	1	0.0%
Petroleum products	288	127	107	111	91	83	-8.4%
Hard coal	11	7	3	4	3	3	-18.3%
Lignite and peat	2 393	2 431	2 463	2 381	2 795	2 974	6.4%
Renewables	92	87	104	106	94	110	16.2%
<b>Transformation output</b>							
Total	1 509	1 507	1 530	1 559	1 689	1 681	-0.5%
<i>among which:</i> Electricity	710	731	729	733	872	883	1.3%
Heat	687	635	634	644	611	644	5.3%


eurostat	EESTI						
	1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 toe</i>							
<b>Final energy consumption</b>							
Total	2 355	2 362	2 517	2 586	2 656	2 747	3.4%
among which:							
Solid fuels	100	117	135	89	70	85	22.4%
Petroleum products	755	748	836	932	919	934	1.5%
Natural Gas	116	134	169	180	251	208	-17.1%
Renewables	415	424	434	416	424	492	15.9%
Electricity	410	427	441	453	479	507	5.7%
<b>Final energy consumption by sector</b>							
<b>Industry</b>							
Total	496	528	582	524	587	623	6.1%
among which:							
Solid fuels	54	79	104	54	43	51	18.9%
Petroleum Products	104	89	93	83	98	100	1.5%
Natural Gas	63	79	101	91	144	105	-27.2%
Renewables	71	79	89	89	63	128	104.3%
Electricity	157	157	156	162	175	184	5.1%
<b>Transport</b>							
Total	579	577	650	679	642	467	-27.2%
among which:							
Motor spirit	296	295	324	322	308	97	-68.6%
Diesel oil	258	255	303	329	307	332	8.2%
Jet fuel	17	20	16	20	18	30	61.1%
Electricity	8	8	7	8	8	9	2.1%
<b>Services&amp;households</b>							
Total	1 280	1 256	1 284	1 383	1 427	1 657	16.1%
among which:							
Solid fuels	47	37	31	35	27	34	27.9%
Gas oil	50	55	51	129	168	155	-7.8%
Natural Gas	53	55	68	90	107	103	-3.6%
Renewables	344	345	346	328	361	364	0.6%
Electricity	244	262	278	283	296	315	6.2%
Heat	513	468	462	469	448	466	4.0%




### 3.1 Electricity balance

 eurostat	EESTI							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation	8 267	8 512	8 483	8 526	10 153	10 296	1.4%	
<i>among which:</i>								
Hydro	4	5	7	6	13	22	69.2%	
Wind	-	-	-	-	-	-	-	
Geothermal	-	-	-	-	-	-	-	
Nuclear	-	-	-	-	-	-	-	
Conventional thermal	8 263	8 507	8 476	8 520	10 140	10 274	1.3%	
<i>of which:</i>								
Hard coal	-	-	-	-	-	-	-	
Lignite and peat	7 646	7 678	7 656	7 748	9 371	9 524	1.6%	
Petroleum products	297	57	41	29	43	36	-16.3%	
Natural gas	308	759	768	713	699	684	-2.1%	
Derived gases	-	-	-	-	-	-	-	
Biomass	12	13	11	30	27	30	11.1%	
Industrial wastes	-	-	-	-	-	-	-	
Total net generation	7 351	7 590	7 590	7 597	9 095	9 224	1.4%	
<b>Imports and exports</b>								
Total imports	138	258	269	412	93	347	273.1%	
Total exports	734	1 187	891	1 102	1 989	2 141	7.6%	
<b>Consumption and losses</b>								
Consumption of the energy branch	1 439	1 375	1 367	1 308	1 498	1 506	0.5%	
<i>of which:</i>								
Consumption for pumped-storage	-	-	-	-	-	-	-	
Network losses	1 470	1 240	1 361	1 257	1 192	1 112	-6.7%	
Final energy consumption	4 763	4 969	5 134	5 272	5 573	5 892	5.7%	
<i>of which:</i>								
Industry	1 828	1 831	1 814	1 883	2 031	2 135	5.1%	
<i>among which:</i>								
Iron&steel industry	4	4	4	4	4	3	-25.0%	
Non-ferrous metals	-	1	3	3	4	3	-25.0%	
Chemical industry	406	311	307	282	305	329	7.9%	
Non-met. mineral prod.	150	151	166	172	194	196	1.0%	
Food, drink, tobacco	263	267	287	292	289	300	3.8%	
Pulp, paper and print	97	104	109	130	127	136	7.1%	
Engineering & metal	179	181	162	196	224	242	8.0%	
Other industries	471	503	512	550	612	646	5.6%	
Transport	92	91	84	97	97	99	2.1%	
Services & households etc.	2 843	3 047	3 236	3 292	3 445	3 658	6.2%	
<i>among which:</i>								
Households	1 363	1 466	1 585	1 584	1 594	1 618	1.5%	

## 3.2 Electrical capacity, fuel inputs and heat


	EESTI							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	2 613	2 545	2 223	2 180	2 165	2 375	9.7%
<i>by source:</i>								
Conventional thermal		2 613	2 545	2 223	2 180	2 165	2 375	9.7%
<i>of which:</i>								
Steam		2 600	2 538	2 217	2 169	2 152	2 361	9.7%
Gas turbine		-	-	-	-	-	-	-
Combined cycle		-	-	-	-	-	-	-
Internal combustion		7	1	6	11	13	14	7.7%
Nuclear		-	-	-	-	-	-	-
Hydro		-	-	-	-	-	-	-
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		2 589	2 521	2 200	2 160	2 146	2 360	10.0%
Autoproducers		25	25	24	24	25	27	8.0%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	2 418	2 438	2 452	2 321	2 651	2 958	11.6%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		2 214	2 199	2 205	2 076	2 409	2 731	13.4%
Petroleum products		102	12	11	10	11	11	0.0%
Natural gas		65	173	172	152	146	139	-4.4%
Renewables		2	2	3	5	5	4	-29.9%
Heating plants		556	455	445	493	473	475	0.4%
<i>among which:</i>								
Hard coal		11	7	3	4	3	3	-18.3%
Lignite and peat		35	25	14	48	108	30	-72.1%
Petroleum products		186	115	96	102	81	73	-9.5%
Natural gas		227	203	209	229	190	256	34.6%
Renewables		90	85	101	101	89	106	18.9%
<b>Heat production and consumption</b>								
Total heat production	TJ	687	635	634	644	611	644	5.3%
<i>among which: in heating plants</i>								
		458	382	375	402	365	409	12.1%
Heat consumption		559	511	502	514	490	522	6.5%
<i>of which: in industry</i>								
		46	44	40	45	42	56	33.4%
<i>in households and services</i>								
		513	468	462	469	448	466	4.0%
<i>among which: in households</i>								
		412	376	397	393	373	371	-0.5%

## 4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	EESTI						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		-	-	-	-	-	-	-
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-	-	-
Refinery intake		-	-	-	-	-	-	-
<b>Imports of Crude Oil by origin</b>								
<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		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

## 4.2 Petroleum products


eurostat	EESTI							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output	-	-	-	-	-	-	-	-
<i>among which:</i>								
Motor spirit	-	-	-	-	-	-	-	-
Kerosene and jet fuel	-	-	-	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-
Gas/diesel oil	-	-	-	-	-	-	-	-
Residual fuel oil	-	-	-	-	-	-	-	-
Total imports	1 166	755	922	1 025	993	1 085	9.3%	
Total exports	68	140	128	160	165	202	22.4%	
Bunkers	168	107	102	120	114	153	34.2%	
Stock changes	80	-12	27	21	11	7	-36.4%	
Gross inland consumption	1 021	498	984	1 051	1 030	1 066	3.5%	
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands	2	2	4	1	-	-	-	
United Kingdom	6	-	-	-	-	-	-	
Norway	7	5	18	16	13	8	-38.5%	
OPEC	-	-	-	-	-	-	-	
Imports by product								
<i>among which:</i>								
Motor spirit	287	188	301	276	280	290	3.6%	
Kerosene and jet fuel	19	22	14	19	20	27	35.0%	
Gas/diesel oil	407	342	435	523	564	599	6.2%	
Residual fuel oil	351	154	125	129	86	112	30.2%	
Exports by product								
<i>among which:</i>								
Motor spirit	-	-	-	-	-	-	-	
Kerosene and jet fuel	1	1	-	-	-	-	-	
Gas/diesel oil	-	-	-	-	-	-	-	
Residual fuel oil	10	137	127	160	165	202	22.4%	
<b>Consumption</b>								
Inputs to electricity plants	107	12	12	10	11	11	0.0%	
Inputs to heating plants	194	120	100	105	84	76	-9.5%	
Non-energy use	48	48	44	68	37	51	37.8%	
Final energy consumption	740	732	819	915	899	915	1.7%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	30	35	34	32	62	53	-14.5%	
Residual fuel oil	75	54	59	50	24	45	87.5%	

 eurostat	EESTI							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	-	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-	-
Chemical industry	1	1	-	1	2	1	-50.0%	
Non-met. mineral prod.	4	6	10	4	6	6	0.0%	
Food, drink, tobacco	45	34	32	31	14	26	85.7%	
Pulp, paper and print	4	2	19	1	10	1	-90.0%	
Engineering & metal	5	4	4	3	7	8	14.3%	
Other industries	42	38	24	38	49	52	6.1%	
<b>Transport</b>	554	552	624	651	615	450	-26.8%	
<i>among which:</i>								
Motor spirit	282	281	308	306	293	92	-68.6%	
Jet fuel	17	19	16	19	18	29	61.1%	
Diesel oil	255	252	300	326	304	329	8.2%	
<b>Services &amp; households etc.</b>	79	89	100	179	186	364	95.4%	
<i>among which:</i>								
Gas oil	49	54	50	128	166	153	-7.8%	
Residual fuel oil	22	27	41	46	13	12	-7.7%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	-	-	-	-	-	-	-	
Petroleum products	154	166	139	115	100	93	-7.0%	

## 5. Natural gas

 eurostat	EESTI								
	in TJ (GCV)		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>									
Primary production		-	-	-	-	-	-	-	-
Total imports		26 790	30 797	33 050	27 714	31 635	36 032	13.9%	
Total exports		-	-	-	-	-	-	-	
Stock changes		-	-	-	-	-	-	-	
Gross inland consumption		26 790	30 797	33 050	27 714	31 635	36 032	13.9%	
<b>Imports</b>									
Imports by origin									
<i>among which:</i>									
CIS		26 790	30 797	33 050	27 714	31 635	36 032	13.9%	
Algeria		-	-	-	-	-	-	-	
Norway		-	-	-	-	-	-	-	
<b>Consumption</b>									
Inputs to electricity plants		3 044	8 061	7 991	7 091	6 770	6 472	-4.4%	
Inputs to heat plants		10 550	9 460	9 745	10 645	8 855	11 921	34.6%	
Consumption of energy branch		362	407	373	257	376	298	-20.7%	
Distribution losses		-	-	-	-	-	-	-	
Non-energy use		7 424	6 598	7 116	1 321	3 965	7 668	93.4%	
Industry		2 945	3 691	4 695	4 212	6 690	4 873	-27.2%	
<i>among which:</i>									
Iron&steel industry		-	4	7	7	10	10	0.0%	
Non-ferrous metals		-	-	4	25	4	31	675.0%	
Chemical industry		15	89	93	56	73	116	58.9%	
Non-met. mineral prod.		768	775	1 153	735	1 902	920	-51.6%	
Food, drink, tobacco		1 115	1 227	1 336	1 235	1 184	1 044	-11.8%	
Pulp, paper and print		194	619	624	637	885	849	-4.1%	
Engineering & metal		130	135	162	229	483	270	-44.1%	
Other industries		488	518	643	743	983	916	-6.8%	
Transport		-	-	-	-	-	-	-	
Services & households etc.		2 445	2 565	3 148	4 183	4 979	4 800	-3.6%	
<i>among which:</i>									
Households		1 930	1 950	1 937	1 714	1 737	1 795	3.3%	
Services		394	496	1 043	2 280	2 987	2 723	-8.8%	

## 6.1 Hard coal


 eurostat	EESTI							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	88	101	84	60	57	44	-22.8%	
Total exports	2	-	-	-	-	-	-	
Stock changes	-7	-14	25	1	-13	14	207.7%	
Gross inland consumption	79	87	109	61	44	58	31.8%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	
Poland	-	-	-	-	-	-	-	
CIS	-	-	-	-	-	-	-	
Australia	-	-	-	-	-	-	-	
South Africa	-	-	-	-	-	-	-	
Colombia	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants	-	-	-	-	-	-	-	
Inputs to heat plants	19	11	6	6	5	4	-20.0%	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry	9	39	69	15	11	13	18.2%	
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	7	37	67	13	8	9	12.5%	
Food, drink, tobacco	1	1	1	1	1	-	-	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	1	1	1	0.0%	
Other industries	1	1	1	-	-	2	-	
Services & households etc.	50	38	35	39	28	41	46.4%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	


## 6.2 Coal derivatives and peat

eurostat	EESTI						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	16	23	26	30	30	35	16.7%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	11 262	12 073	12 186	13 082	15 254	14 272	-6.4%
Brown coal briquettes	106	86	113	128	120	68	-43.3%
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	2 238	3 833	4 348	4 642	5 898	4 471	-24.2%
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	1	2	4	1	1	-	
<i>among which:</i>							
Iron & steel industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	236	234	265	206	175	216	23.4%
<i>among which:</i>							
Industry	230	229	262	202	172	211	22.7%
Services & households	6	5	3	4	3	5	66.7%
Brown coal briquettes	32	29	17	18	18	14	-22.2%
<i>among which:</i>							
Industry	-	1	1	-	1	-	-
Services & households	32	28	16	18	17	14	-17.6%
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	16	-	-	-	1 065	-	-
Inputs to electricity plants	1 576	2 432	2 826	3 669	3 785	3 441	-9.1%
Inputs to heat plants	328	875	984	396	90	333	270.0%
Consumption of energy branch	318	532	538	567	947	697	-26.4%
Consumption in industry	16	-	-	-	1 065	-	-




## 7. Renewable energy sources

		EESTI						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	510	500	551	543	610	687	12.6%
Hydro (excl. pumping)		0	0	1	1	1	2	69.2%
Wind		0	0	0	0	1	1	33.3%
Solar		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Biomass		509	500	550	542	608	685	12.5%
	<i>among which:</i>							
Wood, wood-waste		507	492	548	540	606	683	12.7%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		3	2	2	2	3	2	-25.7%
Gross inland consumption		508	501	539	523	521	607	16.6%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		92	87	104	106	94	110	16.2%
	<i>among which:</i>							
Wood, wood-waste		89	85	102	104	92	110	19.6%
Municipal waste		-	-	-	-	-	-	-
Biogas		3	2	2	2	3	2	-25.7%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	415	424	434	416	424	492	15.9%
	<i>by sector:</i>							
Industry		71	79	89	89	63	128	104.3%
Services & households etc.		344	345	346	328	361	364	0.6%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		415	424	434	416	424	492	15.9%
	<i>among which:</i>							
Wood, wood-waste		415	424	434	416	424	492	15.9%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		:	5	7	6	13	22	69.2%
Hydro with installed capacity > 1 & <10 MW		:	-	-	-	-	-	-
Hydro with installed capacity > 10 MW		:	-	-	-	-	-	-
Wood, Wood-waste		12	13	11	23	21	23	9.5%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-

	EESTI						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	:	2	2	3	4	4	0.0%
Hydro with installed capacity > 1 & <10 MW	:	-	-	-	-	-	-
Hydro with installed capacity > 10 MW	:	-	-	-	-	-	-
Wood, Wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	-	-	-	-	-	-
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	-	-	-	-	-	-	-


# 1. Energy economy

## Key figures and energy indicators

		ELLADA					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	9 463	9 946	9 942	10 541	9 892	10 268
Net energy imports		19 744	21 982	22 322	23 199	22 472	24 588
Net oil imports		17 782	19 527	19 581	20 569	19 869	21 708
Net gas imports		1 216	1 689	1 670	1 755	2 002	2 174
Gross inland energy consumption		26 759	28 076	28 937	29 721	30 159	30 631
Final energy consumption		18 157	18 513	19 112	19 497	20 477	20 245
Industry		4 154	4 437	4 496	4 458	4 305	4 045
Transport		7 453	7 196	7 363	7 460	7 800	7 960
Services and households etc.		6 549	6 880	7 253	7 579	8 373	8 241
Gross electricity generation	GWh	49 860	53 843	53 704	54 608	58 471	59 344
Final electricity consumption		40 879	43 151	44 535	46 564	48 598	49 719
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	101 933	106 497	111 913	116 198	121 721	127 413
Population	1000 per.	10 861	10 904	10 931	10 969	11 006	11 041
Industry added value	Mio EUR	20 598	21 715	23 281	23 815	25 235	25 180
Total imports (current prices)	Mio EUR	34 416	39 604	37 551	37 089	38 706	42 319
among which:							
All energy commodities		1 579	4 398	5 005	4 522	5 437	5 383
Oil products		1 434	4 102	4 618	4 151	4 991	4 906
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	262.5	263.6	258.6	255.8	247.8	240.4
Final energy consumption / GDP(95)		178.1	173.8	170.8	167.8	168.2	158.9
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		201.7	204.3	193.1	187.2	170.6	160.6
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		19.7	19.5	20.7	20.7	21.4	21.8
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	2 464	2 575	2 647	2 710	2 740	2 774
Final energy consumption / capita		1 672	1 698	1 748	1 777	1 861	1 834
Household consumption / capita		389	410	428	447	497	486
Final electricity consumption / capita	kWh/cap.	3 764	3 957	4 074	4 245	4 415	4 503
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	66.1	69.5	68.9	70.7	67.4	72.7
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	67.9	65.9	66.0	65.6	67.9	66.1
Efficiency of thermal power stations		38.7	36.9	37.4	35.9	38.1	38.3

## 2. Energy balance

### Principal aggregates by product

 eurostat	ELLADA						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	9 463	9 946	9 942	10 541	9 892	10 268	3.8%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	8 003	8 222	8 392	8 914	8 176	8 547	4.5%
Crude oil	16	280	191	189	137	133	-2.9%
Natural Gas	3	42	40	42	31	29	-7.3%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	416	318	180	241	410	402	-2.0%
Biomass	913	946	970	996	945	953	0.8%
<b>Imports</b>							
Total	23 690	26 249	26 334	27 568	28 654	30 491	6.4%
<i>among which:</i> Hard coal	782	809	885	644	485	498	2.7%
Crude oil and feedstocks	17 347	20 439	20 132	20 645	21 111	21 641	2.5%
Petroleum products	4 188	3 164	3 337	4 127	4 694	5 758	22.7%
Natural Gas	1 216	1 689	1 670	1 755	2 002	2 174	8.6%
Electricity	156	149	306	396	358	417	16.4%
<b>Exports</b>							
Total	3 945	4 267	4 012	4 369	6 182	5 903	-4.5%
<i>among which:</i> Crude oil and feedstocks	116	-	-	387	1 104	812	-26.5%
Petroleum products	3 636	4 077	3 889	3 815	4 832	4 879	1.0%
Natural gas	-	-	-	-	-	-	-
Electricity	142	150	91	147	179	175	-2.0%
<b>Gross inland consumption</b>							
Total	26 759	28 076	28 937	29 721	30 159	30 631	1.6%
<i>among which:</i> Solid fuels	8 524	9 040	9 308	9 321	8 906	9 100	2.2%
Crude oil and petrol. prod.	15 562	15 929	16 413	16 954	17 499	17 499	0.0%
Natural gas	1 218	1 705	1 683	1 801	2 026	2 229	10.0%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	1 442	1 403	1 318	1 396	1 548	1 560	0.7%
<b>Transformation input</b>							
Total	29 078	33 985	33 316	33 700	34 197	33 180	-3.0%
<i>among which:</i> Crude oil and feedstocks	19 063	22 404	21 666	21 477	22 266	21 122	-5.1%
Petroleum products	1 877	2 036	1 868	1 937	1 958	1 803	-7.9%
Hard coal	3	4	1	6	25	-	-
Lignite and peat	7 248	8 252	8 476	8 880	8 427	8 620	2.3%
Renewables	2	0	31	47	31	32	3.3%
<b>Transformation output</b>							
Total	22 877	26 632	25 951	25 815	26 753	25 695	-4.0%
<i>among which:</i> Electricity	3 838	4 237	4 318	4 342	4 481	4 559	1.7%
Heat	26	28	28	28	46	43	-5.9%



in 1 000 toe

**ELLADA**

**1999      2000      2001      2002      2003      2004      04/03**

**Final energy consumption**

Total	18 157	18 513	19 112	19 497	20 477	20 245	-1.1%
<i>among which:</i> Solid fuels	770	888	903	746	603	559	-7.2%
Petroleum products	12 634	12 584	12 992	13 321	14 245	13 878	-2.6%
Natural Gas	201	257	317	345	385	461	19.7%
Renewables	1 010	1 046	1 042	1 053	1 020	1 029	0.8%
Electricity	3 515	3 710	3 829	4 004	4 179	4 275	2.3%

**Final energy consumption by sector**

**Industry**

Total	4 154	4 437	4 496	4 458	4 305	4 045	-6.0%
<i>among which:</i> Solid fuels	734	852	870	721	597	553	-7.3%
Petroleum Products	1 913	1 935	1 913	1 966	1 960	1 709	-12.8%
Natural Gas	190	244	294	309	328	373	13.4%
Renewables	208	241	236	246	202	207	2.4%
Electricity	1 109	1 165	1 183	1 215	1 217	1 203	-1.2%


**Transport**

Total	7 453	7 196	7 363	7 460	7 800	7 960	2.0%
<i>among which:</i> Motor spirit	3 326	3 394	3 506	3 671	3 836	3 920	2.2%
Diesel oil	2 240	2 216	2 304	2 319	2 466	2 431	-1.4%
Jet fuel	1 284	1 325	1 191	1 154	1 162	1 208	4.0%
Electricity	17	20	18	19	20	20	0.4%


**Services&households**

Total	6 549	6 880	7 253	7 579	8 373	8 241	-1.6%
<i>among which:</i> Solid fuels	36	35	33	25	6	6	0.1%
Gas oil	3 087	3 287	3 546	3 756	4 355	4 042	-7.2%
Natural Gas	11	13	17	27	46	78	68.6%
Renewables	801	805	806	806	818	821	0.5%
Electricity	2 389	2 526	2 628	2 770	2 941	3 052	3.8%
Heat	26	28	28	28	46	43	-5.9%


### 3.1 Electricity balance

 eurostat	ELLADA						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	49 860	53 843	53 704	54 608	58 471	59 344	1.5%
<i>among which:</i>							
Hydro	5 058	4 111	2 725	3 463	5 332	5 205	-2.4%
Wind	162	451	756	651	1 021	1 121	9.8%
Geothermal	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-
Conventional thermal	44 640	49 281	50 223	50 494	52 118	53 018	1.7%
<i>of which:</i>							
Hard coal	12	14	6	20	78	-	
Lignite and peat	32 369	34 299	35 425	34 546	35 092	35 380	0.8%
Petroleum products	8 157	8 885	8 477	8 633	8 707	8 385	-3.7%
Natural gas	3 907	5 920	6 133	7 061	7 995	8 991	12.5%
Derived gases	-	-	-	-	-	-	-
Biomass	1	-	79	126	105	123	17.1%
Industrial wastes	194	163	103	108	141	139	-1.4%
Total net generation	46 021	49 863	49 730	50 608	54 337	54 889	1.0%
<b>Imports and exports</b>							
Total imports	1 811	1 729	3 562	4 602	4 169	4 854	16.4%
Total exports	1 647	1 740	1 062	1 706	2 076	2 034	-2.0%
<b>Consumption and losses</b>							
Consumption of the energy branch	5 596	5 990	6 090	6 263	6 447	6 694	3.8%
<i>of which:</i>							
Consumption for pumped-storage	101	179	269	283	241	225	-6.6%
Network losses	3 334	4 273	4 951	4 014	4 953	5 218	5.4%
Final energy consumption	40 879	43 151	44 535	46 564	48 598	49 719	2.3%
<i>of which:</i>							
Industry	12 900	13 547	13 762	14 130	14 156	13 987	-1.2%
<i>among which:</i>							
Iron&steel industry	821	975	1 101	1 416	1 550	1 506	-2.8%
Non-ferrous metals	3 520	3 861	3 898	3 929	3 752	4 237	12.9%
Chemical industry	1 221	1 212	1 094	1 154	627	524	-16.4%
Non-met. mineral prod.	1 979	2 068	2 063	2 049	2 072	2 240	8.1%
Food, drink, tobacco	1 107	1 210	1 231	1 285	1 875	1 899	1.3%
Pulp, paper and print	475	512	491	473	576	584	1.4%
Engineering & metal	754	790	785	808	1 052	720	-31.6%
Other industries	1 791	1 647	1 833	1 775	1 550	1 042	-32.8%
Transport	197	227	214	222	237	238	0.4%
Services & households etc.	27 782	29 377	30 559	32 212	34 205	35 494	3.8%
<i>among which:</i>							
Households	13 484	14 207	14 546	15 775	16 444	16 852	2.5%

## 3.2 Electrical capacity, fuel inputs and heat


	ELLADA							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	10 905	10 903	10 969	11 553	12 078	12 435	3.0%
<i>by source:</i>								
Conventional thermal		7 692	7 605	7 623	8 188	8 628	8 866	2.8%
<i>of which:</i>								
Steam		5 965	5 806	5 826	5 826	6 123	6 119	-0.1%
Gas turbine		370	323	375	434	466	481	3.2%
Combined cycle		922	918	916	1 391	1 386	1 541	11.2%
Internal combustion		435	558	506	537	632	725	14.7%
Nuclear		-	-	-	-	-	-	-
Hydro		3 102	3 072	3 076	3 078	3 079	3 099	0.6%
<i>among which:</i>								
Pumped storage		615	699	699	699	699	699	0.0%
Wind		109	226	270	287	371	470	26.7%
Geothermal		2	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		10 623	10 690	10 772	11 356	11 842	12 179	2.8%
Autoproducers		282	213	218	218	237	257	8.4%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	9 998	11 551	11 616	12 179	11 878	12 007	1.1%
<i>among which:</i>								
Hard coal		3	4	1	6	25	-	
Lignite and peat		7 231	8 222	8 442	8 836	8 374	8 569	2.3%
Petroleum products		1 877	2 036	1 868	1 937	1 958	1 803	-7.9%
Natural gas		867	1 280	1 265	1 348	1 484	1 599	7.8%
Renewables		2	0	31	47	31	32	3.3%
Heating plants		0	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		0	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	26	28	28	28	46	43	-5.9%
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		26	28	28	28	46	43	-5.9%
<i>of which: in industry</i>								
		-	-	-	-	-	-	-
in households and services		26	28	28	28	46	43	-5.9%
<i>among which: in households</i>								
		26	28	28	28	46	43	-5.9%


## 4.1 Crude oil and feedstocks

 eurostat	ELLADA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		16	279	191	189	137	133	-2.9%
Total imports		17 287	20 383	20 081	20 605	21 102	21 619	2.5%
Total exports		116	-	-	387	1 105	812	-26.5%
Stock changes		187	-104	-150	-311	436	-1 042	-339.0%
Refinery intake		18 979	22 320	21 595	21 416	22 230	21 083	-5.2%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		14 970	15 122	13 164	9 686	11 693	14 434	23.4%
Near and Middle East		13 787	13 866	11 953	8 748	10 681	13 138	23.0%
Africa		1 322	1 256	1 211	1 234	1 371	1 337	-2.5%
<i>by country of origin:</i>								
Algeria		-	65	-	-	-	-	-
Nigeria		-	-	-	-	23	56	143.5%
Saudi Arabia		5 347	5 821	5 268	5 128	6 184	6 291	1.7%
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	20 140	20 440	:	:	:	:	
<i>among which:</i>								
Cracking and others		9 870	9 890	:	:	:	:	
Reforming		2 330	2 360	:	:	:	:	




## 4.2 Petroleum products


 eurostat	ELLADA						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	18 894	22 231	21 483	21 319	22 113	20 991	-5.1%
<i>among which:</i>							
Motor spirit	3 205	3 758	3 770	3 802	3 653	3 629	-0.7%
Kerosene and jet fuel	1 908	2 116	1 803	1 731	1 649	1 749	6.1%
Naphtha	880	1 036	881	795	1 037	960	-7.4%
Gas/diesel oil	4 866	5 647	5 452	5 624	6 053	5 369	-11.3%
Residual fuel oil	6 326	7 510	7 361	7 188	7 456	7 095	-4.8%
Total imports	4 208	3 255	3 397	4 200	4 751	5 800	22.1%
Total exports	3 540	3 944	3 779	3 723	4 728	4 782	1.1%
Bunkers	3 190	3 686	3 584	3 222	3 297	3 332	1.1%
Stock changes	665	-242	263	-505	137	-66	-148.2%
Gross inland consumption	-1 857	-4 617	-3 703	-3 110	-3 050	-2 380	-22.0%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	109	196	19	136	89	110	23.6%
United Kingdom	73	17	28	59	31	44	41.9%
Norway	-	-	-	-	-	-	-
OPEC	761	491	464	358	523	641	22.6%
Imports by product							
<i>among which:</i>							
Motor spirit	477	415	116	514	749	1 059	41.4%
Kerosene and jet fuel	306	97	261	31	295	240	-18.6%
Gas/diesel oil	2 738	2 013	2 435	2 993	3 003	3 672	22.3%
Residual fuel oil	298	174	169	36	184	171	-7.1%
Exports by product							
<i>among which:</i>							
Motor spirit	653	1 011	678	809	942	1 216	29.1%
Kerosene and jet fuel	930	755	965	523	869	573	-34.1%
Gas/diesel oil	586	576	794	891	1 102	1 164	5.6%
Residual fuel oil	280	220	255	564	649	748	15.3%
<b>Consumption</b>							
Inputs to electricity plants	1 945	2 109	1 934	2 001	2 021	1 861	-7.9%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	451	640	685	737	739	792	7.2%
Final energy consumption	12 480	12 407	12 824	13 165	14 070	13 739	-2.4%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	560	504	500	500	550	227	-58.7%
Residual fuel oil	769	882	830	847	778	801	3.0%

 eurostat	ELLADA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	49	51	52	53	54	25	-53.7%	
Non-ferrous metals	325	272	272	277	279	269	-3.6%	
Chemical industry	149	155	146	139	133	169	27.1%	
Non-met. mineral prod.	412	465	506	570	569	697	22.5%	
Food, drink, tobacco	264	290	272	270	291	216	-25.8%	
Pulp, paper and print	98	113	98	97	98	59	-39.8%	
Engineering & metal	33	35	34	34	30	26	-13.3%	
Other industries	471	424	432	442	460	262	-43.0%	
<b>Transport</b>	7 243	6 964	7 127	7 210	7 540	7 698	2.1%	
<i>among which:</i>								
Motor spirit	3 165	3 230	3 336	3 493	3 650	3 730	2.2%	
Jet fuel	1 250	1 290	1 160	1 124	1 131	1 176	4.0%	
Diesel oil	2 217	2 193	2 280	2 295	2 441	2 406	-1.4%	
<b>Services &amp; households etc.</b>	3 242	3 428	3 694	3 878	4 464	4 189	-6.2%	
<i>among which:</i>								
Gas oil	3 055	3 253	3 510	3 718	4 311	4 001	-7.2%	
Residual fuel oil	28	28	34	35	36	44	22.2%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	1 431	1 535	1 685	1 996	1 560	2 602	66.8%	
Petroleum products	2 042	2 284	2 021	2 526	2 389	2 455	2.8%	


## 5. Natural gas

 eurostat	ELLADA							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		117	1 968	1 870	1 973	1 442	1 337	-7.3%
Total imports		56 575	78 551	77 680	81 622	93 138	101 125	8.6%
Total exports		-	-	-	-	-	-	-
Stock changes		-32	-1 224	-1 255	192	-319	1 220	482.4%
Gross inland consumption		56 660	79 295	78 295	83 787	94 261	103 682	10.0%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		56 575	58 257	57 470	61 255	70 610	82 524	16.9%
Algeria		-	20 294	20 210	20 367	22 528	18 601	-17.4%
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		40 311	59 553	58 848	62 699	69 017	74 390	7.8%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		59	1 552	1 461	1 624	1 479	1 706	15.3%
Distribution losses		36	568	466	27	64	235	267.2%
Non-energy use		6 951	5 636	2 754	3 369	5 750	6 106	6.2%
Industry		8 842	11 341	13 672	14 376	15 281	17 336	13.4%
<i>among which:</i>								
Iron&steel industry		2 302	2 572	2 956	3 069	2 751	3 057	11.1%
Non-ferrous metals		1 215	1 830	1 651	1 858	2 407	2 510	4.3%
Chemical industry		372	347	405	778	1 001	1 332	33.1%
Non-met. mineral prod.		1 319	1 820	2 997	3 145	2 773	3 078	11.0%
Food, drink, tobacco		2 475	2 925	2 441	2 520	3 191	3 818	19.6%
Pulp, paper and print		297	561	891	1 151	1 289	1 445	12.1%
Engineering & metal		62	46	162	55	66	95	43.9%
Other industries		-	241	792	547	404	619	53.2%
Transport		-	-	284	449	495	493	-0.4%
Services & households etc.		526	626	810	1 243	2 157	3 636	68.6%
<i>among which:</i>								
Households		181	226	243	398	870	1 612	85.3%
Services		345	400	567	845	1 287	2 024	57.3%


## 6.1 Hard coal


 eurostat	ELLADA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	1 203	1 245	1 363	991	747	814	9.0%	
Total exports	75	59	49	8	60	22	-63.3%	
Stock changes	-96	-65	-86	-19	146	-16	-111.0%	
Gross inland consumption	1 032	1 121	1 228	964	833	776	-6.8%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
CIS	231	364	669	400	244	546	123.8%	
Australia	-	110	141	-	-	-	-	-
South Africa	462	447	40	305	-	-	-	-
Colombia	187	-	142	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants	5	6	2	10	39	-	-	-
Inputs to heat plants	-	-	-	-	-	-	-	-
Consumption of energy branch	-	-	-	-	-	-	-	-
Industry	1 027	1 115	1 226	952	791	772	-2.4%	
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	-
Non-ferrous metals	64	69	141	160	160	147	-8.1%	
Chemical industry	-	-	-	-	-	-	-	-
Non-met. mineral prod.	963	1 046	1 085	792	631	625	-1.0%	
Food, drink, tobacco	-	-	-	-	-	-	-	-
Pulp, paper and print	-	-	-	-	-	-	-	-
Engineering & metal	-	-	-	-	-	-	-	-
Other industries	-	-	-	-	-	-	-	-
Services & households etc.	-	-	-	2	3	4	33.3%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	-
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	-

## 6.2 Coal derivatives and peat

 eurostat	ELLADA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	62 051	63 887	66 344	70 468	68 299	70 041	2.6%
Brown coal briquettes	73	141	138	179	209	189	-9.6%
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	1	-	4	3	4	4	0.0%
<i>among which:</i>							
Iron & steel industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	310	464	250	262	195	199	2.1%
<i>among which:</i>							
Industry	235	381	172	262	195	195	0.0%
Services & households	75	83	78	-	-	4	
Brown coal briquettes	34	117	116	169	117	105	-10.3%
<i>among which:</i>							
Industry	-	79	80	105	107	97	-9.3%
Services & households	34	38	36	64	10	8	-20.0%
<b>Total derived gases</b>	<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

		ELLADA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	1 442	1 403	1 318	1 396	1 548	1 560	0.7%
Hydro (excl. pumping)		416	318	180	241	410	402	-2.0%
Wind		14	39	65	56	88	96	9.8%
Solar		97	99	100	102	104	108	3.3%
Geothermal		2	2	2	1	1	1	-2.1%
Biomass		913	946	970	996	945	953	0.8%
	<i>among which:</i>							
Wood, wood-waste		911	945	938	948	909	917	0.8%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		1	1	33	48	36	36	1.0%
Gross inland consumption		1 442	1 403	1 318	1 396	1 548	1 560	0.7%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		2	0	31	47	31	32	3.3%
	<i>among which:</i>							
Wood, wood-waste		1	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		1	0	31	47	31	32	3.3%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	1 010	1 046	1 042	1 053	1 020	1 029	0.8%
	<i>by sector:</i>							
Industry		208	241	236	246	202	207	2.4%
Services & households etc.		801	805	806	806	818	821	0.5%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		911	946	939	949	915	920	0.6%
	<i>among which:</i>							
Wood, wood-waste		911	945	938	948	909	917	0.8%
Municipal waste		-	-	-	-	-	-	-
Biogas		0	1	2	2	5	3	-37.7%
Geothermal		2	2	2	1	1	1	-2.1%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	1	-
Hydro with installed capacity < 1 MW		18	26	40	58	76	91	19.7%
Hydro with installed capacity > 1 & <10 MW		164	140	95	92	169	212	25.4%
Hydro with installed capacity > 10 MW		4 446	3 527	1 962	2 650	4 521	4 369	-3.4%
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		2	1	79	126	105	123	17.1%

	ELLADA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	1	1	1	1	0.0%
Hydro with installed capacity < 1 MW	7	14	15	17	19	23	21.1%
Hydro with installed capacity > 1 & <10 MW	42	42	45	45	50	59	18.0%
Hydro with installed capacity > 10 MW	2 437	2 317	2 317	2 317	2 311	2 318	0.3%
Wood, Wood-waste	48	35	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	1	22	22	22	24	9.1%
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	2 440	2 941	2 992	3 050	3 140	3 246	3.4%

# 1. Energy economy


## Key figures and energy indicators

		ESPAÑA					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	30 305	31 189	32 918	31 594	33 094	32 399
Net energy imports		94 427	98 351	98 763	107 041	107 759	114 056
Net oil imports		68 150	69 866	71 552	73 275	73 704	75 527
Net gas imports		13 903	15 467	15 827	18 929	21 168	24 615
Gross inland energy consumption		117 567	122 698	126 246	129 887	134 285	140 246
Final energy consumption		74 271	79 422p	83 286p	85 405p	90 263p	94 317p
Industry		22 343	25 474p	27 152p	28 101p	29 544p	30 660p
Transport		31 890	32 858	34 243	34 882p	36 731	38 398
Services and households etc.		20 037	21 090	21 891	22 422p	23 989	25 260
Gross electricity generation	GWh	209 030	225 148	237 991	246 079	262 860	279 953
Final electricity consumption		177 252	188 459	200 953	206 535	219 988	230 669
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	531 429	558 225	578 010	593 503	611 298	630 215
Population	1000 per.	39 803	40 050	40 477	40 964	41 664	42 345
Industry added value	Mio EUR	146 708	153 512	159 902	163 698	167 126	170 212
Total imports (current prices)	Mio EUR	164 444	182 180	189 745	197 083	208 865	228 321
among which:							
All energy commodities		8 953	20 377	19 306	18 905	19 113	23 305
Oil products		7 000	16 184	14 669	14 164	14 583	18 067
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	221.2	219.8	218.4	218.8	219.7	222.5
Final energy consumption / GDP(95)		139.8	142.3	144.1	143.9	147.7	149.7
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		152.3	165.9	169.8	171.7	176.8	180.1
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		19.3	20.3	20.6	20.7	21.2	20.4
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	2 954	3 064	3 119	3 171	3 223	3 312
Final energy consumption / capita		1 866	1 983	2 058	2 085	2 166	2 227
Household consumption / capita		296	296	308	312	330	339
Final electricity consumption / capita	kWh/cap.	4 453	4 706	4 965	5 042	5 280	5 447
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	76.5	76.5	74.3	78.3	76.3	77.4
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	63.2	64.7	66.0	65.8	67.2	67.3
Efficiency of thermal power stations		40.2	41.4	42.5	42.6	43.4	44.7




## 2. Energy balance

### Principal aggregates by product


 eurostat	ESPAÑA						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	30 305	31 189	32 918	31 594	33 094	32 399	-2.1%
among which:							
Hard coal	7 005	6 544	6 148	5 756	5 368	5 135	-4.3%
Lignite and peat	1 561	1 197	1 210	1 693	1 607	1 318	-18.0%
Crude oil	297	225	336	315	319	252	-20.8%
Natural Gas	131	148	471	467	197	310	57.4%
Nuclear heat	15 181	16 046	16 434	16 255	15 961	16 407	2.8%
Hydro-electricity	1 966	2 534	3 527	1 981	3 530	2 713	-23.1%
Biomass	3 894	4 049	4 149	4 328	5 018	4 853	-3.3%
<b>Imports</b>							
Total	102 084	106 789	105 996	114 084	115 784	123 600	6.8%
among which:							
Hard coal	12 061	13 049	11 412	14 665	13 140	14 730	12.1%
Crude oil and feedstocks	58 562	58 393	57 486	57 457	57 423	58 836	2.5%
Petroleum products	16 448	18 731	20 298	21 815	23 086	24 605	6.6%
Natural Gas	13 903	15 467	15 827	18 929	21 168	24 615	16.3%
Electricity	1 028	1 055	875	1 075	819	697	-14.8%
<b>Exports</b>							
Total	7 657	8 438	7 233	7 043	8 025	9 543	18.9%
among which:							
Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	6 860	7 258	6 232	5 998	6 805	7 915	16.3%
Natural gas	-	-	-	-	-	-	-
Electricity	537	673	578	617	710	958	34.9%
<b>Gross inland consumption</b>							
Total	117 567	122 698	126 246	129 887	134 285	140 246	4.4%
among which:							
Solid fuels	20 092	20 643	18 456	21 686	20 164	21 096	4.6%
Crude oil and petrol. prod.	62 225	63 223	66 184	65 628	67 056	68 854	2.7%
Natural gas	13 289	15 219	16 400	18 751	21 353	25 172	17.9%
Nuclear Energy	15 181	16 046	16 434	16 255	15 961	16 407	2.8%
Renewables	6 130	7 029	8 320	7 108	9 642	8 977	-6.9%
<b>Transformation input</b>							
Total	105 487	105 586	102 033	107 397p	105 519	111 120	5.3%
among which:							
Crude oil and feedstocks	60 968	60 048	58 020	58 264	57 633	59 436	3.1%
Petroleum products	5 145	4 602	5 096	5 701p	4 932	5 025	1.9%
Hard coal	18 314	19 210	16 504	19 523	18 148	19 135	5.4%
Lignite and peat	1 510	1 451	1 503	1 544	1 391	1 561	12.2%
Renewables	501	619	707	764	1 392	1 149	-17.5%
<b>Transformation output</b>							
Total	78 590	78 428p	76 416p	78 646p	77 502p	81 510p	5.2%
among which:							
Electricity	15 552	16 218	16 093	18 142	17 789	19 774	11.2%
Heat	74	74p	0p	0p	0p	0p	

		1999	2000	2001	2002	2003	2004	04/03
<b>Final energy consumption</b>								
Total		74 271	79 422p	83 286p	85 405p	90 263p	94 317p	4.5%
<i>among which:</i>	Solid fuels	1 697	1 671	1 797	1 801	1 833	1 870	2.0%
	Petroleum products	43 852	45 773	47 231	48 146p	50 144	52 084	3.9%
	Natural Gas	9 633	11 819	13 009	13 697	15 322	16 372	6.9%
	Renewables	3 426	3 465	3 483	3 609	3 675	3 762	2.4%
	Electricity	15 241	16 205	17 279	17 759	18 916	19 834	4.9%
<b>Final energy consumption by sector</b>								
<b>Industry</b>								
Total		22 343	25 474p	27 152p	28 101p	29 544p	30 660p	3.8%
<i>among which:</i>	Solid fuels	1 546	1 607	1 741	1 734	1 751	1 702	-2.8%
	Petroleum Products	5 170	5 647	5 887	6 323p	6 024	6 164	2.3%
	Natural Gas	7 261	9 151	9 993	10 349	11 626	12 348	6.2%
	Renewables	1 401	1 302	1 314	1 346	1 347	1 358	0.8%
	Electricity	6 574	7 364	7 762	7 987	8 456	8 730	3.2%
<b>Transport</b>								
Total		31 890	32 858	34 243	34 882p	36 731	38 398	4.5%
<i>among which:</i>	Motor spirit	9 393	8 969	8 924	8 638p	8 461	8 117	-4.1%
	Diesel oil	17 681	18 676	20 039	21 051p	22 762	24 293	6.7%
	Jet fuel	4 198	4 486	4 526	4 294p	4 506	4 996	10.9%
	Electricity	307	358	392	412	441	450	2.2%
<b>Services&amp;households</b>								
Total		20 037	21 090	21 891	22 422p	23 989	25 260	5.3%
<i>among which:</i>	Solid fuels	151	64	55	67	82	167	105.3%
	Gas oil	4 349	5 099	5 139	5 039p	5 599	5 820	4.0%
	Natural Gas	2 362	2 658	3 005	3 347	3 696	4 024	8.9%
	Renewables	2 025	2 098	2 103	2 111	2 119	2 156	1.7%
	Electricity	8 361	8 483	9 125	9 360	10 019	10 654	6.3%
	Heat	-	-	-	-	-	-	-


### 3.1 Electricity balance

 eurostat	ESPAÑA							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation	209 030	225 148	237 991	246 079	262 860	279 953	6.5%	
<i>among which:</i>								
Hydro	25 437	31 807	43 858	26 388	43 897	34 439	-21.5%	
Wind	2 744	4 724	6 966	8 704	12 075	15 601	29.2%	
Geothermal	-	-	-	-	-	-	-	
Nuclear	58 852	62 206	63 708	63 016	61 875	63 606	2.8%	
Conventional thermal	121 997	126 411	123 459	147 971	145 013	166 307	14.7%	
<i>of which:</i>								
Hard coal	66 788	72 886	64 006	74 627	68 817	73 114	6.2%	
Lignite and peat	6 821	6 210	6 419	6 555	5 905	5 991	1.5%	
Petroleum products	24 445	22 640	24 596	28 593	24 002	23 839	-0.7%	
Natural gas	19 058	21 074	23 272	32 386	39 368	55 460	40.9%	
Derived gases	1 761	1 386	1 392	1 275	1 233	1 217	-1.3%	
Biomass	1 774	1 824	1 964	2 970	4 265	3 029	-29.0%	
Industrial wastes	1 350	391	1 810	1 565	1 423	3 657	157.0%	
Total net generation	199 217	215 216	228 186	235 345	252 299	268 687	6.5%	
<b>Imports and exports</b>								
Total imports	11 959	12 268	10 177	12 504	9 520	8 111	-14.8%	
Total exports	6 240	7 827	6 727	7 175	8 257	11 139	34.9%	
<b>Consumption and losses</b>								
Consumption of the energy branch	15 316	18 752	17 443	20 696	18 764	19 355	3.1%	
<i>of which:</i>								
Consumption for pumped-storage	1 103	2 570	1 294	3 606	1 835	1 720	-6.3%	
Network losses	19 624	20 041	20 208	20 827	22 527	24 070	6.8%	
Final energy consumption	177 252	188 459	200 953	206 535	219 988	230 669	4.9%	
<i>of which:</i>								
Industry	76 452	85 640	90 267	92 890	98 345	101 525	3.2%	
<i>among which:</i>								
Iron&steel industry	13 265	14 732	15 921	16 228	17 157	17 210	0.3%	
Non-ferrous metals	9 001	9 291	10 226	10 484	10 884	11 572	6.3%	
Chemical industry	10 679	12 800	12 368	12 111	12 646	13 172	4.2%	
Non-met. mineral prod.	8 793	9 613	10 939	11 026	12 059	12 256	1.6%	
Food, drink, tobacco	7 653	8 973	8 641	9 183	10 051	10 641	5.9%	
Pulp, paper and print	5 479	3 769	6 676	6 898	7 307	7 663	4.9%	
Engineering & metal	8 634	9 668	10 167	10 489	10 940	11 331	3.6%	
Other industries	7 416	11 295	9 209	10 114	11 332	11 725	3.5%	
Transport	3 566	4 163	4 558	4 794	5 124	5 235	2.2%	
Services & households etc.	97 234	98 656	106 128	108 851	116 519	123 909	6.3%	
<i>among which:</i>								
Households	45 443	43 619	49 685	50 636	54 235	58 046	7.0%	


## 3.2 Electrical capacity, fuel inputs and heat


	ESPAÑA							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	51 354	53 980	55 695	60 195	69 168	69 392	0.3%
<i>by source:</i>								
Conventional thermal		25 644	26 243	26 915	29 941	37 310	35 477	-4.9%
<i>of which:</i>								
Steam		20 603	21 098	21 770	21 343	22 000p	20 167p	-8.3%
Gas turbine		1 419	1 535	1 535	1 755	1 800p	1 800p	0.0%
Combined cycle		1 530	1 181	1 181	4 109	10 010p	10 010p	0.0%
Internal combustion		2 092	2 429	2 429	2 734	3 500p	3 500p	0.0%
Nuclear		7 354	7 503	7 519	7 577	7 581	7 577	-0.1%
Hydro		16 897	17 960	18 017	17 879	18 043	18 118	0.4%
<i>among which:</i>								
Pumped storage		5 095	5 288	5 288	2 518	5 361	2 518	-53.0%
Wind		1 459	2 274	3 244	4 798	6 234	8 220	31.9%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		47 738	48 801	50 411	54 271	62 425	62 201p	-0.4%
Autoproducers		4 684	4 740	5 109	5 924	6 481	6 481p	0.0%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	26 298	26 461	24 972	29 849p	28 717	32 033	11.5%
<i>among which:</i>								
Hard coal		15 896	16 798	14 436	17 007	15 444	16 339	5.8%
Lignite and peat		1 510	1 451	1 503	1 544	1 391	1 561	12.2%
Petroleum products		4 981	4 442	5 074	5 679p	4 847	5 004	3.2%
Natural gas		2 963	2 685	2 810	4 501	5 327	7 701	44.6%
Renewables		501	619	707	764	1 392	1 149	-17.5%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	74	74p	0p	0p	0p	0p	
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		74	74p	0p	0p	0p	0p	
<i>of which: in industry</i>								
		74	74p	0p	0p	0p	0p	
<i>in households and services</i>								
		-	-	-	-	-	-	-
<i>among which: in households</i>								
		-	-	-	-	-	-	-

## 4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	ESPAÑA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		299	227	338	316	322	255	-20.8%
Total imports		58 911	58 782	57 833	57 694	57 998	59 452	2.5%
Total exports		-	-	-	-	-	-	-
Stock changes		529	-791	224	-374	-611	174	128.5%
Refinery intake		61 297	60 404	58 349	58 489	58 203	60 060	3.2%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		34 011	35 607	22 400	29 634	29 181	31 366	7.5%
Near and Middle East		18 463	17 157	14 248	13 523	13 107	16 143	23.2%
Africa		21 794	22 804	23 636	18 636	21 923	21 036	-4.0%
<i>by country of origin:</i>								
Algeria		1 485	1 476	1 571	1 058	1 502	2 009	33.8%
Nigeria		8 679	9 165	8 678	5 278	6 456	6 238	-3.4%
Saudi Arabia		6 275	6 628	6 291	6 750	6 994	6 867	-1.8%
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		249	249	420	910	2 553	3 494	36.9%
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	64 380	66 700	:	:	:	:	
<i>among which:</i>								
Cracking and others		23 930	20 700	:	:	:	:	
Reforming		8 520	7 800	:	:	:	:	

## 4.2 Petroleum products

 eurostat	ESPAÑA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output	60 841	59 830	57 806	57 931	57 640	59 483	3.2%	
<i>among which:</i>								
Motor spirit	9 437	9 616	9 272	8 871	9 059	10 434	15.2%	
Kerosene and jet fuel	4 272	4 118	4 002	3 830	4 793	6 682	39.4%	
Naphtha	3 102	3 358	3 076	3 000	1 917	521	-72.8%	
Gas/diesel oil	20 368	20 066	20 177	20 820	21 631	21 563	-0.3%	
Residual fuel oil	14 126	13 080	11 784	12 122	10 130	9 125	-9.9%	
Total imports	16 991	19 557	21 194	22 645	23 988	25 441	6.1%	
Total exports	6 926	7 367	6 223	5 926	6 802	7 970	17.2%	
Bunkers	6 033	6 150	6 884	7 059	7 191	7 419	3.2%	
Stock changes	-969	-150	712	-805	610	46	-92.5%	
Gross inland consumption	3 063	5 890	8 799	8 855	10 605	10 098	-4.8%	
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands	657	473	493	926	766	1 189	55.2%	
United Kingdom	1 379	972	996	1 495	2 112	2 152	1.9%	
Norway	123	193	123	350	166	233	40.4%	
OPEC	2 277	5 667	4 042	4 552	4 221	4 006	-5.1%	
Imports by product								
<i>among which:</i>								
Motor spirit	886	938	933	967	982	748	-23.8%	
Kerosene and jet fuel	424	550	815	821	860	943	9.7%	
Gas/diesel oil	6 749	7 244	8 055	9 342	10 800	11 830	9.5%	
Residual fuel oil	2 235	2 756	3 297	3 718	3 499	3 940	12.6%	
Exports by product								
<i>among which:</i>								
Motor spirit	1 612	2 374	2 291	2 174	1 888	2 588	37.1%	
Kerosene and jet fuel	250	180	134	247	349	166	-52.4%	
Gas/diesel oil	729	848	572	783	747	656	-12.2%	
Residual fuel oil	1 400	1 054	876	328	992	1 431	44.3%	
<b>Consumption</b>								
Inputs to electricity plants	5 193	4 631	5 266	5 900p	5 036	5 186	3.0%	
Inputs to heating plants	-	-	-	-	-	-	-	
Non-energy use	8 532	9 092	9 372	8 667p	9 045	8 770	-3.0%	
Final energy consumption	43 596	45 629	47 170	48 192p	50 069	52 056	4.0%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	925	1 136	1 208	1 184p	1 318	1 369	3.9%	
Residual fuel oil	1 862	1 743	1 649	1 873p	1 735	1 568	-9.6%	


 eurostat	ESPAÑA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	425	538	540	525p	533	565	6.0%	
Non-ferrous metals	144	152	145	159p	151	145	-4.0%	
Chemical industry	772	767	770	785p	731	771	5.5%	
Non-met. mineral prod.	2 532	2 903	3 217	2 970p	3 165	3 429	8.3%	
Food, drink, tobacco	587	599	612	653p	661	644	-2.6%	
Pulp, paper and print	313	301	285	315p	289	280	-3.1%	
Engineering & metal	394	451	438	438p	458	465	1.5%	
Other industries	403	427	458	480p	576	482	-16.3%	
<b>Transport</b>	30 830	31 684	33 022	33 576p	35 326	36 930	4.5%	
<i>among which:</i>								
Motor spirit	8 938	8 534	8 492	8 219p	8 051	7 724	-4.1%	
Jet fuel	4 087	4 368	4 407	4 181p	4 387	4 864	10.9%	
Diesel oil	17 500	18 485	19 834	20 836p	22 530	24 045	6.7%	
<b>Services &amp; households etc.</b>	6 885	7 476	7 357	7 296p	7 828	7 999	2.2%	
<i>among which:</i>								
Gas oil	4 305	5 047	5 087	4 988p	5 542	5 761	4.0%	
Residual fuel oil	491	440	419	463p	474	389	-17.9%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	4 449	5 240	1 000	6 159	6 770	6 596	-2.6%	
Petroleum products	10 484	10 634	9 922	10 727	10 117	10 071	-0.5%	

## 5. Natural gas


 eurostat	in TJ (GCV)	ESPAÑA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		6 084	6 883	21 904	21 718	9 149	14 398	57.4%
Total imports		646 766	719 516	736 262	880 596	984 756	1 145 112	16.3%
Total exports		-	-	-	-	-	-	-
Stock changes		-34 630	-18 407	4 758	-30 009	-565	11 478	2131.5%
Gross inland consumption		618 220	707 992	762 924	872 305	993 340	1 170 988	17.9%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		416 533	433 743	406 272	514 858	565 396	587 007	3.8%
Norway		96 406	96 681	96 586	95 133	97 848	93 200	-4.8%
<b>Consumption</b>								
Inputs to electricity plants		137 847	124 891	130 702	209 401	247 807	358 255	44.6%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		837	837	-	-	-	-	-
Distribution losses		11 413	10 367	5 116	5 037	6 287	7 368	17.2%
Non-energy use		20 000	22 070	21 915	20 704	21 914	20 477	-6.6%
Industry		337 767	425 685	464 895	481 431	540 839	574 421	6.2%
<i>among which:</i>								
Iron&steel industry		31 426	39 028	55 615	49 062	57 588	71 667	24.4%
Non-ferrous metals		6 076	7 546	12 818	21 877	15 365	18 989	23.6%
Chemical industry		62 987	84 434	73 457	90 456	87 115	109 789	26.0%
Non-met. mineral prod.		106 251	131 954	152 103	122 969	166 947	143 590	-14.0%
Food, drink, tobacco		34 841	43 269	53 248	65 166	60 398	59 146	-2.1%
Pulp, paper and print		38 542	47 866	28 171	39 148	60 188	44 584	-25.9%
Engineering & metal		26 006	32 298	47 539	36 940	48 831	49 075	0.5%
Other industries		3 549	4 407	19 558	30 365	21 596	55 329	156.2%
Transport		483	483	500	32	-	-	-
Services & households etc.		109 873	123 659	139 796	155 701	171 938	187 196	8.9%
<i>among which:</i>								
Households		81 519	91 748	104 156	116 871	136 792	140 062	2.4%
Services		24 575	27 658	33 838	36 471	32 539	14 221	-56.3%




## 6.1 Hard coal


 eurostat	ESPAÑA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	15 435	14 947	13 960	13 308	12 583	12 334	-2.0%	
Total imports	20 198	21 649	18 916	24 514	21 552	24 473	13.6%	
Total exports	-	-	22	17	-	-	-	
Stock changes	-849	655	115	-302	751	828	10.3%	
Gross inland consumption	34 800	37 251	32 969	37 503	34 886	37 635	7.9%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	2 355	2 497	1 884	1 904	1 479	2 007	35.7%	
Poland	542	313	293	240	24	142	491.7%	
CIS	1 395	1 600	1 891	2 465	2 097	3 768	79.7%	
Australia	2 255	3 015	3 498	3 721	3 805	3 263	-14.2%	
South Africa	8 666	9 180	7 147	10 765	8 835	10 195	15.4%	
Colombia	740	1 112	395	1 622	1 478	972	-34.2%	
<b>Consumption</b>								
Inputs to electricity plants	29 979	32 427	27 745	32 402	29 793	31 864	7.0%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	10	104	35	62	60	60	0.0%	
Industry								
<i>among which:</i>								
Iron&steel industry	709	681	764	689	542	649	19.7%	
Non-ferrous metals	8	-	-	-	-	-	-	
Chemical industry	75	60	265	268	262	260	-0.8%	
Non-met. mineral prod.	264	222	298	243	209	148	-29.2%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	5	-	-	-	-	-	-	
Engineering & metal	6	-	-	-	-	-	-	
Other industries	-	250	100	100	100	100	0.0%	
Services & households etc.	274	116	101	120	150	270	80.0%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	16.9	16.7	15.8	12.2	11.0	9.0	-18.2%	
Number of active hard coal mines (end of year)	106	95	91	89	:	:		

## 6.2 Coal derivatives and peat

 eurostat	ESPAÑA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	2 331	2 470	2 648	2 627	2 494	2 839	13.8%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	8 832	8 524	8 718	8 726	7 979	8 147	2.1%
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	17 300	19 864	22 529	22 258	22 368	21 857	-2.3%
Blast-furnace gas	19 196	19 215	21 671	20 583	17 562	17 845	1.6%
Gasworks gas	1 385	3 983	1 553	1 520	1 599	1 779	11.3%
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	1 409	1 249	1 250	1 356	1 409	1 317	-6.5%
<i>among which:</i>							
Iron & steel industry	1 294	1 099	1 034	1 123	1 050	1 120	6.7%
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	-	-	-	-	-	-	-
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	3 240	3 733	7 105	7 057	7 308	7 935	8.6%
Blast-furnace gas	6 515	6 521	8 727	8 288	7 118	7 350	3.3%
Gasworks gas	1 385	3 983	1 553	1 520	1 599	1 779	11.3%
Inputs to electricity plants	16 151	17 027	15 909	15 269	13 703	12 048	-12.1%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	10 290	11 493	10 918	10 713	10 819	10 836	0.2%
Consumption in industry	9 755	10 254	15 832	15 345	14 426	15 285	6.0%


## 7. Renewable energy sources

		ESPANA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	6 130	7 029	8 320	7 108	9 642	8 977	-6.9%
Hydro (excl. pumping)		1 966	2 534	3 527	1 981	3 530	2 713	-23.1%
Wind		236	406	599	748	1 038	1 341	29.2%
Solar		29	32	37	43	48	62	29.1%
Geothermal		5	8	8	8	8	8	0.0%
Biomass		3 894	4 049	4 149	4 328	5 018	4 853	-3.3%
	<i>among which:</i>							
Wood, wood-waste		3 606	3 623	3 671	3 812	4 062	4 026	-0.9%
Municipal solid waste		199	229	279	195	491	326	-33.7%
Biogas		90	131	134	170	257	253	-1.3%
Gross inland consumption		6 130	7 029	8 320	7 108	9 642	8 977	-6.9%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		501	619	707	764	1 392	1 149	-17.5%
	<i>among which:</i>							
Wood, wood-waste		212	284	319	428	673	599	-11.1%
Municipal waste		199	229	279	195	491	326	-33.7%
Biogas		90	106	109	141	228	224	-1.5%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	3 426	3 465	3 483	3 609	3 675	3 762	2.4%
	<i>by sector:</i>							
Industry		1 401	1 302	1 314	1 346	1 347	1 358	0.8%
Services & households etc.		2 025	2 098	2 103	2 111	2 119	2 156	1.7%
Transport		-	65	65	152	209	248	18.7%
	<i>by source:</i>							
Biomass		3 394	3 427	3 439	3 561	3 623	3 700	2.1%
	<i>among which:</i>							
Wood, wood-waste		3 394	3 337	3 349	3 380	3 385	3 424	1.1%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	25	25	29	29	29	0.0%
Geothermal		5	8	8	8	8	8	0.0%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		17	18	24	30	41	102	148.8%
Hydro with installed capacity < 1 MW		601	479	496	414	647	696	7.6%
Hydro with installed capacity > 1 & <10 MW		3 289	3 957	4 418	3 614	4 699	4 502	-4.2%
Hydro with installed capacity > 10 MW		18 973	21 929	36 113	16 184	30 540	27 019	-11.5%
Wood, Wood-waste		917	841	969	1 831	2 116	1 353	-36.1%
Municipal waste		660	667	667	667	1 392	852	-38.8%
Biogas		197	316	328	472	758	825	8.8%

	ESPANA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	9	12	16	20	27	36	33.3%
Hydro with installed capacity < 1 MW	227	228	235	238	244	249	2.0%
Hydro with installed capacity > 1 & <10 MW	1 303	1 339	1 383	1 414	1 445	1 500	3.8%
Hydro with installed capacity > 10 MW	11 193	11 105	11 126	11 126	11 053	13 851	25.3%
Wood, Wood-waste	138	150	167	285	331	344	3.9%
Municipal waste	94	94	94	94	163	189	16.0%
Biogas	34	50	51	73	125	141	12.8%
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	80	80	187	257	305	18.7%
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	362	403	455	515	610	697	14.3%


# 1. Energy economy

## Key figures and energy indicators

		FRANCE					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	126 347	130 579	131 648	133 106	134 568	135 591
Net energy imports		131 541	133 463	135 914	136 833	138 052	139 757
Net oil imports		89 767	90 452	95 648	93 948	94 232	94 139
Net gas imports		34 808	35 778	34 952	36 741	37 599	37 757
Gross inland energy consumption		254 244	258 478	266 213	266 186	270 371	273 700
Final energy consumption		150 719	151 624	158 820	154 391	158 008	157 903
Industry		35 581	36 067	38 064	37 751	37 393	35 891
Transport		49 732	51 599	51 787	51 731	51 263	50 136
Services and households etc.		65 406	63 958	68 970	64 910	69 351	71 876
Gross electricity generation	GWh	523 985	540 668	550 488	559 197	566 949	572 241
Final electricity consumption		374 677	385 111	395 489	393 230	408 248	415 880
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	1 330 918	1 385 073	1 413 487	1 430 752	1 442 221	1 475 653
Population	1000 per.	58 497	58 797	59 143	59 501	59 856	60 200
Industry added value	Mio EUR	310 123	305 298	312 602	313 145	314 971	319 869
Total imports (current prices)	Mio EUR	341 142	392 078	400 637	407 458	410 317	438 552
among which:							
All energy commodities		17 784	32 629	31 488	29 398	31 081	37 813
Oil products		13 530	25 910	23 541	21 865	22 726	28 285
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	191.0	186.6	188.3	186.0	187.5	185.5
Final energy consumption / GDP(95)		113.2	109.5	112.4	107.9	109.6	107.0
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		114.7	118.1	121.8	120.6	118.7	112.2
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		26.6	25.3	27.1	25.3	27.2	28.1
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	4 346	4 396	4 501	4 474	4 517	4 547
Final energy consumption / capita		2 577	2 579	2 685	2 595	2 640	2 623
Household consumption / capita		678	654	699	649	687	695
Final electricity consumption / capita	kWh/cap.	6 405	6 550	6 687	6 609	6 821	6 908
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	51.2	51.0	50.5	50.9	50.5	50.5
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	59.3	58.7	59.7	58.0	58.4	57.7
Efficiency of thermal power stations		38.2	36.3	40.4	38.5	38.5	34.8

## 2. Energy balance

### Principal aggregates by product

 eurostat	FRANCE						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	126 347	130 579	131 648	133 106	134 568	135 591	0.8%
among which:							
Hard coal	2 717	1 898	1 182	889	1 037	99	-90.4%
Lignite and peat	234	123	135	62	4	-	
Crude oil	1 806	1 675	1 646	1 330	1 417	1 374	-3.1%
Natural Gas	1 670	1 505	1 510	1 450	1 282	1 108	-13.6%
Nuclear heat	101 697	107 093	108 617	112 664	113 776	115 625	1.6%
Hydro-electricity	6 271	5 823	6 460	5 257	5 134	5 179	0.9%
Biomass	11 232	11 579	11 802	11 134	11 739	12 007	2.3%
<b>Imports</b>							
Total	157 734	163 436	163 161	163 939	168 084	171 505	2.0%
among which:							
Hard coal	11 931	12 693	10 674	12 133	11 214	12 962	15.6%
Crude oil and feedstocks	82 653	86 186	87 113	80 835	86 209	85 744	-0.5%
Petroleum products	26 418	26 713	28 239	32 167	30 517	32 301	5.8%
Natural Gas	35 462	36 459	35 751	37 495	38 436	38 984	1.4%
Electricity	427	318	384	319	598	563	-5.9%
<b>Exports</b>							
Total	26 194	29 974	27 246	27 106	30 033	31 749	5.7%
among which:							
Crude oil and feedstocks	1 364	1 811	-	-	63	102	61.3%
Petroleum products	17 940	20 635	19 704	19 055	22 431	23 804	6.1%
Natural gas	655	681	799	754	837	1 227	46.6%
Electricity	5 856	6 292	6 265	6 942	6 309	5 898	-6.5%
<b>Gross inland consumption</b>							
Total	254 244	258 478	266 213	266 186	270 371	273 700	1.2%
among which:							
Solid fuels	15 364	15 240	12 532	13 773	13 933	14 058	0.9%
Crude oil and petrol. prod.	90 909	88 790	94 988	92 364	91 981	92 810	0.9%
Natural gas	34 068	35 766	37 548	37 484	39 382	39 236	-0.4%
Nuclear Energy	101 697	107 093	108 617	112 664	113 776	115 625	1.6%
Renewables	17 635	17 563	18 409	16 525	17 011	17 304	1.7%
<b>Transformation input</b>							
Total	206 914	216 750	217 580	217 091	222 683	226 167	1.6%
among which:							
Crude oil and feedstocks	86 602	90 084	91 831	85 705	89 429	89 846	0.5%
Petroleum products	1 783	1 342	975	920	1 237	1 213	-1.9%
Hard coal	11 048	11 030	9 223	9 724	10 132	10 165	0.3%
Lignite and peat	430	117	115	70	-	-	-
Renewables	1 662	1 874	2 003	2 054	2 114	2 156	2.0%
<b>Transformation output</b>							
Total	128 448	133 020	137 851	132 986	137 257	138 064	0.6%
among which:							
Electricity	38 379	40 257	40 508	42 345	43 137	43 529	0.9%
Heat	-	-	-	-	-	-	-

**Final energy consumption**

Total	150 719	151 624	158 820	154 391	158 008	157 903	-0.1%
<i>among which:</i> Solid fuels	5 780	5 775	5 241	5 010	4 917	4 813	-2.1%
Petroleum products	71 625	71 428	76 334	73 674	74 249	73 987	-0.4%
Natural Gas	30 325	30 394	32 306	31 644	33 011	32 376	-1.9%
Renewables	9 699	9 859	9 934	9 190	9 729	9 919	2.0%
Electricity	32 216	33 114	34 006	33 812	35 103	35 759	1.9%

**Final energy consumption by sector**
**Industry**

Total	35 581	36 067	38 064	37 751	37 393	35 891	-4.0%
<i>among which:</i> Solid fuels	5 034	5 154	4 633	4 585	4 498	4 405	-2.1%
Petroleum Products	4 437	4 456	7 521	6 090	6 349	6 634	4.5%
Natural Gas	11 997	12 103	12 049	13 238	12 699	10 910	-14.1%
Renewables	1 638	1 679	1 282	1 310	1 340	1 374	2.6%
Electricity	11 402	11 620	11 579	11 466	11 508	11 520	0.1%


**Transport**

Total	49 732	51 599	51 787	51 731	51 263	50 136	-2.2%
<i>among which:</i> Motor spirit	15 221	14 631	14 110	13 619	12 757	12 038	-5.6%
Diesel oil	26 581	28 679	29 480	30 019	30 435	30 264	-0.6%
Jet fuel	6 448	6 683	6 613	6 505	6 490	6 234	-3.9%
Electricity	968	1 004	1 005	1 030	1 037	1 062	2.5%

**Services&households**


Total	65 406	63 958	68 970	64 910	69 351	71 876	3.6%
<i>among which:</i> Solid fuels	745	621	608	425	420	408	-2.8%
Gas oil	15 079	13 216	15 297	14 249	14 748	15 073	2.2%
Natural Gas	18 328	18 289	20 234	18 379	20 274	21 424	5.7%
Renewables	7 782	7 852	8 327	7 556	8 064	8 216	1.9%
Electricity	19 846	20 489	21 422	21 315	22 558	23 177	2.7%
Heat	-	-	-	-	-	-	-

### 3.1 Electricity balance


 eurostat	FRANCE						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	523 985	540 668	550 488	559 197	566 949	572 241	0.9%
<i>among which:</i>							
Hydro	77 601	72 398	79 248	66 456	64 877	65 421	0.8%
Wind	37	77	131	268	391	573	46.5%
Geothermal	-	-	-	-	-	-	-
Nuclear	394 244	415 162	421 072	436 760	441 070	448 241	1.6%
Conventional thermal	52 103	53 031	50 037	55 713	60 611	58 006	-4.3%
<i>of which:</i>							
Hard coal	28 371	27 020	20 046	23 460	27 707	25 807	-6.9%
Lignite and peat	908	409	401	245	-	-	-
Petroleum products	9 952	7 479	5 460	7 239	6 625	5 855	-11.6%
Natural gas	6 933	11 193	14 027	16 208	18 210	18 353	0.8%
Derived gases	3 065	3 635	3 710	3 940	3 124	2 800	-10.4%
Biomass	2 874	3 295	3 355	4 616	4 918	5 181	5.3%
Industrial wastes	-	-	3 038	5	27	10	-63.0%
Total net generation	500 310	516 678	526 807	535 023	542 315	547 614	1.0%
<b>Imports and exports</b>							
Total imports	4 965	3 695	4 471	3 705	6 959	6 548	-5.9%
Total exports	68 108	73 174	72 861	80 739	73 373	68 588	-6.5%
<b>Consumption and losses</b>							
Consumption of the energy branch	51 661	51 470	51 224	52 713	55 364	57 030	3.0%
<i>of which:</i>							
Consumption for pumped-storage	1 626	1 924	1 698	2 177	2 127	2 133	0.3%
Network losses	29 832	29 928	31 261	30 900	31 749	32 100	1.1%
Final energy consumption	374 677	385 111	395 489	393 230	408 248	415 880	1.9%
<i>of which:</i>							
Industry	132 610	135 145	134 665	133 350	133 840	133 977	0.1%
<i>among which:</i>							
Iron&steel industry	15 284	17 152	16 714	16 162	15 561	15 975	2.7%
Non-ferrous metals	9 421	9 701	10 080	10 211	9 919	9 987	0.7%
Chemical industry	25 085	25 735	25 106	24 738	23 566	23 490	-0.3%
Non-met. mineral prod.	9 667	8 124	8 374	8 550	8 582	8 933	4.1%
Food, drink, tobacco	17 186	17 700	18 444	18 931	19 595	19 574	-0.1%
Pulp, paper and print	11 818	13 693	13 337	13 617	13 288	13 191	-0.7%
Engineering & metal	25 149	23 487	22 995	22 851	22 197	22 465	1.2%
Other industries	14 572	14 037	14 400	13 373	16 522	15 897	-3.8%
Transport	11 254	11 681	11 686	11 982	12 055	12 355	2.5%
Services & households etc.	230 813	238 285	249 138	247 898	262 353	269 548	2.7%
<i>among which:</i>							
Households	126 933	128 720	133 887	132 998	141 554	146 744	3.7%




## 3.2 Electrical capacity, fuel inputs and heat


	FRANCE							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	114 516	115 087	115 747	116 234	116 207	116 342	0.1%
<i>by source:</i>								
Conventional thermal		26 193	26 799	27 210	27 278	27 387	27 387	0.0%
<i>of which:</i>								
Steam		23 540	24 146	24 490	24 545	24 627	24 627p	0.0%
Gas turbine		2 100	2 100	2 152	2 162	2 183	2 183p	0.0%
Combined cycle		-	-	-	-	-	-	-
Internal combustion		553	553	568	571	577	577p	0.0%
Nuclear		63 183	63 183	63 183	63 273	63 363	63 363	0.0%
Hydro		25 115	25 050	25 272	25 551	25 235	25 235	0.0%
<i>among which:</i>								
Pumped storage		4 302	4 302	4 302	4 303	4 303	4 303	0.0%
Wind		25	55	82	132	222	357	60.8%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		106 219	105 543	105 798	105 922	109 556	109 693	0.1%
Autoproducers		8 546	9 795	10 203	10 393	6 899	6 899	0.0%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	11 741	12 563	10 655	12 447	13 551	14 348	5.9%
<i>among which:</i>								
Hard coal		6 277	6 114	4 524	5 392	6 047	5 714	-5.5%
Lignite and peat		430	117	115	70	-	-	-
Petroleum products		1 669	1 272	954	844	1 184	1 163	-1.7%
Natural gas		1 070	2 466	2 485	3 482	3 674	4 777	30.0%
Renewables		1 305	1 532	1 716	1 779	1 838	1 878	2.2%
Heating plants		357	342	288	275	277	278	0.6%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		357	342	288	275	277	278	0.6%
<b>Heat production and consumption</b>								
Total heat production	TJ	-	-	-	-	-	-	-
<i>among which: in heating plants</i>								
Heat consumption		-	-	-	-	-	-	-
<i>of which: in industry</i>								
in households and services		-	-	-	-	-	-	-
<i>among which: in households</i>								
		-	-	-	-	-	-	-

## 4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	FRANCE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		1 795	1 666	1 632	1 317	1 405	1 364	-2.9%
Total imports		82 145	85 698	86 362	80 058	85 465	85 129	-0.4%
Total exports		1 344	1 784	-	-	62	100	61.3%
Stock changes		-307	-427	-312	106	-1 173	19	101.6%
Refinery intake		86 042	89 536	91 012	84 860	88 641	89 182	0.6%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		42 124	39 827	34 221	30 015	34 947	34 895	-0.1%
Near and Middle East		33 589	31 608	24 836	22 958	21 075	21 504	2.0%
Africa		11 949	13 798	18 658	16 032	18 706	16 589	-11.3%
<i>by country of origin:</i>								
Algeria		2 952	3 440	4 266	3 639	5 879	6 018	2.4%
Nigeria		4 867	4 844	5 260	4 296	5 323	2 645	-50.3%
Saudi Arabia		15 069	15 226	11 345	10 568	11 245	12 552	11.6%
Kuwait		1 744	1 374	1 110	1 621	2 113	1 687	-20.2%
United Arab Emirates		-	6	255	-	-	-	-
Norway		14 843	21 141	19 371	16 226	16 189	15 599	-3.6%
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	96 240	96 450	:	:	:	:	
<i>among which:</i>								
Cracking and others		32 270	33 280	:	:	:	:	
Reforming		11 510	12 090	:	:	:	:	

## 4.2 Petroleum products


 eurostat	FRANCE						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	83 050	85 863	90 683	84 309	87 901	88 406	0.6%
<i>among which:</i>							
Motor spirit	16 171	15 487	18 273	17 026	16 946	16 936	-0.1%
Kerosene and jet fuel	6 510	6 112	6 162	5 307	5 245	5 692	8.5%
Naphtha	4 642	5 776	5 695	5 458	6 000	5 682	-5.3%
Gas/diesel oil	31 698	33 428	35 132	33 301	35 283	34 421	-2.4%
Residual fuel oil	10 799	11 068	11 291	10 626	10 919	11 887	8.9%
Total imports	26 917	26 715	28 281	32 073	30 550	32 500	6.4%
Total exports	17 994	20 676	19 686	19 172	22 477	23 858	6.1%
Bunkers	2 985	3 085	2 767	2 692	2 902	3 103	6.9%
Stock changes	1 487	-1 145	90	-1 103	-340	-134	-60.6%
Gross inland consumption	8 070	2 587	6 149	9 356	4 921	5 507	11.9%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	2 660	2 854	1 993	2 966	1 576	2 557	62.2%
United Kingdom	3 869	3 399	2 271	3 533	3 202	2 584	-19.3%
Norway	553	594	523	433	348	428	23.0%
OPEC	4 589	3 832	4 314	4 356	3 548	3 226	-9.1%
Imports by product							
<i>among which:</i>							
Motor spirit	2 029	2 489	1 715	1 744	1 082	200	-81.5%
Kerosene and jet fuel	1 704	2 228	2 551	2 734	2 643	2 694	1.9%
Gas/diesel oil	11 668	10 875	14 087	16 076	16 778	16 865	0.5%
Residual fuel oil	1 323	4 123	2 845	3 292	2 364	3 767	59.3%
Exports by product							
<i>among which:</i>							
Motor spirit	5 102	5 314	4 751	4 439	5 029	7 174	42.7%
Kerosene and jet fuel	1 335	1 207	1 231	903	894	902	0.9%
Gas/diesel oil	2 230	2 430	1 993	1 960	2 106	1 746	-17.1%
Residual fuel oil	4 332	5 382	5 699	5 693	7 084	7 998	12.9%
<b>Consumption</b>							
Inputs to electricity plants	1 746	1 330	1 000	887	1 271	1 257	-1.1%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	14 618	13 415	12 707	12 351	12 224	12 551	2.7%
Final energy consumption	70 390	70 104	75 431	72 674	73 064	72 860	-0.3%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	1 092	1 236	1 318	1 202	1 141	1 479	29.6%
Residual fuel oil	1 803	1 741	1 885	1 845	1 691	1 730	2.3%

 eurostat	FRANCE							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		111	146p	193	113	20	11	-45.0%
Non-ferrous metals		271	322p	76	60	64	65	1.6%
Chemical industry		391	422p	3 275	1 998	2 378	2 235	-6.0%
Non-met. mineral prod.		1 673	1 412p	1 738	1 454	1 339	1 460	9.0%
Food, drink, tobacco		595	638p	756	792	668	720	7.8%
Pulp, paper and print		266	259p	210	207	202	185	-8.4%
Engineering & metal		298	321p	279	242	262	263	0.4%
Other industries		984	976p	1 444	1 227	1 288	1 616	25.5%
<b>Transport</b>		47 286	49 067	49 254	49 193	48 748	47 631	-2.3%
<i>among which:</i>								
Motor spirit		14 483	13 922	13 426	12 959	12 139	11 455	-5.6%
Jet fuel		6 278	6 507	6 439	6 334	6 319	6 070	-3.9%
Diesel oil		26 310	28 386	29 179	29 712	30 124	29 955	-0.6%
<b>Services &amp; households etc.</b>		18 369	16 394	18 073	16 903	17 684	18 278	3.4%
<i>among which:</i>								
Gas oil		14 925	13 081	15 141	14 103	14 597	14 919	2.2%
Residual fuel oil		1 082	979	925	577	664	447	-32.7%
<b>Stocks at end of period</b>								
Crude oil and feedstocks		8 265	8 692	9 027	8 913	10 086	10 016	-0.7%
Petroleum products		13 350	14 495	14 015	14 813	15 153	15 100	-0.3%


## 5. Natural gas

 eurostat	FRANCE							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		77 670	69 999	70 222	67 438	59 621	51 530	-13.6%
Total imports		1 649 710	1 696 095	1 663 132	1 744 261	1 788 025	1 813 547	1.4%
Total exports		30 456	31 680	37 181	35 068	38 937	57 079	46.6%
Stock changes		-112 078	-70 560	50 563	-32 860	23 331	17 279	-25.9%
Gross inland consumption		1 584 846	1 663 854	1 746 736	1 743 771	1 832 040	1 825 277	-0.4%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		482 256	480 910	372 921	380 431	422 132	384 911	-8.8%
Algeria		414 641	406 598	362 051	377 687	389 188	226 428	-41.8%
Norway		536 137	504 950	444 774	465 076	542 125	484 274	-10.7%
<b>Consumption</b>								
Inputs to electricity plants		49 791	114 723	115 597	162 000	170 910	222 232	30.0%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		17 320	13 891	21 553	13 395	13 364	25 439	90.4%
Distribution losses		2 619	16 118	9 892	0p	9 388	18 673	98.9%
Non-energy use		103 146	108 001	97 947	98 754	100 189	107 678	7.5%
Industry		558 116	563 021	560 528	615 828	590 764	507 510	-14.1%
<i>among which:</i>								
Iron&steel industry		39 614	28 591	27 202	25 650	25 133	25 887	3.0%
Non-ferrous metals		17 180	16 741	16 490	13 826	12 282	10 816	-11.9%
Chemical industry		96 095	110 717	110 646	98 908	105 826	88 186	-16.7%
Non-met. mineral prod.		78 163	79 166	79 218	89 359	92 989	81 661	-12.2%
Food, drink, tobacco		106 468	114 765	114 566	116 688	100 530	106 621	6.1%
Pulp, paper and print		66 401	66 107	65 963	66 325	67 288	55 279	-17.8%
Engineering & metal		74 125	81 204	80 912	73 349	77 803	69 418	-10.8%
Other industries		54 438	43 198	43 089	113 358	90 973	53 404	-41.3%
Transport		14	86	1 080	1 260	1 764	1 980	12.2%
Services & households etc.		852 611	850 825	941 278	855 006	943 133	996 660	5.7%
<i>among which:</i>								
Households		441 558	439 457	485 846	441 059	487 385	516 081	5.9%
Services		399 324	397 604	439 574	399 054	440 988	466 719	5.8%


## 6.1 Hard coal

 eurostat	FRANCE							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	4 532	3 166	1 972	1 483	1 730	160	-90.8%	
Total imports	17 841	18 980	15 960	18 142	16 768	19 697	17.5%	
Total exports	78	89	105	123	83	94	13.3%	
Stock changes	-466	-894	16	-669	2 023	305	-84.9%	
Gross inland consumption	22 427	21 801	18 218	19 270	20 942	20 780	-0.8%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	3 041	3 356	2 688	1 890	2 109	2 210	4.8%	
Poland	1 456	1 617	877	1 002	702	1 255	78.8%	
CIS	100	353	263	324	328	838	155.5%	
Australia	2 303	3 841	3 891	4 589	4 527	6 015	32.9%	
South Africa	2 053	4 501	3 361	4 869	4 029	3 812	-5.4%	
Colombia	1 289	1 914	1 393	1 611	2 331	2 840	21.8%	
<b>Consumption</b>								
Inputs to electricity plants	10 430	10 159	7 518	8 682	9 738	9 201	-5.5%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	379	8	123	21	25	1	-96.0%	
Industry								
<i>among which:</i>								
Iron&steel industry	2 394	2 462	2 251	2 506	2 439	2 531	3.8%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	-	-	-	385	441	433	-1.8%	
Non-met. mineral prod.	202	201	200	270	294	235	-20.1%	
Food, drink, tobacco	597	557	477	401	429	530	23.5%	
Pulp, paper and print	183	163	143	165	199	193	-3.0%	
Engineering & metal	27	18	9	2	4	1	-75.0%	
Other industries	-	-	-	2	1	-	-	
Services & households etc.	860	698	732	470	545	539	-1.1%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	5.0	5.0	4.5	-	-	:	:	
Number of active hard coal mines (end of year)	4	4	4	4	:	:	:	


## 6.2 Coal derivatives and peat

 eurostat	FRANCE						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	5 418	5 234	5 091	4 552	4 601	4 616	0.3%
Patent Fuel	163	122	83	70	41	35	-14.6%
Lignite and peat	560	296	324	148	9	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	43 859	41 780	39 505	34 765	35 169	33 734	-4.1%
Blast-furnace gas	68 346	70 428	61 534	66 615	63 350	65 715	3.7%
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	3 519	3 491	3 245	3 357	3 133	2 889	-7.8%
<i>among which:</i>							
Iron & steel industry	2 848	2 856	3 157	2 899	2 830	2 519	-11.0%
Services & households	56	50	44	39	29	21	-27.6%
Patent Fuel	233	198	147	143	83	77	-7.2%
<i>among which:</i>							
Services & households	233	198	147	143	83	77	-7.2%
Lignite and peat	60	89	109	24	51	40	-21.6%
<i>among which:</i>							
Industry	35	53	59	23	51	40	-21.6%
Services & households	25	36	50	1	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	21 416	18 973	19 693	20 017	18 365	19 314	5.2%
Blast-furnace gas	25 621	27 058	24 129	26 448	25 303	26 532	4.9%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	42 599	45 868	37 107	37 701	34 572	35 039	1.4%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	21 103	18 382	18 941	16 627	17 912	18 543	3.5%
Consumption in industry	47 037	46 031	43 822	46 465	43 668	45 846	5.0%

## 7. Renewable energy sources


		FRANCE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	17 635	17 558	18 401	16 539	17 053	17 385	1.9%
Hydro (excl. pumping)		6 271	5 823	6 460	5 257	5 134	5 179	0.9%
Wind		3	7	11	23	34	49	46.5%
Solar		18	25	18	19	18	19	8.0%
Geothermal		112	124	109	107	129	130	0.8%
Biomass		11 232	11 579	11 802	11 134	11 739	12 007	2.3%
	<i>among which:</i>							
Wood, wood-waste		9 234	9 231	9 387	8 573	9 077	9 255	2.0%
Municipal solid waste		1 560	1 854	1 932	2 043	2 088	2 133	2.2%
Biogas		158	171	166	179	208	211	1.5%
Gross inland consumption		17 635	17 563	18 409	16 525	17 011	17 304	1.7%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		1 662	1 874	2 003	2 054	2 114	2 156	2.0%
	<i>among which:</i>							
Wood, wood-waste		171	213	342	345	350	357	2.0%
Municipal waste		1 466	1 559	1 570	1 606	1 637	1 669	2.0%
Biogas		24	102	92	103	127	130	2.0%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	9 699	9 859	9 934	9 190	9 729	9 919	2.0%
	<i>by sector:</i>							
Industry		1 638	1 679	1 282	1 310	1 340	1 374	2.6%
Services & households etc.		7 782	7 852	8 327	7 556	8 064	8 216	1.9%
Transport		279	328	326	324	325	329	1.2%
	<i>by source:</i>							
Biomass		9 570	9 710	9 807	9 065	9 582	9 770	2.0%
	<i>among which:</i>							
Wood, wood-waste		8 810	8 681	9 045	8 228	8 726	8 898	2.0%
Municipal waste		94	294	362	437	451	464	2.8%
Biogas		94	69	74	76	80	81	0.6%
Geothermal		112	124	109	107	129	130	0.8%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	1	7	8	9	12.5%
Hydro with installed capacity < 1 MW		1 601	1 656	1 434	1 344	1 313	1 356	3.3%
Hydro with installed capacity > 1 & <10 MW		5 983	5 961	5 632	5 336	5 095	5 292	3.9%
Hydro with installed capacity > 10 MW		64 676	59 157	67 515	53 920	52 756	53 064	0.6%
Wood, Wood-waste		1 401	1 398	1 312	1 324	1 344	1 371	2.0%
Municipal waste		1 140	1 522	1 505	2 900	3 285	3 340	1.7%
Biogas		144	322	349	392	417	470	12.7%



		FRANCE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		8	11	6	7	8	10	25.0%
Hydro with installed capacity < 1 MW		406	407	325	376	373	395	5.9%
Hydro with installed capacity > 1 & <10 MW		1 610	1 549	1 387	1 490	1 494	1 590	6.4%
Hydro with installed capacity > 10 MW		18 614	19 098	19 258	19 143	19 066	23 160	21.5%
Wood, Wood-waste		340	340p	340p	340p	340p	340p	0.0%
Municipal waste		272	272	272	272p	272p	272p	0.0%
Biogas		-	-	-	-	-	-	-
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	344	398	391	417	452	504	11.5%
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	475	543	441	536	515	547	6.2%

# 1. Energy economy

## Key figures and energy indicators

		IRELAND					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	2 611	2 111	1 730	1 499	1 828	1 902
Net energy imports		11 712	12 141	13 562	13 636	13 448	13 714
Net oil imports		8 281	7 959	8 836	8 803	8 556	8 810
Net gas imports		1 894	2 478	2 925	3 001	3 133	2 960
Gross inland energy consumption		13 826	14 173	14 806	15 131	14 873	15 707
Final energy consumption		9 835	10 520	10 932	11 038	11 258	11 525
Industry		2 078	2 279	2 250	2 226	2 126	2 132
Transport		3 678	4 005	4 274	4 384	4 426	4 607
Services and households etc.		4 078	4 235	4 407	4 427	4 707	4 786
Gross electricity generation	GWh	22 051	23 978	24 956	25 195	25 219	25 569
Final electricity consumption		18 802	20 201	20 929	21 832	22 531	23 029
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	74 563	81 435	86 469	91 756	95 834	100 120
Population	1000 per.	3 732	3 778	3 833	3 900	3 964	4 028
Industry added value	Mio EUR	:	:	:	:	:	:
Total imports (current prices)	Mio EUR	62 263	75 735	81 277	82 764	81 621	87 791
among which:							
All energy commodities		1 280	2 271	2 097	1 862	1 839	2 669
Oil products		976	1 861	1 561	1 465	1 470	2 137
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	185.4	174.0	171.2	164.9	155.2	156.9
Final energy consumption / GDP(95)		131.9	129.2	126.4	120.3	117.5	115.1
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		:	:	:	:	:	:
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		:	:	:	:	:	:
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 704	3 752	3 863	3 880	3 752	3 900
Final energy consumption / capita		2 635	2 785	2 852	2 830	2 840	2 862
Household consumption / capita		646	655	681	672	676	691
Final electricity consumption / capita	kWh/cap.	5 038	5 347	5 460	5 598	5 684	5 718
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	83.7	84.8	90.6	89.3	89.4	86.5
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	71.1	74.2	73.8	72.9	75.7	73.4
Efficiency of thermal power stations		37.4	40.7	39.3	40.2	42.7	43.5

## 2. Energy balance


### Principal aggregates by product

eurostat	IRELAND						
	1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 toe</i>							
<b>Primary production</b>							
Total	2 611	2 111	1 730	1 499	1 828	1 902	4.1%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	1 251	894	810	534	1 024	889	-13.1%
Crude oil	-	-	-	-	-	-	-
Natural Gas	1 103	958	659	678	544	688	26.6%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	73	73	51	78	51	54	5.4%
Biomass	167	164	180	176	170	214	25.8%
<b>Imports</b>							
Total	12 820	13 464	14 880	15 110	15 033	15 029	0.0%
<i>among which:</i> Hard coal	1 508	1 710	1 836	1 800	1 653	1 807	9.4%
Crude oil and feedstocks	2 863	3 002	3 395	3 374	3 289	2 931	-10.9%
Petroleum products	6 502	6 260	6 721	6 886	6 833	7 176	5.0%
Natural Gas	1 894	2 478	2 925	3 001	3 133	2 960	-5.5%
Electricity	25	15	3	49	101	135	33.8%
<b>Exports</b>							
Total	1 109	1 323	1 317	1 474	1 585	1 315	-17.0%
<i>among which:</i> Crude oil and feedstocks	-	-	-	88	86	-	-
Petroleum products	1 084	1 302	1 279	1 369	1 480	1 297	-12.4%
Natural gas	-	-	-	-	-	-	-
Electricity	4	6	25	5	1	-	-
<b>Gross inland consumption</b>							
Total	13 826	14 173	14 806	15 131	14 873	15 707	5.6%
<i>among which:</i> Solid fuels	2 522	2 565	2 612	2 559	2 519	2 314	-8.1%
Crude oil and petrol. prod.	8 029	7 906	8 371	8 562	8 341	9 288	11.4%
Natural gas	2 997	3 436	3 584	3 679	3 653	3 645	-0.2%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	257	258	261	288	261	325	24.5%
<b>Transformation input</b>							
Total	7 784	8 238	8 781	8 426	8 220	7 912	-3.7%
<i>among which:</i> Crude oil and feedstocks	2 832	3 310	3 430	3 230	3 245	3 041	-6.3%
Petroleum products	1 369	1 021	1 214	936	599	773	29.1%
Hard coal	1 299	1 461	1 548	1 494	1 348	1 415	5.0%
Lignite and peat	743	598	714	682	658	414	-37.1%
Renewables	32	24	24	19	19	22	20.8%
<b>Transformation output</b>							
Total	4 811	5 397	5 578	5 366	5 367	5 106	-4.9%
<i>among which:</i> Electricity	1 786	1 942	2 038	2 024	2 047	2 058	0.5%
Heat	-	-	-	-	-	-	-


**IRELAND**

	1999	2000	2001	2002	2003	2004	04/03
<b>Final energy consumption</b>							
Total	9 835	10 520	10 932	11 038	11 258	11 525	2.4%
<i>among which:</i> Solid fuels	573	547	503	486	502	494	-1.7%
Petroleum products	6 473	6 894	7 238	7 321	7 389	7 535	2.0%
Natural Gas	1 036	1 201	1 234	1 197	1 277	1 325	3.7%
Renewables	136	141	157	157	152	192	26.3%
Electricity	1 617	1 737	1 800	1 877	1 937	1 980	2.2%
<b>Final energy consumption by sector</b>							
<b>Industry</b>							
Total	2 078	2 279	2 250	2 226	2 126	2 132	0.3%
<i>among which:</i> Solid fuels	69	55	52	42	42	37	-12.1%
Petroleum Products	887	990	977	942	931	927	-0.5%
Natural Gas	404	470	440	432	437	433	-0.7%
Renewables	92	100	113	113	106	146	37.8%
Electricity	625	664	667	697	610	590	-3.4%
<b>Transport</b>							
Total	3 678	4 005	4 274	4 384	4 426	4 607	4.1%
<i>among which:</i> Motor spirit	1 487	1 570	1 631	1 667	1 665	1 711	2.8%
Diesel oil	1 631	1 790	1 880	1 913	1 974	2 138	8.3%
Jet fuel	529	613	736	782	764	724	-5.2%
Electricity	2	2	2	2	2	13	556.5%
<b>Services&amp;households</b>							
Total	4 078	4 235	4 407	4 427	4 707	4 786	1.7%
<i>among which:</i> Solid fuels	504	493	451	444	460	457	-0.8%
Gas oil	1 051	1 049	1 063	1 068	1 069	1 026	-4.0%
Natural Gas	631	730	794	765	841	891	6.0%
Renewables	44	40	43	43	46	46	0.1%
Electricity	989	1 070	1 130	1 178	1 325	1 378	3.9%
Heat	-	-	-	-	-	-	-

### 3.1 Electricity balance

 eurostat	IRELAND						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	22 051	23 978	24 956	25 195	25 219	25 569	1.4%
<i>among which:</i>							
Hydro	1 090	1 150	920	1 264	956	984	2.9%
Wind	187	244	334	388	454	655	44.3%
Geothermal	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-
Conventional thermal	20 774	22 584	23 702	23 543	23 809	23 930	0.5%
<i>of which:</i>							
Hard coal	5 833	6 817	7 065	6 818	6 203	6 229	0.4%
Lignite and peat	1 682	1 770	2 193	2 075	2 028	1 487	-26.7%
Petroleum products	6 170	4 639	5 204	3 738	2 454	3 211	30.8%
Natural gas	6 956	9 262	9 143	10 830	13 055	12 911	-1.1%
Derived gases	-	-	-	-	-	-	-
Biomass	91	96	97	82	70	92	31.4%
Industrial wastes	42	-	-	-	-1	-	-
Total net generation	20 889	22 775	23 679	23 926	24 069	24 413	1.4%
<b>Imports and exports</b>							
Total imports	290	169	38	565	1 176	1 574	33.8%
Total exports	49	71	288	62	10	-	-
<b>Consumption and losses</b>							
Consumption of the energy branch	1 399	1 550	1 546	1 548	1 544	1 566	1.4%
<i>of which:</i>							
Consumption for pumped-storage	123	145	157	182	193	198	2.6%
Network losses	1 869	2 020	1 907	1 966	2 036	2 044	0.4%
Final energy consumption	18 802	20 201	20 929	21 832	22 531	23 029	2.2%
<i>of which:</i>							
Industry	7 271	7 727	7 760	8 110	7 095	6 857	-3.4%
<i>among which:</i>							
Iron&steel industry	310	329	150	22	12	12	0.0%
Non-ferrous metals	339	364	374	323	283	363	28.3%
Chemical industry	970	1 022	1 051	1 137	996	1 219	22.4%
Non-met. mineral prod.	597	639	657	646	566	510	-9.9%
Food, drink, tobacco	1 761	1 896	1 950	2 015	1 765	1 658	-6.1%
Pulp, paper and print	162	172	177	168	147	282	91.8%
Engineering & metal	955	1 023	1 052	1 130	989	1 396	41.2%
Other industries	1 502	1 562	1 608	1 939	1 698	848	-50.1%
Transport	25	26	26	23	23	151	556.5%
Services & households etc.	11 506	12 448	13 143	13 699	15 413	16 021	3.9%
<i>among which:</i>							
Households	6 544	6 945	7 333	7 449	6 966	7 346	5.5%


### 3.2 Electrical capacity, fuel inputs and heat

	IRELAND							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	4 346	4 705	4 717	5 480	5 680	5 839	2.8%
<i>by source:</i>								
Conventional thermal		3 754	4 064	4 064	4 760	4 899	4 929	0.6%
<i>of which:</i>								
Steam		2 728	2 858	2 858	2 811	2 761	2 668	-3.4%
Gas turbine		713	423	423	433	541	649	20.0%
Combined cycle		275	735	735	1 464	1 472	1 487	1.0%
Internal combustion		38	48	48	52	52	52	0.0%
Nuclear		-	-	-	-	-	-	-
Hydro		525	525	528	531	532	532	0.0%
<i>among which:</i>								
Pumped storage		292	292	292	292	292	292	0.0%
Wind		67	116	125	189	249	378	51.8%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		4 250	4 614	4 589	5 298	5 544	5 697	2.8%
Autoproducers		96	128	128	131	136	142	4.4%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	4 770	4 766	5 181	5 031	4 799	4 733	-1.4%
<i>among which:</i>								
Hard coal		1 285	1 441	1 528	1 474	1 327	1 387	4.5%
Lignite and peat		586	472	584	557	524	315	-39.9%
Petroleum products		1 357	1 006	1 194	915	578	762	31.8%
Natural gas		1 509	1 825	1 851	2 065	2 351	2 247	-4.5%
Renewables		32	24	24	19	19	22	20.8%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	-	-	-	-	-	-	-
<i>among which: in heating plants</i>								
Heat consumption		-	-	-	-	-	-	-
<i>of which: in industry</i>								
in households and services		-	-	-	-	-	-	-
<i>among which: in households</i>								
		-	-	-	-	-	-	-


## 4.1 Crude oil and feedstocks

eurostat	in 1 000 t	IRELAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		2 848	2 987	3 371	3 343	3 258	2 911	-10.7%
Total exports		-	-	-	87	85	-	
Stock changes		-27	329	9	-57	52	31	-40.4%
Refinery intake		2 817	3 294	3 406	3 200	3 215	3 020	-6.1%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		-	-	-	-	-	80	
Near and Middle East		-	-	-	-	-	-	-
Africa		-	-	-	-	-	80	
<i>by country of origin:</i>								
Algeria		-	-	-	-	-	-	-
Nigeria		-	-	-	-	-	-	-
Saudi Arabia		-	-	-	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		2 707	2 943	2 862	1 970	2 124	1 959	-7.8%
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	3 700	3 530	:	:	:	:	
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		530	460	:	:	:	:	


## 4.2 Petroleum products

 eurostat	IRELAND						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	2 831	3 286	3 365	3 154	3 130	2 895	-7.5%
<i>among which:</i>							
Motor spirit	435	532	669	660	639	552	-13.6%
Kerosene and jet fuel	217	249	241	314	315	252	-20.0%
Naphtha	114	104	12	30	31	21	-32.3%
Gas/diesel oil	982	1 133	1 173	955	988	964	-2.4%
Residual fuel oil	988	1 158	1 132	1 047	1 005	966	-3.9%
Total imports	6 558	6 305	6 803	6 954	6 917	7 202	4.1%
Total exports	1 121	1 346	1 318	1 400	1 512	1 324	-12.4%
Bunkers	172	151	161	149	171	150	-12.3%
Stock changes	-54	-218	-313	-31	-95	583	713.7%
Gross inland consumption	5 211	4 590	5 011	5 374	5 139	6 311	22.8%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	-	-	11	62	142	47	-66.9%
United Kingdom	6 210	5 716	5 960	5 775	5 713	6 212	8.7%
Norway	-	-	34	607	522	391	-25.1%
OPEC	-	-	-	68	11	-	
Imports by product							
<i>among which:</i>							
Motor spirit	990	1 015	1 001	1 035	1 114	1 191	6.9%
Kerosene and jet fuel	932	1 050	1 196	1 337	1 353	1 348	-0.4%
Gas/diesel oil	1 948	2 076	2 069	2 320	2 351	2 510	6.8%
Residual fuel oil	2 207	1 582	1 831	1 497	1 177	1 318	12.0%
Exports by product							
<i>among which:</i>							
Motor spirit	7	20	124	162	191	122	-36.1%
Kerosene and jet fuel	3	25	16	94	65	13	-80.0%
Gas/diesel oil	10	35	47	50	118	124	5.1%
Residual fuel oil	983	1 149	1 096	1 037	1 080	942	-12.8%
<b>Consumption</b>							
Inputs to electricity plants	1 419	1 051	1 248	957	603	795	31.8%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	182	179	209	288	266	294	10.5%
Final energy consumption	6 400	6 839	7 192	7 271	7 336	7 465	1.8%
Industry	929	1 055	1 056	1 021	1 008	1 003	-0.5%
<i>among which by product:</i>							
Gas/diesel oil	179	184	185	187	190	180	-5.3%
Residual fuel oil	488	519	435	391	360	372	3.3%




 eurostat	IRELAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		7	6	6	5	4	-	
Non-ferrous metals		264	280	228	200	182	189	3.8%
Chemical industry		128	124	132	132	140	141	0.7%
Non-met. mineral prod.		164	258	326	331	330	324	-1.8%
Food, drink, tobacco		167	175	164	159	159	151	-5.0%
Pulp, paper and print		11	11	10	9	9	10	11.1%
Engineering & metal		72	76	69	67	69	69	0.0%
Other industries		53	57	57	56	52	57	9.6%
<b>Transport</b>		3 574	3 893	4 155	4 262	4 303	4 471	3.9%
<i>among which:</i>								
Motor spirit		1 415	1 494	1 552	1 586	1 584	1 628	2.8%
Jet fuel		515	597	717	761	744	705	-5.2%
Diesel oil		1 614	1 772	1 861	1 893	1 954	2 116	8.3%
<b>Services &amp; households etc.</b>		1 897	1 891	1 981	1 988	2 025	1 991	-1.7%
<i>among which:</i>								
Gas oil		1 040	1 038	1 052	1 057	1 058	1 016	-4.0%
Residual fuel oil		171	181	160	147	140	130	-7.1%
<b>Stocks at end of period</b>								
Crude oil and feedstocks		457	128	119	176	124	93	-25.0%
Petroleum products		994	1 212	1 525	1 403	1 531	948	-38.1%


## 5. Natural gas

 eurostat	IRELAND							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		51 329	44 581	30 639	31 519	25 293	32 025	26.6%
Total imports		88 099	115 259	136 078	139 612	145 769	137 683	-5.5%
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-1 145	-143	87.5%
Gross inland consumption		139 428	159 840	166 717	171 131	169 917	169 565	-0.2%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		70 200	84 880	86 131	96 043	109 383	104 511	-4.5%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		-	-	-	-	-	-	-
Distribution losses		2 012	1 306	2 174	2 195	2 253	2 803	24.4%
Non-energy use		19 029	17 804	20 996	16 354	6	-	-
Industry		18 815	21 867	20 490	20 075	20 310	20 163	-0.7%
<i>among which:</i>								
Iron&steel industry		964	838	33	32	44	44	0.0%
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		6 026	7 543	7 962	5 104	4 371	4 394	0.5%
Non-met. mineral prod.		1 247	1 846	1 913	1 746	1 234	1 230	-0.3%
Food, drink, tobacco		5 796	7 465	7 331	6 735	9 039	9 079	0.4%
Pulp, paper and print		-	-	-	-	-	-	-
Engineering & metal		-	-	-	-	-	-	-
Other industries		3 932	2 953	2 035	5 171	4 194	3 988	-4.9%
Transport		-	-	-	-	-	-	-
Services & households etc.		29 372	33 981	36 926	35 609	39 109	41 468	6.0%
<i>among which:</i>								
Households		17 959	20 365	22 367	22 077	25 021	27 529	10.0%
Services		11 413	13 616	14 559	13 532	14 088	13 939	-1.1%


## 6.1 Hard coal

 eurostat	IRELAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	2 384	2 631	2 919	2 803	2 485	2 718	9.4%	
Total exports	5	3	3	5	2	5	150.0%	
Stock changes	95	200	-13	-82	117	-75	-164.1%	
Gross inland consumption	2 474	2 828	2 903	2 716	2 600	2 638	1.5%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	723	442	332	332	216	-	-	
Poland	254	172	264	227	249	252	1.2%	
CIS	-	-	-	-	-	-	-	
Australia	-	285	405	511	583	1 151	97.4%	
South Africa	117	409	-	300	786	4	-99.5%	
Colombia	1 021	883	866	868	441	1 170	165.3%	
<b>Consumption</b>								
Inputs to electricity plants	2 014	2 362	2 476	2 397	2 195	2 239	2.0%	
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.	57	45	44	11	1	-	-	
Food, drink, tobacco	43	33	32	30	35	33	-5.7%	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	20	26	22	-15.4%	
Services & households etc.	339	357	319	288	320	307	-4.1%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

 eurostat	IRELAND						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	31	47	47	55	51	55	7.8%
Lignite and peat	5 650	4 808	4 357	2 870	5 504	4 395	-20.1%
Brown coal briquettes	330	274	269	273	279	206	-26.2%
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
<i>among which:</i>							
Iron & steel industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Patent Fuel	24	41	41	46	44	50	13.6%
<i>among which:</i>							
Services & households	24	41	41	46	44	50	13.6%
Lignite and peat	698	608	616	622	606	597	-1.5%
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	698	608	616	622	606	597	-1.5%
Brown coal briquettes	276	280	255	261	213	203	-4.7%
<i>among which:</i>							
Industry	10	9	10	7	2	1	-50.0%
Services & households	266	271	245	254	211	202	-4.3%
<b>Total derived gases</b>	<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						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	257	258	261	288	261	325	24.5%
Hydro (excl. pumping)		73	73	51	78	51	54	5.4%
Wind		16	21	29	33	39	56	44.3%
Solar		0	0	0	0	0	0	33.3%
Geothermal		0	0	0	0	0	0	0.0%
Biomass		167	164	180	176	170	214	25.8%
	<i>among which:</i>							
Wood, wood-waste		131	136	152	152	145	184	27.2%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		37	28	28	23	25	30	17.7%
Gross inland consumption		257	258	261	288	261	325	24.5%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		32	24	24	19	19	22	20.8%
	<i>among which:</i>							
Wood, wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		32	24	24	19	19	22	20.8%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	136	141	157	157	152	192	26.3%
	<i>by sector:</i>							
Industry		92	100	113	113	106	146	37.8%
Services & households etc.		44	40	43	43	46	46	0.1%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		135	140	156	156	152	191	26.3%
	<i>among which:</i>							
Wood, wood-waste		131	136	152	152	145	184	27.2%
Municipal waste		-	-	-	-	-	-	-
Biogas		4	4	4	4	7	7	9.1%
Geothermal		0	0	0	0	0	0	0.0%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		27	27	25	31	26	29	11.5%
Hydro with installed capacity > 1 & <10 MW		96	96	68	24	57	71	24.6%
Hydro with installed capacity > 10 MW		723	723	503	857	515	530	2.9%
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		91	96	97	82	86	101	17.4%

eurostat	IRELAND						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	7	7	10	9	11	11	0.0%
Hydro with installed capacity > 1 & <10 MW	27	27	27	7	23	27	17.4%
Hydro with installed capacity > 10 MW	199	199	199	222	206	202	-1.9%
Wood, Wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	15	15	15	19	15	19	26.7%
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	5	5	5	5	6	8	33.3%


# 1. Energy economy

## Key figures and energy indicators

		ITALIA					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	28 963	26 780	25 580	26 278	27 273	28 036
Net energy imports		143 642	152 953	147 719	152 585	155 914	159 073
Net oil imports		87 318	88 458	84 499	86 309	85 166	82 439
Net gas imports		40 486	47 008	44 810	48 248	51 116	55 293
Gross inland energy consumption		171 156	172 537	173 073	173 399	182 949	184 819
Final energy consumption		123 301	123 254	126 001	125 060	129 966	131 206
Industry		38 426	39 489	39 647	39 533	40 344	41 232
Transport		41 440	41 263	41 895	42 382	43 102	43 948
Services and households etc.		43 435	42 503	44 458	43 144	46 520	46 025
Gross electricity generation	GWh	264 994	276 623	278 995	284 401	293 884	303 322
Final electricity consumption		261 030	272 547	277 328	282 305	290 964	295 042
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	913 637	946 363	963 354	966 649	967 008	977 309
Population	1000 per.	56 914	56 930	56 968	56 994	57 321	57 888
Industry added value	Mio EUR	236 457	242 261	244 105	243 640	240 508	244 357
Total imports (current prices)	Mio EUR	226 692	240 140	239 762	238 625	240 512	246 561
among which:							
All energy commodities		13 332	24 993	24 206	23 230	23 600	27 090
Oil products		11 944	23 293	20 627	19 629	20 060	22 870
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	187.3	182.3	179.7	179.4	189.2	189.1
Final energy consumption / GDP(95)		135.0	130.2	130.8	129.4	134.4	134.3
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		162.5	163.0	162.4	162.3	167.7	168.7
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		19.6	19.0	19.5	19.3	22.1	21.0
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 007	3 031	3 038	3 042	3 192	3 193
Final energy consumption / capita		2 166	2 165	2 212	2 194	2 267	2 267
Household consumption / capita		518	498	520	498	520	519
Final electricity consumption / capita	kWh/cap.	4 586	4 787	4 868	4 953	5 076	5 097
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	82.8	87.3	84.0	86.5	83.8	84.5
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	72.0	71.4	72.8	72.1	71.0	71.0
Efficiency of thermal power stations		40.1	40.5	41.9	41.3	39.8	40.2

## 2. Energy balance

### Principal aggregates by product

 eurostat	ITALIA						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	28 963	26 780	25 580	26 278	27 273	28 036	2.8%
among which:							
Hard coal	-	-	-	104	159	62	-60.8%
Lignite and peat	29	4	-	-	-	-	-
Crude oil	5 053	4 606	4 117	5 567	5 609	5 476	-2.4%
Natural Gas	14 313	13 622	12 483	11 976	11 372	10 615	-6.7%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	3 901	3 812	4 025	3 398	3 176	3 671	15.6%
Biomass	1 624	1 572	1 653	1 637	2 012	3 145	56.3%
<b>Imports</b>							
Total	164 190	174 693	170 322	174 598	180 234	185 173	2.7%
among which:							
Hard coal	11 766	12 926	13 362	12 739	13 634	16 196	18.8%
Crude oil and feedstocks	88 532	90 772	91 614	90 335	92 511	93 953	1.6%
Petroleum products	19 161	19 255	15 332	17 507	16 506	14 028	-15.0%
Natural Gas	40 528	47 049	44 861	48 560	51 429	55 617	8.1%
Electricity	3 658	3 855	4 207	4 430	4 427	3 992	-9.8%
<b>Exports</b>							
Total	20 548	21 739	22 603	22 013	24 321	26 100	7.3%
among which:							
Crude oil and feedstocks	280	529	612	401	1 124	1 431	27.3%
Petroleum products	20 095	21 041	21 835	21 131	22 726	24 111	6.1%
Natural gas	42	41	51	312	312	324	3.7%
Electricity	45	42	47	79	45	68	52.7%
<b>Gross inland consumption</b>							
Total	171 156	172 537	173 073	173 399	182 949	184 819	1.0%
among which:							
Solid fuels	11 792	12 659	13 513	13 717	14 923	16 583	11.1%
Crude oil and petrol. prod.	90 082	88 947	87 631	88 420	88 661	84 972	-4.2%
Natural gas	55 569	57 940	58 099	57 437	63 621	66 019	3.8%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	9 941	9 034	9 514	9 198	10 786	12 528	16.2%
<b>Transformation input</b>							
Total	147 448	150 324	149 281	151 379	157 710	158 442	0.5%
among which:							
Crude oil and feedstocks	95 798	96 749	97 853	97 529	99 588	100 190	0.6%
Petroleum products	18 993	18 960	16 512	17 517	16 359	11 143	-31.9%
Hard coal	9 930	10 595	11 628	11 928	12 523	14 018	11.9%
Lignite and peat	54	68	1	-	1	-	-
Renewables	4 110	3 227	3 381	3 815	5 631	6 674	18.5%
<b>Transformation output</b>							
Total	118 475	119 505	120 815	121 060	123 745	124 359	0.5%
among which:							
Electricity	18 356	19 361	19 251	20 270	21 337	21 631	1.4%
Heat	-	-	-	-	-	-	-



**Final energy consumption**

Total	123 301	123 254	126 001	125 060	129 966	131 206	1.0%
<i>among which:</i> Solid fuels	3 793	3 681	3 898	3 948	3 836	4 112	7.2%
Petroleum products	57 275	56 147	57 378	57 158	58 353	59 044	1.2%
Natural Gas	37 665	37 611	38 749	37 840	40 963	40 640	-0.8%
Renewables	1 662	1 945	2 005	1 754	1 711	2 024	18.3%
Electricity	22 445	23 435	23 846	24 274	25 018	25 369	1.4%

**Final energy consumption by sector**
**Industry**

Total	38 426	39 489	39 647	39 533	40 344	41 232	2.2%
<i>among which:</i> Solid fuels	3 728	3 618	3 825	3 932	3 819	4 104	7.5%
Petroleum Products	6 665	6 410	6 517	6 414	6 858	7 509	9.5%
Natural Gas	15 864	16 625	16 653	16 589	16 963	17 000	0.2%
Renewables	202	207	215	208	206	203	-1.2%
Electricity	11 509	12 197	12 313	12 305	12 413	12 399	-0.1%


**Transport**

Total	41 440	41 263	41 895	42 382	43 102	43 948	2.0%
<i>among which:</i> Motor spirit	18 469	17 534	17 192	16 807	16 198	15 216	-6.1%
Diesel oil	16 952	17 654	18 712	19 854	20 733	22 415	8.1%
Jet fuel	3 555	3 491	3 393	3 184	3 706	3 692	-0.4%
Electricity	678	695	703	733	773	784	1.3%


**Services&households**

Total	43 435	42 503	44 458	43 144	46 520	46 025	-1.1%
<i>among which:</i> Solid fuels	65	63	73	16	16	8	-53.2%
Gas oil	7 202	6 771	7 271	6 770	6 857	6 445	-6.0%
Natural Gas	21 513	20 659	21 729	20 889	23 636	23 279	-1.5%
Renewables	1 459	1 738	1 790	1 546	1 506	1 556	3.3%
Electricity	10 258	10 543	10 830	11 236	11 832	12 187	3.0%
Heat	-	-	-	-	-	-	-


## 3.1 Electricity balance

 eurostat	ITALIA						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	264 994	276 623	278 995	284 401	293 884	303 322	3.2%
<i>among which:</i>							
Hydro	51 777	50 900	53 926	47 262	44 277	49 908	12.7%
Wind	403	563	1 179	1 404	1 458	1 847	26.7%
Geothermal	4 403	4 705	4 507	4 662	5 341	5 437	1.8%
Nuclear	-	-	-	-	-	-	-
Conventional thermal	208 411	220 455	219 383	231 073	242 808	246 130	1.4%
<i>of which:</i>							
Hard coal	23 551	25 990	31 727	35 447	38 813	45 518	17.3%
Lignite and peat	261	282	3	-	-	-	-
Petroleum products	91 379	85 878	75 008	87 767	75 986	58 889	-22.5%
Natural gas	86 983	101 360	95 906	99 414	117 300	129 772	10.6%
Derived gases	4 413	4 252	5 045	5 021	5 304	5 359	1.0%
Biomass	1 824	1 591	2 586	2 371	3 456	5 359	55.1%
Industrial wastes	-	1 102	9 108	1 053	1 949	1 233	-36.7%
Total net generation	252 109	263 623	265 965	270 782	280 202	290 022	3.5%
<b>Imports and exports</b>							
Total imports	42 538	44 831	48 927	51 519	51 486	46 426	-9.8%
Total exports	528	484	549	922	518	791	52.7%
<b>Consumption and losses</b>							
Consumption of the energy branch	21 665	22 674	23 589	25 184	25 654	25 835	0.7%
<i>of which:</i>							
Consumption for pumped-storage	2 491	2 566	2 396	2 911	3 148	3 090	-1.8%
Network losses	18 560	19 191	19 340	19 766	20 870	20 870p	0.0%
Final energy consumption	261 030	272 547	277 328	282 305	290 964	295 042	1.4%
<i>of which:</i>							
Industry	133 847	141 847	143 205	143 107	144 368	144 197	-0.1%
<i>among which:</i>							
Iron&steel industry	18 355	20 346	20 846	19 966	19 887	20 045	0.8%
Non-ferrous metals	5 234	5 526	5 714	5 619	5 464	5 538	1.4%
Chemical industry	20 864	21 946	21 224	20 236	20 110	19 431	-3.4%
Non-met. mineral prod.	13 025	13 698	13 931	14 312	14 543	14 606	0.4%
Food, drink, tobacco	11 172	11 644	12 044	12 360	12 535	12 702	1.3%
Pulp, paper and print	9 649	10 100	10 258	10 480	10 787	10 807	0.2%
Engineering & metal	23 713	25 162	25 369	26 064	26 736	27 275	2.0%
Other industries	19 945	20 919	21 207	21 970	22 709	22 906	0.9%
Transport	7 886	8 086	8 171	8 521	8 992	9 113	1.3%
Services & households etc.	119 297	122 614	125 952	130 677	137 604	141 732	3.0%
<i>among which:</i>							
Households	60 717	61 112	61 553	62 957	65 016	66 592	2.4%


## 3.2 Electrical capacity, fuel inputs and heat


	ITALIA							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	73 684	75 334	76 233	79 744	78 102	81 306	4.1%
<i>by source:</i>								
Conventional thermal		52 426	54 035	54 477	54 521	55 861	58 792	5.2%
<i>of which:</i>								
Steam		40 728	40 048	39 111	38 126	36 754	34 553	-6.0%
Gas turbine		6 027	5 314	5 371	5 088	5 101	3 931	-22.9%
Combined cycle		4 924	7 839	8 978	10 308	13 051	19 276	47.7%
Internal combustion		747	833	850	911	955	1 032	8.1%
Nuclear		-	-	-	-	-	-	-
Hydro		20 444	20 346	20 519	23 777	20 660	20 745	0.4%
<i>among which:</i>								
Pumped storage		7 027	6 957	7 063	6 957	6 957	6 957p	0.0%
Wind		229	363	664	780	874	1 127	28.9%
Geothermal		585	590	573	666	707	642	-9.2%
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		61 252	75 493	76 233	79 744	78 313	76 540	-2.3%
Autoproducers		12 596	409	-	-	-	4 773	
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	45 797	47 764	45 942	49 053	53 606	53 825	0.4%
<i>among which:</i>								
Hard coal		5 139	5 768	6 985	7 954	8 874	10 448	17.7%
Lignite and peat		54	68	1	-	1	-	
Petroleum products		18 989	18 955	16 512	17 517	16 359	11 143	-31.9%
Natural gas		16 355	18 689	17 911	18 491	21 087	23 630	12.1%
Renewables		4 110	3 227	3 381	3 815	5 631	6 674	18.5%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	-	-	-	-	-	-	-
<i>among which: in heating plants</i>								
Heat consumption		-	-	-	-	-	-	-
<i>of which: in industry</i>								
in households and services		-	-	-	-	-	-	-
<i>among which: in households</i>								
		-	-	-	-	-	-	-

## 4.1 Crude oil and feedstocks


 eurostat		ITALIA						
		1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 t</i>								
<b>Primary production and supply</b>								
Primary production		5 022	4 585	4 097	5 535	5 570	5 445	-2.2%
Total imports		87 931	90 281	91 077	89 730	91 807	93 354	1.7%
Total exports		276	521	603	395	1 113	1 415	27.1%
Stock changes		103	-765	576	-115	90	-429	-576.7%
Refinery intake		95 140	96 208	97 267	96 867	98 819	99 542	0.7%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		52 227	55 055	48 894	44 638	51 278	52 689	2.8%
Near and Middle East		31 290	30 656	29 017	25 588	26 931	27 778	3.1%
Africa		29 525	32 189	30 665	31 025	31 522	32 291	2.4%
<i>by country of origin:</i>								
Algeria		2 011	3 190	2 765	2 591	3 466	4 137	19.4%
Nigeria		1 262	1 142	1 752	1 318	1 717	1 443	-16.0%
Saudi Arabia		8 343	8 407	8 933	8 457	10 564	11 768	11.4%
Kuwait		128	1 574	653	55	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		4 259	3 650	2 927	5 409	4 692	3 337	-28.9%
<b>Refining capacity</b>								
Capacity at the end of year	<i>1 000 t/year</i>	115 500	115 500	:	:	:	:	
<i>among which:</i>								
Cracking and others		58 040	60 470	:	:	:	:	
Reforming		13 950	13 450	:	:	:	:	

## 4.2 Petroleum products


 eurostat	ITALIA						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	94 222	95 074	96 535	96 233	97 840	98 140	0.3%
<i>among which:</i>							
Motor spirit	20 182	19 494	21 093	20 810	20 705	20 674	-0.1%
Kerosene and jet fuel	4 847	4 476	4 071	4 306	4 517	4 041	-10.5%
Naphtha	3 483	2 998	2 203	2 423	3 615	3 048	-15.7%
Gas/diesel oil	34 527	36 487	37 076	38 993	38 389	39 536	3.0%
Residual fuel oil	19 409	19 455	19 295	17 190	18 018	17 543	-2.6%
Total imports	19 957	20 079	15 996	18 316	17 568	14 868	-15.4%
Total exports	20 078	21 050	21 816	21 065	22 713	24 146	6.3%
Bunkers	2 485	2 785	2 900	3 080	3 310	3 456	4.4%
Stock changes	-91	-1 038	1 052	-555	779	342	-56.1%
Gross inland consumption	-2 522	-4 620	-7 478	-6 167	-7 476	-12 182	-62.9%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	300	372	236	358	149	143	-4.0%
United Kingdom	1 522	1 696	1 452	1 381	1 384	724	-47.7%
Norway	399	167	246	188	231	10	-95.7%
OPEC	8 068	10 104	5 946	7 653	7 589	6 657	-12.3%
Imports by product							
<i>among which:</i>							
Motor spirit	726	598	615	572	430	339	-21.2%
Kerosene and jet fuel	417	317	338	198	204	493	141.7%
Gas/diesel oil	1 047	893	748	1 014	724	1 011	39.6%
Residual fuel oil	11 911	11 744	7 690	10 774	9 873	5 625	-43.0%
Exports by product							
<i>among which:</i>							
Motor spirit	2 729	3 985	4 279	4 807	5 197	5 751	10.7%
Kerosene and jet fuel	1 093	830	638	971	761	536	-29.6%
Gas/diesel oil	8 930	8 586	9 881	9 479	9 611	9 545	-0.7%
Residual fuel oil	4 524	4 709	3 516	2 459	3 372	3 740	10.9%
<b>Consumption</b>							
Inputs to electricity plants	19 797	19 636	17 230	18 285	17 072	11 536	-32.4%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	9 570	9 988	9 566	9 598	7 934	7 982	0.6%
Final energy consumption	56 393	55 339	56 487	56 393	57 780	58 491	1.2%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	408	418	435	440	495	1 207	143.8%
Residual fuel oil	4 184	3 763	3 482	3 379	3 537	3 302	-6.6%

 eurostat	ITALIA						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>							
<i>among which by sector:</i>							
Iron&steel industry	97	99	121	112	117	131	12.0%
Non-ferrous metals	89	86	87	82	89	80	-10.1%
Chemical industry	1 226	1 039	1 316	928	781	1 727	121.1%
Non-met. mineral prod.	3 321	3 513	2 948	3 066	3 743	3 840	2.6%
Food, drink, tobacco	731	628	672	798	838	819	-2.3%
Pulp, paper and print	181	160	192	190	202	234	15.8%
Engineering & metal	792	713	771	785	798	748	-6.3%
Other industries	441	424	604	676	703	397	-43.5%
<b>Transport</b>	39 178	38 979	39 574	40 057	40 751	41 366	1.5%
<i>among which:</i>							
Motor spirit	17 574	16 684	16 359	15 993	15 413	14 479	-6.1%
Jet fuel	3 461	3 399	3 304	3 100	3 608	3 595	-0.4%
Diesel oil	16 779	17 474	18 521	19 651	20 521	22 186	8.1%
<b>Services &amp; households etc.</b>	9 856	9 231	9 771	9 201	9 267	8 739	-5.7%
<i>among which:</i>							
Gas oil	7 128	6 702	7 197	6 701	6 787	6 379	-6.0%
Residual fuel oil	378	330	350	335	328	259	-21.0%
<b>Stocks at end of period</b>							
Crude oil and feedstocks	5 246	6 011	5 435	5 550	5 576	6 005	7.7%
Petroleum products	14 672	15 193	14 710	15 001	13 954	13 612	-2.5%

## 5. Natural gas


 eurostat	ITALIA							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		665 836	633 716	580 723	557 137	529 017	493 813	-6.7%
Total imports		1 885 340	2 188 731	2 086 927	2 259 025	2 392 454	2 587 295	8.1%
Total exports		1 943	1 907	2 365	14 516	14 516	15 050	3.7%
Stock changes		35 814	-125 158	37 490	-129 692	52 692	5 145	-90.2%
Gross inland consumption		2 585 047	2 695 382	2 702 775	2 671 954	2 959 647	3 071 203	3.8%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		727 443	801 548	746 531	789 165	826 313	900 074	8.9%
Algeria		1 021 156	1 071 372	930 135	920 420	935 774	976 579	4.4%
Norway		-	-	46 520	192 329	191 643	197 739	3.2%
<b>Consumption</b>								
Inputs to electricity plants		760 857	869 419	833 212	860 186	980 954	1 099 256	12.1%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		15 429	18 141	11 832	15 725	15 730	16 025	1.9%
Distribution losses		12 534	12 690	8 894	5 412	14 099	21 719	54.0%
Non-energy use		44 034	45 453	46 215	42 824	43 245	43 623	0.9%
Industry		737 985	773 402	774 687	771 718	789 137	790 859	0.2%
<i>among which:</i>								
Iron&steel industry		73 835	87 099	87 249	87 709	90 489	90 604	0.1%
Non-ferrous metals		16 718	17 452	17 488	17 757	18 403	18 519	0.6%
Chemical industry		148 322	139 903	140 132	134 911	137 465	135 257	-1.6%
Non-met. mineral prod.		155 901	166 763	167 259	166 268	169 469	170 462	0.6%
Food, drink, tobacco		83 617	85 459	85 496	85 229	86 947	89 002	2.4%
Pulp, paper and print		72 007	75 096	74 981	75 974	77 913	78 412	0.6%
Engineering & metal		92 377	101 919	102 146	102 145	104 168	107 405	3.1%
Other industries		37 384	37 569	37 643	38 862	39 855	40 806	2.4%
Transport		13 402	15 202	17 107	16 843	16 953	16 801	-0.9%
Services & households etc.		1 000 806	961 076	1 010 830	971 744	1 099 530	1 082 917	-1.5%
<i>among which:</i>								
Households		725 309	696 429	732 522	711 797	803 531	796 678	-0.9%
Services		269 946	259 198	272 631	254 345	289 824	279 760	-3.5%

## 6.1 Hard coal


 eurostat	ITALIA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	163	250	98	-60.8%	
Total imports	17 309	19 015	19 657	19 211	20 562	24 666	20.0%	
Total exports	-	2	-	-	-	-	-	
Stock changes	-240	-1 000	-232	624	334	-484	-244.9%	
Gross inland consumption	17 069	18 013	19 425	19 998	21 146	24 280	14.8%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	3 653	3 285	5 142	2 934	2 468	2 329	-5.6%	
Poland	621	912	234	555	-	119	-	
CIS	894	1 049	868	1 453	1 087	2 262	108.1%	
Australia	3 299	3 604	2 684	2 416	2 874	3 077	7.1%	
South Africa	3 785	3 722	4 639	3 871	4 765	5 902	23.9%	
Colombia	1 362	1 759	1 451	1 950	-	2 923	-	
<b>Consumption</b>								
Inputs to electricity plants	8 404	9 433	11 219	12 749	14 251	16 807	17.9%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	3	49	67	113	60	61	1.7%	
Industry								
<i>among which:</i>								
Iron&steel industry	1 135	1 231	1 139	1 992	1 223	1 628	33.1%	
Non-ferrous metals	40	34	28	2	1	2	100.0%	
Chemical industry	-	3	3	3	2	3	50.0%	
Non-met. mineral prod.	754	537	547	487	770	883	14.7%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	4	4	2	2	-	-	-	
Engineering & metal	33	31	29	2	-	-	-	
Other industries	1	3	2	2	-	-	-	
Services & households etc.	3	3	3	1	1	12	1100.0%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	




## 6.2 Coal derivatives and peat

 eurostat	ITALIA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	4 990	4 504	4 829	4 065	3 827	4 062	6.1%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	115	14	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	36 242	22 020	14 465	14 213	15 111	14 347	-5.1%
Blast-furnace gas	44 254	41 022	35 341	34 468	36 321	35 884	-1.2%
Gasworks gas	203	185	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	3 593	3 552	3 971	3 472	3 769	3 679	-2.4%
<i>among which:</i>							
Iron & steel industry	3 112	3 235	3 640	3 217	3 694	3 642	-1.4%
Services & households	93	90	104	23	23	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	18	26	8	9	7	9	28.6%
<i>among which:</i>							
Industry	18	26	8	9	7	9	28.6%
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	8 600	7 388	430	433	313	-	-
Blast-furnace gas	8 816	8 808	2 225	606	649	695	7.1%
Gasworks gas	198	183	-	-	-	-	-
Inputs to electricity plants	45 389	42 155	45 540	45 766	49 217	48 993	-0.5%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	17 253	4 557	1 578	1 732	1 175	560	-52.3%
Consumption in industry	17 416	16 196	2 655	1 039	962	695	-27.8%


## 7. Renewable energy sources

		ITALIA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	9 569	8 548	8 979	8 631	10 134	11 882	17.3%
Hydro (excl. pumping)		3 901	3 812	4 025	3 398	3 176	3 671	15.6%
Wind		35	48	101	121	125	159	26.7%
Solar		11	12	12	11	11	19	68.5%
Geothermal		3 999	3 103	3 188	3 464	4 810	4 888	1.6%
Biomass		1 624	1 572	1 653	1 637	2 012	3 145	56.3%
	<i>among which:</i>							
Wood, wood-waste		1 104	1 109	1 102	1 002	1 065	1 575	47.9%
Municipal solid waste		374	334	397	426	692	986	42.6%
Biogas		145	129	153	209	255	319	24.9%
Gross inland consumption		9 941	9 034	9 514	9 198	10 786	12 528	16.2%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		3 786	2 890	2 971	3 247	4 592	4 675	1.8%
Biomass		324	337	410	568	1 039	1 998	92.4%
	<i>among which:</i>							
Wood, wood-waste		38	37	-	70	92	693	653.1%
Municipal waste		141	172	257	289	692	986	42.6%
Biogas		145	129	153	209	255	319	24.9%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	1 662	1 945	2 005	1 754	1 711	2 024	18.3%
	<i>by sector:</i>							
Industry		202	207	215	208	206	203	-1.2%
Services & households etc.		1 459	1 738	1 790	1 546	1 506	1 556	3.3%
Transport		-	-	-	-	-	265	
	<i>by source:</i>							
Biomass		1 439	1 721	1 777	1 526	1 483	1 792	20.8%
	<i>among which:</i>							
Wood, wood-waste		1 439	1 559	1 637	1 389	1 483	1 528	3.0%
Municipal waste		-	162	141	137	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		213	213	217	217	217	213	-1.9%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		17	18	5	4	5	4	-20.0%
Hydro with installed capacity < 1 MW		1 762	1 550	1 668	1 604	1 455	1 731	19.0%
Hydro with installed capacity > 1 & <10 MW		6 840	6 567	6 989	6 444	5 736	7 129	24.3%
Hydro with installed capacity > 10 MW		36 756	36 088	38 154	31 472	29 483	33 885	14.9%
Wood, Wood-waste		586	221	-	-	611	1 913	213.1%
Municipal waste		653	804	1 258	1 428	1 812	2 277	25.7%
Biogas		580	566	684	943	1 033	1 170	13.3%

		ITALIA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		18	19	20	6	7	7	0.0%
Hydro with installed capacity < 1 MW		414	300	384	398	329	413	25.5%
Hydro with installed capacity > 1 & <10 MW		1 787	1 468	1 849	1 892	1 554	1 951	25.5%
Hydro with installed capacity > 10 MW		14 370	11 621	11 223	14 530	11 820	14 691	24.3%
Wood, Wood-waste		180	180	180	155	383	503	31.3%
Municipal waste		168	219	222	224	446	511	14.6%
Biogas		141	179	198	224	257	268	4.3%
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	-	-	-	-	-	326	
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	240	240	240	240	240	240	0.0%

# 1. Energy economy


## Key figures and energy indicators

		KYPROS/KIBRIS					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	44	45	44	45	42	97
Net energy imports		2 427	2 537	2 496	2 572	2 651	2 407
Net oil imports		2 407	2 502	2 455	2 528	2 614	2 380
Net gas imports		-	-	-	-	-	-
Gross inland energy consumption		2 265	2 382	2 409	2 424	2 632	2 488
Final energy consumption		1 566	1 625	1 681	1 691	1 792	1 850
Industry		427	437	409	421	440	545
Transport		830	852	927	897	953	859
Services and households etc.		310	337	345	374	399	446
Gross electricity generation	GWh	3 139	3 370	3 551	3 785	4 044	4 176
Final electricity consumption		2 768	2 996	3 110	3 385	3 637	3 658
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	8 033	8 438	8 785	8 971	9 143	9 501
Population	1000 per.	683	691	698	706	715	730
Industry added value	Mio EUR	1 543	1 563	1 593	1 656	1 723	1 781
Total imports (current prices)	Mio EUR	4 059	4 581	4 797	4 772	4 754	5 157
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	282.0	282.2	274.3	270.2	287.9	261.8
Final energy consumption / GDP(95)		195.0	192.6	191.3	188.6	196.0	194.7
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		276.5	279.5	256.7	254.3	255.2	305.8
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		19.3	19.5	20.3	21.6	22.2	23.7
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 317	3 449	3 454	3 436	3 681	3 406
Final energy consumption / capita		2 294	2 354	2 410	2 398	2 505	2 532
Household consumption / capita		282	305	299	319	341	376
Final electricity consumption / capita	kWh/cap.	4 053	4 339	4 459	4 798	5 086	5 008
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	100.5	98.7	96.1	100.5	96.3	94.6
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	69.2	68.2	69.8	69.8	68.1	74.4
Efficiency of thermal power stations		32.2	33.6	35.7	36.6	33.2	35.9


## 2. Energy balance

### Principal aggregates by product


eurostat	KYPROS/KIBRIS						
	1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 toe</i>							
<b>Primary production</b>							
Total	44	45	44	45	42	97	131.7%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	-	-	-	-	-	-	-
Biomass	9	9	9	10	6	5	-19.0%
<b>Imports</b>							
Total	2 427	2 537	2 496	2 572	2 651	2 407	-9.2%
<i>among which:</i> Hard coal	17	33	38	42	33	24	-26.9%
Crude oil and feedstocks	1 180	1 149	1 148	1 071	964	243	-74.8%
Petroleum products	1 227	1 353	1 307	1 457	1 651	2 138	29.5%
Natural Gas	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-
<b>Exports</b>							
Total	-	-	-	-	-	-	-
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	-	-	-	-	-	-	-
Natural gas	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-
<b>Gross inland consumption</b>							
Total	2 265	2 382	2 409	2 424	2 632	2 488	-5.5%
<i>among which:</i> Solid fuels	23	35	37	37	38	38	1.9%
Crude oil and petrol. prod.	2 198	2 302	2 329	2 342	2 553	2 352	-7.9%
Natural gas	-	-	-	-	-	-	-
Nuclear Energy	-	-	-	-	-	-	-
Renewables	44	45	44	45	42	97	131.7%
<b>Transformation input</b>							
Total	2 013	2 029	2 004	1 969	2 012	1 278	-36.5%
<i>among which:</i> Crude oil and feedstocks	1 174	1 167	1 150	1 079	966	279	-71.1%
Petroleum products	839	862	854	890	1 046	999	-4.5%
Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Renewables	-	-	-	-	-	-	-
<b>Transformation output</b>							
Total	1 443	1 456	1 450	1 400	1 311	638	-51.3%
<i>among which:</i> Electricity	270	290	305	325	348	359	3.3%
Heat	-	-	-	-	-	-	-

 eurostat <span style="float: right;">in 1 000 toe</span>		KYPROS/KIBRIS						
		1999	2000	2001	2002	2003	2004	04/03
<b>Final energy consumption</b>								
Total		1 566	1 625	1 681	1 691	1 792	1 850	3.2%
<i>among which:</i>	Solid fuels	22	35	37	36	38	38	1.9%
	Petroleum products	1 270	1 296	1 341	1 327	1 404	1 400	-0.3%
	Natural Gas	-	-	-	-	-	-	-
	Renewables	36	37	36	37	37	97	162.4%
	Electricity	238	258	267	291	313	315	0.6%
<b>Final energy consumption by sector</b>								
<b>Industry</b>								
Total		427	437	409	421	440	545	23.9%
<i>among which:</i>	Solid fuels	22	35	37	36	38	38	1.9%
	Petroleum Products	367	364	333	344	359	458	27.6%
	Natural Gas	-	-	-	-	-	-	-
	Renewables	-	-	-	-	-	5	-
	Electricity	37	38	39	41	44	44	1.2%
<b>Transport</b>								
Total		830	852	927	897	953	859	-9.9%
<i>among which:</i>	Motor spirit	213	216	230	241	265	296	11.9%
	Diesel oil	344	344	372	344	354	257	-27.4%
	Jet fuel	271	290	322	310	332	303	-8.7%
	Electricity	2	2	2	2	3	3	3.3%
<b>Services&amp;households</b>								
Total		310	337	345	374	399	446	11.8%
<i>among which:</i>	Solid fuels	-	-	-	-	-	-	-
	Gas oil	-	-	-	-	-	-	-
	Natural Gas	-	-	-	-	-	-	-
	Renewables	36	37	36	37	37	92	149.7%
	Electricity	199	217	227	248	267	268	0.5%
	Heat	-	-	-	-	-	-	-

### 3.1 Electricity balance


 eurostat	KYPROS/KIBRIS						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	3 139	3 370	3 551	3 785	4 044	4 176	3.3%
<i>among which:</i>							
Hydro	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-
Conventional thermal	3 139	3 370	3 551	3 785	4 044	4 176	3.3%
<i>of which:</i>							
Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Petroleum products	3 139	3 370	3 551	3 785	4 044	4 176	3.3%
Natural gas	-	-	-	-	-	-	-
Derived gases	-	-	-	-	-	-	-
Biomass	-	-	-	-	-	-	-
Industrial wastes	-	-	-	-	-	-	-
Total net generation	2 986	3 205	3 364	3 574	3 822	3 950	3.3%
<b>Imports and exports</b>							
Total imports	-	-	-	-	-	-	-
Total exports	-	-	-	-	-	-	-
<b>Consumption and losses</b>							
Consumption of the energy branch	175	186	208	233	248	238	-4.0%
<i>of which:</i>							
Consumption for pumped-storage	-	-	-	-	-	-	-
Network losses	196	188	233	167	159	213	34.0%
Final energy consumption	2 768	2 996	3 110	3 385	3 637	3 658	0.6%
<i>of which:</i>							
Industry	427	446	451	474	507	513	1.2%
<i>among which:</i>							
Iron&steel industry	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-
Chemical industry	12	16	19	19	20	21	5.0%
Non-met. mineral prod.	168	185	183	186	200	192	-4.0%
Food, drink, tobacco	121	127	132	147	159	162	1.9%
Pulp, paper and print	14	15	16	16	17	18	5.9%
Engineering & metal	23	24	24	25	24	28	16.7%
Other industries	64	55	53	56	61	61	0.0%
Transport	21	22	24	26	30	31	3.3%
Services & households etc.	2 320	2 528	2 635	2 885	3 100	3 114	0.5%
<i>among which:</i>							
Households	952	1 055	1 042	1 157	1 294	1 316	1.7%

### 3.2 Electrical capacity, fuel inputs and heat


	KYPROS/KIBRIS							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	737	1 004	1 004	1 004	988	988	0.0%
<i>by source:</i>								
Conventional thermal		737	1 004	1 004	1 004	988	988	0.0%
<i>of which:</i>								
Steam		540	800	800	800	800	800	0.0%
Gas turbine		188	188	188	188	188	188	0.0%
Combined cycle		-	-	-	-	-	-	-
Internal combustion		-	-	-	-	-	-	-
Nuclear		-	-	-	-	-	-	-
Hydro		-	-	-	-	-	-	-
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		728	988	988	988	988	988	0.0%
Autoproducers		10	17	17	17	25	23	-8.0%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	839	862	854	890	1 046	999	-4.5%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		839	862	854	890	1 046	999	-4.5%
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	-	-	-	-	-	-	-
<i>among which: in heating plants</i>								
Heat consumption		-	-	-	-	-	-	-
<i>of which: in industry</i>								
in households and services		-	-	-	-	-	-	-
<i>among which: in households</i>								
		-	-	-	-	-	-	-




## 4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	KYPROS/KIBRIS						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		1 186	1 155	1 154	1 078	969	243	-74.9%
Total exports		-	-	-	-	-	-	-
Stock changes		-6	18	2	8	2	35	
Refinery intake		1 180	1 173	1 156	1 086	971	279	-71.3%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		-	-	-	-	-	-	-
Near and Middle East		110	441	715	40	631	141	-77.7%
Africa		617	112	-	-	-	-	-
<i>by country of origin:</i>								
Algeria		-	-	-	-	-	-	-
Nigeria		-	-	-	-	-	-	-
Saudi Arabia		-	-	-	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

## 4.2 Petroleum products


 eurostat	KYPROS/KIBRIS						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	1 179	1 172	1 151	1 082	968	279	-71.2%
<i>among which:</i>							
Motor spirit	148	153	150	153	146	40	-72.6%
Kerosene and jet fuel	34	37	37	36	39	11	-71.8%
Naphtha	-	-	-	-	-	-	-
Gas/diesel oil	411	406	390	362	327	88	-73.1%
Residual fuel oil	495	491	482	423	362	112	-69.1%
Total imports	1 281	1 417	1 344	1 525	1 701	2 190	28.7%
Total exports	-	-	-	-	-	-	-
Bunkers	155	194	193	139	125	57	-54.4%
Stock changes	-52	-39	69	-72	66	-5	-107.6%
Gross inland consumption	1 074	1 184	1 220	1 314	1 642	2 128	29.6%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	-	-	-	-	-	-	-
United Kingdom	2	-	148	-	11	7	-36.4%
Norway	-	-	29	35	-	-	-
OPEC	38	-	55	40	44	19	-56.8%
Imports by product							
<i>among which:</i>							
Motor spirit	57	62	84	78	110	239	117.3%
Kerosene and jet fuel	264	273	314	295	323	297	-8.0%
Gas/diesel oil	165	194	198	194	252	479	90.1%
Residual fuel oil	586	637	585	690	821	925	12.7%
Exports by product							
<i>among which:</i>							
Motor spirit	-	-	-	-	-	-	-
Kerosene and jet fuel	-	-	-	-	-	-	-
Gas/diesel oil	-	-	-	-	-	-	-
Residual fuel oil	-	-	-	-	-	-	-
<b>Consumption</b>							
Inputs to electricity plants	877	902	894	932	1 095	1 046	-4.5%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	94	90	89	92	78	75	-3.8%
Final energy consumption	1 283	1 305	1 345	1 333	1 409	1 407	-0.1%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	185	191	180	186	191	276	44.5%
Residual fuel oil	68	68	54	55	62	68	9.7%

 eurostat	KYPROS/KIBRIS							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		-	-	-	-	-	-	-
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		-	-	-	-	-	-	-
Non-met. mineral prod.		222	209	187	193	199	214	7.5%
Food, drink, tobacco		-	-	-	-	-	-	-
Pulp, paper and print		-	-	-	-	-	-	-
Engineering & metal		-	-	-	-	-	-	-
Other industries		185	185	180	186	191	282	47.6%
<b>Transport</b>		807	828	901	871	925	831	-10.2%
<i>among which:</i>								
Motor spirit		203	206	219	229	252	282	11.9%
Jet fuel		264	282	314	302	323	295	-8.7%
Diesel oil		340	340	368	340	350	254	-27.4%
<b>Services &amp; households etc.</b>		69	77	77	83	89	80	-10.1%
<i>among which:</i>								
Gas oil		-	-	-	-	-	-	-
Residual fuel oil		-	-	-	-	-	-	-
<b>Stocks at end of period</b>								
Crude oil and feedstocks		65	47	45	37	35	-	
Petroleum products		241	267	205	277	211	216	2.4%

## 5. Natural gas

 eurostat	in TJ (GCV)	KYPROS/KIBRIS						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		-	-	-	-	-	-	-
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-	-	-
Gross inland consumption		-	-	-	-	-	-	-
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		-	-	-	-	-	-	-
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		-	-	-	-	-	-	-
Distribution losses		-	-	-	-	-	-	-
Non-energy use		-	-	-	-	-	-	-
Industry		-	-	-	-	-	-	-
<i>among which:</i>								
Iron&steel industry		-	-	-	-	-	-	-
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		-	-	-	-	-	-	-
Non-met. mineral prod.		-	-	-	-	-	-	-
Food, drink, tobacco		-	-	-	-	-	-	-
Pulp, paper and print		-	-	-	-	-	-	-
Engineering & metal		-	-	-	-	-	-	-
Other industries		-	-	-	-	-	-	-
Transport		-	-	-	-	-	-	-
Services & households etc.		-	-	-	-	-	-	-
<i>among which:</i>								
Households		-	-	-	-	-	-	-
Services		-	-	-	-	-	-	-


## 6.1 Hard coal


 eurostat	KYPROS/KIBRIS							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	26	50	59	66	51	39	-23.5%	
Total exports	-	-	-	-	-	-	-	
Stock changes	4	-1	-6	-12	2	18	800.0%	
Gross inland consumption	30	49	53	54	53	57	7.5%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	
Poland	-	-	-	-	-	-	-	
CIS	-	-	-	-	-	-	-	
Australia	-	-	-	-	-	-	-	
South Africa	-	-	-	-	-	-	-	
Colombia	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants								
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.	30	49	53	53	53	57	7.5%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	-	-	-	-	-	-	-	
<b>Structural data</b>								
Personnel employed underground								
(annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines								
(end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

eurostat	KYPROS/KIBRIS						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
<i>among which:</i>							
Iron & steel industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	11	10	12	12	12	11	-8.3%
<i>among which:</i>							
Industry	11	10	12	12	12	11	-8.3%
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
<b>Total derived gases</b>	<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


		KYPROS/KIBRIS						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	44	45	44	45	42	97	131.7%
Hydro (excl. pumping)		-	-	-	-	-	-	-
Wind		-	-	-	-	-	-	-
Solar		35	35	34	35	36	92	155.8%
Geothermal		-	-	-	-	-	-	-
Biomass		9	9	9	10	6	5	-19.0%
	<i>among which:</i>							
Wood, wood-waste		9	9	9	10	6	4	-34.3%
Municipal solid waste		-	-	-	-	-	1	
Biogas		-	-	-	-	-	-	-
Gross inland consumption		44	45	44	45	42	97	131.7%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		-	-	-	-	-	-	-
	<i>among which:</i>							
Wood, wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	36	37	36	37	37	97	162.4%
	<i>by sector:</i>							
Industry		-	-	-	-	-	5	
Services & households etc.		36	37	36	37	37	92	149.7%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		1	1	1	1	1	5	429.7%
	<i>among which:</i>							
Wood, wood-waste		1	1	1	1	1	4	329.7%
Municipal waste		-	-	-	-	-	1	
Biogas		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		-	-	-	-	-	-	-
Hydro with installed capacity > 1 & <10 MW		-	-	-	-	-	-	-
Hydro with installed capacity > 10 MW		-	-	-	-	-	-	-
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-

	KYPROS/KIBRIS						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)		-	-	-	-	-	-
Hydro with installed capacity < 1 MW		-	-	-	-	-	-
Hydro with installed capacity > 1 & <10 MW		-	-	-	-	-	-
Hydro with installed capacity > 10 MW		-	-	-	-	-	-
Wood, Wood-waste		-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-
Biogas		-	-	-	-	-	-
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>	-	-	-	-	-	-




# 1. Energy economy

## Key figures and energy indicators

		LATVIJA					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	1 764	1 543	1 672	1 831	1 977	2 141
Net energy imports		2 218	2 301	2 533	2 430	2 672	3 043
Net oil imports		1 165	1 142	1 439	1 330	1 452	1 545
Net gas imports		1 026	1 113	1 087	1 144	1 406	1 739
Gross inland energy consumption		4 111	3 938	4 242	4 202	4 408	4 594
Final energy consumption		3 423	3 206	3 598	3 628	3 739	3 873
Industry		670	608	636	661	677	742
Transport		696	691	888	870	921	959
Services and households etc.		2 058	1 906	2 074	2 097	2 141	2 172
Gross electricity generation	GWh	4 110	4 136	4 280	3 975	3 975	4 689
Final electricity consumption		4 426	4 439	4 523	4 849	5 180	5 381
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	4 611	4 930	5 326	5 671	6 079	6 598
Population	1000 per.	2 399	2 382	2 364	2 346	2 332	2 319
Industry added value	Mio EUR	1 186	1 246	1 359	1 476	1 586	1 720
Total imports (current prices)	Mio EUR	2 600	2 672	3 054	3 197	3 615	4 215
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	891.7	798.9	796.5	741.0	725.1	696.3
Final energy consumption / GDP(95)		742.4	650.3	675.5	639.7	615.0	587.0
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		564.8	488.2	467.8	447.9	426.9	431.3
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		214.0	179.1	171.5	174.7	167.2	172.3
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	1 714	1 653	1 794	1 791	1 891	1 981
Final energy consumption / capita		1 427	1 346	1 522	1 547	1 604	1 670
Household consumption / capita		587	555	620	620	629	615
Final electricity consumption / capita	kWh/cap.	1 845	1 864	1 913	2 067	2 222	2 320
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	53.9	58.4	57.1	55.2	58.2	63.5
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	83.3	81.4	84.8	86.3	84.8	84.3
Efficiency of thermal power stations		78.7	78.7	79.6	80.2	81.2	80.9

## 2. Energy balance

### Principal aggregates by product

 eurostat	LATVIJA						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	1 764	1 543	1 672	1 831	1 977	2 141	8.3%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	71	16	17	34	2	3	62.5%
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	237	242	244	212	195	267	37.2%
Biomass	1 456	1 284	1 411	1 584	1 776	1 866	5.1%
<b>Imports</b>							
Total	2 696	2 532	2 795	2 796	3 185	3 915	22.9%
<i>among which:</i> Hard coal	84	54	59	69	78	59	-23.4%
Crude oil and feedstocks	14	60	20	17	8	4	-49.5%
Petroleum products	1 341	1 113	1 420	1 314	1 458	1 873	28.5%
Natural Gas	1 026	1 113	1 087	1 144	1 406	1 739	23.7%
Electricity	223	181	201	244	230	235	2.3%
<b>Exports</b>							
Total	478	232	262	365	513	872	69.9%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	190	32	1	1	14	332	
Natural gas	-	-	-	-	-	-	-
Electricity	55	28	39	42	3	55	
<b>Gross inland consumption</b>							
Total	4 111	3 938	4 242	4 202	4 408	4 594	4.2%
<i>among which:</i> Solid fuels	128	135	123	99	90	67	-24.7%
Crude oil and petrol. prod.	1 402	1 203	1 232	1 153	1 273	1 358	6.7%
Natural gas	990	1 092	1 270	1 291	1 347	1 332	-1.1%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	1 424	1 354	1 456	1 456	1 465	1 649	12.5%
<b>Transformation input</b>							
Total	1 296	1 122	1 208	1 210	1 256	1 197	-4.7%
<i>among which:</i> Crude oil and feedstocks	1	1	1	1	1	1	0.0%
Petroleum products	400	133	107	104	77	66	-14.2%
Hard coal	12	12	12	8	7	7	0.0%
Lignite and peat	29	51	29	24	16	1	-90.9%
Renewables	221	199	222	262	302	314	3.9%
<b>Transformation output</b>							
Total	984	876	936	919	944	875	-7.3%
<i>among which:</i> Electricity	116	113	124	129	143	132	-7.8%
Heat	864	761	811	789	801	743	-7.2%

**Final energy consumption**

Total	3 423	3 206	3 598	3 628	3 739	3 873	3.6%
<i>among which:</i> Solid fuels	77	57	80	67	60	58	-2.0%
Petroleum products	1 011	939	1 125	1 094	1 169	1 210	3.5%
Natural Gas	319	329	390	447	456	492	7.8%
Renewables	965	909	985	975	960	1 055	9.9%
Electricity	381	382	389	417	445	463	3.9%

**Final energy consumption by sector**
**Industry**

Total	670	608	636	661	677	742	9.6%
<i>among which:</i> Solid fuels	11	8	10	12	9	9	0.8%
Petroleum Products	198	147	97	94	97	99	1.8%
Natural Gas	193	207	254	282	275	284	3.5%
Renewables	118	107	127	127	136	187	37.3%
Electricity	123	123	133	131	138	140	1.8%


**Transport**

Total	696	691	888	870	921	959	4.1%
<i>among which:</i> Motor spirit	351	306	365	357	357	359	0.6%
Diesel oil	290	326	459	453	489	514	5.2%
Jet fuel	37	27	27	28	40	48	20.5%
Electricity	10	10	10	10	10	10	0.9%


**Services&households**

Total	2 058	1 906	2 074	2 097	2 141	2 172	1.5%
<i>among which:</i> Solid fuels	66	49	69	55	50	49	-2.5%
Gas oil	64	64	99	92	113	112	-0.9%
Natural Gas	125	120	134	164	180	206	14.4%
Renewables	847	802	858	848	824	868	5.3%
Electricity	248	249	246	276	298	312	4.9%
Heat	643	574	615	613	626	573	-8.6%


### 3.1 Electricity balance

 eurostat	LATVIJA						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	4 110	4 136	4 280	3 975	3 975	4 689	18.0%
<i>among which:</i>							
Hydro	2 757	2 819	2 833	2 463	2 266	3 109	37.2%
Wind	2	4	3	11	48	49	2.1%
Geothermal	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-
Conventional thermal	1 351	1 313	1 444	1 501	1 661	1 531	-7.8%
<i>of which:</i>							
Hard coal	-	-	-	-	-	-	-
Lignite and peat	37	78	42	38	22	-	-
Petroleum products	358	107	95	139	82	60	-26.8%
Natural gas	956	1 128	1 304	1 314	1 533	1 433	-6.5%
Derived gases	-	-	-	-	-	-	-
Biomass	-	-	3	10	24	38	58.3%
Industrial wastes	-	-	-	-	-	-	-
Total net generation	3 942	3 980	4 145	3 831	3 751	4 468	19.1%
<b>Imports and exports</b>							
Total imports	2 597	2 108	2 340	2 838	2 671	2 733	2.3%
Total exports	642	322	457	490	38	636	
<b>Consumption and losses</b>							
Consumption of the energy branch	529	491	650	481	526	520	-1.1%
<i>of which:</i>							
Consumption for pumped-storage	-	-	-	-	-	-	-
Network losses	1 110	992	990	993	902	885	-1.9%
Final energy consumption	4 426	4 439	4 523	4 849	5 180	5 381	3.9%
<i>of which:</i>							
Industry	1 425	1 433	1 545	1 526	1 605	1 634	1.8%
<i>among which:</i>							
Iron&steel industry	110	125	132	137	140	147	5.0%
Non-ferrous metals	2	-	-	3	-	3	
Chemical industry	106	68	78	75	75	66	-12.0%
Non-met. mineral prod.	93	85	93	100	105	105	0.0%
Food, drink, tobacco	306	300	311	308	313	298	-4.8%
Pulp, paper and print	27	33	27	36	39	42	7.7%
Engineering & metal	191	195	229	199	211	217	2.8%
Other industries	361	398	447	447	502	557	11.0%
Transport	119	114	113	111	115	116	0.9%
Services & households etc.	2 882	2 892	2 865	3 212	3 460	3 631	4.9%
<i>among which:</i>							
Households	1 147	1 189	1 239	1 317	1 421	1 467	3.2%

## 3.2 Electrical capacity, fuel inputs and heat


	LATVIJA							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	2 111	2 109	2 093	2 137	2 155	2 132	-1.1%
<i>by source:</i>								
Conventional thermal		589	577	576	583	589	590	0.2%
<i>of which:</i>								
Steam		589	577	576	560	559	557	-0.4%
Gas turbine		-	-	-	-	-	-	-
Combined cycle		-	-	-	-	-	-	-
Internal combustion		-	-	-	-	-	-	-
Nuclear		-	-	-	-	-	-	-
Hydro		1 521	1 530	1 515	1 532	1 540	1 517	-1.5%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		1	2	2	22	26	25	-3.8%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		2 066	2 075	2 066	2 110	2 124	2 102	-1.0%
Autoproducers		46	34	27	27	31	30	-3.2%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	566	505	578	601	621	600	-3.4%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		23	47	26	23	14	-	-
Petroleum products		179	70	50	50	34	26	-25.0%
Natural gas		364	388	497	510	548	535	-2.3%
Renewables		-	-	6	18	24	39	59.9%
Heating plants		725	614	629	608	634	596	-6.0%
<i>among which:</i>								
Hard coal		12	12	12	8	7	7	0.0%
Lignite and peat		3	3	2	1	1	1	-0.3%
Petroleum products		222	63	57	54	43	40	-5.6%
Natural gas		268	338	341	301	304	272	-10.8%
Renewables		221	199	217	244	278	275	-1.0%
<b>Heat production and consumption</b>								
Total heat production	TJ	864	761	811	789	801	743	-7.2%
<i>among which: in heating plants</i>								
		535	476	475	437	439	389	-11.5%
Heat consumption		671	590	630	629	641	587	-8.4%
<i>of which: in industry</i>								
		28	16	15	15	15	15	-2.9%
<i>in households and services</i>								
		643	574	615	613	626	573	-8.6%
<i>among which: in households</i>								
		499	440	469	466	476	433	-9.1%

## 4.1 Crude oil and feedstocks

 eurostat	in 1 000 t	LATVIJA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		14	59	20	17	8	4	-49.4%
Total exports		-	-	-	-	-	-	-
Stock changes		-	-7	3	-2	1	-	-
Refinery intake		-	-	-	-	-	-	-
<b>Imports of Crude Oil by origin</b>								
<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		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-


## 4.2 Petroleum products

eurostat	LATVIJA							04/03
	1999	2000	2001	2002	2003	2004		
<i>in 1 000 t</i>								
<b>Production and supply</b>								
Total refinery output	-	-	-	-	-	-	-	-
<i>among which:</i>								
Motor spirit	-	-	-	-	-	-	-	-
Kerosene and jet fuel	-	-	-	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-
Gas/diesel oil	-	-	-	-	-	-	-	-
Residual fuel oil	-	-	-	-	-	-	-	-
Total imports	1 357	1 114	1 422	1 315	1 465	1 866	27.4%	
Total exports	183	31	1	1	16	336		
Bunkers	-	-	197	208	190	205	7.9%	
Stock changes	246	70	-19	22	-8	12	250.0%	
Gross inland consumption	1 421	1 154	1 206	1 138	1 263	1 341	6.2%	
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands	4	2	-	-	-	-	-	-
United Kingdom	8	-	2	2	-	21		
Norway	113	20	29	24	37	35	-5.4%	
OPEC	-	-	-	-	-	-	-	-
Imports by product								
<i>among which:</i>								
Motor spirit	356	353	289	286	322	418	29.8%	
Kerosene and jet fuel	42	35	27	29	36	113	213.9%	
Gas/diesel oil	385	397	665	613	669	776	16.0%	
Residual fuel oil	384	148	288	219	224	208	-7.1%	
Exports by product								
<i>among which:</i>								
Motor spirit	156	11	-	-	-	76		
Kerosene and jet fuel	-	-	-	-	-	-	-	
Gas/diesel oil	8	19	-	1	-	50		
Residual fuel oil	18	-	-	-	-	200		
<b>Consumption</b>								
Inputs to electricity plants	187	73	52	52	36	27	-25.0%	
Inputs to heating plants	232	66	61	57	45	43	-4.4%	
Non-energy use	77	72	60	72	76	75	-1.3%	
Final energy consumption	1 000	927	1 110	1 082	1 159	1 201	3.6%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	36	35	32	29	28	32	14.3%	
Residual fuel oil	143	92	35	27	17	10	-41.2%	


 eurostat	LATVIJA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	27	28	24	23	23	23	23	0.0%
Non-ferrous metals	-	-	6	15	-	-	-	-
Chemical industry	4	3	3	4	3	-	-	-
Non-met. mineral prod.	53	37	11	21	40	41	41	2.5%
Food, drink, tobacco	66	49	35	32	24	22	22	-8.3%
Pulp, paper and print	-	-	-	-	-	-	-	-
Engineering & metal	8	4	4	2	2	2	2	0.0%
Other industries	28	25	22	21	20	26	26	30.0%
<b>Transport</b>	663	659	851	834	884	921	921	4.2%
<i>among which:</i>								
Motor spirit	334	291	347	340	340	342	342	0.6%
Jet fuel	36	26	26	27	39	47	47	20.5%
Diesel oil	287	323	454	448	484	509	509	5.2%
<b>Services &amp; households etc.</b>	126	110	150	139	159	162	162	1.9%
<i>among which:</i>								
Gas oil	63	63	98	91	112	111	111	-0.9%
Residual fuel oil	23	18	18	13	12	11	11	-8.3%
<b>Stocks at end of period</b>								
Crude oil and feedstocks	-	11	10	12	11	11	11	0.0%
Petroleum products	238	168	186	168	180	168	168	-6.7%




## 5. Natural gas

 eurostat	LATVIJA								
	in TJ (GCV)		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>									
Primary production		-	-	-	-	-	-	-	-
Total imports		47 709	51 790	50 565	53 210	65 403	80 880	23.7%	
Total exports		-	-	-	-	-	-	-	
Stock changes		-1 664	-972	8 503	6 870	-2 728	-18 897	-592.7%	
Gross inland consumption		46 045	50 818	59 068	60 080	62 675	61 983	-1.1%	
<b>Imports</b>									
Imports by origin									
<i>among which:</i>									
CIS		47 709	51 790	50 565	53 210	65 403	80 880	23.7%	
Algeria		-	-	-	-	-	-	-	
Norway		-	-	-	-	-	-	-	
<b>Consumption</b>									
Inputs to electricity plants		16 939	18 061	23 110	23 748	25 488	24 898	-2.3%	
Inputs to heat plants		12 463	15 706	15 844	14 003	14 165	12 635	-10.8%	
Consumption of energy branch		703	897	974	896	972	969	-0.3%	
Distribution losses		1 109	748	524	635	822	596	-27.5%	
Non-energy use		-	-	-	-	-	-	-	
Industry		8 987	9 647	11 799	13 106	12 782	13 231	3.5%	
<i>among which:</i>									
Iron&steel industry		4 290	4 338	4 509	4 331	4 410	4 473	1.4%	
Non-ferrous metals		111	187	211	299	336	298	-11.3%	
Chemical industry		222	224	262	299	336	447	33.0%	
Non-met. mineral prod.		776	898	2 023	2 613	2 093	2 050	-2.1%	
Food, drink, tobacco		2 219	2 206	2 547	2 875	2 616	3 094	18.3%	
Pulp, paper and print		111	112	150	149	187	186	-0.5%	
Engineering & metal		222	224	337	411	524	484	-7.6%	
Other industries		629	635	712	897	1 047	1 006	-3.9%	
Transport		37	75	112	75	75	75	0.0%	
Services & households etc.		5 807	5 572	6 218	7 617	8 371	9 579	14.4%	
<i>among which:</i>									
Households		3 144	2 954	3 334	3 659	4 074	4 398	8.0%	
Services		2 108	2 057	2 210	3 249	3 475	4 175	20.1%	


## 6.1 Hard coal


 eurostat	LATVIJA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	124	80	87	102	124	95	-23.4%	
Total exports	-	-	-	-	-	-	-	
Stock changes	2	17	40	-	-23	3	113.0%	
Gross inland consumption	126	97	127	102	101	98	-3.0%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	
Poland	-	-	-	-	-	-	-	
CIS	-	-	-	-	-	-	-	
Australia	-	-	-	-	-	-	-	
South Africa	-	-	-	-	-	-	-	
Colombia	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants	-	-	-	-	-	-	-	
Inputs to heat plants	18	17	17	12	11	11	0.0%	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry	13	8	8	8	9	8	-11.1%	
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	1	1	1	1	1	1	0.0%	
Food, drink, tobacco	6	4	4	4	5	4	-20.0%	
Pulp, paper and print	1	-	1	1	1	1	0.0%	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	2	2	1	1	1	1	0.0%	
Services & households etc.	95	71	101	81	80	78	-2.5%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

 eurostat	LATVIJA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	296	68	69	142	8	13	62.5%
Brown coal briquettes	6	2	1	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	2	4	8	10	6	7	16.7%
<i>among which:</i>							
Iron & steel industry	2	4	8	9	5	7	40.0%
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	2	1	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	2	1	-	-	-	-	-
Brown coal briquettes	4	2	1	-	-	-	-
<i>among which:</i>							
Industry	1	-	-	-	-	-	-
Services & households	3	2	1	-	-	-	-
<b>Total derived gases</b>	<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

		LATVIJA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	1 693	1 527	1 655	1 797	1 975	2 137	8.2%
Hydro (excl. pumping)		237	242	244	212	195	267	37.2%
Wind		0	0	0	1	4	4	2.1%
Solar		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Biomass		1 456	1 284	1 411	1 584	1 776	1 866	5.1%
	<i>among which:</i>							
Wood, wood-waste		1 456	1 284	1 411	1 583	1 772	1 859	4.9%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		-	-	-	1	4	7	77.3%
Gross inland consumption		1 424	1 354	1 456	1 456	1 465	1 649	12.5%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		221	199	222	262	302	314	3.9%
	<i>among which:</i>							
Wood, wood-waste		221	199	222	260	301	310	3.2%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	1	2	4	120.5%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	965	909	985	975	960	1 055	9.9%
	<i>by sector:</i>							
Industry		118	107	127	127	136	187	37.3%
Services & households etc.		847	802	858	848	824	868	5.3%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		965	909	985	975	960	1 055	9.9%
	<i>among which:</i>							
Wood, wood-waste		965	909	985	975	958	1 053	10.0%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	2	1	-36.7%
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		11	17	29	24	43	46	7.0%
Hydro with installed capacity > 1 & <10 MW		7	8	8	8	14	23	64.3%
Hydro with installed capacity > 10 MW		2 739	2 794	2 796	2 431	2 213	3 040	37.4%
Wood, Wood-waste		-	-	3	6	6	6	0.0%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-

	LATVIJA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	6	8	11	17	20	19	-5.0%
Hydro with installed capacity > 1 & <10 MW	1	1	1	2	6	7	16.7%
Hydro with installed capacity > 10 MW	1 504	1 504	1 511	1 511	1 511	1 511	0.0%
Wood, Wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	-	-	-	-	-	-
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	-	-	-	-	-	-	-


# 1. Energy economy

## Key figures and energy indicators

		LIETUVA					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	3 459	3 161	4 078	4 801	5 101	4 959
Net energy imports		4 353	4 354	3 939	3 753	4 124	4 443
Net oil imports		2 662	2 297	2 050	1 991	2 225	2 538
Net gas imports		1 826	2 090	2 171	2 195	2 384	2 372
Gross inland energy consumption		7 911	7 238	7 992	8 639	9 000	9 150
Final energy consumption		4 056	3 741	3 865	4 015	4 128	4 281
Industry		825	781	776	861	913	937
Transport		1 170	1 048	1 142	1 176	1 201	1 319
Services and households etc.		2 061	1 913	1 946	1 978	2 014	2 026
Gross electricity generation	GWh	13 535	11 424	14 737	17 721	19 488	19 273
Final electricity consumption		6 520	6 171	6 406	6 693	7 142	7 612
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	5 773	5 999	6 385	6 817	7 532	8 058
Population	1000 per.	3 536	3 512	3 487	3 476	3 463	3 446
Industry added value	Mio EUR	1 719	1 724	1 948	2 065	2 421	2 649
Total imports (current prices)	Mio EUR	4 276	4 479	5 267	6 199	6 836	7 849
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	1 370.4	1 206.5	1 251.6	1 267.4	1 194.8	1 135.6
Final energy consumption / GDP(95)		702.7	623.7	605.2	589.0	548.1	531.3
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		480.0	453.0	398.5	416.7	376.9	353.6
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		174.9	146.3	141.0	136.7	137.0	134.4
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	2 237	2 061	2 292	2 486	2 599	2 655
Final energy consumption / capita		1 147	1 065	1 108	1 155	1 192	1 242
Household consumption / capita		401	383	394	397	400	397
Final electricity consumption / capita	kWh/cap.	1 844	1 757	1 837	1 926	2 063	2 209
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	54.5	59.4	48.7	42.9	45.3	48.0
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	51.3	51.7	48.4	46.5	45.9	46.8
Efficiency of thermal power stations		72.9	75.9	72.5	79.6	81.8	81.1

## 2. Energy balance

### Principal aggregates by product

 eurostat	LIETUVA						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	3 459	3 161	4 078	4 801	5 101	4 959	-2.8%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	23	12	10	14	13	14	8.7%
Crude oil	236	322	480	442	389	307	-21.0%
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	2 544	2 172	2 931	3 648	3 994	3 896	-2.5%
Hydro-electricity	36	29	28	30	28	36	29.5%
Biomass	621	627	630	666	677	706	4.3%
<b>Imports</b>							
Total	7 651	8 094	9 713	9 407	10 542	12 318	16.9%
<i>among which:</i> Hard coal	87	78	64	134	177	157	-11.5%
Crude oil and feedstocks	4 726	5 144	6 777	6 391	7 303	8 971	22.8%
Petroleum products	581	328	311	288	310	435	40.7%
Natural Gas	1 826	2 090	2 171	2 195	2 384	2 372	-0.5%
Electricity	421	443	382	390	356	369	3.6%
<b>Exports</b>							
Total	3 298	3 740	5 774	5 654	6 418	7 876	22.7%
<i>among which:</i> Crude oil and feedstocks	231	317	358	126	293	196	-33.0%
Petroleum products	2 414	2 858	4 680	4 561	5 095	6 672	31.0%
Natural gas	-	-	-	-	-	-	-
Electricity	651	558	723	947	1 004	988	-1.6%
<b>Gross inland consumption</b>							
Total	7 911	7 238	7 992	8 639	9 000	9 150	1.7%
<i>among which:</i> Solid fuels	136	99	90	147	188	183	-2.4%
Crude oil and petrol. prod.	3 009	2 344	2 459	2 513	2 376	2 584	8.8%
Natural gas	1 826	2 090	2 171	2 195	2 384	2 372	-0.5%
Nuclear Energy	2 544	2 172	2 931	3 648	3 994	3 896	-2.5%
Renewables	627	649	682	694	705	734	4.1%
<b>Transformation input</b>							
Total	9 059	8 841	11 580	12 023	12 968	14 435	11.3%
<i>among which:</i> Crude oil and feedstocks	4 697	5 088	6 993	6 747	7 318	8 853	21.0%
Petroleum products	867	393	455	393	242	220	-9.1%
Hard coal	8	7	8	7	7	7	0.0%
Lignite and peat	11	6	6	7	8	9	14.3%
Renewables	21	39	68	100	122	154	26.7%
<b>Transformation output</b>							
Total	6 971	7 078	9 216	9 326	10 056	11 542	14.8%
<i>among which:</i> Electricity	1 090	927	1 207	1 457	1 591	1 576	-0.9%
Heat	1 276	1 152	1 142	1 202	1 227	1 184	-3.5%

**Final energy consumption**

Total	4 056	3 741	3 865	4 015	4 128	4 281	3.7%
<i>among which:</i> Solid fuels	122	88	77	136	175	172	-1.9%
Petroleum products	1 534	1 348	1 411	1 399	1 385	1 502	8.5%
Natural Gas	364	367	390	423	438	482	9.8%
Renewables	572	579	585	592	594	576	-3.0%
Electricity	561	531	551	575	614	655	6.6%

**Final energy consumption by sector**
**Industry**

Total	825	781	776	861	913	937	2.6%
<i>among which:</i> Solid fuels	17	13	10	55	86	87	0.7%
Petroleum Products	214	170	153	101	67	78	15.9%
Natural Gas	182	205	220	244	251	275	9.4%
Renewables	25	31	46	81	99	103	3.6%
Electricity	207	197	202	219	226	236	4.3%

**Transport**


Total	1 170	1 048	1 142	1 176	1 201	1 319	9.8%
<i>among which:</i> Motor spirit	505	391	390	377	375	359	-4.2%
Diesel oil	557	507	588	613	615	706	14.8%
Jet fuel	27	27	35	31	33	39	18.7%
Electricity	4	4	4	4	5	5	1.9%

**Services&households**


Total	2 061	1 913	1 946	1 978	2 014	2 026	0.6%
<i>among which:</i> Solid fuels	106	75	66	81	89	85	-4.3%
Gas oil	48	39	33	38	39	39	0.0%
Natural Gas	183	162	170	179	187	207	10.5%
Renewables	547	548	539	511	494	473	-4.4%
Electricity	349	329	345	352	383	414	8.0%
Heat	723	663	706	728	740	737	-0.4%




### 3.1 Electricity balance

 eurostat	LIETUVA						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	13 535	11 424	14 737	17 721	19 488	19 273	-1.1%
<i>among which:</i>							
Hydro	861	643	701	781	985	943	-4.3%
Wind	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
Nuclear	9 862	8 419	11 362	14 142	15 484	15 102	-2.5%
Conventional thermal	2 812	2 362	2 674	2 798	3 019	3 228	6.9%
<i>of which:</i>							
Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Petroleum products	1 752	654	720	547	327	361	10.4%
Natural gas	1 000	1 617	1 884	2 109	2 518	2 691	6.9%
Derived gases	-	-	-	-	-	-	-
Biomass	-	-	2	4	7	6	-14.3%
Industrial wastes	60	91	68	138	167	170	1.8%
Total net generation	11 949	10 039	13 218	16 078	17 878	17 705	-1.0%
<b>Imports and exports</b>							
Total imports	4 893	5 150	4 442	4 532	4 144	4 293	3.6%
Total exports	7 575	6 486	8 406	11 018	11 674	11 488	-1.6%
<b>Consumption and losses</b>							
Consumption of the energy branch	2 556	2 332	2 576	2 689	2 751	2 672	-2.9%
<i>of which:</i>							
Consumption for pumped-storage	167	122	142	153	230	197	-14.3%
Network losses	1 330	1 281	1 416	1 426	1 405	1 273	-9.4%
Final energy consumption	6 520	6 171	6 406	6 693	7 142	7 612	6.6%
<i>of which:</i>							
Industry	2 408	2 294	2 346	2 546	2 630	2 744	4.3%
<i>among which:</i>							
Iron&steel industry	57	53	54	40	34	32	-5.9%
Non-ferrous metals	-	-	-	-	-	-	-
Chemical industry	465	451	450	507	551	554	0.5%
Non-met. mineral prod.	219	186	189	232	236	211	-10.6%
Food, drink, tobacco	491	441	433	454	451	453	0.4%
Pulp, paper and print	103	124	135	99	86	86	0.0%
Engineering & metal	352	348	371	391	399	431	8.0%
Other industries	349	360	382	472	526	650	23.6%
Transport	51	50	50	52	53	54	1.9%
Services & households etc.	4 061	3 827	4 010	4 095	4 459	4 814	8.0%
<i>among which:</i>							
Households	1 886	1 767	1 818	1 811	1 895	2 066	9.0%

## 3.2 Electrical capacity, fuel inputs and heat


		LIETUVA						04/03
		1999	2000	2001	2002	2003	2004	
<b>Net electrical capacity</b>								
Total installed capacity	MW	6 538	6 557	6 568	6 564	5 703	5 710	0.1%
<i>by source:</i>								
Conventional thermal		2 628	2 643	2 652	2 648	2 467	2 473	0.2%
<i>of which:</i>								
Steam		2 628	2 643	2 652	2 648	2 467	2 473	0.2%
Gas turbine		-	-	-	-	-	-	-
Combined cycle		-	-	-	-	-	-	-
Internal combustion		-	-	-	-	-	-	-
Nuclear		3 000	3 000	3 000	3 000	2 367	2 367	0.0%
Hydro		910	914	916	916	869	870	0.1%
<i>among which:</i>								
Pumped storage		800	800	800	800	760	760	0.0%
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		6 477	6 481	6 486	6 486	5 665	5 673	0.1%
Autoproducers		61	76	82	78	38	38	0.0%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	1 074	922	1 009	991	1 043	1 151	10.3%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		517	196	220	225	142	157	10.7%
Natural gas		557	726	778	745	883	985	11.5%
Renewables		-	-	11	20	18	9	-50.0%
Heating plants		740	658	645	634	608	529	-13.0%
<i>among which:</i>								
Hard coal		8	7	8	7	7	7	0.0%
Lignite and peat		4	2	3	3	3	3	22.2%
Petroleum products		350	197	234	167	100	62	-37.4%
Natural gas		355	410	341	377	394	311	-21.0%
Renewables		21	39	57	80	103	145	40.1%
<b>Heat production and consumption</b>								
Total heat production	TJ	1 276	1 152	1 142	1 202	1 227	1 184	-3.5%
<i>among which: in heating plants</i>								
		679	604	587	599	581	480	-17.5%
Heat consumption		904	828	851	890	922	895	-2.9%
<i>of which: in industry</i>								
		181	164	145	162	182	158	-13.2%
<i>in households and services</i>								
		723	663	706	728	740	737	-0.4%
<i>among which: in households</i>								
		534	484	517	544	544	535	-1.7%

## 4.1 Crude oil and feedstocks


 eurostat	LIETUVA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		232	316	471	434	382	302	-20.9%
Total imports		4 656	5 052	6 651	6 276	7 177	8 822	22.9%
Total exports		228	311	351	124	288	193	-33.0%
Stock changes		-1	-46	125	80	-75	-187	-149.3%
Refinery intake		4 625	4 995	6 861	6 625	7 191	8 706	21.1%
<b>Imports of Crude Oil by origin</b>								
<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		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

## 4.2 Petroleum products


eurostat	LIETUVA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output		4 527	4 903	6 732	6 542	7 106	8 629	21.4%
<i>among which:</i>								
Motor spirit		1 369	1 559	1 889	1 719	1 882	2 331	23.9%
Kerosene and jet fuel		304	466	669	655	695	850	22.3%
Naphtha		-	-	-	-	-	-	-
Gas/diesel oil		1 476	1 450	2 021	1 850	2 064	2 523	22.2%
Residual fuel oil		867	798	1 161	1 229	1 381	1 673	21.1%
Total imports		586	325	309	291	309	438	41.7%
Total exports		2 355	2 790	4 570	4 472	5 010	6 568	31.1%
Bunkers		74	94	102	112	112	113	0.9%
Stock changes		184	-157	-131	90	-71	15	121.1%
Gross inland consumption		-1 659	-2 700	-4 482	-4 199	-4 883	-6 226	27.5%
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands		8	-	-	1	1	-	-
United Kingdom		5	-	-	1	-	-	-
Norway		8	-	-	9	12	-	-
OPEC		-	-	-	-	-	-	-
Imports by product								
<i>among which:</i>								
Motor spirit		91	17	24	2	2	4	100.0%
Kerosene and jet fuel		4	20	26	25	25	23	-8.0%
Gas/diesel oil		59	39	71	50	39	123	215.4%
Residual fuel oil		328	138	98	118	124	154	24.2%
Exports by product								
<i>among which:</i>								
Motor spirit		955	1 155	1 585	1 396	1 563	2 062	31.9%
Kerosene and jet fuel		245	386	489	483	415	544	31.1%
Gas/diesel oil		766	667	1 444	1 401	1 651	2 180	32.0%
Residual fuel oil		273	415	639	742	979	1 347	37.6%
<b>Consumption</b>								
Inputs to electricity plants		542	206	233	239	150	168	12.0%
Inputs to heating plants		366	206	245	175	104	65	-37.5%
Non-energy use		138	120	125	146	162	206	27.2%
Final energy consumption		1 497	1 311	1 372	1 356	1 338	1 453	8.6%
Industry								
<i>among which by product:</i>								
Gas/diesel oil		38	26	24	21	23	25	8.7%
Residual fuel oil		174	140	127	75	38	47	23.7%

 eurostat	LIETUVA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		-	-	-	-	-	-	-
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		5	3	3	1	1	-	
Non-met. mineral prod.		105	90	89	52	14	27	92.9%
Food, drink, tobacco		58	46	32	16	20	19	-5.0%
Pulp, paper and print		7	1	1	1	1	-	
Engineering & metal		2	3	5	5	2	2	0.0%
Other industries		35	24	21	22	23	24	4.3%
<b>Transport</b>		1 128	1 008	1 101	1 133	1 156	1 270	9.9%
<i>among which:</i>								
Motor spirit		481	372	371	359	357	342	-4.2%
Jet fuel		26	26	34	30	32	38	18.8%
Diesel oil		551	502	582	607	609	699	14.8%
<b>Services &amp; households etc.</b>		148	128	113	120	114	104	-8.8%
<i>among which:</i>								
Gas oil		48	39	33	38	39	39	0.0%
Residual fuel oil		31	12	7	11	7	4	-42.9%
<b>Stocks at end of period</b>								
Crude oil and feedstocks		349	386	262	181	256	443	73.0%
Petroleum products		440	597	728	638	709	695	-2.0%


## 5. Natural gas

 eurostat	LIETUVA							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		84 946	97 244	101 015	102 123	110 900	110 335	-0.5%
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-	-	-
Gross inland consumption		84 946	97 244	101 015	102 123	110 900	110 335	-0.5%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		84 946	97 244	101 015	102 123	110 900	110 335	-0.5%
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		25 910	33 780	36 202	34 665	41 086	45 809	11.5%
Inputs to heat plants		16 497	19 076	15 865	17 531	18 343	14 483	-21.0%
Consumption of energy branch		170	158	531	572	507	508	0.2%
Distribution losses		1 251	1 258	1 165	721	1 120	1 015	-9.4%
Non-energy use		24 163	25 898	29 103	28 977	29 445	25 455	-13.6%
Industry		8 448	9 553	10 234	11 346	11 690	12 784	9.4%
<i>among which:</i>								
Iron&steel industry		11	14	29	4	7	60	757.1%
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		476	207	216	283	395	2 082	427.1%
Non-met. mineral prod.		1 938	1 934	2 079	1 440	1 442	1 334	-7.5%
Food, drink, tobacco		2 594	3 270	3 248	4 264	4 527	4 174	-7.8%
Pulp, paper and print		839	1 307	1 507	1 030	474	60	-87.3%
Engineering & metal		1 102	1 218	1 077	1 291	1 419	1 556	9.7%
Other industries		654	666	817	1 576	1 838	2 027	10.3%
Transport		-	-	-	-	-	-	-
Services & households etc.		8 507	7 521	7 915	8 311	8 709	9 623	10.5%
<i>among which:</i>								
Households		5 674	4 899	5 062	5 186	5 585	5 725	2.5%
Services		1 979	1 465	1 537	1 811	1 883	2 446	29.9%

## 6.1 Hard coal


 eurostat	LIETUVA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	- #VALUE!
Total imports	145	130	106	223	295	261	-11.5%	
Total exports	-	-	-	-	-	1		
Stock changes	29	-	9	-12	-24	3	112.5%	
Gross inland consumption	174	130	115	211	271	263	-3.0%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	
Poland	-	-	-	-	-	-	-	
CIS	-	-	-	-	-	-	-	
Australia	-	-	-	-	-	-	-	
South Africa	-	-	-	-	-	-	-	
Colombia	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants	-	-	-	-	-	-	-	
Inputs to heat plants	13	12	13	11	12	12	0.0%	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry	11	6	4	79	129	130	0.8%	
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	-	-	-	74	124	125	0.8%	
Food, drink, tobacco	4	3	2	3	2	1	-50.0%	
Pulp, paper and print	2	1	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	1	1	1	1	3	2	-33.3%	
Services & households etc.	148	112	98	120	129	121	-6.2%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	


## 6.2 Coal derivatives and peat

 eurostat	LIETUVA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	83	42	35	50	46	50	8.7%
Brown coal briquettes	15	10	9	11	15	15	0.0%
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	13	12	10	10	12	12	0.0%
<i>among which:</i>							
Iron & steel industry	1	1	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	32	16	15	15	14	14	0.0%
<i>among which:</i>							
Industry	3	4	3	1	1	1	0.0%
Services & households	29	12	12	14	13	13	0.0%
Brown coal briquettes	18	10	9	11	16	18	12.5%
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	18	10	9	11	16	18	12.5%
<b>Total derived gases</b>	<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

		LIETUVA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	656	656	658	697	705	742	5.3%
Hydro (excl. pumping)		36	29	28	30	28	36	29.5%
Wind		-	-	-	-	-	-	-
Solar		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Biomass		621	627	630	666	677	706	4.3%
	<i>among which:</i>							
Wood, wood-waste		621	627	630	665	675	701	3.8%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		-	-	-	1	2	2	-12.8%
Gross inland consumption		627	649	682	694	705	734	4.1%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		21	39	68	100	122	154	26.7%
	<i>among which:</i>							
Wood, wood-waste		21	39	68	99	121	153	26.7%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	1	1	1	16.7%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	572	579	585	592	594	576	-3.0%
	<i>by sector:</i>							
Industry		25	31	46	81	99	103	3.6%
Services & households etc.		547	548	539	511	494	473	-4.4%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		572	579	585	592	594	576	-3.0%
	<i>among which:</i>							
Wood, wood-waste		572	579	585	591	593	575	-3.0%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	1	1	1	-31.3%
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		22	22	31	26	29	43	48.3%
Hydro with installed capacity > 1 & <10 MW		4	5	10	11	12	18	50.0%
Hydro with installed capacity > 10 MW		388	312	285	317	284	359	26.4%
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-

	LIETUVA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	7	9	11	9	13	13	0.0%
Hydro with installed capacity > 1 & <10 MW	2	4	4	6	6	7	16.7%
Hydro with installed capacity > 10 MW	101	101	101	101	101	101	0.0%
Wood, Wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	-	-	-	-	-	-
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	4	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	-	-	-	-	-	-	-


# 1. Energy economy

## Key figures and energy indicators

		LUXEMBOURG					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	46	57	50	56	60	73
Net energy imports		3 347	3 620	3 687	3 939	4 142	4 590
Net oil imports		2 100	2 332	2 396	2 498	2 682	3 007
Net gas imports		656	670	695	1 053	1 064	1 199
Gross inland energy consumption		3 440	3 628	3 765	3 979	4 196	4 676
Final energy consumption		3 346	3 549	3 693	3 734	3 955	4 396
Industry		922	958	921	888	890	993
Transport		1 701	1 877	1 986	2 126	2 330	2 640
Services and households etc.		722	714	787	720	735	764
Gross electricity generation	GWh	1 021	1 175	1 242	3 675	3 611	4 136
Final electricity consumption		5 510	5 716	5 633	5 673	6 015	6 377
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	19 632	21 290	21 826	22 620	23 080	24 061
Population	1000 per.	427	434	439	444	448	452
Industry added value	Mio EUR	3 659	3 884	3 874	4 064	4 119	4 214
Total imports (current prices)	Mio EUR	20 518	22 675	24 040	24 469	25 678	28 186
among which:							
All energy commodities		369	771	663	660	706	960
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	175.2	170.4	172.5	175.9	181.8	194.3
Final energy consumption / GDP(95)		170.4	166.7	169.2	165.1	171.4	182.7
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		252.1	246.6	237.8	218.6	216.0	235.6
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		7.2	7.1	7.2	5.8	6.0	6.6
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	8 049	8 366	8 577	8 961	9 360	10 354
Final energy consumption / capita		7 829	8 184	8 413	8 409	8 822	9 735
Household consumption / capita		1 423	1 374	1 507	1 382	1 392	1 399
Final electricity consumption / capita	kWh/cap.	12 892	13 183	12 831	12 774	13 417	14 121
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	97.3	99.8	97.9	99.0	98.7	98.2
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	97.3	97.8	98.1	93.8	94.3	94.0
Efficiency of thermal power stations		72.8	68.5	72.3	59.0	59.2	58.6

## 2. Energy balance

### Principal aggregates by product

 eurostat	LUXEMBOURG						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	46	57	50	56	60	73	21.0%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	8	10	2	10	7	9	37.7%
Biomass	36	44	46	44	51	59	16.2%
<b>Imports</b>							
Total	3 423	3 701	3 782	4 209	4 395	4 874	10.9%
<i>among which:</i> Hard coal	107	120	106	89	74	90	21.7%
Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	2 120	2 350	2 427	2 515	2 696	3 021	12.1%
Natural Gas	656	670	695	1 053	1 064	1 199	12.7%
Electricity	534	555	549	548	557	559	0.4%
<b>Exports</b>							
Total	75	81	95	269	253	284	12.5%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	19	18	31	17	14	15	7.3%
Natural gas	-	-	-	-	-	-	-
Electricity	56	63	64	253	239	269	12.8%
<b>Gross inland consumption</b>							
Total	3 440	3 628	3 765	3 979	4 196	4 676	11.4%
<i>among which:</i> Solid fuels	113	125	110	93	78	94	20.6%
Crude oil and petrol. prod.	2 147	2 283	2 425	2 482	2 676	3 020	12.9%
Natural gas	656	670	695	1 053	1 064	1 199	12.7%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	46	57	50	56	60	73	21.0%
<b>Transformation input</b>							
Total	63	75	87	449	466	563	20.7%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	-	-	-	-	-	-	-
Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Renewables	20	28	30	29	36	43	21.4%
<b>Transformation output</b>							
Total	46	52	63	265	276	330	19.5%
<i>among which:</i> Electricity	22	25	29	228	229	278	21.4%
Heat	24	27	34	36	47	51	10.4%



in 1 000 toe

## LUXEMBOURG

1999 2000 2001 2002 2003 2004 04/03

### Final energy consumption

Total	3 346	3 549	3 693	3 734	3 955	4 396	11.2%
<i>among which:</i> Solid fuels	113	125	110	93	78	94	20.6%
Petroleum products	2 109	2 266	2 411	2 469	2 664	3 007	12.8%
Natural Gas	611	623	637	633	633	680	7.3%
Renewables	15	16	16	15	16	16	4.3%
Electricity	474	491	484	488	517	548	6.0%

### Final energy consumption by sector

#### Industry

Total	922	958	921	888	890	993	11.6%
<i>among which:</i> Solid fuels	112	124	109	92	78	94	20.8%
Petroleum Products	78	73	67	53	49	86	75.5%
Natural Gas	398	413	406	405	398	427	7.3%
Renewables	-	-	-	-	-	-	-
Electricity	318	331	318	318	342	360	5.4%


#### Transport

Total	1 701	1 877	1 986	2 126	2 330	2 640	13.3%
<i>among which:</i> Motor spirit	587	607	598	584	595	577	-3.0%
Diesel oil	772	939	1 030	1 154	1 333	1 625	21.9%
Jet fuel	332	320	346	375	390	425	8.9%
Electricity	8	8	9	9	9	9	1.0%


#### Services&households

Total	722	714	787	720	735	764	3.9%
<i>among which:</i> Solid fuels	1	1	1	1	0	0	0.0%
Gas oil	326	313	352	295	291	287	-1.4%
Natural Gas	213	210	231	228	236	253	7.3%
Renewables	15	16	16	15	16	15	-0.2%
Electricity	148	152	158	161	166	179	7.7%
Heat	6	9	13	16	23	26	11.4%


### 3.1 Electricity balance

 eurostat	LUXEMBOURG							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation	1 021	1 175	1 242	3 675	3 611	4 136	14.5%	
<i>among which:</i>								
Hydro	747	862	877	994	917	859	-6.3%	
Wind	18	27	26	25	26	39	50.0%	
Geothermal	-	-	-	-	-	-	-	
Nuclear	-	-	-	-	-	-	-	
Conventional thermal	256	286	339	2 656	2 668	3 238	21.4%	
<i>of which:</i>								
Hard coal	-	-	-	-	-	-	-	
Lignite and peat	-	-	-	-	-	-	-	
Petroleum products	-	-	-	-	-	-	-	
Natural gas	204	234	279	2 593	2 603	3 153	21.1%	
Derived gases	-	-	-	-	-	-	-	
Biomass	50	52	60	63	65	96	47.7%	
Industrial wastes	2	-	-	-	-	-	-	
Total net generation	996	1 147	1 179	3 618	3 559	4 107	15.4%	
<b>Imports and exports</b>								
Total imports	6 212	6 457	6 390	6 377	6 481	6 506	0.4%	
Total exports	655	735	744	2 939	2 777	3 132	12.8%	
<b>Consumption and losses</b>								
Consumption of the energy branch	291	298	225	362	307	332	8.1%	
<i>of which:</i>								
Consumption for pumped-storage	254	270	162	305	255	303	18.8%	
Network losses	126	141	173	197	153	48	-68.6%	
Final energy consumption	5 510	5 716	5 633	5 673	6 015	6 377	6.0%	
<i>of which:</i>								
Industry	3 693	3 852	3 693	3 694	3 978	4 191	5.4%	
<i>among which:</i>								
Iron&steel industry	1 845	1 924	1 903	1 960	1 874	1 913	2.1%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	319	333	309	299	299p	299p	0.0%	
Non-met. mineral prod.	-	-	-	-	-	-	-	
Food, drink, tobacco	90	94	87	84	84p	84p	0.0%	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	683	712	661	640	640p	640p	0.0%	
Other industries	370	386	359	348	348p	892p	156.3%	
Transport	94	97	101	104	104	105	1.0%	
Services & households etc.	1 723	1 767	1 839	1 875	1 933	2 081	7.7%	
<i>among which:</i>								
Households	678	695	723	737	745p	745p	0.0%	

## 3.2 Electrical capacity, fuel inputs and heat

		LUXEMBOURG						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	1 219	1 226	1 208	1 596	1 596p	1 632	2.3%
<b>by source:</b>								
Conventional thermal		72	74	65	443	443p	459	3.6%
<i>of which:</i>								
Steam		9	9	9	9	9p	9	0.0%
Gas turbine		-	-	-	-	-	-	-
Combined cycle		-	-	-	-	-	-	-
Internal combustion		45	47	47	66	66p	72	9.1%
Nuclear		-	-	-	-	-	-	-
Hydro		1 138	1 138	1 128	1 138	1 138p	1 138	0.0%
<i>among which:</i>								
Pumped storage		1 100	1 100	1 100	1 100	1 100p	1 100	0.0%
Wind		9	14	15	15	15p	35	133.3%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<b>by producer type:</b>								
Public system		1 142	1 148	1 140	1 490	1 490p	1 491	0.1%
Autoproducers		72	79	87	107	107p	165	54.2%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	63	75	87	449	466	563	20.7%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		42	47	57	420	431	520	20.6%
Renewables		20	28	30	29	36	43	21.4%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	24	27	34	36	47	51	10.4%
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		24	27	34	36	47	51	10.4%
<i>of which: in industry</i>								
		17	17	21	20	23	26	9.4%
<i>in households and services</i>								
		6	9	13	16	23	26	11.4%
<i>among which: in households</i>								
		6	9	13	16	23	26	11.4%


## 4.1 Crude oil and feedstocks

 eurostat	in 1 000 t	LUXEMBOURG						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		-	-	-	-	-	-	-
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-	-	-
Refinery intake		-	-	-	-	-	-	-
<b>Imports of Crude Oil by origin</b>								
<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		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-




## 4.2 Petroleum products


eurostat	LUXEMBOURG							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output	-	-	-	-	-	-	-	-
<i>among which:</i>								
Motor spirit	-	-	-	-	-	-	-	-
Kerosene and jet fuel	-	-	-	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-
Gas/diesel oil	-	-	-	-	-	-	-	-
Residual fuel oil	-	-	-	-	-	-	-	-
Total imports	2 069	2 295	2 372	2 459	2 638	2 961	12.2%	
Total exports	18	17	30	16	13	14	7.7%	
Bunkers	-	-	-	-	-	-	-	
Stock changes	46	-48	28	-16	-6	13	316.7%	
Gross inland consumption	2 097	2 230	2 370	2 427	2 619	2 960	13.0%	
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands	181	72	71	76	126	-	-	
United Kingdom	-	-	-	-	-	-	-	
Norway	-	-	-	-	-	-	-	
OPEC	-	-	-	-	-	-	-	
Imports by product								
<i>among which:</i>								
Motor spirit	555	595	574	554	573	549	-4.2%	
Kerosene and jet fuel	323	319	331	371	378	412	9.0%	
Gas/diesel oil	1 134	1 333	1 416	1 491	1 646	1 963	19.3%	
Residual fuel oil	5	6	7	6	5	4	-20.0%	
Exports by product								
<i>among which:</i>								
Motor spirit	4	3	3	2	1	1	0.0%	
Kerosene and jet fuel	-	-	-	-	-	-	-	
Gas/diesel oil	6	8	21	8	5	6	20.0%	
Residual fuel oil	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants	-	-	-	-	-	-	-	
Inputs to heating plants	-	-	-	-	-	-	-	
Non-energy use	22	14	12	11	14	13	-7.1%	
Final energy consumption	2 058	2 213	2 356	2 414	2 607	2 946	13.0%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	56	50	45	32	31	72	132.3%	
Residual fuel oil	5	6	7	6	5	4	-20.0%	

 eurostat	LUXEMBOURG							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	21	9	6	4	2	2	0.0%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	7	5	5	4	3	3	0.0%	
Non-met. mineral prod.	10	8	8	5	5	7	40.0%	
Food, drink, tobacco	5	4	3	3	3	4	33.3%	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	31	40	39	29	29	62	113.8%	
<b>Transport</b>	1 648	1 821	1 928	2 067	2 268	2 574	13.5%	
<i>among which:</i>								
Motor spirit	559	578	569	556	566	549	-3.0%	
Jet fuel	323	312	337	365	380	414	8.9%	
Diesel oil	764	929	1 019	1 142	1 319	1 608	21.9%	
<b>Services &amp; households etc.</b>	334	321	362	295	291	287	-1.4%	
<i>among which:</i>								
Gas oil	323	310	348	292	288	284	-1.4%	
Residual fuel oil	-	-	-	-	-	-	-	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	-	-	-	-	-	-	-	
Petroleum products	88	136	108	124	130	117	-10.0%	

## 5. Natural gas

 eurostat	LUXEMBOURG								
	in TJ (GCV)		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>									
Primary production		-	-	-	-	-	-	-	-
Total imports		30 511	31 191	32 311	48 986	49 499	55 794	12.7%	
Total exports		-	-	-	-	-	-	-	
Stock changes		-	-	-	-	-	-	-	
Gross inland consumption		30 511	31 191	32 311	48 986	49 499	55 794	12.7%	
<b>Imports</b>									
Imports by origin									
<i>among which:</i>									
CIS		-	-	3 792	-	-	-	-	
Algeria		-	-	-	-	-	-	-	
Norway		28 536	28 775	28 519	-	-	-	-	
<b>Consumption</b>									
Inputs to electricity plants		1 962	2 195	2 662	19 541	20 039	24 177	20.6%	
Inputs to heat plants		-	-	-	-	-	-	-	
Consumption of energy branch		-	-	-	-	-	-	-	
Distribution losses		132	21	-	-	-	-	-	
Non-energy use		-	-	-	-	-	-	-	
Industry		18 518	19 191	18 889	18 843	18 496	19 849	7.3%	
<i>among which:</i>									
Iron&steel industry		6 601	6 868	7 025	8 343	8 231	8 568	4.1%	
Non-ferrous metals		-	-	-	-	-	-	-	
Chemical industry		-	-	-	-	-	-	-	
Non-met. mineral prod.		-	-	-	-	-	-	-	
Food, drink, tobacco		-	-	-	-	-	-	-	
Pulp, paper and print		-	-	-	-	-	-	-	
Engineering & metal		-	-	-	-	-	-	-	
Other industries		11 917	12 323	11 864	10 500	10 265	11 281	9.9%	
Transport		-	-	-	-	-	-	-	
Services & households etc.		9 899	9 784	10 760	10 602	10 964	11 768	7.3%	
<i>among which:</i>									
Households		9 899	9 784	10 760	10 602	10 964	11 768	7.3%	
Services		0	0	0	0	0	0		


## 6.1 Hard coal


 eurostat	LUXEMBOURG							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	153	171	152	127	106	129	21.7%	
Total exports	-	-	-	-	-	-	-	
Stock changes	-	-	-	-	-	-	-	
Gross inland consumption	153	171	152	127	106	129	21.7%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	
Poland	-	-	-	-	-	-	-	
CIS	-	-	-	-	-	-	-	
Australia	-	-	-	-	-	-	-	
South Africa	90	114	81	55	45	62	37.8%	
Colombia	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants								
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry								
<i>among which:</i>								
Iron&steel industry	41	39	38	47	42	40	-4.8%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	112	132	114	80	64	89	39.1%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	-	-	-	-	-	-	-	
<b>Structural data</b>								
Personnel employed underground								
(annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines								
(end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

eurostat	LUXEMBOURG						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
<i>among which:</i>							
Iron & steel industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
Brown coal briquettes	13	11	8	8	8	8	0.0%
<i>among which:</i>							
Industry	10	9	6	6	7	7	0.0%
Services & households	3	2	2	2	1	1	0.0%
<b>Total derived gases</b>	<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

		LUXEMBOURG						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	46	57	50	56	60	73	21.0%
Hydro (excl. pumping)		8	10	2	10	7	9	37.7%
Wind		2	2	2	2	2	3	50.0%
Solar		-	-	0	0	0	1	392.2%
Geothermal		-	-	-	-	-	-	-
Biomass		36	44	46	44	51	59	16.2%
<i>among which:</i>								
Wood, wood-waste		15	16	16	15	15	15	-0.3%
Municipal solid waste		20	27	28	27	31	38	21.5%
Biogas		0	1	2	2	4	5	20.8%
Gross inland consumption		46	57	50	56	60	73	21.0%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		20	28	30	29	36	43	21.4%
<i>among which:</i>								
Wood, wood-waste		-	-	-	-	-	-	-
Municipal waste		20	27	28	27	31	38	21.5%
Biogas		0	1	2	2	4	5	20.8%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	15	16	16	15	16	16	4.3%
<i>by sector:</i>								
Industry		-	-	-	-	-	-	-
Services & households etc.		15	16	16	15	16	15	-0.2%
Transport		-	-	-	-	-	1	
<i>by source:</i>								
Biomass		15	16	16	15	15	16	4.2%
<i>among which:</i>								
Wood, wood-waste		15	16	16	15	15	15	-0.3%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	1	1	1	9	800.0%
Hydro with installed capacity < 1 MW		5	6	6	5	5	5	0.0%
Hydro with installed capacity > 1 & <10 MW		80	114	127	108	72	95	31.9%
Hydro with installed capacity > 10 MW		-	-	-	-	-	-	-
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		50	52	51	52	48	76	58.3%
Biogas		1	4	8	9	17	20	17.6%

		LUXEMBOURG						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	-	18	24	33.3%
Hydro with installed capacity < 1 MW		2	2	2	2	2	6	200.0%
Hydro with installed capacity > 1 & <10 MW		36	36	26	36	37	32	-13.5%
Hydro with installed capacity > 10 MW		-	-	-	-	-	-	-
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		9	9	9	9	9	9	0.0%
Biogas		-	-	-	-	-	5	
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	-	-	-	-	-	1	
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	2	2	2	2	3	4	33.3%

# 1. Energy economy


## Key figures and energy indicators

		MAGYARORSZÁG					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	11 492	11 207	10 835	11 121	10 367	10 132
Net energy imports		13 921	14 011	13 881	14 733	16 380	15 914
Net oil imports		5 446	5 352	4 828	4 769	4 842	4 856
Net gas imports		7 316	7 283	7 783	8 705	9 940	9 278
Gross inland energy consumption		25 462	25 020	25 471	25 864	26 551	26 191
Final energy consumption		15 853	15 773	16 338	16 900	17 475	17 399
Industry		3 508	3 489	3 565	3 769	3 399	3 406
Transport		3 257	3 251	3 399	3 579	3 733	3 867
Services and households etc.		9 088	9 033	9 374	9 553	10 342	10 126
Gross electricity generation	GWh	37 719	35 191	36 417	36 160	34 141	33 702
Final electricity consumption		28 938	29 441	30 543	31 484	31 396	31 806
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	39 479	41 848	43 660	45 327	46 864	49 043
Population	1000 per.	10 253	10 222	10 200	10 175	10 142	10 117
Industry added value	Mio EUR	11 952	12 742	12 888	13 285	13 000	14 456
Total imports (current prices)	Mio EUR	28 783	34 710	36 498	38 903	43 232	48 921
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	645.0	597.9	583.4	570.6	566.6	534.0
Final energy consumption / GDP(95)		401.6	376.9	374.2	372.9	372.9	354.8
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		293.5	273.8	276.6	283.7	261.5	235.6
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		143.3	142.3	142.2	125.7	128.8	144.4
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	2 483	2 448	2 497	2 542	2 618	2 589
Final energy consumption / capita		1 546	1 543	1 602	1 661	1 723	1 720
Household consumption / capita		522	516	539	583	650	593
Final electricity consumption / capita	kWh/cap.	2 822	2 880	2 994	3 094	3 096	3 144
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	54.7	56.0	54.5	57.0	61.7	60.8
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	62.3	63.0	64.1	65.3	65.8	66.4
Efficiency of thermal power stations		49.9	50.1	50.9	48.8	47.2	46.8



## 2. Energy balance

### Principal aggregates by product

 eurostat	MAGYARORSZÁG						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	11 492	11 207	10 835	11 121	10 367	10 132	-2.3%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	2 951	2 893	2 664	2 683	2 709	2 182	-19.4%
Crude oil	1 796	1 665	1 560	1 595	1 611	1 545	-4.1%
Natural Gas	2 624	2 475	2 477	2 356	2 286	2 367	3.5%
Nuclear heat	3 636	3 658	3 644	3 599	2 841	3 074	8.2%
Hydro-electricity	16	15	16	17	15	18	19.9%
Biomass	384	415	387	784	818	860	5.2%
<b>Imports</b>							
Total	16 242	16 433	16 875	18 031	19 509	19 005	-2.6%
<i>among which:</i> Hard coal	1 068	1 116	835	678	888	1 069	20.4%
Crude oil and feedstocks	5 846	5 867	5 706	5 153	5 462	5 597	2.5%
Petroleum products	1 522	1 188	1 397	2 153	1 845	2 015	9.2%
Natural Gas	7 320	7 347	7 786	8 705	9 940	9 278	-6.7%
Electricity	374	819	894	1 084	1 210	905	-25.2%
<b>Exports</b>							
Total	2 321	2 422	2 994	3 298	3 129	3 091	-1.2%
<i>among which:</i> Crude oil and feedstocks	2	1	-	11	13	151	-
Petroleum products	1 920	1 703	2 275	2 525	2 452	2 606	6.3%
Natural gas	4	65	3	-	-	-	-
Electricity	283	523	622	718	614	263	-57.2%
<b>Gross inland consumption</b>							
Total	25 462	25 020	25 471	25 864	26 551	26 191	-1.4%
<i>among which:</i> Solid fuels	4 142	3 967	3 640	3 601	3 740	3 449	-7.8%
Crude oil and petrol. prod.	7 202	6 927	6 703	6 588	6 563	6 321	-3.7%
Natural gas	9 905	9 657	10 711	10 811	11 886	11 712	-1.5%
Nuclear Energy	3 636	3 658	3 644	3 599	2 841	3 074	8.2%
Renewables	485	516	491	888	920	965	4.9%
<b>Transformation input</b>							
Total	19 678	18 869	18 851	18 106	18 201	17 702	-2.7%
<i>among which:</i> Crude oil and feedstocks	7 768	7 588	7 649	7 403	7 613	7 465	-2.0%
Petroleum products	1 379	1 082	1 060	619	497	252	-49.3%
Hard coal	914	955	693	435	675	796	17.9%
Lignite and peat	2 982	2 723	2 619	2 612	2 655	2 280	-14.1%
Renewables	72	70	75	63	83	244	195.5%
<b>Transformation output</b>							
Total	13 667	13 273	13 148	12 340	12 492	12 321	-1.4%
<i>among which:</i> Electricity	3 237	3 011	3 115	3 092	2 921	2 880	-1.4%
Heat	1 726	1 645	1 701	1 474	1 523	1 371	-10.0%

**Final energy consumption**

Total	15 853	15 773	16 338	16 900	17 475	17 399	-0.4%
<i>among which:</i> Solid fuels	704	792	668	694	684	709	3.6%
Petroleum products	4 279	4 173	4 137	4 443	4 400	4 507	2.4%
Natural Gas	6 372	6 269	6 890	6 856	7 416	7 488	1.0%
Renewables	398	430	400	809	821	700	-14.8%
Electricity	2 488	2 531	2 626	2 707	2 700	2 735	1.3%

**Final energy consumption by sector**
**Industry**

Total	3 508	3 489	3 565	3 769	3 399	3 406	0.2%
<i>among which:</i> Solid fuels	461	447	423	427	408	489	19.8%
Petroleum Products	332	267	193	324	205	190	-7.4%
Natural Gas	1 408	1 370	1 560	1 572	1 468	1 301	-11.4%
Renewables	-	-	-	18	49	56	14.8%
Electricity	731	757	811	882	824	817	-0.9%


**Transport**

Total	3 257	3 251	3 399	3 579	3 733	3 867	3.6%
<i>among which:</i> Motor spirit	1 477	1 408	1 464	1 500	1 499	1 522	1.5%
Diesel oil	1 485	1 532	1 621	1 782	1 896	1 993	5.1%
Jet fuel	206	219	218	205	201	218	8.2%
Electricity	86	87	89	87	90	94	4.6%


**Services&households**

Total	9 088	9 033	9 374	9 553	10 342	10 126	-2.1%
<i>among which:</i> Solid fuels	244	341	240	267	274	220	-19.8%
Gas oil	354	346	290	293	272	268	-1.5%
Natural Gas	4 963	4 897	5 328	5 283	5 946	6 185	4.0%
Renewables	398	430	400	791	772	644	-16.7%
Electricity	1 672	1 688	1 726	1 738	1 786	1 824	2.2%
Heat	1 036	930	1 041	846	1 008	707	-29.9%


### 3.1 Electricity balance

 eurostat	MAGYARORSZAG							
	in GWh		1999	2000	2001	2002	2003	2004
<b>Generation</b>								
Total gross generation		37 719	35 191	36 417	36 160	34 141	33 702	-1.3%
<i>among which:</i>								
Hydro		181	178	186	194	171	205	19.9%
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Nuclear		14 661	14 180	14 126	13 953	11 013	11 915	8.2%
Conventional thermal		22 877	20 833	22 105	22 013	22 957	21 582	-6.0%
<i>of which:</i>								
Hard coal		-	67	50	93	307	432	40.7%
Lignite and peat		9 505	9 523	8 789	8 890	8 863	7 746	-12.6%
Petroleum products		5 306	4 404	4 193	2 137	1 626	840	-48.3%
Natural gas		7 822	6 612	8 866	10 740	11 883	11 648	-2.0%
Derived gases		-	117	84	80	84	161	91.7%
Biomass		-	-	-	-	-	751	-
Industrial wastes		244	110	123	73	194	4	-97.9%
Total net generation		34 903	32 259	33 701	33 479	31 375	31 244	-0.4%
<b>Imports and exports</b>								
Total imports		4 349	9 523	10 403	12 605	14 077	10 524	-25.2%
Total exports		3 286	6 083	7 232	8 349	7 138	3 056	-57.2%
<b>Consumption and losses</b>								
Consumption of the energy branch		5 064	4 350	4 370	4 531	5 448	5 390	-1.1%
<i>of which:</i>								
Consumption for pumped-storage		-	-	-	-	-	-	-
Network losses		4 892	4 840	4 676	4 399	4 240	3 980	-6.1%
Final energy consumption		28 938	29 441	30 543	31 484	31 396	31 806	1.3%
<i>of which:</i>								
Industry		8 503	8 799	9 434	10 255	9 585	9 497	-0.9%
<i>among which:</i>								
Iron&steel industry		561	579	644	685	645	593	-8.1%
Non-ferrous metals		839	989	514	1 085	1 053	1 058	0.5%
Chemical industry		2 894	2 803	3 057	3 048	2 050	2 102	2.5%
Non-met. mineral prod.		910	871	971	977	966	971	0.5%
Food, drink, tobacco		1 104	1 092	1 389	1 403	1 538	1 362	-11.4%
Pulp, paper and print		478	510	464	450	490	511	4.3%
Engineering & metal		809	869	1 252	1 432	1 551	1 763	13.7%
Other industries		625	759	849	885	974	857	-12.0%
Transport		995	1 015	1 031	1 015	1 045	1 093	4.6%
Services & households etc.		19 440	19 627	20 078	20 214	20 766	21 216	2.2%
<i>among which:</i>								
Households		9 833	9 792	10 130	10 440	11 063	11 032	-0.3%


## 3.2 Electrical capacity, fuel inputs and heat

		MAGYARORSZÁG						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	7 842	8 282	8 392	8 513	8 708	8 628	-0.9%
<b>by source:</b>								
Conventional thermal		5 954	6 383	6 478	6 599	6 788	6 711	-1.1%
<i>of which:</i>								
Steam		5 170	5 020	5 022	5 001	5 012	4 478	-10.7%
Gas turbine		410	580	580	410	691	678	-1.9%
Combined cycle		374	783	876	986	835	1 130	35.3%
Internal combustion		-	-	-	-	-	-	-
Nuclear		1 840	1 851	1 866	1 866	1 866	1 866	0.0%
Hydro		48	48	48	48	54	51	-5.6%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<b>by producer type:</b>								
Public system		7 650	8 084	8 196	8 317	8 126	8 446	3.9%
Autoproducers		192	198	196	196	585	185	-68.4%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	6 608	5 985	6 108	5 920	6 386	5 757	-9.9%
<i>among which:</i>								
Hard coal		-	23	16	27	107	155	44.7%
Lignite and peat		2 956	2 708	2 556	2 567	2 615	2 222	-15.0%
Petroleum products		1 298	1 052	1 039	583	458	204	-55.5%
Natural gas		2 171	2 010	2 324	2 584	3 052	2 842	-6.9%
Renewables		63	62	65	51	72	234	222.8%
Heating plants		520	471	570	569	604	635	5.2%
<i>among which:</i>								
Hard coal		2	-	1	1	6	28	351.3%
Lignite and peat		2	1	44	45	34	54	57.8%
Petroleum products		73	21	16	15	16	31	91.2%
Natural gas		434	441	500	496	502	483	-3.9%
Renewables		9	8	10	13	10	10	1.4%
<b>Heat production and consumption</b>								
Total heat production	TJ	1 726	1 645	1 701	1 474	1 523	1 371	-10.0%
<i>among which: in heating plants</i>								
		437	421	477	461	470	517	10.0%
Heat consumption		1 489	1 440	1 517	1 297	1 362	1 176	-13.7%
<i>of which: in industry</i>								
		453	510	476	451	353	469	32.7%
<i>in households and services</i>								
		1 036	930	1 041	846	1 008	707	-29.9%
<i>among which: in households</i>								
		742	668	748	607	709	550	-22.5%

## 4.1 Crude oil and feedstocks

 eurostat	MAGYARORSZÁG						
	1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 t</i>							
<b>Primary production and supply</b>							
Primary production	1 777	1 649	1 540	1 582	1 597	1 560	-2.3%
Total imports	5 786	5 809	5 634	5 110	5 413	5 651	4.4%
Total exports	2	1	-	11	13	152	
Stock changes	21	-81	212	21	-6	-152	
Refinery intake	7 687	7 512	7 551	7 336	7 540	7 516	-0.3%
<b>Imports of Crude Oil by origin</b>							
<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	-	-	-	-	-	-	-
<b>Refining capacity</b>							
Capacity at the end of year	<i>1 000 t/year</i>						
<i>among which:</i>							
Cracking and others	-	-	-	-	-	-	-
Reforming	-	-	-	-	-	-	-

## 4.2 Petroleum products

 eurostat	MAGYARORSZÁG							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output	7 659	7 483	7 450	7 164	7 287	7 416	1.8%	
<i>among which:</i>								
Motor spirit	1 418	1 253	1 403	1 573	1 477	1 465	-0.8%	
Kerosene and jet fuel	196	201	179	184	202	239	18.3%	
Naphtha	734	803	760	742	895	842	-5.9%	
Gas/diesel oil	2 525	2 466	2 547	3 096	3 124	2 989	-4.3%	
Residual fuel oil	1 533	1 442	1 291	358	367	313	-14.7%	
Total imports	1 517	1 170	1 372	2 135	1 827	1 983	8.5%	
Total exports	1 887	1 695	2 249	2 532	2 457	2 681	9.1%	
Bunkers	-	-	-	-	-	-	-	
Stock changes	-66	-6	103	125	-108	21	119.4%	
Gross inland consumption	-436	-531	-774	-272	-738	-677	8.3%	
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands	-	-	2	-	3	-	-	
United Kingdom	-	-	-	-	-	-	-	
Norway	-	6	-	1	-	-	-	
OPEC	4	1	-	-	-	-	-	
Imports by product								
<i>among which:</i>								
Motor spirit	209	178	244	292	288	372	29.2%	
Kerosene and jet fuel	48	40	50	59	-	-	-	
Gas/diesel oil	287	352	530	992	923	1 173	27.1%	
Residual fuel oil	618	247	158	503	404	205	-49.3%	
Exports by product								
<i>among which:</i>								
Motor spirit	415	312	504	496	343	342	-0.3%	
Kerosene and jet fuel	39	14	11	47	5	22	340.0%	
Gas/diesel oil	904	788	957	1 293	1 376	1 298	-5.7%	
Residual fuel oil	9	172	242	54	83	109	31.3%	
<b>Consumption</b>								
Inputs to electricity plants	1 359	1 101	1 084	604	478	213	-55.4%	
Inputs to heating plants	76	22	16	16	17	28	64.7%	
Non-energy use	1 011	1 252	1 018	1 180	1 192	1 203	0.9%	
Final energy consumption	4 169	4 060	4 021	4 330	4 278	4 386	2.5%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	12	19	43	120	31	26	-16.1%	
Residual fuel oil	322	242	143	149	160	169	5.6%	

**Industry**
*among which by sector:*

Iron&steel industry	43	44	1	-	-	3	
Non-ferrous metals	2	3	2	-	2	-	
Chemical industry	66	42	-	37	24	20	-16.7%
Non-met. mineral prod.	148	97	72	101	118	104	-11.9%
Food, drink, tobacco	47	60	68	55	22	57	159.1%
Pulp, paper and print	15	8	10	10	7	8	14.3%
Engineering & metal	9	8	6	5	10	19	90.0%
Other industries	6	6	14	7	14	13	-7.1%

**Transport**
*among which:*

Motor spirit	1 405	1 340	1 393	1 427	1 426	1 448	1.5%
Jet fuel	201	213	212	200	196	212	8.2%
Diesel oil	1 470	1 516	1 604	1 764	1 877	1 973	5.1%


**Services & households etc.**
*among which:*

Gas oil	350	342	287	290	269	265	-1.5%
Residual fuel oil	81	48	55	34	17	12	-29.4%

**Stocks at end of period**


Crude oil and feedstocks	1 592	1 757	1 333	1 263	795	947	19.1%
Petroleum products	2 434	2 381	2 269	2 145	1 431	1 425	-0.4%

## 5. Natural gas


 eurostat	MAGYARORSZÁG							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		122 074	115 143	115 224	109 582	106 329	110 100	3.5%
Total imports		340 509	341 792	362 207	404 952	462 396	431 618	-6.7%
Total exports		173	3 004	134	-	-	-	-
Stock changes		-1 627	-4 699	20 962	-11 627	-15 786	3 135	119.9%
Gross inland consumption		460 783	449 232	498 259	502 907	552 939	544 853	-1.5%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		100 991	93 517	108 115	120 217	142 000	132 233	-6.9%
Inputs to heat plants		20 172	20 510	23 250	23 092	23 372	22 461	-3.9%
Consumption of energy branch		12 701	9 298	9 659	8 132	8 005	7 084	-11.5%
Distribution losses		14 795	14 552	15 719	13 326	15 561	16 058	3.2%
Non-energy use		12 461	15 187	15 408	9 680	10 188	14 949	46.7%
Industry		65 493	63 741	72 574	73 117	68 291	60 530	-11.4%
<i>among which:</i>								
Iron&steel industry		5 656	5 837	6 650	7 083	6 085	5 833	-4.1%
Non-ferrous metals		4 381	4 749	5 412	5 450	5 106	5 240	2.6%
Chemical industry		13 312	12 528	12 013	11 387	10 047	8 213	-18.3%
Non-met. mineral prod.		14 282	15 211	17 459	16 851	15 292	12 748	-16.6%
Food, drink, tobacco		13 664	12 058	16 321	16 986	15 698	13 853	-11.8%
Pulp, paper and print		2 971	2 855	3 186	3 502	3 720	3 086	-17.0%
Engineering & metal		8 036	7 240	7 663	7 947	8 568	8 488	-0.9%
Other industries		1 854	2 093	2 498	2 429	2 305	1 851	-19.7%
Transport		44	78	86	89	93	91	-2.2%
Services & households etc.		230 880	227 799	247 845	245 742	276 587	287 742	4.0%
<i>among which:</i>								
Households		140 936	136 227	148 127	152 669	179 256	166 001	-7.4%
Services		79 555	82 486	89 600	82 854	87 940	111 805	27.1%




## 6.1 Hard coal


 in 1 000 t	MAGYARORSZÁG						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>							
Primary production	-	-	-	-	-	-	-
Total imports	1 519	1 664	1 220	1 080	1 403	1 721	22.7%
Total exports	-	-	-	-	-	-	-
Stock changes	69	14	89	28	39	-	-
Gross inland consumption	1 588	1 678	1 309	1 108	1 442	1 721	19.3%
<b>Imports</b>							
Imports by origin							
<i>among which:</i>							
USA	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-
CIS	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-
<b>Consumption</b>							
Inputs to electricity plants	-	51	30	49	188	296	57.4%
Inputs to heat plants	4	-	1	1	11	54	390.9%
Consumption of energy branch	-	-	-	-	-	-	-
Industry	144	112	144	116	65	121	86.2%
<i>among which:</i>							
Iron&steel industry	-	-	-	-	-	-	-
Non-ferrous metals	-	-	-	-	-	-	-
Chemical industry	-	-	-	-	-	-	-
Non-met. mineral prod.	142	112	141	112	65	121	86.2%
Food, drink, tobacco	-	-	-	-	-	-	-
Pulp, paper and print	-	-	-	-	-	-	-
Engineering & metal	-	-	-	-	-	-	-
Other industries	-	-	-	-	-	-	-
Services & households etc.	162	209	192	387	407	353	-13.3%
<b>Structural data</b>							
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-

## 6.2 Coal derivatives and peat

 eurostat	MAGYARORSZÁG						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	919	937	682	432	593	664	12.0%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	14 547	14 033	13 914	13 027	13 301	11 242	-15.5%
Brown coal briquettes	133	90	90	4	29	35	20.7%
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	7 005	7 784	4 405	2 848	4 416	4 337	-1.8%
Blast-furnace gas	6 927	7 617	6 749	7 242	6 502	5 448	-16.2%
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	542	506	486	498	514	587	14.2%
<i>among which:</i>							
Iron & steel industry	504	480	455	464	482	549	13.9%
Services & households	18	13	11	9	8	8	0.0%
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	543	1 043	544	244	235	136	-42.1%
<i>among which:</i>							
Industry	27	131	40	29	37	28	-24.3%
Services & households	516	900	490	215	190	108	-43.2%
Brown coal briquettes	142	73	73	61	57	35	-38.6%
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	142	73	73	61	57	35	-38.6%
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	2 788	3 057	1 242	538	1 412	1 805	27.8%
Blast-furnace gas	2 639	3 016	2 655	3 020	2 378	742	-68.8%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	5 096	5 541	4 523	4 585	3 467	4 231	22.0%
Inputs to heat plants	-	-	-	-	1 455	1 217	-16.4%
Consumption of energy branch	-	-	-	-	-	-	-
Consumption in industry	5 427	6 073	3 897	3 558	3 790	2 547	-32.8%

## 7. Renewable energy sources

		MAGYARORSZÁG						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	485	516	491	888	920	965	4.9%
Hydro (excl. pumping)		16	15	16	17	15	18	19.9%
Wind		-	-	-	-	-	-	-
Solar		-	-	1	2	2	2	0.0%
Geothermal		86	86	86	86	86	86	0.0%
Biomass		384	415	387	784	818	860	5.2%
<i>among which:</i>								
Wood, wood-waste		325	356	323	734	777	821	5.6%
Municipal solid waste		59	58	62	48	36	33	-8.8%
Biogas		-	-	2	2	5	6	32.0%
Gross inland consumption		485	516	491	888	920	965	4.9%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		7	6	7	7	7	6	-8.6%
Biomass		65	65	68	56	76	238	214.3%
<i>among which:</i>								
Wood, wood-waste		6	6	4	6	37	201	446.0%
Municipal waste		59	58	62	48	36	33	-8.8%
Biogas		-	-	2	2	3	4	35.0%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	398	430	400	809	821	700	-14.8%
<i>by sector:</i>								
Industry		-	-	-	18	49	56	14.8%
Services & households etc.		398	430	400	791	772	644	-16.7%
Transport		-	-	-	-	-	-	-
<i>by source:</i>								
Biomass		319	350	319	728	742	620	-16.4%
<i>among which:</i>								
Wood, wood-waste		319	350	319	728	740	619	-16.3%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	2	1	-42.4%
Geothermal		79	80	79	79	78	78	0.5%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		-	-	-	-	-	12	-
Hydro with installed capacity > 1 & <10 MW		-	-	-	-	-	31	-
Hydro with installed capacity > 10 MW		-	-	-	-	-	162	-
Wood, Wood-waste		-	-	-	-	-	678	-
Municipal waste		-	-	-	-	-	52	-
Biogas		-	-	-	-	-	-	-

		MAGYARORSZÁG						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		1	1	1	1	1	3	200.0%
Hydro with installed capacity > 1 & <10 MW		8	8	8	8	8	9	12.5%
Hydro with installed capacity > 10 MW		39	39	39	39	45	39	-13.3%
Wood, Wood-waste		5	5	5	44	40	189	372.5%
Municipal waste		24	24	24	25	25	25	0.0%
Biogas		-	-	-	-	-	-	-
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	-	-	-	-	-	-	-


# 1. Energy economy

## Key figures and energy indicators

EUROSTAT	MALTA					
	1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>						
Primary energy production	1000 toe	-	-	-	-	-
Net energy imports		979	818	746	897	897
Net oil imports		979	818	746	897	897
Net gas imports		-	-	-	-	-
Gross inland energy consumption		852	769	724	875	875
Final energy consumption		416	408	371	450	465
Industry		40	43	42	44	48
Transport		255	237	198	270	271
Services and households etc.		121	128	131	136	146
Gross electricity generation	GWh	1 792	1 917	1 987	2 052	2 236
Final electricity consumption		1 460	1 567	1 569	1 657	1 798
<b>Socio-economic statistics</b>						
Gross domestic product	Mio EUR 1995	2 913	3 100	3 111	3 157	3 078
Population	1000 per.	379	380	391	395	397
Industry added value	Mio EUR	-	-	-	-	-
Total imports (current prices)	Mio EUR	2 786	3 077	2 812	2 745	2 938
among which:						
All energy commodities		-	-	-	-	-
Oil products		-	-	-	-	-
<b>Energy intensity</b>						
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	292.3	248.1	232.6	277.1	284.1
Final energy consumption / GDP(95)		142.8	131.8	119.2	142.5	150.9
<b>Energy intensity of industry:</b>						
Final consumption / gross value-added mp		:	:	:	:	:
<b>Energy intensity of service sector:</b>						
Final consumption / gross value-added mp		:	:	:	:	:
<b>Energy consumption per inhabitant</b>						
Gross inland consumption / capita	kgoe/cap.	2 250	2 023	1 849	2 217	2 201
Final energy consumption / capita		1 099	1 074	948	1 140	1 169
Household consumption / capita		192	200	193	198	209
Final electricity consumption / capita	kWh/cap.	3 857	4 122	4 009	4 199	4 573
<b>Energy dependency</b>						
Net energy imports / Gross consumption	in %	109.0	100.8	100.0	100.0	100.0
<b>Energy efficiency</b>						
Final energy consumption/Gross inland consumption	in %	48.8	53.1	51.3	51.4	53.1
Efficiency of thermal power stations		27.7	33.4	34.3	31.1	34.0

## 2. Energy balance

### Principal aggregates by product

 eurostat	MALTA						
	1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 toe</i>							
<b>Primary production</b>							
Total	-	-	-	-	-	-	-
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	-	-	-	-	-	-	-
Biomass	-	-	-	-	-	-	-
<b>Imports</b>							
Total	979	818	746	897	897	910	1.5%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	979	818	746	897	897	910	1.5%
Natural Gas	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-
<b>Exports</b>							
Total	-	-	-	-	-	-	-
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	-	-	-	-	-	-	-
Natural gas	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-
<b>Gross inland consumption</b>							
Total	852	769	724	875	875	887	1.4%
<i>among which:</i> Solid fuels	-	-	-	-	-	-	-
Crude oil and petrol. prod.	852	769	724	875	875	887	1.4%
Natural gas	-	-	-	-	-	-	-
Nuclear Energy	-	-	-	-	-	-	-
Renewables	-	-	-	-	-	-	-
<b>Transformation input</b>							
Total	557	494	488	567	566	585	3.3%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	557	494	488	567	566	585	3.3%
Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Renewables	-	-	-	-	-	-	-
<b>Transformation output</b>							
Total	154	165	167	176	192	191	-0.9%
<i>among which:</i> Electricity	154	165	167	176	192	191	-0.9%
Heat	-	-	-	-	-	-	-

**Final energy consumption**

Total	416	408	371	450	465	456	-1.8%
<i>among which:</i> Solid fuels	-	-	-	-	-	-	-
Petroleum products	290	274	236	307	308	302	-2.1%
Natural Gas	-	-	-	-	-	-	-
Renewables	-	-	-	-	-	-	-
Electricity	126	135	135	142	156	155	-1.0%

**Final energy consumption by sector**
**Industry**

Total	40	43	42	44	48	47	-1.1%
<i>among which:</i> Solid fuels	-	-	-	-	-	-	-
Petroleum Products	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Renewables	-	-	-	-	-	-	-
Electricity	40	43	42	44	48	47	-1.1%


**Transport**

Total	255	237	198	270	271	267	-1.5%
<i>among which:</i> Motor spirit	81	64	64	74	74	61	-17.1%
Diesel oil	116	87	76	117	118	105	-11.1%
Jet fuel	58	86	59	79	79	101	27.3%
Electricity	-	-	-	-	-	-	-

**Services&households**


Total	121	128	131	136	146	142	-2.4%
<i>among which:</i> Solid fuels	-	-	-	-	-	-	-
Gas oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Renewables	-	-	-	-	-	-	-
Electricity	85	91	93	99	108	107	-1.0%
Heat	-	-	-	-	-	-	-

### 3.1 Electricity balance


 eurostat	MALTA							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation		1 792	1 917	1 987	2 052	2 236	2 216	-0.9%
<i>among which:</i>								
Hydro		-	-	-	-	-	-	-
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Nuclear		-	-	-	-	-	-	-
Conventional thermal		1 792	1 917	1 987	2 052	2 236	2 216	-0.9%
<i>of which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		1 792	1 917	1 987	2 052	2 236	2 216	-0.9%
Natural gas		-	-	-	-	-	-	-
Derived gases		-	-	-	-	-	-	-
Biomass		-	-	-	-	-	-	-
Industrial wastes		-	-	-	-	-	-	-
Total net generation		1 679	1 802	1 867	1 927	2 111	2 087	-1.1%
<b>Imports and exports</b>								
Total imports		-	-	-	-	-	-	-
Total exports		-	-	-	-	-	-	-
<b>Consumption and losses</b>								
Consumption of the energy branch		113	115	118	125	125	127	1.6%
<i>of which:</i>								
Consumption for pumped-storage		-	-	-	-	-	-	-
Network losses		219	235	256	270	294	291	-1.0%
Final energy consumption		1 460	1 567	1 569	1 657	1 817	1 798	-1.0%
<i>of which:</i>								
Industry		469	504	483	510	556	550	-1.1%
<i>among which:</i>								
Iron&steel industry		-	-	-	-	-	-	-
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		-	-	-	-	-	-	-
Non-met. mineral prod.		-	-	-	-	-	-	-
Food, drink, tobacco		-	-	-	-	-	-	-
Pulp, paper and print		-	-	-	-	-	-	-
Engineering & metal		-	-	-	-	-	-	-
Other industries		469	504	483	510	556	550	-1.1%
Transport		-	-	-	-	-	-	-
Services & households etc.		991	1 063	1 086	1 147	1 261	1 248	-1.0%
<i>among which:</i>								
Households		521	559	540	570	627	621	-1.0%




## 3.2 Electrical capacity, fuel inputs and heat


	MALTA							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	488	515	515	515	354	387	9.3%
<i>by source:</i>								
Conventional thermal		488	515	515	515	354	387	9.3%
<i>of which:</i>								
Steam		328	300	300	300	206	206	0.0%
Gas turbine		105	105	105	105	72	72	0.0%
Combined cycle		55	110	110	110	76	76	0.0%
Internal combustion		-	-	-	-	-	-	-
Nuclear		-	-	-	-	-	-	-
Hydro		-	-	-	-	-	-	-
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		488	515	515	515	354	387	9.3%
Autoproducers		-	-	-	-	-	-	-
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	557	494	488	567	566	585	3.3%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		557	494	488	567	566	585	3.3%
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	-	-	-	-	-	-	-
<i>among which: in heating plants</i>								
Heat consumption		-	-	-	-	-	-	-
<i>of which: in industry</i>								
in households and services		-	-	-	-	-	-	-
<i>among which: in households</i>								
		-	-	-	-	-	-	-

## 4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	MALTA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		-	-	-	-	-	-	-
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-	-	-
Refinery intake		-	-	-	-	-	-	-
<b>Imports of Crude Oil by origin</b>								
<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		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

## 4.2 Petroleum products


 eurostat	MALTA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output	-	-	-	-	-	-	-	-
<i>among which:</i>								
Motor spirit	-	-	-	-	-	-	-	-
Kerosene and jet fuel	-	-	-	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-
Gas/diesel oil	-	-	-	-	-	-	-	-
Residual fuel oil	-	-	-	-	-	-	-	-
Total imports	998	832	763	915	915	926	1.2%	
Total exports	-	-	-	-	-	-	-	
Bunkers	48	43	23	23	23	24	4.3%	
Stock changes	-80	-6	-	-	-	-	-	
Gross inland consumption	870	783	740	892	892	902	1.1%	
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands	-	-	-	-	-	-	-	
United Kingdom	-	-	-	-	-	-	-	
Norway	-	-	-	-	-	-	-	
OPEC	-	-	-	-	-	-	-	
Imports by product								
<i>among which:</i>								
Motor spirit	77	61	61	70	70	58	-17.1%	
Kerosene and jet fuel	65	89	67	87	87	114	31.0%	
Gas/diesel oil	252	201	117	181	181	160	-11.6%	
Residual fuel oil	572	453	489	548	548	577	5.3%	
Exports by product								
<i>among which:</i>								
Motor spirit	-	-	-	-	-	-	-	
Kerosene and jet fuel	-	-	-	-	-	-	-	
Gas/diesel oil	-	-	-	-	-	-	-	
Residual fuel oil	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants	581	513	508	590	589	609	3.4%	
Inputs to heating plants	-	-	-	-	-	-	-	
Non-energy use	4	-	-	-	-	-	-	
Final energy consumption	285	269	232	302	303	293	-3.3%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	-	-	-	-	-	-	-	
Residual fuel oil	-	-	-	-	-	-	-	

 eurostat	MALTA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		-	-	-	-	-	-	-
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		-	-	-	-	-	-	-
Non-met. mineral prod.		-	-	-	-	-	-	-
Food, drink, tobacco		-	-	-	-	-	-	-
Pulp, paper and print		-	-	-	-	-	-	-
Engineering & metal		-	-	-	-	-	-	-
Other industries		-	-	-	-	-	-	-
<b>Transport</b>		248	231	193	263	264	260	-1.5%
<i>among which:</i>								
Motor spirit		77	61	61	70	70	58	-17.1%
Jet fuel		56	84	57	77	77	98	27.3%
Diesel oil		115	86	75	116	117	104	-11.1%
<b>Services &amp; households etc.</b>		37	38	39	39	39	33	-15.4%
<i>among which:</i>								
Gas oil		-	-	-	-	-	-	-
Residual fuel oil		-	-	-	-	-	-	-
<b>Stocks at end of period</b>								
Crude oil and feedstocks		-	-	-	-	-	-	-
Petroleum products		:	:	:	:	:	-	-


## 5. Natural gas

 eurostat	in TJ (GCV)	MALTA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		-	-	-	-	-	-	-
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-	-	-
Gross inland consumption		-	-	-	-	-	-	-
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		-	-	-	-	-	-	-
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		-	-	-	-	-	-	-
Distribution losses		-	-	-	-	-	-	-
Non-energy use		-	-	-	-	-	-	-
Industry		-	-	-	-	-	-	-
<i>among which:</i>								
Iron&steel industry		-	-	-	-	-	-	-
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		-	-	-	-	-	-	-
Non-met. mineral prod.		-	-	-	-	-	-	-
Food, drink, tobacco		-	-	-	-	-	-	-
Pulp, paper and print		-	-	-	-	-	-	-
Engineering & metal		-	-	-	-	-	-	-
Other industries		-	-	-	-	-	-	-
Transport		-	-	-	-	-	-	-
Services & households etc.		-	-	-	-	-	-	-
<i>among which:</i>								
Households		-	-	-	-	-	-	-
Services		-	-	-	-	-	-	-


## 6.1 Hard coal

 eurostat	MALTA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	-	-	-	-	-	-	-	-
Total exports	-	-	-	-	-	-	-	-
Stock changes	-	-	-	-	-	-	-	-
Gross inland consumption	-	-	-	-	-	-	-	-
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
CIS	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants								
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.	-	-	-	-	-	-	-	-
Food, drink, tobacco	-	-	-	-	-	-	-	-
Pulp, paper and print	-	-	-	-	-	-	-	-
Engineering & metal	-	-	-	-	-	-	-	-
Other industries	-	-	-	-	-	-	-	-
Services & households etc.	-	-	-	-	-	-	-	-
<b>Structural data</b>								
Personnel employed underground								
(annual mean in 1000's)	-	-	-	-	-	-	-	-
Number of active hard coal mines								
(end of year)	-	-	-	-	-	-	-	-


## 6.2 Coal derivatives and peat

 eurostat	MALTA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
<i>among which:</i>							
Iron & steel industry	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-
<b>Total derived gases</b>	<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

	MALTA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total primary production	<i>in 1000 toe</i>						
Hydro (excl. pumping)	-	-	-	-	-	-	-
Wind	-	-	-	-	-	-	-
Solar	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
Biomass	-	-	-	-	-	-	-
<i>among which:</i>							
Wood, wood-waste	-	-	-	-	-	-	-
Municipal solid waste	-	-	-	-	-	-	-
Biogas	-	-	-	-	-	-	-
Gross inland consumption	-	-	-	-	-	-	-
<b>Inputs to electricity and heat production</b>							
	<i>in 1000 toe</i>						
Geothermal	-	-	-	-	-	-	-
Biomass	-	-	-	-	-	-	-
<i>among which:</i>							
Wood, wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	-	-	-	-	-	-
<b>Final consumption of RES (excl. electricity)</b>							
Total	<i>in 1000 toe</i>						
<i>by sector:</i>							
Industry	-	-	-	-	-	-	-
Services & households etc.	-	-	-	-	-	-	-
Transport	-	-	-	-	-	-	-
<i>by source:</i>							
Biomass	-	-	-	-	-	-	-
<i>among which:</i>							
Wood, wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
<b>Electricity generation from RES</b>							
	<i>in GWh</i>						
Solar photovoltaics	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	-	-	-	-	-	-	-
Hydro with installed capacity > 1 & <10 MW	-	-	-	-	-	-	-
Hydro with installed capacity > 10 MW	-	-	-	-	-	-	-
Wood, Wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	-	-	-	-	-	-



	MALTA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	-	-	-	-	-	-	-
Hydro with installed capacity > 1 & <10 MW	-	-	-	-	-	-	-
Hydro with installed capacity > 10 MW	-	-	-	-	-	-	-
Wood, Wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	-	-	-	-	-	-
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	-	-	-	-	-	-	-


# 1. Energy economy

## Key figures and energy indicators

eurostat		NEDERLAND					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	59 209	56 912	60 634	60 131	58 431	67 860
Net energy imports		25 889	34 275	31 409	31 294	35 314	29 703
Net oil imports		36 648	41 673	41 694	40 192	40 921	44 110
Net gas imports		-19 542	-17 191	-20 172	-18 450	-16 204	-24 860
Gross inland energy consumption		74 475	75 655	77 587p	78 195p	80 493	82 283
Final energy consumption		48 790	50 066	50 700	50 548	51 532	52 456
Industry		12 798	13 754	13 697	13 687	14 253	14 801
Transport		13 767	13 820	14 233	14 578	14 672	15 038
Services and households etc.		22 226	22 493	22 769	22 283	22 607	22 618
Gross electricity generation	GWh	86 396	89 615	93 747	95 965	96 775	100 736
Final electricity consumption		94 722	97 938	99 428	99 736	100 520	103 118
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	368 442	381 214	386 654	386 949	386 436	393 063
Population	1000 per.	15 760	15 864	15 987	16 105	16 193	16 258
Industry added value	Mio EUR	88 206	91 428	92 097	92 148	90 357	92 035
Total imports (current prices)	Mio EUR	214 546	237 122	242 454	243 080	247 938	267 363
among which:							
All energy commodities		13 982	24 671	22 138	24 137	25 101	28 529
Oil products		12 055	21 485	17 387	19 645	20 300	24 434
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	202.1	198.5	200.7	202.1	208.3	209.3
Final energy consumption / GDP(95)		132.4	131.3	131.1	130.6	133.4	133.5
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		145.1	150.4	148.7	148.5	157.7	160.8
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		32.9	33.5	32.0	31.8	32.9	32.2
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	4 726	4 769	4 853	4 855	4 971	5 061
Final energy consumption / capita		3 096	3 156	3 171	3 139	3 182	3 226
Household consumption / capita		655	648	659	629	648	642
Final electricity consumption / capita	kWh/cap.	6 010	6 174	6 219	6 193	6 208	6 343
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	29.7	38.5	34.1	33.8	37.6	30.7
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	65.5	66.2	65.3	64.6	64.0	63.8
Efficiency of thermal power stations		52.3	55.5	53.9	53.6	53.5	54.7

## 2. Energy balance

### Principal aggregates by product

 eurostat	NEDERLAND						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	59 209	56 912	60 634	60 131	58 431	67 860	16.1%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	2 556	2 373	2 285	3 102	3 104	2 925	-5.8%
Natural Gas	54 118	51 904	55 713	54 275	52 212	61 585	18.0%
Nuclear heat	988	1 013	1 026	1 010	1 036	986	-4.9%
Hydro-electricity	8	12	10	9	6	8	31.9%
Biomass	1 476	1 529	1 519	1 642	1 940	2 175	12.1%
<b>Imports</b>							
Total	118 850	134 407	144 123	141 438	142 073	146 303	3.0%
<i>among which:</i> Hard coal	11 755	13 709	18 575	13 381	13 588	14 785	8.8%
Crude oil and feedstocks	59 745	61 141	61 400	55 745	57 832	61 093	5.6%
Petroleum products	37 286	44 571	46 532	50 927	50 178	54 833	9.3%
Natural Gas	7 751	12 475	15 323	19 175	18 256	13 502	-26.0%
Electricity	1 927	1 973	1 848	1 794	1 789	1 840	2.9%
<b>Exports</b>							
Total	92 961	100 132	112 714	110 143	106 759	116 600	9.2%
<i>among which:</i> Crude oil and feedstocks	310	186	358	901	1 354	1 221	-9.8%
Petroleum products	60 074	63 853	65 880	65 578	65 735	70 594	7.4%
Natural gas	27 294	29 666	35 495	37 624	34 460	38 362	11.3%
Electricity	341	347	362	386	328	446	36.2%
<b>Gross inland consumption</b>							
Total	74 475	75 655	77 587p	78 195p	80 493	82 283	2.2%
<i>among which:</i> Solid fuels	7 486	7 979	8 334	8 381	8 731	9 177	5.1%
Crude oil and petrol. prod.	28 034	28 496	29 374	29 600	31 187	31 616	1.4%
Natural gas	34 581	34 711	35 547	35 842	35 998	36 745	2.1%
Nuclear Energy	988	1 013	1 026	1 010	1 036	986	-4.9%
Renewables	1 547	1 622	1 610	1 744	2 079	2 364	13.7%
<b>Transformation input</b>							
Total	100 720	104 304	106 914p	104 340p	108 148	110 085	1.8%
<i>among which:</i> Crude oil and feedstocks	77 924	82 188	83 510	80 694	84 249	85 632	1.6%
Petroleum products	1 470	618	653	574	590	593	0.5%
Hard coal	6 809	7 173	7 491	7 458	7 597	7 472	-1.6%
Lignite and peat	-	-	-	-	-	-	-
Renewables	1 160	1 220	1 302	1 413	1 579	1 794	13.6%
<b>Transformation output</b>							
Total	90 161	94 419	95 976	93 370	96 938	98 975	2.1%
<i>among which:</i> Electricity	7 390	7 622	7 980	8 164	8 201	8 493	3.6%
Heat	2 887	3 001	2 967	2 901	2 746	3 008	9.5%

**Final energy consumption**

Total	48 790	50 066	50 700	50 548	51 532	52 456	1.8%
<i>among which:</i> Solid fuels	1 445	1 294	1 342	1 366	1 324	1 550	17.1%
Petroleum products	16 026	16 469	16 506	16 906	17 162	17 431	1.6%
Natural Gas	19 994	20 600	21 116	20 552	21 226	21 149	-0.4%
Renewables	323	317	227	241	377	399	5.9%
Electricity	8 145	8 421	8 549	8 576	8 643	8 867	2.6%

**Final energy consumption by sector**
**Industry**

Total	12 798	13 754	13 697	13 687	14 253	14 801	3.8%
<i>among which:</i> Solid fuels	1 406	1 266	1 310	1 333	1 294	1 517	17.3%
Petroleum Products	836	1 603	1 602	1 635	1 767	1 679	-5.0%
Natural Gas	5 713	5 743	5 358	5 370	5 905	5 993	1.5%
Renewables	73	69	69	74	96	117	21.6%
Electricity	3 439	3 491	3 494	3 531	3 500	3 556	1.6%


**Transport**

Total	13 767	13 820	14 233	14 578	14 672	15 038	2.5%
<i>among which:</i> Motor spirit	4 355	4 242	4 334	4 387	4 402	4 373	-0.7%
Diesel oil	5 175	5 472	5 942	6 127	6 324	6 547	3.5%
Jet fuel	3 388	3 343	3 250	3 393	3 334	3 560	6.8%
Electricity	141	140	136	134	136	142	4.0%


**Services&households**

Total	22 226	22 493	22 769	22 283	22 607	22 618	0.0%
<i>among which:</i> Solid fuels	39	28	31	33	30	33	9.4%
Gas oil	1 384	1 031	614	646	717	682	-4.9%
Natural Gas	14 281	14 857	15 758	15 182	15 321	15 156	-1.1%
Renewables	249	249	158	167	281	283	0.6%
Electricity	4 565	4 790	4 920	4 911	5 007	5 168	3.2%
Heat	1 526	1 384	1 096	1 163	1 107	1 121	1.3%


### 3.1 Electricity balance

 eurostat	NEDERLAND							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation	86 396	89 615	93 747	95 965	96 775	100 736	4.1%	
<i>among which:</i>								
Hydro	90	142	117	108	72	95	31.9%	
Wind	645	829	825	910	1 330	1 867	40.4%	
Geothermal	-	-	-	-	-	-	-	
Nuclear	3 832	3 926	3 976	3 915	4 018	3 822	-4.9%	
Conventional thermal	81 829	84 718	88 829	91 032	91 355	94 952	3.9%	
<i>of which:</i>								
Hard coal	19 000	22 600	23 720	23 936	24 339	23 495	-3.5%	
Lignite and peat	-	-	-	-	-	-	-	
Petroleum products	6 565	3 131	3 112	2 819	2 858	2 824	-1.2%	
Natural gas	49 552	51 713	55 263	57 028	56 876	61 013	7.3%	
Derived gases	3 108	2 848	3 021	2 920	3 132	2 741	-12.5%	
Biomass	2 821	3 251	3 458	3 002	3 898	4 676	20.0%	
Industrial wastes	783	1 175	255	1 327	252	203	-19.4%	
Total net generation	82 895	85 951	89 888	91 881	92 855	96 566	4.0%	
<b>Imports and exports</b>								
Total imports	22 408	22 946	21 492	20 870	20 801	21 405	2.9%	
Total exports	3 968	4 031	4 209	4 488	3 809	5 188	36.2%	
<b>Consumption and losses</b>								
Consumption of the energy branch	6 438	6 503	7 402	8 383	8 965	9 546	6.5%	
<i>of which:</i>								
Consumption for pumped-storage	-	-	-	-	-	-	-	
Network losses	3 960	4 089	4 200	4 228	4 282	4 323	1.0%	
Final energy consumption	94 722	97 938	99 428	99 736	100 520	103 118	2.6%	
<i>of which:</i>								
Industry	39 993	40 600	40 637	41 066	40 701	41 362	1.6%	
<i>among which:</i>								
Iron&steel industry	2 263	2 624	2 626	2 573	2 654	2 708	2.0%	
Non-ferrous metals	5 693	5 949	5 802	5 769	5 828	6 328	8.6%	
Chemical industry	11 857	11 995	11 567	11 893	11 922	12 143	1.9%	
Non-met. mineral prod.	1 552	1 690	1 619	1 544	1 475	1 434	-2.8%	
Food, drink, tobacco	6 343	6 387	6 819	6 680	6 592	6 537	-0.8%	
Pulp, paper and print	3 671	3 804	3 623	3 752	3 694	3 682	-0.3%	
Engineering & metal	4 916	4 504	4 625	4 792	3 904	4 017	2.9%	
Other industries	2 877	2 819	2 907	2 970	3 514	3 473	-1.2%	
Transport	1 639	1 630	1 577	1 556	1 585	1 648	4.0%	
Services & households etc.	53 090	55 708	57 214	57 114	58 234	60 108	3.2%	
<i>among which:</i>								
Households	21 350	21 800	22 100	22 800	23 300	23 500	0.9%	


## 3.2 Electrical capacity, fuel inputs and heat

	NEDERLAND							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	20 619	20 998	20 311	20 800	20 791	21 712	4.4%
<i>by source:</i>								
Conventional thermal		19 724	20 070	19 344	19 635	19 421	20 153	3.8%
<i>of which:</i>								
Steam		10 081	10 945	9 421	10 374	10 216	9 712	-4.9%
Gas turbine		800	1 334	1 298	1 070	1 138	1 195	5.0%
Combined cycle		5 393	6 266	7 229	6 496	6 534	7 637	16.9%
Internal combustion		700	1 525	1 396	1 695	1 533	1 591	3.8%
Nuclear		449	449	449	449	449	449	0.0%
Hydro		37	37	38	38	37	37	0.0%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		409	442	480	678	884	1 073	21.4%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		17 840	18 214	17 881	18 277	18 152	18 595	2.4%
Autoproducers		2 835	2 844	2 451	2 609	2 752	3 239	17.7%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	18 729	18 233	19 371p	19 708p	19 832	20 417	3.0%
<i>among which:</i>								
Hard coal		4 590	5 114	5 368	5 417	5 507	5 316	-3.5%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		1 470	618	653	574	590	593	0.5%
Natural gas		10 566	10 441	11 164	11 441	11 455	12 094	5.6%
Renewables		1 160	1 220	1 302	1 413	1 579	1 794	13.6%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	2 887	3 001	2 967	2 901	2 746	3 008	9.5%
<i>among which: in heating plants</i>								
		161	164	165	168	-	-	-
Heat consumption		2 460	2 558	2 530	2 466	2 334	2 556	9.5%
<i>of which: in industry</i>								
		933	1 174	1 434	1 303	1 227	1 435	17.0%
<i>in households and services</i>								
		1 526	1 384	1 096	1 163	1 107	1 121	1.3%
<i>among which: in households</i>								
		203	150	164	158	174	200	15.3%


## 4.1 Crude oil and feedstocks

 eurostat		NEDERLAND						
		1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 t</i>								
<b>Primary production and supply</b>								
Primary production		2 535	2 350	2 263	3 074	3 076	2 891	-6.0%
Total imports		59 251	60 553	60 810	55 236	57 312	60 382	5.4%
Total exports		307	184	355	893	1 342	1 207	-10.1%
Stock changes		-187	-931	-584	98	898	-5	-100.5%
Refinery intake		77 173	81 294	82 598	79 828	83 351	84 561	1.5%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		33 685	30 856	28 982	21 468	21 920	23 968	9.3%
Near and Middle East		28 906	25 085	22 670	18 500	18 474	16 730	-9.4%
Africa		4 265	5 608	6 851	4 781	4 281	2 974	-30.5%
<i>by country of origin:</i>								
Algeria		4 035	4 780	4 666	3 886	2 417	2 684	11.0%
Nigeria		158	455	1 387	346	1 293	94	-92.7%
Saudi Arabia		11 560	12 265	10 539	7 567	10 592	12 993	22.7%
Kuwait		4 979	6 177	6 031	4 468	4 002	4 527	13.1%
United Arab Emirates		-	141	-	-	-	14	
Norway		10 633	11 340	10 782	8 035	8 428	9 312	10.5%
<b>Refining capacity</b>								
Capacity at the end of year	<i>1 000 t/year</i>	61 780	59 600	:	:	:	:	
<i>among which:</i>								
Cracking and others		21 950	24 520	:	:	:	:	
Reforming		6 270	7 370	:	:	:	:	


## 4.2 Petroleum products

 eurostat	NEDERLAND						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	76 263	80 235	81 306	78 714	82 275	83 486	1.5%
<i>among which:</i>							
Motor spirit	13 251	14 314	14 476	15 810	15 787	15 597	-1.2%
Kerosene and jet fuel	7 162	7 487	7 068	6 658	7 167	7 314	2.0%
Naphtha	9 122	11 303	12 116	8 655	10 222	11 084	8.4%
Gas/diesel oil	21 682	21 994	22 167	19 583	20 787	20 233	-2.7%
Residual fuel oil	11 145	11 215	10 780	12 704	12 333	13 073	6.0%
Total imports	37 364	44 675	46 864	51 208	50 428	55 523	10.1%
Total exports	59 693	63 442	65 714	65 432	65 562	70 587	7.7%
Bunkers	13 063	13 788	15 140	14 958	13 965	15 159	8.5%
Stock changes	1 546	-1 354	602	540	-286	-826	-188.8%
Gross inland consumption	-33 800	-33 859	-33 388	-28 592	-29 385	-31 048	-5.7%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	-	-	-	-	-	-	-
United Kingdom	4 101	5 203	4 527	5 011	4 733	5 233	10.6%
Norway	873	874	539	1 329	1 240	1 335	7.6%
OPEC	3 064	2 534	1 794	2 227	2 027	2 207	8.9%
Imports by product							
<i>among which:</i>							
Motor spirit	5 394	7 516	6 176	7 270	7 821	7 906	1.1%
Kerosene and jet fuel	1 364	1 297	1 565	1 196	1 082	1 759	62.5%
Gas/diesel oil	7 332	8 007	9 239	12 508	9 342	10 013	7.2%
Residual fuel oil	9 456	13 059	14 695	15 565	14 086	15 453	9.7%
Exports by product							
<i>among which:</i>							
Motor spirit	11 283	12 746	11 451	12 327	13 851	14 801	6.9%
Kerosene and jet fuel	4 435	4 440	4 175	3 424	3 783	4 561	20.6%
Gas/diesel oil	19 831	19 418	22 097	21 626	20 552	20 177	-1.8%
Residual fuel oil	7 995	10 210	10 894	12 115	11 344	13 230	16.6%
<b>Consumption</b>							
Inputs to electricity plants	1 370	616	647	574	598	588	-1.7%
Inputs to heating plants	-	-	-	-	-	-	-
Non-energy use	6 646	7 369	7 590	7 648	8 883	9 006	1.4%
Final energy consumption	15 496	15 841	15 893	16 255	16 518	16 794	1.7%
Industry	745	1 402	1 412	1 415	1 547	1 468	-5.1%
<i>among which by product:</i>							
Gas/diesel oil	224	219	168	164	175	181	3.6%
Residual fuel oil	44	39	44	6	21	19	-7.6%




 eurostat	NEDERLAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		3	4	4	3	4	4	-12.3%
Non-ferrous metals		-	7	-	-	-	0	
Chemical industry		471	1 137	1 207	1 191	1 257	1 188	-5.5%
Non-met. mineral prod.		42	33	30	8	17	17	1.1%
Food, drink, tobacco		35	21	20	7	10	8	-17.0%
Pulp, paper and print		1	1	2	1	1	1	-28.3%
Engineering & metal		18	22	21	65	104	91	-12.7%
Other industries		144	148	121	114	121	118	-2.8%
<b>Transport</b>		13 209	13 274	13 690	14 031	14 127	14 486	2.5%
<i>among which:</i>								
Motor spirit		4 144	4 036	4 124	4 174	4 189	4 161	-0.7%
Jet fuel		3 299	3 255	3 164	3 304	3 246	3 466	6.8%
Diesel oil		5 122	5 416	5 881	6 064	6 259	6 480	3.5%
<b>Services &amp; households etc.</b>		1 542	1 165	791	809	844	840	-0.5%
<i>among which:</i>								
Gas oil		1 370	1 020	608	639	710	675	-4.9%
Residual fuel oil		23	2	27	-	-	20	
<b>Stocks at end of period</b>								
Crude oil and feedstocks		4 125	5 056	5 640	5 542	4 644	4 648	0.1%
Petroleum products		6 800	8 154	7 552	7 012	7 298	8 124	11.3%


## 5. Natural gas

 eurostat	NEDERLAND							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		2 517 547	2 414 593	2 591 786	2 524 867	2 428 905	2 864 924	18.0%
Total imports		360 586	580 346	712 810	892 010	849 263	628 124	-26.0%
Total exports		1 269 699	1 380 051	1 651 219	1 750 281	1 603 074	1 784 604	11.3%
Stock changes		270	-150	276	774	-447	925	306.9%
Gross inland consumption		1 608 704	1 614 738	1 653 653	1 667 370	1 674 647	1 709 369	2.1%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		221 184	253 118	258 626	335 294	282 365	230 012	-18.5%
<b>Consumption</b>								
Inputs to electricity plants		491 520	485 721	519 356	532 244	532 865	562 601	5.6%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		69 210	67 330	64 319	72 841	55 463	62 604	12.9%
Distribution losses		-	-	-	-	-	-	-
Non-energy use		117 864	116 589	102 872	106 249	98 882	100 295	1.4%
Industry		265 747	267 167	249 231	249 828	274 699	278 800	1.5%
<i>among which:</i>								
Iron&steel industry		14 668	14 740	14 833	14 662	13 401	12 448	-7.1%
Non-ferrous metals		3 940	4 195	3 878	4 136	3 885	4 578	17.8%
Chemical industry		95 989	99 518	89 304	88 810	99 038	101 332	2.3%
Non-met. mineral prod.		27 834	28 657	28 066	24 901	25 133	25 862	2.9%
Food, drink, tobacco		62 158	57 768	53 732	56 739	66 907	68 560	2.5%
Pulp, paper and print		17 023	17 652	15 828	16 936	20 937	22 912	9.4%
Engineering & metal		25 464	24 205	24 560	24 067	18 795	18 473	-1.7%
Other industries		9 463	10 850	10 541	10 331	15 547	14 103	-9.3%
Transport		-	-	-	-	-	-	-
Services & households etc.		664 363	691 151	733 066	706 268	712 738	705 069	-1.1%
<i>among which:</i>								
Households		371 044	370 692	385 112	364 010	372 802	367 526	-1.4%
Services		138 219	172 961	200 801	195 675	213 078	205 526	-3.5%


## 6.1 Hard coal


 eurostat	NEDERLAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	19 002	22 295	30 336	21 677	21 620	22 603	4.5%	
Total exports	7 240	9 122	16 745	8 568	7 295	9 292	27.4%	
Stock changes	327	-245	-131	305	-658	240	136.5%	
Gross inland consumption	12 089	12 928	13 460	13 414	13 667	13 551	-0.8%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	2 734	2 862	2 580	2 350	1 181	1 823	54.4%	
Poland	1 607	1 565	957	321	377	180	-52.3%	
CIS	345	174	953	590	288	1 269	340.6%	
Australia	2 781	3 013	2 486	2 833	2 561	1 400	-45.3%	
South Africa	4 789	5 269	10 466	7 396	8 094	8 316	2.7%	
Colombia	3 433	4 805	5 810	3 026	4 362	4 515	3.5%	
<b>Consumption</b>								
Inputs to electricity plants	7 884	8 590	9 156	9 110	9 212	8 876	-3.6%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry								
<i>among which:</i>								
Iron&steel industry	1 172	1 052	1 212	1 247	1 334	1 473	10.4%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	46	54	-	-	-	-	-	
Non-met. mineral prod.	38	16	13	1	1	1	0.0%	
Food, drink, tobacco	31	36	36	39	28	17	-39.3%	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	50	31	35	32	33	33	0.0%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

 eurostat	NEDERLAND						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	2 327	2 127	2 214	2 127	2 154	2 216	2.9%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	19 766	18 875	19 268	17 983	19 054	19 379	1.7%
Blast-furnace gas	36 011	33 970	37 015	37 146	39 385	37 457	-4.9%
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	730	691	638	652	659	680	3.2%
<i>among which:</i>							
Iron & steel industry	661	621	571	583	618	639	3.4%
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	35	44	57	52	39	44	12.8%
<i>among which:</i>							
Industry	16	26	35	29	18	23	27.8%
Services & households	19	18	22	23	21	21	0.0%
Brown coal briquettes	1	1	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	1	1	-	-	-	-	-
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	7 901	7 356	7 260	7 156	7 642	9 784	28.0%
Blast-furnace gas	9 535	10 438	11 488	12 026	12 603	12 235	-2.9%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	29 167	26 722	28 579	27 639	29 649	26 162	-11.8%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	9 104	8 329	8 956	8 308	8 545	8 655	1.3%
Consumption in industry	17 436	17 794	18 748	19 182	20 245	22 019	8.8%


## 7. Renewable energy sources

		NEDERLAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	1 547	1 622	1 610	1 744	2 079	2 364	13.7%
Hydro (excl. pumping)		8	12	10	9	6	8	31.9%
Wind		55	71	71	78	114	161	40.4%
Solar		7	9	10	14	19	20	10.2%
Geothermal		-	-	-	-	-	-	-
Biomass		1 476	1 529	1 519	1 642	1 940	2 175	12.1%
	<i>among which:</i>							
Wood, wood-waste		267	300	321	448	537	724	34.8%
Municipal solid waste		1 090	1 097	1 060	1 061	1 273	1 325	4.0%
Biogas		119	132	138	133	129	126	-2.0%
Gross inland consumption		1 547	1 622	1 610	1 744	2 079	2 364	13.7%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		1 160	1 220	1 302	1 413	1 579	1 794	13.6%
	<i>among which:</i>							
Wood, wood-waste		-	45	141	271	242	411	69.6%
Municipal waste		1 090	1 097	1 060	1 061	1 273	1 325	4.0%
Biogas		70	78	100	81	63	58	-7.9%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	323	317	227	241	377	399	5.9%
	<i>by sector:</i>							
Industry		73	69	69	74	96	117	21.6%
Services & households etc.		249	249	158	167	281	283	0.6%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		316	309	217	229	361	382	5.7%
	<i>among which:</i>							
Wood, wood-waste		267	255	180	177	295	313	6.2%
Municipal waste		-	-	-	-	-	-	-
Biogas		49	54	37	52	66	68	3.7%
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		6	8	14	17	31	33	6.5%
Hydro with installed capacity < 1 MW		1	1	-	-	-	-	-
Hydro with installed capacity > 1 & <10 MW		-	-	-	-	-	-	-
Hydro with installed capacity > 10 MW		90	142	117	108	72	95	31.9%
Wood, Wood-waste		-	378	670	1 323	1 010	1 836	81.8%
Municipal waste		2 535	2 574	2 487	2 521	2 606	2 550	-2.1%
Biogas		286	299	301	304	313	290	-7.3%

	NEDERLAND						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	9	13	21	26	46	50	8.7%
Hydro with installed capacity < 1 MW	2	2	-	-	-	-	-
Hydro with installed capacity > 1 & <10 MW	-	-	-	-	-	-	-
Hydro with installed capacity > 10 MW	35	36	38	37	37	37	0.0%
Wood, Wood-waste	55	72	129	232	160	439	174.4%
Municipal waste	414	414	414	414	414	414	0.0%
Biogas	-	-	-	-	-	-	-
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	268	309	358	406	524	582	11.1%


# 1. Energy economy

## Key figures and energy indicators

		ÖSTERREICH					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	9 255	9 380	9 435	9 595	9 404	9 526
Net energy imports		18 895	18 813	19 626	20 585	22 826	23 148
Net oil imports		11 048	10 679	11 343	12 162	12 912	13 114
Net gas imports		5 190	5 253	4 986	4 900	5 948	6 008
Gross inland energy consumption		28 603	28 450	30 430	30 356	32 576	32 713
Final energy consumption		21 914	22 096	23 919	24 114	25 523	25 671
Industry		6 296	6 799	6 968	7 105	7 412	7 507
Transport		5 737	6 033	6 377	6 951	7 448	7 699
Services and households etc.		9 881	9 264	10 573	10 058	10 663	10 465
Gross electricity generation	GWh	60 514	61 821	62 430	62 479	60 097	64 123
Final electricity consumption		50 499	51 796	53 897	54 934	55 188	56 368
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	204 882	211 759	213 519	215 577	218 603	223 940
Population	1000 per.	7 983	8 002	8 021	8 065	8 102	8 140
Industry added value	Mio EUR	57 149	60 033	60 906	61 770	62 499	64 737
Total imports (current prices)	Mio EUR	81 300	89 487	94 087	94 254	99 559	105 721
among which:							
All energy commodities		2 883	4 901	5 504	5 742	6 462	8 086
Oil products		1 951	3 398	3 279	3 264	3 527	4 554
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	139.6	134.4	142.5	140.8	149.0	146.1
Final energy consumption / GDP(95)		107.0	104.3	112.0	111.9	116.8	114.6
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		110.2	113.3	114.4	115.0	118.6	116.0
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		21.4	16.8	21.8	18.6	24.2	22.7
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 583	3 555	3 794	3 764	4 021	4 019
Final energy consumption / capita		2 745	2 761	2 982	2 990	3 150	3 154
Household consumption / capita		830	813	891	871	860	844
Final electricity consumption / capita	kWh/cap.	6 326	6 473	6 720	6 811	6 811	6 925
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	66.1	66.1	64.5	67.8	70.1	70.8
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	76.6	77.7	78.6	79.4	78.3	78.5
Efficiency of thermal power stations		53.2	57.4	61.4	58.0	56.6	57.3

## 2. Energy balance

### Principal aggregates by product

 eurostat	ÖSTERREICH						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	9 255	9 380	9 435	9 595	9 404	9 526	1.3%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	266	293	283	331	270	55	-79.6%
Crude oil	1 044	1 055	991	925	989	1 035	4.6%
Natural Gas	1 478	1 533	1 471	1 597	1 776	1 667	-6.1%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	3 482	3 598	3 455	3 433	2 827	3 132	10.8%
Biomass	2 910	2 819	3 140	3 204	3 411	3 452	1.2%
<b>Imports</b>							
Total	21 813	21 717	23 009	24 115	26 437	27 232	3.0%
<i>among which:</i> Hard coal	2 371	2 326	2 538	2 718	2 670	3 005	12.5%
Crude oil and feedstocks	8 311	7 841	8 358	8 525	8 026	7 604	-5.3%
Petroleum products	4 344	4 261	4 600	5 079	6 285	7 084	12.7%
Natural Gas	5 190	5 268	5 334	5 552	6 820	7 123	4.4%
Electricity	998	1 189	1 244	1 322	1 634	1 430	-12.5%
<b>Exports</b>							
Total	2 917	2 904	3 383	3 530	3 610	4 083	13.1%
<i>among which:</i> Crude oil and feedstocks	65	137	104	6	25	5	-80.0%
Petroleum products	1 542	1 285	1 510	1 436	1 374	1 570	14.3%
Natural gas	-	15	348	652	872	1 115	27.8%
Electricity	1 161	1 306	1 225	1 262	1 151	1 165	1.2%
<b>Gross inland consumption</b>							
Total	28 603	28 450	30 430	30 356	32 576	32 713	0.4%
<i>among which:</i> Solid fuels	3 261	3 588	3 896	3 795	4 106	3 956	-3.7%
Crude oil and petrol. prod.	12 117	11 858	12 772	12 795	13 800	13 808	0.1%
Natural gas	6 831	6 519	6 909	6 787	7 554	7 620	0.9%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	6 418	6 451	6 636	6 725	6 350	6 766	6.6%
<b>Transformation input</b>							
Total	16 441	15 178	15 998	16 259	16 825	16 462	-2.2%
<i>among which:</i> Crude oil and feedstocks	9 438	8 765	9 336	9 320	8 974	8 683	-3.3%
Petroleum products	617	378	419	262	343	316	-7.8%
Hard coal	2 122	2 245	2 441	2 378	2 719	2 780	2.2%
Lignite and peat	328	290	354	323	334	231	-31.0%
Renewables	692	636	678	794	941	1 034	9.9%
<b>Transformation output</b>							
Total	13 932	13 061	13 945	14 055	14 281	13 961	-2.2%
<i>among which:</i> Electricity	1 611	1 570	1 756	1 743	2 102	2 084	-0.8%
Heat	1 167	1 070	1 257	1 218	1 347	1 338	-0.6%



**Final energy consumption**

Total	21 914	22 096	23 919	24 114	25 523	25 671	0.6%
<i>among which:</i> Solid fuels	668	695	616	581	608	533	-12.4%
Petroleum products	9 423	9 414	10 160	10 564	11 507	11 399	-0.9%
Natural Gas	3 722	3 803	4 233	4 054	4 115	4 417	7.3%
Renewables	2 240	2 211	2 488	2 481	2 549	2 519	-1.2%
Electricity	4 342	4 454	4 634	4 723	4 745	4 847	2.1%

**Final energy consumption by sector**
**Industry**

Total	6 296	6 799	6 968	7 105	7 412	7 507	1.3%
<i>among which:</i> Solid fuels	392	448	389	392	405	376	-7.4%
Petroleum Products	1 284	1 244	1 273	1 317	1 440	1 391	-3.5%
Natural Gas	1 711	2 047	2 137	2 174	2 136	2 424	13.5%
Renewables	518	579	646	691	726	610	-16.0%
Electricity	1 932	1 948	1 806	1 831	1 837	1 897	3.3%


**Transport**

Total	5 737	6 033	6 377	6 951	7 448	7 699	3.4%
<i>among which:</i> Motor spirit	2 003	1 938	1 952	2 174	2 224	2 186	-1.7%
Diesel oil	2 910	3 215	3 542	3 950	4 419	4 620	4.5%
Jet fuel	541	586	570	534	507	598	17.8%
Electricity	271	280	289	268	271	268	-1.0%


**Services&households**

Total	9 881	9 264	10 573	10 058	10 663	10 465	-1.9%
<i>among which:</i> Solid fuels	276	247	227	188	202	157	-22.1%
Gas oil	2 258	2 014	2 365	2 156	2 306	2 034	-11.8%
Natural Gas	2 012	1 756	2 096	1 879	1 978	1 993	0.7%
Renewables	1 715	1 624	1 833	1 782	1 814	1 899	4.7%
Electricity	2 139	2 225	2 540	2 625	2 638	2 681	1.7%
Heat	1 044	969	1 047	1 001	1 116	1 117	0.1%


### 3.1 Electricity balance

 eurostat	ÖSTERREICH							
	in GWh		1999	2000	2001	2002	2003	2004
<b>Generation</b>								
Total gross generation		60 514	61 821	62 430	62 479	60 097	64 123	6.7%
<i>among which:</i>								
Hydro		41 727	43 498	41 837	42 004	35 292	38 966	10.4%
Wind		51	67	172	203	366	924	152.5%
Geothermal		-	-	-	-	-	-	-
Nuclear		-	-	-	-	-	-	-
Conventional thermal		18 736	18 256	20 421	20 272	24 439	24 233	-0.8%
<i>of which:</i>								
Hard coal		2 893	4 432	5 356	5 153	6 933	6 905	-0.4%
Lignite and peat		1 496	1 293	1 623	1 461	1 512	999	-33.9%
Petroleum products		2 419	1 643	2 230	1 314	1 752	1 817	3.7%
Natural gas		8 857	8 062	8 232	9 416	11 217	10 940	-2.5%
Derived gases		1 100	1 038	970	1 048	992	1 202	21.2%
Biomass		1 594	1 618	1 823	1 568	1 838	2 141	16.5%
Industrial wastes		377	170	187	312	195	229	17.4%
Total net generation		59 022	59 985	60 809	61 067	58 034	62 365	7.5%
<b>Imports and exports</b>								
Total imports		11 608	13 824	14 467	15 375	19 002	16 629	-12.5%
Total exports		13 507	15 192	14 252	14 676	13 389	13 548	1.2%
<b>Consumption and losses</b>								
Consumption of the energy branch		3 561	3 743	4 042	3 030	5 141	5 261	2.3%
<i>of which:</i>								
Consumption for pumped-storage		251	258	344	432	502	500	-0.4%
Network losses		3 321	3 256	3 056	3 144	2 970	3 034	2.2%
Final energy consumption		50 499	51 796	53 897	54 934	55 188	56 368	2.1%
<i>of which:</i>								
Industry		22 470	22 657	21 004	21 290	21 361	22 064	3.3%
<i>among which:</i>								
Iron&steel industry		3 519	3 548	2 937	2 888	2 578	2 663	3.3%
Non-ferrous metals		666	672	638	668	703	726	3.3%
Chemical industry		3 194	3 221	3 225	3 347	3 357	3 468	3.3%
Non-met. mineral prod.		1 467	1 479	1 485	1 626	1 684	1 740	3.3%
Food, drink, tobacco		1 342	1 353	1 282	1 332	1 433	1 480	3.3%
Pulp, paper and print		5 215	5 258	4 603	4 778	4 558	4 708	3.3%
Engineering & metal		1 266	1 276	2 985	2 980	2 994	3 092	3.3%
Other industries		4 436	4 473	2 541	2 384	2 748	2 839	3.3%
Transport		3 153	3 259	3 357	3 118	3 152	3 122	-1.0%
Services & households etc.		24 876	25 880	29 536	30 526	30 675	31 182	1.7%
<i>among which:</i>								
Households		13 163	14 088	15 012	16 095	15 077	15 109	0.2%


## 3.2 Electrical capacity, fuel inputs and heat


		ÖSTERREICH						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	17 843	17 735	17 657	18 009	20 271	20 972	3.5%
<i>by source:</i>								
Conventional thermal		6 160	6 134	6 038	6 178	6 178	6 326	2.4%
<i>of which:</i>								
Steam		4 824	4 790	4 694	4 834	4 834	4 982	3.1%
Gas turbine		256	256	257	257	257	257	0.0%
Combined cycle		968	968	980	980	980	980	0.0%
Internal combustion		112	120	107	107	107	107	0.0%
Nuclear		-	-	-	-	-	-	-
Hydro		11 648	11 547	11 550	11 698	13 750	14 086	2.4%
<i>among which:</i>								
Pumped storage		3 568	3 568	3 568	2 073	3 568	2 543	-28.7%
Wind		35	54	69	133	343	560	63.3%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		16 112	16 089	15 993	16 361	18 615	19 575	5.2%
Autoproducers		1 732	1 630	1 665	1 665	1 665	1 406	-15.6%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	4 459	3 929	4 216	4 359	5 225	5 183	-0.8%
<i>among which:</i>								
Hard coal		601	941	1 124	1 060	1 401	1 458	4.0%
Lignite and peat		328	290	354	323	334	231	-31.0%
Petroleum products		553	287	299	212	311	289	-7.1%
Natural gas		2 236	1 754	1 767	1 928	2 347	2 196	-6.4%
Renewables		446	378	378	456	535	656	22.6%
Heating plants		501	573	534	563	627	567	-9.5%
<i>among which:</i>								
Hard coal		-	-	4	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		63	92	120	50	33	28	-14.5%
Natural gas		192	223	109	176	185	159	-14.2%
Renewables		245	257	299	338	406	378	-6.8%
<b>Heat production and consumption</b>								
Total heat production	TJ	1 167	1 070	1 257	1 218	1 347	1 338	-0.6%
<i>among which: in heating plants</i>								
		406	386	427	435	491	454	-7.6%
Heat consumption		1 044	969	1 207	1 186	1 305	1 291	-1.1%
<i>of which: in industry</i>								
		0	0	160	185	190	174	-8.6%
<i>in households and services</i>								
		1 044	969	1 047	1 001	1 116	1 117	0.1%
<i>among which: in households</i>								
		465	455	513	508	552	571	3.5%

## 4.1 Crude oil and feedstocks


 eurostat		ÖSTERREICH						
		1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 t</i>								
<b>Primary production and supply</b>								
Primary production		1 063	1 072	1 012	948	1 011	1 061	4.9%
Total imports		8 440	7 949	8 512	8 711	8 189	7 786	-4.9%
Total exports		66	137	105	6	25	5	-80.0%
Stock changes		111	-17	80	-224	-119	20	116.8%
Refinery intake		9 583	8 891	9 508	9 529	9 163	8 886	-3.0%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		5 176	4 526	4 853	4 362	4 111	3 766	-8.4%
Near and Middle East		2 363	2 373	2 621	2 872	2 298	2 079	-9.5%
Africa		3 257	2 446	3 246	2 434	2 636	1 899	-28.0%
<i>by country of origin:</i>								
Algeria		927	739	520	260	294	251	-14.6%
Nigeria		695	986	1 390	1 482	1 108	641	-42.1%
Saudi Arabia		515	595	641	862	1 570	1 505	-4.1%
Kuwait		-	-	-	-	128	-	-
United Arab Emirates		-	-	49	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	<i>1 000 t/year</i>	10 000	10 330	:	:	:	:	
<i>among which:</i>								
Cracking and others		3 360	3 020	:	:	:	:	
Reforming		1 370	1 400	:	:	:	:	

## 4.2 Petroleum products


 eurostat	ÖSTERREICH						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	9 414	8 770	9 339	9 445	9 157	8 846	-3.4%
<i>among which:</i>							
Motor spirit	2 141	1 815	1 922	1 927	1 811	1 738	-4.0%
Kerosene and jet fuel	509	545	514	485	447	456	2.0%
Naphtha	-	-	-	-	-	-	-
Gas/diesel oil	3 675	3 724	3 959	3 984	3 849	3 529	-8.3%
Residual fuel oil	1 308	979	1 044	1 012	1 062	1 032	-2.8%
Total imports	4 343	4 271	4 594	5 066	6 266	7 061	12.7%
Total exports	1 531	1 305	1 539	1 464	1 395	1 587	13.8%
Bunkers	-	-	-	-	-	-	-
Stock changes	-115	137	358	-77	17	-378	-2323.5%
Gross inland consumption	2 730	3 125	3 423	3 525	4 891	5 109	4.5%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	53	61	34	87	43	32	-25.6%
United Kingdom	1	1	1	1	11	-	-
Norway	-	-	-	-	-	-	-
OPEC	-	-	-	-	-	-	-
Imports by product							
<i>among which:</i>							
Motor spirit	762	670	603	706	879	1 043	18.7%
Kerosene and jet fuel	39	43	41	45	56	142	153.6%
Gas/diesel oil	2 492	2 608	3 059	3 462	4 351	4 883	12.2%
Residual fuel oil	468	261	280	241	328	306	-6.7%
Exports by product							
<i>among which:</i>							
Motor spirit	824	472	582	496	474	614	29.5%
Kerosene and jet fuel	7	6	2	2	7	7	0.0%
Gas/diesel oil	459	416	418	520	539	580	7.6%
Residual fuel oil	37	152	228	146	55	55	0.0%
<b>Consumption</b>							
Inputs to electricity plants	579	300	311	222	325	302	-7.1%
Inputs to heating plants	66	96	126	52	34	29	-14.7%
Non-energy use	1 351	1 338	1 425	1 390	1 413	1 470	4.0%
Final energy consumption	9 273	9 259	9 997	10 396	11 334	11 231	-0.9%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	629	685	765	916	1 026	1 037	1.1%
Residual fuel oil	431	347	304	224	233	187	-19.7%

 eurostat	ÖSTERREICH							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	19	27	16	8	6	5	-16.7%	
Non-ferrous metals	17	14	13	16	14	11	-21.4%	
Chemical industry	35	25	29	29	27	22	-18.5%	
Non-met. mineral prod.	160	112	93	125	132	156	18.2%	
Food, drink, tobacco	58	55	54	57	64	44	-31.3%	
Pulp, paper and print	73	52	46	36	47	38	-19.1%	
Engineering & metal	225	222	225	177	188	152	-19.1%	
Other industries	610	648	693	774	859	873	1.6%	
<b>Transport</b>	5 317	5 601	5 932	6 513	6 999	7 250	3.6%	
<i>among which:</i>								
Motor spirit	1 906	1 844	1 857	2 069	2 116	2 080	-1.7%	
Jet fuel	527	571	555	520	494	582	17.8%	
Diesel oil	2 880	3 182	3 506	3 910	4 374	4 573	4.5%	
<b>Services &amp; households etc.</b>	2 663	2 412	2 793	2 558	2 887	2 574	-10.8%	
<i>among which:</i>								
Gas oil	2 235	1 993	2 341	2 134	2 282	2 013	-11.8%	
Residual fuel oil	324	324	370	336	486	429	-11.7%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	1 479	1 495	1 415	1 639	1 750	1 730	-1.1%	
Petroleum products	1 836	1 700	1 302	1 422	1 396	1 774	27.1%	

## 5. Natural gas


 eurostat	ÖSTERREICH							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		68 778	71 308	68 414	74 295	82 603	77 550	-6.1%
Total imports		241 433	245 062	248 152	258 276	317 283	331 352	4.4%
Total exports		-	696	16 184	30 334	40 567	51 847	27.8%
Stock changes		7 553	-12 424	21 004	13 516	-7 889	-2 568	-67.4%
Gross inland consumption		317 764	303 250	321 386	315 753	351 430	354 487	0.9%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		c	c	c	c	c	c	
Algeria		-	-	-	-	-	-	-
Norway		c	c	c	c	c	c	
<b>Consumption</b>								
Inputs to electricity plants		104 004	81 579	82 216	89 682	109 168	102 161	-6.4%
Inputs to heat plants		8 936	10 372	5 061	8 166	8 628	7 401	-14.2%
Consumption of energy branch		22 973	21 568	34 464	20 366	22 168	21 774	-1.8%
Distribution losses		2 742	228	11 919	6 869	7 647	6 417	-16.1%
Non-energy use		11 708	11 554	10 939	11 369	12 406	11 278	-9.1%
Industry		79 574	95 226	99 414	101 157	99 377	112 760	13.5%
<i>among which:</i>								
Iron&steel industry		14 963	14 831	15 039	13 676	15 281	17 338	13.5%
Non-ferrous metals		2 364	2 526	2 843	2 915	3 214	3 647	13.5%
Chemical industry		15 513	16 561	16 432	14 924	14 489	16 440	13.5%
Non-met. mineral prod.		10 053	10 516	10 543	12 293	12 636	14 338	13.5%
Food, drink, tobacco		9 896	15 827	15 617	19 259	16 296	18 491	13.5%
Pulp, paper and print		11 241	17 561	19 144	18 510	15 363	17 432	13.5%
Engineering & metal		5 867	6 651	7 736	6 858	7 766	8 811	13.5%
Other industries		4 949	4 763	5 540	6 818	8 284	9 400	13.5%
Transport		-	-	-	-	-	-	-
Services & households etc.		93 587	81 667	97 522	87 424	92 036	92 696	0.7%
<i>among which:</i>								
Households		63 062	64 631	67 597	66 950	71 527	69 557	-2.8%
Services		29 812	16 306	29 162	19 717	19 701	22 353	13.5%

## 6.1 Hard coal


 eurostat	ÖSTERREICH							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	3 360	3 413	3 724	4 031	3 959	4 378	10.6%	
Total exports	-	-	-	-	-	21		
Stock changes	97	297	224	-199	366	-105	-128.7%	
Gross inland consumption	3 457	3 710	3 948	3 832	4 325	4 252	-1.7%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	2	1	-		
Poland	1 535	1 915	2 184	2 287	2 192	2 202	0.5%	
CIS	1	-	-	-	-	5		
Australia	-	-	11	34	3	8	166.7%	
South Africa	-	-	-	-	-	5		
Colombia	-	-	-	-	-	-		
<b>Consumption</b>								
Inputs to electricity plants	913	1 414	1 673	1 617	2 136	2 147	0.5%	
Inputs to heat plants	-	-	6	-	-	-		
Consumption of energy branch	7	33	2	-	-	-		
Industry								
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-		
Non-ferrous metals	-	-	-	-	-	-		
Chemical industry	44	54	62	71	68	62	-8.8%	
Non-met. mineral prod.	125	172	152	98	74	11	-85.1%	
Food, drink, tobacco	-	-	-	-	-	-		
Pulp, paper and print	71	87	81	85	66	72	9.1%	
Engineering & metal	-	-	-	-	-	-		
Other industries	-	-	-	-	-	-		
Services & households etc.	103	75	76	60	80	55	-31.3%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-		
Number of active hard coal mines (end of year)	-	-	-	-	-	-		




## 6.2 Coal derivatives and peat

 eurostat	ÖSTERREICH						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	1 608	1 385	1 394	1 395	1 395	1 400	0.4%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	1 138	1 250	1 207	1 413	1 153	236	-79.5%
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	12 220	10 466	9 776	9 579	10 932	10 971	0.4%
Blast-furnace gas	21 873	25 385	25 098	29 309	28 463	29 577	3.9%
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	517	510	414	447	474	459	-3.2%
<i>among which:</i>							
Iron & steel industry	239	256	199	252	281	287	2.1%
Services & households	209	206	190	162	159	128	-19.5%
Patent Fuel	4	4	1	1	2	1	-50.0%
<i>among which:</i>							
Services & households	4	4	1	1	2	1	-50.0%
Lignite and peat	152	148	154	167	170	190	11.8%
<i>among which:</i>							
Industry	94	107	113	133	142	167	17.6%
Services & households	58	41	41	34	28	23	-17.9%
Brown coal briquettes	106	95	79	65	72	58	-19.4%
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	106	95	79	65	72	58	-19.4%
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	4 361	3 371	2 710	3 467	4 873	4 147	-14.9%
Blast-furnace gas	12 117	15 653	15 415	15 921	15 691	14 757	-6.0%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	10 709	10 005	10 257	11 118	9 739	12 007	23.3%
Inputs to heat plants	-	50	-	-	91	63	-30.8%
Consumption of energy branch	6 906	6 772	6 492	7 271	8 348	8 607	3.1%
Consumption in industry	16 478	19 024	18 125	19 388	20 564	18 904	-8.1%


## 7. Renewable energy sources

		ÖSTERREICH						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	6 467	6 500	6 690	6 741	6 369	6 769	6.3%
Hydro (excl. pumping)		3 482	3 598	3 455	3 433	2 827	3 132	10.8%
Wind		4	6	15	17	31	79	152.5%
Solar		58	64	67	69	80	86	7.4%
Geothermal		12	14	14	17	19	19	-0.1%
Biomass		2 910	2 819	3 140	3 204	3 411	3 452	1.2%
	<i>among which:</i>							
Wood, wood-waste		2 723	2 619	2 952	3 032	3 216	3 206	-0.3%
Municipal solid waste		139	149	110	117	138	181	31.0%
Biogas		33	35	59	38	38	45	19.1%
Gross inland consumption		6 418	6 451	6 636	6 725	6 350	6 766	6.6%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		8	9	9	10	13	13	-0.8%
Biomass		683	627	669	784	928	1 022	10.1%
	<i>among which:</i>							
Wood, wood-waste		512	444	503	636	755	803	6.4%
Municipal waste		139	149	110	117	138	181	31.0%
Biogas		33	34	56	31	35	38	7.1%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	2 240	2 211	2 488	2 481	2 549	2 519	-1.2%
	<i>by sector:</i>							
Industry		518	579	646	691	726	610	-16.0%
Services & households etc.		1 715	1 624	1 833	1 782	1 814	1 899	4.7%
Transport		6	8	9	8	10	10	5.4%
	<i>by source:</i>							
Biomass		2 178	2 143	2 417	2 404	2 464	2 428	-1.5%
	<i>among which:</i>							
Wood, wood-waste		2 163	2 126	2 396	2 380	2 443	2 400	-1.7%
Municipal waste		-	-	-	-	-	-	-
Biogas		1	1	4	7	3	8	163.9%
Geothermal		4	5	5	7	6	6	1.1%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		2	3	4	4	11	11	0.0%
Hydro with installed capacity < 1 MW		1 512	1 566	1 521	1 399	955	564	-40.9%
Hydro with installed capacity > 1 & <10 MW		2 739	2 835	2 738	3 233	1 726	3 228	87.0%
Hydro with installed capacity > 10 MW		35 027	37 439	37 574	35 299	30 197	32 631	8.1%
Wood, Wood-waste		1 517	1 482	1 552	1 401	1 582	1 746	10.4%
Municipal waste		78	84	77	79	186	336	80.6%
Biogas		53	102	194	88	70	58	-17.1%

		ÖSTERREICH						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		4	5	7	9	9	9	0.0%
Hydro with installed capacity < 1 MW		282	282	282	111	295	112	-62.0%
Hydro with installed capacity > 1 & <10 MW		561	561	561	650	665	738	11.0%
Hydro with installed capacity > 10 MW		7 237	7 136	7 139	7 147	8 658	10 693	23.5%
Wood, Wood-waste		787	780	766	766	766	766	0.0%
Municipal waste		12	12	12	12	364	364	0.0%
Biogas		-	-	-	-	-	-	-
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	18	20	22	21	23	25	8.7%
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	2 000	2 100	2 200	2 400	2 570	2 750	7.0%


# 1. Energy economy

## Key figures and energy indicators

		POLSKA					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	82 829	78 440	79 370	79 053	78 700	77 946
Net energy imports		9 524	10 131	9 386	10 049	11 945	13 620
Net oil imports		19 334	20 381	19 086	19 578	20 036	20 949
Net gas imports		6 223	6 607	7 178	6 681	7 499	8 119
Gross inland energy consumption		93 742	90 777	90 798	89 396	91 786	92 509
Final energy consumption		58 931	55 720	56 368	54 525	55 799	56 935
Industry		18 450	18 883	17 358	16 570	17 276	17 742
Transport		10 535	9 185	9 169	8 982	10 186	11 316
Services and households etc.		29 946	27 652	29 842	28 974	28 338	27 877
Gross electricity generation	GWh	142 128	145 183	145 615	144 126	151 631	154 159
Final electricity consumption		92 084	96 727	96 856	95 504	98 189	99 805
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	132 782	138 348	139 899	141 857	147 306	155 064
Population	1000 per.	38 667	38 654	38 254	38 242	38 219	38 191
Industry added value	Mio EUR	41 727	43 805	42 942	42 109	44 677	49 219
Total imports (current prices)	Mio EUR	41 680	48 160	45 595	46 804	51 165	58 935
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	706.0	656.2	649.0	630.2	623.1	596.6
Final energy consumption / GDP(95)		443.8	402.8	402.9	384.4	378.8	367.2
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		442.2	431.1	404.2	393.5	386.7	360.5
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		70.4	71.6	78.1	83.0	84.3	78.8
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	2 424	2 348	2 374	2 338	2 402	2 422
Final energy consumption / capita		1 524	1 442	1 474	1 426	1 460	1 491
Household consumption / capita		513	453	502	473	462	456
Final electricity consumption / capita	kWh/cap.	2 381	2 502	2 532	2 497	2 569	2 613
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	10.1	11.1	10.3	11.2	13.0	14.7
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	62.9	61.4	62.1	61.0	60.8	61.5
Efficiency of thermal power stations		47.0	46.8	47.3	47.6	48.1	48.0

## 2. Energy balance

### Principal aggregates by product

 eurostat	POLSKA						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	82 829	78 440	79 370	79 053	78 700	77 946	-1.0%
<i>among which:</i> Hard coal	63 079	58 539	58 823	58 491	57 808	55 881	-3.3%
Lignite and peat	12 455	12 122	12 204	12 124	12 355	12 924	4.6%
Crude oil	436	657	772	728	768	890	15.9%
Natural Gas	3 102	3 313	3 492	3 569	3 611	3 926	8.7%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	185	181	200	196	144	179	24.6%
Biomass	3 572	3 625	3 874	3 933	3 996	4 126	3.2%
<b>Imports</b>							
Total	29 297	30 261	30 622	31 249	31 732	33 472	5.5%
<i>among which:</i> Hard coal	1 609	1 008	1 243	1 755	1 592	1 493	-6.2%
Crude oil and feedstocks	17 097	18 956	18 031	18 088	17 721	17 759	0.2%
Petroleum products	4 023	3 362	3 746	4 282	4 434	5 504	24.1%
Natural Gas	6 256	6 641	7 212	6 715	7 537	8 157	8.2%
Electricity	300	283	370	384	429	457	6.6%
<b>Exports</b>							
Total	19 774	20 130	21 236	21 199	19 786	19 852	0.3%
<i>among which:</i> Crude oil and feedstocks	-	130	443	497	162	139	-14.2%
Petroleum products	1 787	1 808	2 248	2 295	1 958	2 175	11.1%
Natural gas	33	34	34	35	38	38	-0.8%
Electricity	725	831	949	992	1 302	1 256	-3.6%
<b>Gross inland consumption</b>							
Total	93 742	90 777	90 798	89 396	91 786	92 509	0.8%
<i>among which:</i> Solid fuels	60 741	56 358	55 822	54 797	56 234	54 576	-2.9%
Crude oil and petrol. prod.	19 997	20 759	20 631	20 450	20 507	22 046	7.5%
Natural gas	9 263	9 960	10 377	10 113	11 261	11 879	5.5%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	3 753	3 802	4 078	4 142	4 156	4 325	4.1%
<b>Transformation input</b>							
Total	67 823	69 863	69 802	67 682	70 773	71 221	0.6%
<i>among which:</i> Crude oil and feedstocks	18 343	19 949	19 583	18 782	18 494	19 357	4.7%
Petroleum products	447	374	397	369	337	277	-17.9%
Hard coal	34 768	35 280	35 472	34 288	36 889	36 257	-1.7%
Lignite and peat	12 468	12 071	12 107	11 807	12 378	12 283	-0.8%
Renewables	89	93	130	130	156	244	56.1%
<b>Transformation output</b>							
Total	46 519	47 571	48 031	46 266	49 028	49 270	0.5%
<i>among which:</i> Electricity	11 852	12 129	12 157	12 052	12 744	12 926	1.4%
Heat	8 873	8 137	8 843	8 394	8 795	8 261	-6.1%

**Final energy consumption**

Total	58 931	55 720	56 368	54 525	55 799	56 935	2.0%
<i>among which:</i> Solid fuels	16 231	13 728	13 250	12 334	11 532	11 261	-2.3%
Petroleum products	16 155	15 452	15 424	15 080	16 214	17 325	6.9%
Natural Gas	6 212	6 251	6 662	6 757	7 088	7 413	4.6%
Renewables	3 477	3 527	3 746	3 810	3 842	3 890	1.2%
Electricity	7 918	8 317	8 328	8 212	8 443	8 582	1.6%

**Final energy consumption by sector**
**Industry**

Total	18 450	18 883	17 358	16 570	17 276	17 742	2.7%
<i>among which:</i> Solid fuels	7 879	7 614	6 564	6 005	5 623	5 564	-1.0%
Petroleum Products	1 878	1 892	1 762	1 761	1 878	1 866	-0.6%
Natural Gas	2 052	2 269	2 255	2 243	2 409	2 699	12.0%
Renewables	579	625	627	700	729	764	4.8%
Electricity	3 389	3 478	3 355	3 283	3 456	3 648	5.6%


**Transport**

Total	10 535	9 185	9 169	8 982	10 186	11 316	11.1%
<i>among which:</i> Motor spirit	6 004	5 216	4 838	4 432	4 279	4 318	0.9%
Diesel oil	3 410	2 761	2 963	2 845	4 030	4 897	21.5%
Jet fuel	228	369	347	423	287	281	-1.8%
Electricity	380	372	369	371	378	365	-3.5%


**Services&households**

Total	29 946	27 652	29 842	28 974	28 338	27 877	-1.6%
<i>among which:</i> Solid fuels	8 352	6 115	6 686	6 330	5 908	5 697	-3.6%
Gas oil	3 354	3 941	4 025	3 935	3 420	3 537	3.4%
Natural Gas	4 160	3 982	4 406	4 514	4 679	4 714	0.8%
Renewables	2 898	2 902	3 112	3 110	3 078	3 109	1.0%
Electricity	4 149	4 466	4 605	4 558	4 609	4 569	-0.9%
Heat	6 261	5 436	6 158	5 748	5 497	5 261	-4.3%

### 3.1 Electricity balance


 eurostat	POLSKA							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation	142 128	145 183	145 615	144 126	151 631	154 159	1.7%	
<i>among which:</i>								
Hydro	4 282	4 115	4 219	3 906	3 293	3 691	12.1%	
Wind	4	5	14	61	124	142	14.5%	
Geothermal	-	-	-	-	-	-	-	
Nuclear	-	-	-	-	-	-	-	
Conventional thermal	137 842	141 063	141 382	140 159	148 214	150 326	1.4%	
<i>of which:</i>								
Hard coal	78 280	82 419	80 368	79 913	84 720	85 559	1.0%	
Lignite and peat	54 878	53 469	54 603	53 040	55 938	56 050	0.2%	
Petroleum products	1 882	1 916	2 397	2 377	2 456	2 507	2.1%	
Natural gas	687	928	1 358	2 198	2 425	3 144	29.6%	
Derived gases	1 612	1 779	1 890	1 740	1 934	1 885	-2.5%	
Biomass	503	221	444	427	454	850	87.2%	
Industrial wastes	-	331	322	464	287	331	15.3%	
Total net generation	129 498	132 214	132 665	131 374	138 367	140 734	1.7%	
<b>Imports and exports</b>								
Total imports	3 491	3 290	4 306	4 469	4 985	5 312	6.6%	
Total exports	8 426	9 663	11 035	11 537	15 146	14 605	-3.6%	
<b>Consumption and losses</b>								
Consumption of the energy branch	28 410	25 839	25 938	25 527	27 199	29 098	7.0%	
<i>of which:</i>								
Consumption for pumped-storage	838	779	706	622	662	658	-0.6%	
Network losses	14 572	14 234	14 197	14 400	14 460	14 354	-0.7%	
Final energy consumption	92 084	96 727	96 856	95 504	98 189	99 805	1.6%	
<i>of which:</i>								
Industry	39 416	40 453	39 013	38 181	40 189	42 424	5.6%	
<i>among which:</i>								
Iron&steel industry	6 745	7 187	6 261	5 446	6 148	7 210	17.3%	
Non-ferrous metals	3 690	3 652	3 654	3 523	3 511	3 563	1.5%	
Chemical industry	8 069	8 502	8 344	8 057	8 575	8 674	1.2%	
Non-met. mineral prod.	3 286	3 290	3 115	3 047	3 148	3 450	9.6%	
Food, drink, tobacco	3 704	3 755	3 737	3 980	4 259	4 319	1.4%	
Pulp, paper and print	2 644	2 672	2 704	2 773	3 004	2 950	-1.8%	
Engineering & metal	4 989	4 961	4 761	4 705	4 945	5 115	3.4%	
Other industries	3 585	3 722	3 951	4 190	4 172	4 636	11.1%	
Transport	4 417	4 329	4 287	4 313	4 398	4 246	-3.5%	
Services & households etc.	48 251	51 945	53 556	53 010	53 602	53 135	-0.9%	
<i>among which:</i>								
Households	20 800	21 034	21 376	21 659	22 050	22 804	3.4%	

## 3.2 Electrical capacity, fuel inputs and heat

		POLSKA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	30 732	30 559	30 672	30 815	31 407	31 724	1.0%
<i>by source:</i>								
Conventional thermal		28 550	28 372	28 420	28 576	29 099	29 402	1.0%
<i>of which:</i>								
Steam		28 495	28 204	28 252	28 173	28 564	28 673	0.4%
Gas turbine		55	168	168	403	535	729	36.3%
Combined cycle		-	-	-	-	-	-	-
Internal combustion		-	-	-	-	-	-	-
Nuclear		-	-	-	-	-	-	-
Hydro		2 179	2 183	2 233	2 207	2 273	2 282	0.4%
<i>among which:</i>								
Pumped storage		1 366	1 366	1 366	1 366	1 406	1 406	0.0%
Wind		3	4	19	32	35	40	14.3%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		28 761	28 680	28 752	28 922	29 572	29 822	0.8%
Autoproducers		1 971	1 879	1 919	1 893	1 835	1 902	3.7%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	35 833	35 960	36 231	35 612	37 717	37 827	0.3%
<i>among which:</i>								
Hard coal		22 372	22 742	22 813	22 263	23 613	23 536	-0.3%
Lignite and peat		12 434	12 051	12 099	11 799	12 371	12 276	-0.8%
Petroleum products		255	228	220	211	203	204	0.3%
Natural gas		195	299	405	630	787	970	23.2%
Renewables		76	79	114	110	130	208	59.9%
Heating plants		4 900	4 320	4 609	4 152	4 073	3 599	-11.6%
<i>among which:</i>								
Hard coal		4 396	3 862	4 076	3 628	3 559	3 132	-12.0%
Lignite and peat		11	10	8	7	7	7	-3.5%
Petroleum products		187	142	173	155	134	70	-47.9%
Natural gas		193	217	269	294	299	312	4.3%
Renewables		14	14	16	19	26	35	36.6%
<b>Heat production and consumption</b>								
Total heat production	TJ	8 873	8 137	8 843	8 394	8 795	8 261	-6.1%
<i>among which: in heating plants</i>								
		3 887	3 437	3 845	3 484	3 411	3 024	-11.3%
Heat consumption		7 618	6 886	7 556	7 112	7 390	7 166	-3.0%
<i>of which: in industry</i>								
		1 356	1 450	1 398	1 364	1 893	1 905	0.7%
<i>in households and services</i>								
		6 261	5 436	6 158	5 748	5 497	5 261	-4.3%
<i>among which: in households</i>								
		5 613	4 896	5 527	4 968	4 777	4 586	-4.0%



## 4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	POLSKA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		434	653	767	728	765	886	15.8%
Total imports		17 004	18 840	17 907	18 077	17 657	17 679	0.1%
Total exports		-	129	440	497	161	138	-14.3%
Stock changes		-47	-445	227	-295	-592	4	100.7%
Refinery intake		18 239	19 820	19 439	18 758	18 419	19 262	4.6%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		472	-	-	-	-	-	-
Near and Middle East		403	-	-	-	-	-	-
Africa		69	-	-	-	-	-	-
<i>by country of origin:</i>								
Algeria		-	-	-	-	-	-	-
Nigeria		-	-	-	-	-	-	-
Saudi Arabia		-	-	-	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		403	-	-	-	-	-	-
Norway		708	106	-	52	-	132	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

## 4.2 Petroleum products


eurostat	POLSKA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output		17 811	18 480	18 402	17 593	18 044	18 585	3.0%
<i>among which:</i>								
Motor spirit		4 087	4 257	4 246	3 935	3 920	4 002	2.1%
Kerosene and jet fuel		262	428	627	585	656	715	9.0%
Naphtha		705	791	745	882	836	889	6.3%
Gas/diesel oil		6 951	7 154	7 141	6 314	6 722	7 371	9.7%
Residual fuel oil		3 654	3 558	3 424	3 325	3 253	2 754	-15.3%
Total imports		3 854	3 223	3 600	4 108	4 266	5 318	24.7%
Total exports		1 879	1 855	2 272	2 365	2 016	2 212	9.7%
Bunkers		551	292	267	276	291	259	-11.0%
Stock changes		180	-313	-6	72	2	-173	
Gross inland consumption		1 772	945	1 288	1 614	2 026	2 725	34.5%
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands		71	22	5	11	11	13	18.2%
United Kingdom		76	82	49	47	92	98	6.5%
Norway		53	80	35	80	118	35	-70.3%
OPEC		1	-	5	-	-	1	
Imports by product								
<i>among which:</i>								
Motor spirit		1 674	901	861	628	537	602	12.1%
Kerosene and jet fuel		188	191	136	115	1	2	100.0%
Gas/diesel oil		856	695	984	1 460	1 376	2 040	48.3%
Residual fuel oil		32	113	185	127	32	282	781.3%
Exports by product								
<i>among which:</i>								
Motor spirit		-	75	364	386	418	445	6.5%
Kerosene and jet fuel		12	191	392	278	361	455	26.0%
Gas/diesel oil		62	52	166	339	161	240	49.1%
Residual fuel oil		1 566	1 367	1 206	1 017	640	597	-6.7%
<b>Consumption</b>								
Inputs to electricity plants		267	238	230	220	212	213	0.5%
Inputs to heating plants		193	146	178	159	138	71	-48.6%
Non-energy use		2 020	2 439	2 029	2 244	2 194	2 286	4.2%
Final energy consumption		15 673	14 961	14 944	14 569	15 721	16 788	6.8%
Industry								
<i>among which by product:</i>								
Gas/diesel oil		543	516	589	554	568	542	-4.6%
Residual fuel oil		778	662	503	500	482	501	3.9%

eurostat	POLSKA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	54	45	24	8	7	6	-14.3%	
Non-ferrous metals	18	21	19	15	12	15	25.0%	
Chemical industry	883	911	821	810	806	799	-0.9%	
Non-met. mineral prod.	196	146	170	200	334	314	-6.0%	
Food, drink, tobacco	242	252	257	267	268	260	-3.0%	
Pulp, paper and print	54	51	50	50	52	55	5.8%	
Engineering & metal	76	89	82	63	64	56	-12.5%	
Other industries	233	231	202	209	208	227	9.1%	
<b>Transport</b>	9 777	8 480	8 461	8 274	9 410	10 538	12.0%	
<i>among which:</i>								
Motor spirit	5 713	4 963	4 604	4 217	4 072	4 109	0.9%	
Jet fuel	222	359	338	412	279	274	-1.8%	
Diesel oil	3 375	2 733	2 933	2 816	3 989	4 847	21.5%	
<b>Services &amp; households etc.</b>	4 047	4 665	4 797	4 615	4 482	4 438	-1.0%	
<i>among which:</i>								
Gas oil	3 320	3 901	3 984	3 895	3 385	3 501	3.4%	
Residual fuel oil	137	140	131	97	300	153	-49.0%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	998	1 443	1 216	1 511	2 103	2 475	17.7%	
Petroleum products	998	1 311	1 317	1 244	1 268	1 415	11.6%	

## 5. Natural gas

 eurostat	POLSKA							
	in TJ (GCV)	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		144 314	154 138	162 449	166 037	167 997	182 618	8.7%
Total imports		291 046	308 917	335 498	312 390	350 607	379 467	8.2%
Total exports		1 539	1 562	1 573	1 605	1 767	1 753	-0.8%
Stock changes		-2 896	1 832	-13 655	-6 356	7 010	-7 728	-210.2%
Gross inland consumption		430 925	463 325	482 719	470 466	523 847	552 604	5.5%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		273 174	290 428	308 225	276 477	314 283	344 505	9.6%
Algeria		-	-	-	-	-	-	-
Norway		-	681	10 961	19 766	19 555	19 376	-0.9%
<b>Consumption</b>								
Inputs to electricity plants		9 053	13 914	18 859	29 327	36 626	45 111	23.2%
Inputs to heat plants		8 958	10 115	12 521	13 673	13 924	14 519	4.3%
Consumption of energy branch		38 219	46 738	39 478	38 841	38 528	44 983	16.8%
Distribution losses		12 379	15 823	14 078	7 708	10 196	9 422	-7.6%
Non-energy use		70 201	85 355	79 538	60 675	86 969	88 892	2.2%
Industry		95 479	105 541	104 920	104 330	112 079	125 557	12.0%
<i>among which:</i>								
Iron&steel industry		22 999	23 869	19 179	16 280	16 263	21 884	34.6%
Non-ferrous metals		6 289	6 460	6 333	6 210	6 520	7 117	9.2%
Chemical industry		10 046	10 516	9 423	7 999	7 174	8 331	16.1%
Non-met. mineral prod.		26 574	31 085	35 398	36 926	39 538	42 481	7.4%
Food, drink, tobacco		10 283	11 660	12 626	13 878	16 750	17 960	7.2%
Pulp, paper and print		1 119	1 345	1 606	1 623	2 327	2 952	26.9%
Engineering & metal		10 647	11 872	11 487	11 580	12 218	13 250	8.4%
Other industries		4 555	5 352	5 446	6 235	7 808	7 932	1.6%
Transport		-	-	-	-	-	-	-
Services & households etc.		193 520	185 237	204 983	210 009	217 648	219 305	0.8%
<i>among which:</i>								
Households		151 106	141 790	148 597	141 214	141 810	140 418	-1.0%
Services		41 885	42 852	55 523	67 779	74 508	77 574	4.1%


## 6.1 Hard coal


 eurostat	POLSKA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	109 322	102 219	103 280	102 723	101 659	100 517	-1.1%	
Total imports	2 361	1 452	1 878	2 737	2 517	2 328	-7.5%	
Total exports	24 102	23 245	23 029	22 623	20 119	19 684	-2.2%	
Stock changes	557	1 833	1 303	-1 561	96	41	-57.3%	
Gross inland consumption	89 040	83 371	84 144	82 258	85 368	83 915	-1.7%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	
Poland	-	-	-	-	-	-	-	
CIS	-	-	-	-	-	-	-	
Australia	-	-	-	-	-	-	-	
South Africa	-	-	-	-	-	-	-	
Colombia	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants	43 413	44 514	44 242	43 175	45 631	45 841	0.5%	
Inputs to heat plants	8 115	7 164	7 905	7 036	6 878	6 100	-11.3%	
Consumption of energy branch	2 053	1 619	1 581	977	1 157	1 035	-10.5%	
Industry	10 517	9 713	8 292	7 379	6 247	6 220	-0.4%	
<i>among which:</i>								
Iron&steel industry	813	790	546	340	351	453	29.1%	
Non-ferrous metals	133	132	156	108	90	47	-47.8%	
Chemical industry	2 156	2 168	2 076	1 940	1 190	1 236	3.9%	
Non-met. mineral prod.	2 558	2 307	1 761	1 450	1 291	1 392	7.8%	
Food, drink, tobacco	1 977	1 878	1 715	1 784	1 661	1 554	-6.4%	
Pulp, paper and print	748	679	667	611	598	594	-0.7%	
Engineering & metal	789	604	471	380	361	288	-20.2%	
Other industries	630	545	541	480	479	482	0.6%	
Services & households etc.	12 877	9 604	10 820	10 184	9 443	9 422	-0.2%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

eurostat	POLSKA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	8 368	8 972	8 946	8 723	10 112	10 097	-0.1%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	60 839	59 484	59 552	58 210	60 920	61 198	0.5%
Brown coal briquettes	49	21	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	69 988	76 499	76 676	72 856	83 434	81 052	-2.9%
Blast-furnace gas	28 179	37 053	31 904	28 752	31 031	33 836	9.0%
Gasworks gas	338	186	176	161	-	136	
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	4 238	4 213	3 662	3 512	3 673	3 654	-0.5%
<i>among which:</i>							
Iron & steel industry	2 272	2 745	2 400	2 273	2 441	2 604	6.7%
Services & households	1 259	820	684	685	687	528	-23.1%
Patent Fuel	-	2	1	2	1	-	
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	349	295	337	363	394	495	25.6%
<i>among which:</i>							
Industry	70	48	33	33	25	15	-40.0%
Services & households	279	247	304	330	369	480	30.1%
Brown coal briquettes	28	21	2	2	2	2	0.0%
<i>among which:</i>							
Industry	2	2	2	1	2	2	0.0%
Services & households	26	19	-	1	-	-	-
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	18 684	20 046	19 955	17 636	19 035	19 460	2.2%
Blast-furnace gas	24 046	31 896	24 636	19 390	19 524	21 006	7.6%
Gasworks gas	525	181	172	152	-	129	
Inputs to electricity plants	19 884	22 064	22 697	22 161	24 612	24 296	-1.3%
Inputs to heat plants	1 265	1 246	1 257	867	1 139	1 208	6.1%
Consumption of energy branch	34 029	37 123	39 078	40 436	46 429	47 039	1.3%
Consumption in industry	43 068	51 942	44 591	37 026	38 559	40 466	4.9%

## 7. Renewable energy sources


		POLSKA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	3 757	3 809	4 078	4 141	4 158	4 325	4.0%
Hydro (excl. pumping)		185	181	200	196	144	179	24.6%
Wind		0	0	1	5	11	12	14.5%
Solar		-	-	-	-	-	-	-
Geothermal		-	3	3	6	7	8	2.3%
Biomass		3 572	3 625	3 874	3 933	3 996	4 126	3.2%
<i>among which:</i>								
Wood, wood-waste		3 546	3 594	3 831	3 901	3 921	4 062	3.6%
Municipal solid waste		0	2	1	0	1	1	-7.1%
Biogas		25	29	35	32	39	47	20.0%
Gross inland consumption		3 753	3 802	4 078	4 142	4 156	4 325	4.1%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		89	93	130	130	156	244	56.1%
<i>among which:</i>								
Wood, wood-waste		81	83	117	115	139	213	53.6%
Municipal waste		-	-	-	-	-	-	-
Biogas		8	11	13	15	18	31	76.2%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	3 477	3 527	3 746	3 810	3 842	3 890	1.2%
<i>by sector:</i>								
Industry		579	625	627	700	729	764	4.8%
Services & households etc.		2 898	2 902	3 112	3 110	3 078	3 109	1.0%
Transport		-	-	7	-	36	17	-52.3%
<i>by source:</i>								
Biomass		3 477	3 524	3 743	3 804	3 835	3 882	1.2%
<i>among which:</i>								
Wood, wood-waste		3 461	3 504	3 714	3 787	3 780	3 849	1.8%
Municipal waste		0	2	1	0	1	-	-
Biogas		16	18	22	17	18	16	-14.0%
Geothermal		-	3	3	6	7	8	2.3%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		208	298	239	262	243	273	12.3%
Hydro with installed capacity > 1 & <10 MW		500	422	532	585	431	617	43.2%
Hydro with installed capacity > 10 MW		1 446	1 386	1 554	1 432	998	1 191	19.3%
Wood, Wood-waste		169	190	402	379	398	768	93.0%
Municipal waste		-	-	-	-	-	-	-
Biogas		:	31	42	48	56	82	46.4%

	POLSKA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	64	57	76	60	63	77	22.2%
Hydro with installed capacity > 1 & <10 MW	93	98	106	150	164	184	12.2%
Hydro with installed capacity > 10 MW	656	662	686	630	680	715	5.1%
Wood, Wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	7	9	12	14	18	22	22.2%
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	9	-	44	21	-52.3%
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	-	-	-	-	-	-	-




# 1. Energy economy

## Key figures and energy indicators

		PORTUGAL					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	2 656	3 109	3 895	3 643	4 336	3 894
Net energy imports		22 083	21 588	21 538	22 252	22 087	22 423
Net oil imports		16 467	15 556	16 298	15 888	15 931	15 350
Net gas imports		1 953	2 039	2 252	2 727	2 643	3 305
Gross inland energy consumption		23 892	24 108	24 760	25 966	25 367	26 172
Final energy consumption		15 982	16 937	18 069	18 342	18 333	20 122
Industry		5 263	5 518	6 311	5 812	5 845	7 208
Transport		6 043	6 517	6 548	7 126	7 086	7 277
Services and households etc.		4 676	4 903	5 210	5 404	5 402	5 636
Gross electricity generation	GWh	43 274	43 764	46 509	46 107	46 852	45 105
Final electricity consumption		36 120	38 373	39 937	41 473	43 164	44 668
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	102 320	106 335	108 479	109 307	108 083	109 252
Population	1000 per.	10 149	10 195	10 257	10 329	10 408	10 475
Industry added value	Mio EUR	25 858	26 814	27 357	26 990	26 262	26 379
Total imports (current prices)	Mio EUR	43 640	45 951	46 358	46 038	45 835	48 971
among which:							
All energy commodities		2 535	4 439	4 270	4 084	4 221	4 941
Oil products		2 024	3 557	3 367	3 177	3 251	3 829
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	233.5	226.7	228.2	237.6	234.7	239.6
Final energy consumption / GDP(95)		156.2	159.3	166.6	167.8	169.6	184.2
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		203.5	205.8	230.7	215.3	222.6	273.3
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		21.5	22.8	29.5	28.1	28.7	31.3
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	2 354	2 365	2 414	2 514	2 437	2 499
Final energy consumption / capita		1 575	1 661	1 762	1 776	1 762	1 921
Household consumption / capita		274	275	279	302	299	289
Final electricity consumption / capita	kWh/cap.	3 559	3 764	3 894	4 015	4 147	4 264
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	90.2	87.2	85.4	84.1	85.1	83.6
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	66.9	70.3	73.0	70.6	72.3	76.9
Efficiency of thermal power stations		43.7	44.2	45.9	45.1	45.3	46.1

## 2. Energy balance

### Principal aggregates by product

 eurostat	PORTUGAL						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	2 656	3 109	3 895	3 643	4 336	3 894	-10.2%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	625	974	1 207	671	1 352	849	-37.2%
Biomass	1 933	2 053	2 583	2 838	2 842	2 877	1.2%
<b>Imports</b>							
Total	23 912	23 371	23 194	23 909	24 028	24 595	2.4%
<i>among which:</i> Hard coal	3 790	3 968	2 967	3 461	3 263	3 204	-1.8%
Crude oil and feedstocks	13 754	12 022	13 089	11 948	13 325	13 266	-0.4%
Petroleum products	4 102	4 938	4 564	5 302	4 280	4 074	-4.8%
Natural Gas	1 953	2 039	2 252	2 727	2 643	3 305	25.0%
Electricity	312	404	322	458	507	740	46.0%
<b>Exports</b>							
Total	1 830	1 783	1 656	1 657	1 942	2 173	11.9%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	1 389	1 404	1 355	1 362	1 675	1 990	18.8%
Natural gas	-	-	-	-	-	-	-
Electricity	386	324	301	295	267	183	-31.3%
<b>Gross inland consumption</b>							
Total	23 892	24 108	24 760	25 966	25 367	26 172	3.2%
<i>among which:</i> Solid fuels	3 790	3 803	3 192	3 476	3 281	3 372	2.8%
Crude oil and petrol. prod.	15 574	15 083	15 396	15 955	14 874	15 038	1.1%
Natural gas	1 945	2 034	2 255	2 729	2 636	3 303	25.3%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	2 656	3 109	3 895	3 643	4 336	3 894	-10.2%
<b>Transformation input</b>							
Total	21 209	19 207	19 425	20 119	19 569	20 372	4.1%
<i>among which:</i> Crude oil and feedstocks	13 546	12 251	13 013	12 522	13 317	13 438	0.9%
Petroleum products	2 234	1 670	1 919	2 324	1 256	1 239	-1.3%
Hard coal	3 594	3 543	3 025	3 298	3 138	3 227	2.8%
Lignite and peat	-	-	-	-	-	-	-
Renewables	312	405	243	457	450	473	5.3%
<b>Transformation output</b>							
Total	17 001	15 523	15 970	15 909	16 104	16 571	2.9%
<i>among which:</i> Electricity	3 055	2 741	2 741	3 223	2 606	2 936	12.7%
Heat	86	134	162	200	226	258	14.2%



in 1 000 toe

**PORTUGAL**

**1999 2000 2001 2002 2003 2004 04/03**

**Final energy consumption**

Total	15 982	16 937	18 069	18 342	18 333	20 122	9.8%
<i>among which:</i> Solid fuels	403	465	203	177	143	87	-39.5%
Petroleum products	10 089	10 469	10 797	10 731	10 556	12 156	15.2%
Natural Gas	489	790	1 040	1 183	1 206	1 280	6.1%
Renewables	1 708	1 716	2 424	2 484	2 491	2 502	0.4%
Electricity	3 106	3 299	3 434	3 566	3 711	3 841	3.5%

**Final energy consumption by sector**

**Industry**

Total	5 263	5 518	6 311	5 812	5 845	7 208	23.3%
<i>among which:</i> Solid fuels	403	465	203	177	143	87	-39.5%
Petroleum Products	2 473	2 326	2 475	1 801	1 805	3 143	74.2%
Natural Gas	435	659	831	917	918	946	3.1%
Renewables	540	547	1 255	1 314	1 320	1 321	0.1%
Electricity	1 298	1 372	1 390	1 416	1 446	1 469	1.6%


**Transport**

Total	6 043	6 517	6 548	7 126	7 086	7 277	2.7%
<i>among which:</i> Motor spirit	2 188	2 234	2 100	2 174	2 109	2 027	-3.9%
Diesel oil	3 059	3 439	3 636	4 147	4 129	4 339	5.1%
Jet fuel	740	790	755	742	780	840	7.8%
Electricity	31	31	31	35	37	40	6.7%


**Services&households**

Total	4 676	4 903	5 210	5 404	5 402	5 636	4.3%
<i>among which:</i> Solid fuels	-	-	-	-	-	-	-
Gas oil	808	908	1 091	789	861	825	-4.1%
Natural Gas	54	131	204	259	279	325	16.3%
Renewables	1 168	1 168	1 169	1 171	1 171	1 180	0.8%
Electricity	1 777	1 897	2 014	2 115	2 228	2 332	4.7%
Heat	6	7	9	13	13	16	21.1%


### 3.1 Electricity balance

 eurostat	PORTUGAL							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation	43 274	43 764	46 509	46 107	46 852	45 105	-3.7%	
<i>among which:</i>								
Hydro	7 619	11 715	14 375	8 257	16 054	10 147	-36.8%	
Wind	123	168	256	362	496	816	64.5%	
Geothermal	80	80	105	96	90	84	-6.7%	
Nuclear	-	-	-	-	-	-	-	
Conventional thermal	35 452	31 801	31 773	37 392	30 212	34 058	12.7%	
<i>of which:</i>								
Hard coal	15 046	14 595	13 606	15 212	14 527	14 858	2.3%	
Lignite and peat	-	-	-	-	-	-	-	
Petroleum products	11 009	8 421	9 338	11 407	6 162	5 699	-7.5%	
Natural gas	8 074	7 138	7 212	9 037	7 740	11 689	51.0%	
Derived gases	85	93	16	-	-	-	-	
Biomass	1 238	1 553	1 600	1 734	1 777	1 804	1.5%	
Industrial wastes	-	1	1	2	6	8	33.3%	
Total net generation	41 739	42 215	44 844	44 390	45 375	43 482	-4.2%	
<b>Imports and exports</b>								
Total imports	3 628	4 698	3 741	5 329	5 898	8 612	46.0%	
Total exports	4 488	3 767	3 502	3 430	3 104	2 131	-31.3%	
<b>Consumption and losses</b>								
Consumption of the energy branch	2 302	2 281	2 413	2 574	2 270	2 583	13.8%	
<i>of which:</i>								
Consumption for pumped-storage	146	166	144	213	154	130	-15.6%	
Network losses	3 648	3 649	4 057	3 502	3 881	4 057	4.5%	
Final energy consumption	36 120	38 373	39 937	41 473	43 164	44 668	3.5%	
<i>of which:</i>								
Industry	15 094	15 954	16 161	16 470	16 820	17 086	1.6%	
<i>among which:</i>								
Iron&steel industry	777	818	749	863	1 088	1 186	9.0%	
Non-ferrous metals	113	113	116	117	116	121	4.3%	
Chemical industry	2 135	2 310	2 303	2 331	2 480	2 555	3.0%	
Non-met. mineral prod.	2 213	2 251	2 307	2 350	2 233	2 336	4.6%	
Food, drink, tobacco	1 477	1 564	1 576	1 603	1 644	1 688	2.7%	
Pulp, paper and print	1 965	2 054	2 097	1 995	2 229	2 346	5.2%	
Engineering & metal	1 410	1 508	1 571	1 547	1 613	1 656	2.7%	
Other industries	2 245	2 585	2 740	2 892	2 884	2 814	-2.4%	
Transport	365	360	358	411	435	464	6.7%	
Services & households etc.	20 661	22 059	23 418	24 592	25 909	27 118	4.7%	
<i>among which:</i>								
Households	9 523	10 056	10 625	11 382	11 835	12 432	5.0%	

## 3.2 Electrical capacity, fuel inputs and heat


		PORTUGAL						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	10 750	10 898	10 990	11 239	11 619	12 711	9.4%
<b>by source:</b>								
Conventional thermal		6 156	6 275	6 291	6 448	6 749	7 292	8.0%
<i>of which:</i>								
Steam		4 009	4 071	4 061	4 146	4 129	4 129	0.0%
Gas turbine		329	329	329	329	197	197	0.0%
Combined cycle		990	990	990	990	1 382	1 774	28.4%
Internal combustion		828	885	911	983	1 041	1 192	14.5%
Nuclear		-	-	-	-	-	-	-
Hydro		4 527	4 526	4 560	4 587	4 588	4 852	5.8%
<i>among which:</i>								
Pumped storage		597	597	597	597	597	537	-10.1%
Wind		57	83	125	190	268	553	106.3%
Geothermal		10	14	14	14	14	14	0.0%
Other		-	-	-	-	-	-	-
<b>by producer type:</b>								
Public system		9 787	9 800	9 879	10 020	10 397	11 430	9.9%
Autoproducers		963	1 099	1 112	1 220	1 224	1 283	4.8%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	7 195	6 507	6 324	7 596	6 252	6 934	10.9%
<i>among which:</i>								
Hard coal		3 256	3 198	2 961	3 298	3 138	3 227	2.8%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		2 234	1 670	1 919	2 324	1 256	1 239	-1.3%
Natural gas		1 354	1 171	1 189	1 517	1 409	1 987	41.0%
Renewables		312	405	243	457	450	473	5.3%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	86	134	162	200	226	258	14.2%
<i>among which: in heating plants</i>								
		-	-	-	-	-	-	-
Heat consumption		86	134	162	200	226	258	14.2%
<i>of which: in industry</i>								
		80	127	152	187	213	242	13.8%
<i>in households and services</i>								
		6	7	9	13	13	16	21.1%
<i>among which: in households</i>								
		3	4	4	7	8	9	16.0%

## 4.1 Crude oil and feedstocks

 eurostat	<i>in 1 000 t</i>	PORTUGAL						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		13 807	12 133	13 158	11 861	13 276	13 184	-0.7%
Total exports		-	-	-	-	-	-	-
Stock changes		-346	138	-193	427	-73	-94	-28.8%
Refinery intake		13 594	12 362	13 079	12 430	13 267	13 353	0.6%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		8 325	7 721	7 594	6 519	6 681	7 589	13.6%
Near and Middle East		5 645	4 522	2 788	3 120	2 025	2 429	20.0%
Africa		3 000	3 958	5 112	3 867	5 835	5 292	-9.3%
<i>by country of origin:</i>								
Algeria		-	-	319	555	-	1 763	
Nigeria		2 293	3 277	3 637	2 579	2 988	2 146	-28.2%
Saudi Arabia		1 971	1 954	1 965	1 822	1 694	1 535	-9.4%
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		1 275	868	799	518	640	532	-16.9%
<b>Refining capacity</b>								
Capacity at the end of year	<i>1 000 t/year</i>	14 400	14 400	:	:	:	:	
<i>among which:</i>								
Cracking and others		3 720	3 700	:	:	:	:	
Reforming		2 230	2 200	:	:	:	:	


## 4.2 Petroleum products

eurostat	PORTUGAL							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output		13 482	12 352	13 061	12 393	13 223	13 293	0.5%
<i>among which:</i>								
Motor spirit		2 654	2 296	2 615	2 518	2 732	2 551	-6.6%
Kerosene and jet fuel		965	799	621	513	704	781	10.9%
Naphtha		1 007	996	986	1 084	1 130	1 175	4.0%
Gas/diesel oil		4 279	3 794	4 533	4 827	4 955	4 703	-5.1%
Residual fuel oil		3 141	3 000	2 703	2 358	2 388	2 969	24.3%
Total imports		4 302	5 118	4 839	5 716	4 602	4 396	-4.5%
Total exports		1 389	1 424	1 355	1 373	1 675	1 983	18.4%
Bunkers		599	676	483	493	591	672	13.7%
Stock changes		97	-6	-262	149	-404	436	207.9%
Gross inland consumption		2 411	3 012	2 739	3 999	1 932	2 177	12.7%
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands		486	597	451	411	481	352	-26.8%
United Kingdom		951	650	792	1 050	613	731	19.2%
Norway		36	63	71	112	65	62	-4.6%
OPEC		94	178	564	790	591	325	-45.0%
Imports by product								
<i>among which:</i>								
Motor spirit		14	157	12	63	57	133	133.3%
Kerosene and jet fuel		1	77	156	193	109	59	-45.9%
Gas/diesel oil		268	1 271	943	620	949	841	-11.4%
Residual fuel oil		1 795	1 226	1 313	2 111	1 010	645	-36.1%
Exports by product								
<i>among which:</i>								
Motor spirit		588	397	635	540	782	805	2.9%
Kerosene and jet fuel		221	99	13	-	20	54	170.0%
Gas/diesel oil		78	152	90	6	51	71	39.2%
Residual fuel oil		164	483	195	319	352	476	35.2%
<b>Consumption</b>								
Inputs to electricity plants		2 338	1 747	2 007	2 431	1 313	1 300	-1.0%
Inputs to heating plants		-	-	-	-	-	-	-
Non-energy use		2 354	2 344	1 940	1 968	2 237	976	-56.4%
Final energy consumption		10 001	10 348	10 712	10 660	10 488	12 049	14.9%
Industry								
<i>among which by product:</i>								
Gas/diesel oil		383	431	469	374	367	402	9.5%
Residual fuel oil		1 375	1 266	1 292	770	815	543	-33.4%


 eurostat	PORTUGAL							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		37	36	31	29	29	19	-34.5%
Non-ferrous metals		17	17	14	1	1	10	900.0%
Chemical industry		99	97	437	201	219	1 648	652.5%
Non-met. mineral prod.		1 095	956	999	826	834	844	1.2%
Food, drink, tobacco		250	255	213	209	219	192	-12.3%
Pulp, paper and print		350	325	248	165	182	67	-63.2%
Engineering & metal		39	38	34	38	42	37	-11.9%
Other industries		394	392	389	318	284	315	10.9%
<b>Transport</b>		5 853	6 319	6 352	6 915	6 873	7 062	2.7%
<i>among which:</i>								
Motor spirit		2 082	2 126	1 998	2 069	2 007	1 929	-3.9%
Jet fuel		721	769	735	722	759	818	7.8%
Diesel oil		3 028	3 404	3 599	4 105	4 087	4 295	5.1%
<b>Services &amp; households etc.</b>		1 526	1 582	1 734	1 768	1 626	1 704	4.8%
<i>among which:</i>								
Gas oil		800	899	1 080	781	852	817	-4.1%
Residual fuel oil		-	-	-	190	-	110	
<b>Stocks at end of period</b>								
Crude oil and feedstocks		1 199	1 061	1 255	828	838	932	11.2%
Petroleum products		1 899	1 903	2 202	2 059	2 463	2 027	-17.7%




## 5. Natural gas

 eurostat	PORTUGAL							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		90 866	94 864	104 769	126 847	122 968	153 733	25.0%
Total exports		-	-	-	-	-	-	-
Stock changes		-362	-251	137	122	-328	-57	82.6%
Gross inland consumption		90 504	94 613	104 906	126 969	122 640	153 676	25.3%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		90 866	82 351	93 143	109 956	100 816	97 138	-3.6%
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		62 969	54 482	55 325	70 586	65 545	92 439	41.0%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		-	-	-	-	-	784	-
Distribution losses		120	120	57	1 337	968	936	-3.3%
Non-energy use		-	-	-	-	-	-	-
Industry		20 239	30 648	38 653	42 652	42 709	44 020	3.1%
<i>among which:</i>								
Iron&steel industry		908	976	1 050	1 301	1 585	1 590	0.3%
Non-ferrous metals		40	438	263	307	309	341	10.4%
Chemical industry		1 365	2 174	2 730	2 948	3 207	2 841	-11.4%
Non-met. mineral prod.		14 844	20 144	23 553	24 804	22 825	23 567	3.3%
Food, drink, tobacco		880	1 246	2 055	2 389	3 067	3 083	0.5%
Pulp, paper and print		343	308	803	1 175	1 667	1 351	-19.0%
Engineering & metal		768	1 337	1 663	1 881	2 059	2 238	8.7%
Other industries		187	373	741	1 040	1 364	1 600	17.3%
Transport		-	51	207	320	413	410	-0.7%
Services & households etc.		2 524	6 073	9 507	12 068	12 982	15 103	16.3%
<i>among which:</i>								
Households		1 681	3 404	5 448	6 816	7 351	8 432	14.7%
Services		580	2 663	3 967	5 109	5 472	6 517	19.1%


## 6.1 Hard coal


 eurostat	PORTUGAL							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	6 080	6 367	4 807	5 667	5 344	5 247	-1.8%	
Total exports	-	-	-	-	-	-	-	
Stock changes	46	-213	338	1	18	267	1383.3%	
Gross inland consumption	6 126	6 154	5 145	5 668	5 362	5 514	2.8%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	782	541	529	114	354	467	31.9%	
Poland	-	-	-	335	-	-	-	
CIS	55	90	28	-	-	-	-	
Australia	739	-	399	838	668	129	-80.7%	
South Africa	1 570	2 426	1 462	2 120	2 079	1 369	-34.2%	
Colombia	2 522	2 846	1 815	1 583	1 945	2 817	44.8%	
<b>Consumption</b>								
Inputs to electricity plants	5 263	5 171	4 788	5 401	5 139	5 285	2.8%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry	380	484	265	267	215	131	-39.1%	
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	-	-	-	-	12	13	8.3%	
Non-met. mineral prod.	380	484	265	267	203	118	-41.9%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	-	-	-	-	-	-	-	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	:	
Number of active hard coal mines (end of year)	-	-	-	-	-	:	:	

## 6.2 Coal derivatives and peat

 eurostat	PORTUGAL						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	363	371	67	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	2 803	2 930	548	-	-	-	-
Blast-furnace gas	1 788	1 926	435	-	-	-	-
Gasworks gas	3 468	2 073	219	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	257	257	64	21	10	8	-20.0%
<i>among which:</i>							
Iron & steel industry	171	179	41	-	-	-	-
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	-	-	-	-	-	-	-
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	501	503	75	-	-	-	-
Blast-furnace gas	936	390	134	-	-	-	-
Gasworks gas	3 145	1 990	211	-	-	-	-
Inputs to electricity plants	1 755	2 779	557	-	-	-	-
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	1 197	1 130	209	-	-	-	-
Consumption in industry	1 498	937	213	-	-	-	-


## 7. Renewable energy sources

		PORTUGAL						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	2 656	3 109	3 895	3 643	4 336	3 894	-10.2%
Hydro (excl. pumping)		625	974	1 207	671	1 352	849	-37.2%
Wind		11	14	22	31	43	70	64.5%
Solar		18	18	19	20	21	21	3.0%
Geothermal		70	49	64	84	78	78	-1.1%
Biomass		1 933	2 053	2 583	2 838	2 842	2 877	1.2%
	<i>among which:</i>							
Wood, wood-waste		1 875	1 878	2 582	2 655	2 652	2 683	1.2%
Municipal solid waste		57	174	175	182	189	189	-0.1%
Biogas		1	1	1	1	1	4	434.3%
Gross inland consumption		2 656	3 109	3 895	3 643	4 336	3 894	-10.2%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		70	49	64	83	77	77	-1.1%
Biomass		242	356	178	374	372	397	6.6%
	<i>among which:</i>							
Wood, wood-waste		184	180	177	191	182	203	11.6%
Municipal waste		57	174	175	182	189	189	-0.1%
Biogas		1	1	1	1	1	4	434.3%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	1 708	1 716	2 424	2 484	2 491	2 502	0.4%
	<i>by sector:</i>							
Industry		540	547	1 255	1 314	1 320	1 321	0.1%
Services & households etc.		1 168	1 168	1 169	1 171	1 171	1 180	0.8%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		1 690	1 697	2 405	2 464	2 470	2 480	0.4%
	<i>among which:</i>							
Wood, wood-waste		1 690	1 697	2 405	2 464	2 470	2 480	0.4%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		-	-	-	1	1	1	0.0%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		1	1	1	2	3	3	0.0%
Hydro with installed capacity < 1 MW		58	73	71	66	84	74	-11.9%
Hydro with installed capacity > 1 & <10 MW		531	805	911	851	1 078	677	-37.2%
Hydro with installed capacity > 10 MW		6 697	10 445	13 052	6 883	14 561	9 118	-37.4%
Wood, Wood-waste		1 080	1 037	1 086	1 208	1 223	1 264	3.4%
Municipal waste		157	514	511	523	551	526	-4.5%
Biogas		1	2	3	3	3	15	400.0%

		PORTUGAL						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		1	1	1	2	2	2	0.0%
Hydro with installed capacity < 1 MW		22	27	27	28	30	29	-3.3%
Hydro with installed capacity > 1 & <10 MW		235	280	290	316	315	309	-1.9%
Hydro with installed capacity > 10 MW		3 474	3 622	3 646	3 646	3 646	3 977	9.1%
Wood, Wood-waste		233	219	214	233	224	224	0.0%
Municipal waste		81	64	64	71	71	71	0.0%
Biogas		1	1	1	1	1	6	500.0%
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	230	238	246	254	261	269	3.1%


# 1. Energy economy

## Key figures and energy indicators

		SLOVENIJA					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	2 861	3 084	3 147	3 365	3 246	3 436
Net energy imports		3 554	3 253	3 494	3 507	3 761	3 646
Net oil imports		2 525	2 302	2 536	2 482	2 541	2 483
Net gas imports		849	820	845	815	902	894
Gross inland energy consumption		6 423	6 457	7 007	7 092	7 157	7 193
Final energy consumption		4 354	4 451	4 564	4 625	4 705	4 787
Industry		1 210	1 438	1 309	1 264	1 536	1 532
Transport		1 313	1 313	1 372	1 390	1 336	1 379
Services and households etc.		1 831	1 700	1 883	1 971	1 833	1 876
Gross electricity generation	GWh	13 262	13 624	14 466	14 690	13 820	15 271
Final electricity consumption		10 361	10 521	10 942	11 781	12 047	12 589
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	18 489	19 247	19 759	20 441	20 983	21 857
Population	1000 per.	1 978	1 988	1 990	1 994	1 995	1 996
Industry added value	Mio EUR	5 622	6 022	6 241	6 497	6 727	6 971
Total imports (current prices)	Mio EUR	11 040	11 845	12 202	12 785	13 643	15 448
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	347.4	335.5	354.6	347.0	341.1	329.1
Final energy consumption / GDP(95)		235.5	231.3	231.0	226.3	224.2	219.0
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		215.1	238.8	209.8	194.5	228.4	219.8
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		78.3	58.4	75.0	74.7	54.4	57.0
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 247	3 248	3 521	3 557	3 588	3 603
Final energy consumption / capita		2 201	2 239	2 293	2 319	2 359	2 398
Household consumption / capita		555	563	561	598	625	619
Final electricity consumption / capita	kWh/cap.	5 237	5 293	5 498	5 908	6 039	6 306
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	55.3	50.4	49.9	49.4	52.5	50.7
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	67.8	68.9	65.1	65.2	65.7	66.5
Efficiency of thermal power stations		44.3	43.8	41.6	41.2	43.2	43.4

## 2. Energy balance

### Principal aggregates by product

 eurostat	SLOVENIJA						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	2 861	3 084	3 147	3 365	3 246	3 436	5.8%
<i>among which:</i> Hard coal	3	-	-	-	-	-	-
Lignite and peat	1 087	1 062	1 008	1 175	1 184	1 201	1.4%
Crude oil	1	1	1	1	1	1	0.0%
Natural Gas	5	6	5	5	4	4	1.0%
Nuclear heat	1 211	1 228	1 356	1 426	1 343	1 408	4.8%
Hydro-electricity	322	330	326	293	254	352	38.5%
Biomass	233	458	450	465	460	470	2.2%
<b>Imports</b>							
Total	4 036	4 046	4 129	4 126	4 433	4 466	0.8%
<i>among which:</i> Hard coal	262	195	223	266	269	317	18.0%
Crude oil and feedstocks	295	118	168	155	153	-	-
Petroleum products	2 546	2 499	2 579	2 523	2 554	2 669	4.5%
Natural Gas	849	820	845	815	902	894	-0.9%
Electricity	51	364	271	326	514	543	5.7%
<b>Exports</b>							
Total	482	793	635	620	672	820	22.2%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	315	315	211	196	166	186	11.7%
Natural gas	-	-	-	-	-	-	-
Electricity	166	477	424	424	500	610	22.1%
<b>Gross inland consumption</b>							
Total	6 423	6 457	7 007	7 092	7 157	7 193	0.5%
<i>among which:</i> Solid fuels	1 310	1 306	1 431	1 568	1 490	1 536	3.1%
Crude oil and petrol. prod.	2 608	2 423	2 745	2 619	2 681	2 585	-3.6%
Natural gas	854	826	850	820	907	899	-0.9%
Nuclear Energy	1 211	1 228	1 356	1 426	1 343	1 408	4.8%
Renewables	554	788	776	757	714	822	15.1%
<b>Transformation input</b>							
Total	2 867	2 943	2 922	3 067	2 918	2 994	2.6%
<i>among which:</i> Crude oil and feedstocks	298	289	1	1	1	1	0.0%
Petroleum products	23	16	36	17	16	14	-12.5%
Hard coal	167	162	181	208	207	214	3.4%
Lignite and peat	1 043	1 091	1 193	1 255	1 167	1 191	2.0%
Renewables	11	23	25	33	36	40	9.6%
<b>Transformation output</b>							
Total	1 319	1 356	1 142	1 184	1 164	1 194	2.6%
<i>among which:</i> Electricity	819	842	917	970	934	961	2.9%
Heat	212	225	223	212	228	232	1.6%

**Final energy consumption**

Total	4 354	4 451	4 564	4 625	4 705	4 787	1.7%
<i>among which:</i> Solid fuels	88	97	86	103	86	78	-9.9%
Petroleum products	2 341	2 251	2 314	2 303	2 333	2 326	-0.3%
Natural Gas	617	569	600	590	633	666	5.2%
Renewables	223	435	425	431	423	430	1.6%
Electricity	891	905	941	1 013	1 036	1 082	4.5%

**Final energy consumption by sector**
**Industry**

Total	1 210	1 438	1 309	1 264	1 536	1 532	-0.3%
<i>among which:</i> Solid fuels	69	86	85	97	82	77	-5.9%
Petroleum Products	181	284	214	165	228	197	-13.8%
Natural Gas	474	492	458	431	499	511	2.3%
Renewables	19	75	64	70	97	104	6.5%
Electricity	440	475	489	501	566	581	2.5%

**Transport**


Total	1 313	1 313	1 372	1 390	1 336	1 379	3.2%
<i>among which:</i> Motor spirit	814	849	840	807	783	697	-11.0%
Diesel oil	464	417	484	541	511	647	26.5%
Jet fuel	21	24	27	28	27	20	-26.9%
Electricity	14	23	22	15	15	16	6.1%

**Services&households**


Total	1 831	1 700	1 883	1 971	1 833	1 876	2.3%
<i>among which:</i> Solid fuels	19	11	1	6	4	0	-89.7%
Gas oil	763	578	642	654	700	692	-1.2%
Natural Gas	142	77	142	159	134	155	16.0%
Renewables	204	360	361	361	326	326	0.1%
Electricity	437	406	430	497	454	485	6.9%
Heat	168	169	197	185	131	142	7.9%




### 3.1 Electricity balance

 eurostat	SLOVENIJA						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	13 262	13 624	14 466	14 690	13 820	15 271	10.5%
<i>among which:</i>							
Hydro	3 741	3 834	3 796	3 404	2 957	4 094	38.5%
Wind	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
Nuclear	4 696	4 761	5 257	5 528	5 207	5 459	4.8%
Conventional thermal	4 825	5 029	5 413	5 758	5 656	5 718	1.1%
<i>of which:</i>							
Hard coal	1 019	307	352	494	508	525	3.3%
Lignite and peat	3 461	4 304	4 567	4 808	4 600	4 666	1.4%
Petroleum products	142	55	126	66	50	43	-14.0%
Natural gas	172	293	296	288	370	358	-3.2%
Derived gases	-	-	-	-	-	-	-
Biomass	31	70	69	102	122	121	-0.8%
Industrial wastes	-	-	3	-	6	5	-16.7%
Total net generation	12 457	12 795	13 591	13 783	12 895	14 306	10.9%
<b>Imports and exports</b>							
Total imports	596	4 232	3 154	3 794	5 975	6 314	5.7%
Total exports	1 934	5 553	4 926	4 928	5 811	7 094	22.1%
<b>Consumption and losses</b>							
Consumption of the energy branch	894	971	1 023	1 040	1 081	1 052	-2.7%
<i>of which:</i>							
Consumption for pumped-storage	-	-	-	-	-	-	-
Network losses	669	811	729	735	856	850	-0.7%
Final energy consumption	10 361	10 521	10 942	11 781	12 047	12 589	4.5%
<i>of which:</i>							
Industry	5 121	5 529	5 685	5 827	6 588	6 755	2.5%
<i>among which:</i>							
Iron&steel industry	778	873	929	860	644	657	2.0%
Non-ferrous metals	1 158	1 186	1 182	1 494	1 757	1 798	2.3%
Chemical industry	405	418	430	479	897	903	0.7%
Non-met. mineral prod.	448	445	457	412	470	443	-5.7%
Food, drink, tobacco	252	258	264	254	300	284	-5.3%
Pulp, paper and print	557	670	679	669	684	734	7.3%
Engineering & metal	735	777	775	764	889	945	6.3%
Other industries	482	579	629	603	626	683	9.1%
Transport	160	265	255	172	179	190	6.1%
Services & households etc.	5 080	4 727	5 002	5 782	5 280	5 644	6.9%
<i>among which:</i>							
Households	2 386	2 601	2 675	2 704	3 008	3 012	0.1%

## 3.2 Electrical capacity, fuel inputs and heat


		SLOVENIJA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	2 549	2 631	2 899	2 953	2 970	2 965	-0.2%
<i>by source:</i>								
Conventional thermal		1 097	1 115	1 337	1 338	1 340	1 335	-0.4%
<i>of which:</i>								
Steam		1 003	1 085	1 003	1 027	1 001	997	-0.4%
Gas turbine		10	17	319	298	319	318	-0.3%
Combined cycle		-	-	-	-	-	-	-
Internal combustion		-	-	-	-	-	-	-
Nuclear		664	656	656	656	656	656	0.0%
Hydro		788	860	906	959	974	974	0.0%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		2 465	2 428	2 691	2 757	2 784	2 782	-0.1%
Autoproducers		111	186	208	196	186	183	-1.6%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	1 301	1 342	1 486	1 560	1 488	1 505	1.2%
<i>among which:</i>								
Hard coal		167	162	181	208	207	214	3.4%
Lignite and peat		1 043	1 091	1 193	1 255	1 167	1 191	2.0%
Petroleum products		20	12	32	14	11	9	-18.4%
Natural gas		63	62	64	59	75	63	-16.1%
Renewables		8	15	16	25	27	29	5.0%
Heating plants		57	83	79	79	86	79	-7.3%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		3	4	4	3	5	5	0.0%
Natural gas		51	71	67	68	72	63	-11.6%
Renewables		3	8	8	8	9	11	24.0%
<b>Heat production and consumption</b>								
Total heat production	TJ	212	225	223	212	228	232	1.6%
<i>among which: in heating plants</i>								
		50	71	71	65	72	71	-1.3%
Heat consumption		194	195	197	185	189	195	3.0%
<i>of which: in industry</i>								
		26	26	-	-	58	53	-8.2%
<i>in households and services</i>								
		168	169	197	185	131	142	7.9%
<i>among which: in households</i>								
		157	94	104	97	100	107	6.6%

## 4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	SLOVENIJA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		291	153	-	-	-	-	-
Total exports		-	-	-	-	-	-	-
Stock changes		22	17	-	-	-	-	-
Refinery intake		294	327	-	-	-	-	-
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		-	42	-	-	-	-	-
Near and Middle East		-	-	-	-	-	-	-
Africa		-	42	-	-	-	-	-
<i>by country of origin:</i>								
Algeria		-	42	-	-	-	-	-
Nigeria		-	-	-	-	-	-	-
Saudi Arabia		-	-	-	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

## 4.2 Petroleum products


eurostat	SLOVENIJA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output		284	327	-	-	-	-	-
<i>among which:</i>								
Motor spirit		42	35	-	-	-	-	-
Kerosene and jet fuel		1	-	-	-	-	-	-
Naphtha		68	34	-	-	-	-	-
Gas/diesel oil		99	56	-	-	-	-	-
Residual fuel oil		65	42	-	-	-	-	-
Total imports		2 504	2 448	2 528	2 471	2 509	2 647	5.5%
Total exports		307	336	224	218	191	208	8.9%
Bunkers		-	-	-	-	-	-	-
Stock changes		62	-49	46	-17	-32	-33	-3.1%
Gross inland consumption		2 259	2 063	2 350	2 236	2 286	2 406	5.2%
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands		-	-	1	1	1	3	130.8%
United Kingdom		-	-	-	-	-	26	
Norway		-	-	-	-	-	-	-
OPEC		-	-	-	-	-	-	-
Imports by product								
<i>among which:</i>								
Motor spirit		782	868	807	779	783	719	-8.2%
Kerosene and jet fuel		20	23	30	35	30	23	-23.3%
Gas/diesel oil		1 372	1 257	1 369	1 377	1 394	1 520	9.0%
Residual fuel oil		96	88	110	82	63	52	-17.5%
Exports by product								
<i>among which:</i>								
Motor spirit		65	70	30	18	27	30	11.1%
Kerosene and jet fuel		-	-	1	6	2	1	-50.0%
Gas/diesel oil		163	129	120	87	55	81	47.3%
Residual fuel oil		1	3	1	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		21	12	32	14	11	9	-18.2%
Inputs to heating plants		3	4	4	3	5	5	0.0%
Non-energy use		119	134	205	113	126	246	95.2%
Final energy consumption		2 292	2 193	2 256	2 254	2 291	2 281	-0.4%
Industry								
<i>among which by product:</i>								
Gas/diesel oil		42	162	120	80	109	100	-8.3%
Residual fuel oil		116	110	83	51	53	47	-11.3%

 eurostat	SLOVENIJA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		1	1	-	-	1	1	0.0%
Non-ferrous metals		30	5	5	4	5	5	0.0%
Chemical industry		7	7	6	5	16	11	-31.3%
Non-met. mineral prod.		38	57	55	22	49	52	6.1%
Food, drink, tobacco		35	33	35	32	32	33	3.1%
Pulp, paper and print		26	3	1	1	13	13	0.0%
Engineering & metal		20	29	21	17	32	26	-18.8%
Other industries		20	122	68	45	43	49	14.0%
<b>Transport</b>		1 254	1 244	1 304	1 330	1 277	1 322	3.5%
<i>among which:</i>								
Motor spirit		775	808	799	768	745	663	-11.0%
Jet fuel		20	23	26	27	26	19	-26.9%
Diesel oil		459	413	479	535	506	640	26.5%
<b>Services &amp; households etc.</b>		847	663	737	749	769	753	-2.1%
<i>among which:</i>								
Gas oil		755	572	635	647	693	685	-1.2%
Residual fuel oil		15	7	19	21	-	-	-
<b>Stocks at end of period</b>								
Crude oil and feedstocks		17	-	-	2	7	-	
Petroleum products		96	143	100	116	147	190	29.3%

## 5. Natural gas

 eurostat	SLOVENIJA							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		227	281	240	240	199	201	1.0%
Total imports		39 489	38 125	39 299	37 898	41 982	41 608	-0.9%
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-	-	-
Gross inland consumption		39 716	38 406	39 539	38 138	42 181	41 809	-0.9%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		2 928	2 895	2 984	2 743	3 476	2 917	-16.1%
Inputs to heat plants		2 358	3 314	3 111	3 163	3 339	2 951	-11.6%
Consumption of energy branch		19	281	240	240	199	201	1.0%
Distribution losses		-	-	-	-	-	-	-
Non-energy use		5 719	5 452	5 300	4 543	5 729	4 762	-16.9%
Industry		22 065	22 867	21 288	20 032	23 214	23 759	2.3%
<i>among which:</i>								
Iron&steel industry		2 930	2 991	3 058	2 724	3 067	3 235	5.5%
Non-ferrous metals		541	568	646	610	790	838	6.1%
Chemical industry		2 966	3 029	2 670	2 454	2 813	3 143	11.7%
Non-met. mineral prod.		4 712	4 846	4 416	3 842	3 935	4 224	7.3%
Food, drink, tobacco		1 607	1 628	1 540	1 480	2 445	1 407	-42.5%
Pulp, paper and print		3 617	3 710	2 974	3 694	4 422	4 841	9.5%
Engineering & metal		2 180	2 233	2 083	2 122	2 516	2 928	16.4%
Other industries		1 521	1 817	1 995	1 664	1 581	1 609	1.8%
Transport		-	-	-	-	-	-	-
Services & households etc.		6 627	3 597	6 616	7 417	6 224	7 219	16.0%
<i>among which:</i>								
Households		3 149	2 726	2 878	3 180	4 013	4 560	13.6%
Services		3 478	871	3 738	4 237	2 211	2 659	20.3%

## 6.1 Hard coal


 eurostat	SLOVENIJA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	6	-	-	-	-	-	-	-
Total imports	596	448	447	572	568	629	10.7%	
Total exports	1	-	-	-	11	49	345.5%	
Stock changes	-124	-2	38	-	42	14	-66.7%	
Gross inland consumption	477	446	485	572	599	594	-0.8%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
CIS	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants	381	362	402	463	477	478	0.2%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	0	-	-	-	-	-	-	
Industry	73	75	80	106	108	102	-5.6%	
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	
Non-ferrous metals	1	-	-	-	-	-	-	
Chemical industry	-	-	-	11	-	-	-	
Non-met. mineral prod.	10	-	-	22	41	32	-22.0%	
Food, drink, tobacco	0	-	-	-	-	-	-	
Pulp, paper and print	62	64	65	69	65	70	7.7%	
Engineering & metal	0	3	5	-	-	-	-	
Other industries	0	7	11	2	2	-	-	
Services & households etc.	22	8	2	3	1	1	0.0%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	


## 6.2 Coal derivatives and peat

eurostat	SLOVENIJA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	4 556	4 480	4 133	4 686	4 830	4 809	-0.4%
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	47	72	60	53	34	32	-5.9%
<i>among which:</i>							
Iron & steel industry	25	38	4	5	6	-	-
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	46	37	8	22	15	-	-
<i>among which:</i>							
Industry	5	7	6	2	-	-	-
Services & households	41	30	2	20	15	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
<b>Total derived gases</b>	<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

		SLOVENIJA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	554	788	776	757	714	822	15.1%
Hydro (excl. pumping)		322	330	326	293	254	352	38.5%
Wind		-	-	-	-	-	-	-
Solar		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Biomass		233	458	450	465	460	470	2.2%
	<i>among which:</i>							
Wood, wood-waste		229	454	446	460	454	463	2.1%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		4	4	4	5	6	7	15.8%
Gross inland consumption		554	788	776	757	714	822	15.1%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		11	23	25	33	36	40	9.6%
	<i>among which:</i>							
Wood, wood-waste		8	20	21	30	32	35	9.5%
Municipal waste		-	-	-	-	-	-	-
Biogas		3	3	3	4	5	5	10.4%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	223	435	425	431	423	430	1.6%
	<i>by sector:</i>							
Industry		19	75	64	70	97	104	6.5%
Services & households etc.		204	360	361	361	326	326	0.1%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		223	435	425	431	423	430	1.6%
	<i>among which:</i>							
Wood, wood-waste		222	434	424	430	422	428	1.5%
Municipal waste		-	-	-	-	-	-	-
Biogas		1	1	1	1	1	2	38.3%
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		53	169	197	256	141	238	68.8%
Hydro with installed capacity > 1 & <10 MW		90	171	174	161	126	199	57.9%
Hydro with installed capacity > 10 MW		3 598	3 495	3 425	2 986	2 690	3 658	36.0%
Wood, Wood-waste		19	58	54	84	98	90	-8.2%
Municipal waste		-	-	-	-	-	-	-
Biogas		12	12	15	18	24	30	25.0%

	SLOVENIJA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	12	95	107	116	105	106	1.0%
Hydro with installed capacity > 1 & <10 MW	28	32	40	40	36	37	2.8%
Hydro with installed capacity > 10 MW	748	733	759	803	831	831	0.0%
Wood, Wood-waste	2	13	15	15	13	13	0.0%
Municipal waste	-	-	-	-	-	-	-
Biogas	2	2	3	3	3	5	66.7%
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	-	-	-	-	-	-	-

# 1. Energy economy

## Key figures and energy indicators

		SLOVENSKO					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	5 159	5 970	6 357	6 478	6 288	5 808
Net energy imports		11 723	11 623	11 687	12 122	12 149	12 487
Net oil imports		3 139	2 711	2 889	3 318	3 190	3 210
Net gas imports		5 244	5 707	5 666	5 871	5 501	5 678
Gross inland energy consumption		17 390	17 483	18 743	18 838	18 737	18 168
Final energy consumption		10 439	10 651	10 776	11 294	10 442	10 001
Industry		3 817	4 244	4 332	4 526	4 587	4 138
Transport		1 602	1 549	1 412	1 792	1 604	1 585
Services and households etc.		5 020	4 858	5 032	4 976	4 251	4 278
Gross electricity generation	GWh	27 743	30 685	32 046	32 427	31 176	30 561
Final electricity consumption		22 747	22 010	23 452	22 712	22 985	24 027
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	17 417	17 772	18 445	19 296	20 157	21 266
Population	1000 per.	5 393	5 399	5 379	5 379	5 379	5 380
Industry added value	Mio EUR	5 443	5 442	5 546	5 533	6 020	6 714
Total imports (current prices)	Mio EUR	12 302	13 597	15 098	15 923	18 081	20 378
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	998.5	983.8	1 016.2	976.3	929.5	854.3
Final energy consumption / GDP(95)		599.3	599.3	584.2	585.3	518.0	470.3
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		701.2	779.9	781.1	818.1	761.9	616.4
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		246.2	222.1	172.8	167.5	107.0	124.7
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 224	3 238	3 485	3 502	3 483	3 377
Final energy consumption / capita		1 935	1 973	2 003	2 100	1 941	1 859
Household consumption / capita		467	470	569	549	523	490
Final electricity consumption / capita	kWh/cap.	4 218	4 077	4 360	4 222	4 273	4 466
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	67.4	66.5	62.4	64.3	64.8	68.7
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	60.0	60.9	57.5	60.0	55.7	55.0
Efficiency of thermal power stations		47.8	29.8	51.0	54.0	50.8	52.5


## 2. Energy balance

### Principal aggregates by product


eurostat	SLOVENSKO							
	in 1 000 toe	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total		5 159	5 970	6 357	6 478	6 288	5 808	-7.6%
among which:	Hard coal	-	-	-	-	-	-	-
	Lignite and peat	1 083	1 018	980	934	819	817	-0.2%
	Crude oil	66	59	55	53	49	43	-12.3%
	Natural Gas	164	133	151	145	166	142	-14.7%
	Nuclear heat	3 384	4 255	4 412	4 631	4 608	4 392	-4.7%
	Hydro-electricity	390	406	424	453	299	353	17.8%
	Biomass	73	100	328	260	331	35	-89.5%
<b>Imports</b>								
Total		14 937	15 269	15 930	16 428	16 528	17 378	5.1%
among which:	Hard coal	2 909	3 153	3 246	3 064	3 258	3 399	4.3%
	Crude oil and feedstocks	5 320	5 298	5 577	5 703	5 744	6 062	5.5%
	Petroleum products	594	274	552	878	811	1 091	34.6%
	Natural Gas	5 244	5 707	5 666	5 871	5 505	5 679	3.2%
	Electricity	434	512	521	577	741	751	1.3%
<b>Exports</b>								
Total		3 215	3 646	4 244	4 306	4 378	4 891	11.7%
among which:	Crude oil and feedstocks	-	15	17	14	71	181	154.5%
	Petroleum products	2 775	2 847	3 222	3 248	3 294	3 762	14.2%
	Natural gas	-	-	-	-	3	1	-74.2%
	Electricity	422	744	838	934	935	911	-2.6%
<b>Gross inland consumption</b>								
Total		17 390	17 483	18 743	18 838	18 737	18 168	-3.0%
among which:	Solid fuels	4 565	4 261	4 421	4 254	4 576	4 519	-1.2%
	Crude oil and petrol. prod.	3 231	2 925	3 265	3 679	3 433	3 503	2.0%
	Natural gas	5 738	5 776	6 168	5 867	5 669	5 498	-3.0%
	Nuclear Energy	3 384	4 255	4 412	4 631	4 608	4 392	-4.7%
	Renewables	461	498	758	716	626	392	-37.5%
<b>Transformation input</b>								
Total		14 642	14 931	16 601	16 349	16 852	16 833	-0.1%
among which:	Crude oil and feedstocks	5 402	5 410	6 410	6 402	6 331	6 770	6.9%
	Petroleum products	250	109	89	86	120	104	-13.5%
	Hard coal	2 493	2 343	2 499	2 429	2 616	2 576	-1.5%
	Lignite and peat	1 026	848	920	675	992	809	-18.5%
	Renewables	-	-	54	54	66	33	-50.1%
<b>Transformation output</b>								
Total		10 102	10 600	12 015	11 857	12 121	12 304	1.5%
among which:	Electricity	1 975	2 211	2 315	2 317	2 365	2 266	-4.2%
	Heat	743	720	1 398	1 221	1 328	1 286	-3.1%

eurostat		SLOVENSKO						
		1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 toe</i>								
<b>Final energy consumption</b>								
Total		10 439	10 651	10 776	11 294	10 442	10 001	-4.2%
<i>among which:</i>	Solid fuels	1 677	1 801	1 629	1 706	1 637	1 739	6.2%
	Petroleum products	1 810	1 870	1 990	2 332	1 972	2 034	3.1%
	Natural Gas	4 076	4 167	3 454	3 659	3 120	2 707	-13.2%
	Renewables	3	1	241	214	266	6	-97.7%
	Electricity	1 956	1 893	2 017	1 953	1 976	2 066	4.5%
<b>Final energy consumption by sector</b>								
<b>Industry</b>								
Total		3 817	4 244	4 332	4 526	4 587	4 138	-9.8%
<i>among which:</i>	Solid fuels	1 306	1 540	1 380	1 365	1 518	1 470	-3.2%
	Petroleum Products	230	362	409	455	294	346	17.5%
	Natural Gas	1 094	1 117	1 072	1 287	1 032	855	-17.2%
	Renewables	0	0	229	209	262	0	-99.9%
	Electricity	819	838	832	775	881	922	4.6%
<b>Transport</b>								
Total		1 602	1 549	1 412	1 792	1 604	1 585	-1.2%
<i>among which:</i>	Motor spirit	670	633	640	752	697	637	-8.6%
	Diesel oil	854	834	735	928	807	855	5.9%
	Jet fuel	-	-	32	48	34	27	-21.2%
	Electricity	78	83	3	62	62	61	-2.5%
<b>Services&amp;households</b>								
Total		5 020	4 858	5 032	4 976	4 251	4 278	0.6%
<i>among which:</i>	Solid fuels	371	261	248	341	119	269	125.5%
	Gas oil	-	-	121	84	74	80	8.2%
	Natural Gas	2 982	3 050	2 379	2 370	2 084	1 846	-11.4%
	Renewables	2	1	11	5	4	6	34.4%
	Electricity	1 059	972	1 182	1 115	1 033	1 083	4.9%
	Heat	549	532	1 037	995	871	905	3.9%


### 3.1 Electricity balance

 eurostat	SLOVENSKO							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation	27 743	30 685	32 046	32 427	31 176	30 561	-2.0%	
<i>among which:</i>								
Hydro	4 776	4 975	5 117	5 483	3 672	4 207	14.6%	
Wind	-	-	-	-	-	-	-	
Geothermal	-	-	-	-	-	-	-	
Nuclear	13 117	16 494	17 103	17 953	17 864	17 026	-4.7%	
Conventional thermal	9 850	9 216	9 826	8 991	9 640	9 328	-3.2%	
<i>of which:</i>								
Hard coal	3 657	3 369	3 184	3 141	3 553	3 342	-5.9%	
Lignite and peat	2 716	2 215	2 638	2 014	2 413	2 339	-3.1%	
Petroleum products	338	202	690	704	708	737	4.1%	
Natural gas	3 085	3 376	2 699	2 512	2 396	2 421	1.0%	
Derived gases	54	54	402	420	429	420	-2.1%	
Biomass	-	-	-	-	-	-	-	
Industrial wastes	-	-	213	200	141	69	-51.1%	
Total net generation	24 816	27 323	29 609	29 980	28 713	28 147	-2.0%	
<b>Imports and exports</b>								
Total imports	5 050	5 951	6 065	6 710	8 623	8 731	1.3%	
Total exports	4 912	8 647	9 743	10 867	10 878	10 593	-2.6%	
<b>Consumption and losses</b>								
Consumption of the energy branch	3 064	3 903	3 400	4 235	3 807	3 253	-14.6%	
<i>of which:</i>								
Consumption for pumped-storage	54	50	72	63	70	61	-12.9%	
Network losses	1 828	1 827	1 326	1 108	1 939	1 318	-32.0%	
Final energy consumption	22 747	22 010	23 452	22 712	22 985	24 027	4.5%	
<i>of which:</i>								
Industry	9 525	9 741	9 680	9 019	10 250	10 724	4.6%	
<i>among which:</i>								
Iron&steel industry	3 177	3 251	2 461	1 541	2 415	2 602	7.7%	
Non-ferrous metals	-	-	1 665	1 683	2 022	2 352	16.3%	
Chemical industry	1 413	1 446	1 057	1 415	1 460	1 406	-3.7%	
Non-met. mineral prod.	992	1 015	695	855	1 013	788	-22.2%	
Food, drink, tobacco	1 095	1 121	967	1 080	529	506	-4.3%	
Pulp, paper and print	667	683	732	801	911	1 036	13.7%	
Engineering & metal	1 062	1 087	1 196	650	919	1 001	8.9%	
Other industries	671	680	627	686	704	736	4.5%	
Transport	903	965	30	720	726	708	-2.5%	
Services & households etc.	12 319	11 304	13 742	12 973	12 009	12 595	4.9%	
<i>among which:</i>								
Households	5 672	5 419	5 222	4 907	5 039	4 817	-4.4%	

## 3.2 Electrical capacity, fuel inputs and heat


	SLOVENSKO							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	7 752	7 454	8 320	8 074	8 202	8 268	0.8%
<i>by source:</i>								
Conventional thermal		3 133	2 394	3 178	2 929	3 052	3 107	1.8%
<i>of which:</i>								
Steam		-	-	-	-	-	-	-
Gas turbine		-	-	-	-	-	-	-
Combined cycle		-	-	-	-	-	-	-
Internal combustion		-	-	-	-	-	-	-
Nuclear		2 200	2 640	2 640	2 640	2 640	2 640	0.0%
Hydro		2 419	2 420	2 502	2 505	2 507	2 518	0.4%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		-	-	-	-	3	3	0.0%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		7 752	7 454	7 611	7 460	7 520	7 678	2.1%
Autoproducers		-	-	722	624	692	600	-13.3%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	3 266	2 656	3 105	2 537	2 960	2 691	-9.1%
<i>among which:</i>								
Hard coal		1 020	787	973	805	920	873	-5.1%
Lignite and peat		1 003	829	908	668	971	790	-18.7%
Petroleum products		86	37	86	85	114	99	-12.6%
Natural gas		1 064	933	1 055	892	847	845	-0.3%
Renewables		-	-	28	25	47	24	-48.6%
Heating plants		666	584	664	638	678	715	5.4%
<i>among which:</i>								
Hard coal		-	-	1	-	3	3	-8.6%
Lignite and peat		23	19	13	7	21	19	-10.6%
Petroleum products		164	72	3	1	7	5	-28.6%
Natural gas		475	489	615	576	623	673	8.0%
Renewables		-	-	26	29	19	9	-53.8%
<b>Heat production and consumption</b>								
Total heat production	TJ	743	720	1 398	1 221	1 328	1 286	-3.1%
<i>among which: in heating plants</i>								
		29	720	609	579	605	621	2.6%
Heat consumption		567	550	1 057	1 021	1 026	1 004	-2.1%
<i>of which: in industry</i>								
		18	18	21	25	155	99	-36.1%
<i>in households and services</i>								
		549	532	1 037	995	871	905	3.9%
<i>among which: in households</i>								
		370	358	868	782	683	624	-8.6%


## 4.1 Crude oil and feedstocks

 eurostat	SLOVENSKO							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	66	59	54	52	48	42	-12.5%	
Total imports	5 346	5 329	5 495	5 633	5 666	5 968	5.3%	
Total exports	-	15	17	14	70	178	154.3%	
Stock changes	41	69	59	32	35	-72	-305.7%	
Refinery intake	5 429	5 442	6 316	6 322	6 244	6 666	6.8%	
<b>Imports of Crude Oil by origin</b>								
<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	-	-	-	-	-	-	-	
<b>Refining capacity</b>								
Capacity at the end of year	-	-	-	-	-	-	-	
<i>among which:</i>								
Cracking and others	-	-	-	-	-	-	-	
Reforming	-	-	-	-	-	-	-	




## 4.2 Petroleum products


 eurostat	SLOVENSKO							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output	5 597	5 774	6 284	6 192	6 156	6 482	5.3%	
<i>among which:</i>								
Motor spirit	1 017	1 377	1 440	1 555	1 597	1 670	4.6%	
Kerosene and jet fuel	41	47	50	44	64	62	-3.1%	
Naphtha	721	751	560	530	515	573	11.3%	
Gas/diesel oil	1 889	2 125	2 406	2 341	2 351	2 599	10.5%	
Residual fuel oil	1 129	507	718	620	635	526	-17.2%	
Total imports	580	270	552	884	819	1 106	35.0%	
Total exports	2 764	2 806	3 210	3 230	3 278	3 736	14.0%	
Bunkers	-	-	-	-	-	-	-	
Stock changes	-24	91	-38	-	-108	22	120.4%	
Gross inland consumption	-2 208	-2 445	-2 696	-2 346	-2 555	-2 589	-1.3%	
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands	:	:	-	-	1	1	0.0%	
United Kingdom	-	-	-	-	-	-	-	
Norway	-	-	-	-	-	-	-	
OPEC	-	-	-	-	-	-	-	
Imports by product								
<i>among which:</i>								
Motor spirit	255	98	221	324	246	216	-12.2%	
Kerosene and jet fuel	-	-	3	16	22	93	322.7%	
Gas/diesel oil	233	99	118	285	233	445	91.0%	
Residual fuel oil	71	36	30	16	64	41	-35.9%	
Exports by product								
<i>among which:</i>								
Motor spirit	626	869	1 025	1 151	1 130	1 275	12.8%	
Kerosene and jet fuel	21	13	6	11	32	20	-37.5%	
Gas/diesel oil	1 307	1 441	1 569	1 567	1 587	2 013	26.8%	
Residual fuel oil	801	431	363	260	274	157	-42.7%	
<b>Consumption</b>								
Inputs to electricity plants	90	39	90	89	119	104	-12.6%	
Inputs to heating plants	172	75	3	1	7	5	-28.6%	
Non-energy use	964	1 198	821	921	801	677	-15.5%	
Final energy consumption	1 756	1 880	1 972	2 312	1 938	1 999	3.1%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	-	-	24	27	27	37	37.0%	
Residual fuel oil	137	88	305	336	176	178	1.1%	

 eurostat	SLOVENSKO							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		-	-	-	-	-	6	
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		208	165	246	304	181	235	29.8%
Non-met. mineral prod.		4	4	63	47	59	70	18.6%
Food, drink, tobacco		2	2	7	3	4	2	-50.0%
Pulp, paper and print		1	1	15	7	8	8	0.0%
Engineering & metal		2	3	2	1	3	1	-66.7%
Other industries		20	28	39	50	40	29	-27.5%
<b>Transport</b>		1 483	1 427	1 367	1 682	1 495	1 478	-1.1%
<i>among which:</i>								
Motor spirit		638	602	609	716	663	606	-8.6%
Jet fuel		-	-	31	47	33	26	-21.2%
Diesel oil		845	825	727	919	799	846	5.9%
<b>Services &amp; households etc.</b>		53	39	170	145	136	165	21.3%
<i>among which:</i>								
Gas oil		-	-	120	83	73	79	8.2%
Residual fuel oil		3	3	-	-	-	17	
<b>Stocks at end of period</b>								
Crude oil and feedstocks		-	-	-	-	243	315	29.6%
Petroleum products		-	-	-	-	550	528	-4.0%


## 5. Natural gas

 eurostat	SLOVENSKO							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		7 619	6 182	7 009	6 754	7 745	6 603	-14.7%
Total imports		243 945	265 484	263 569	273 122	256 076	264 166	3.2%
Total exports		-	-	-	-	151	39	-74.2%
Stock changes		15 375	-2 947	16 374	-6 927	38	-14 944	
Gross inland consumption		266 939	268 719	286 952	272 949	263 708	255 786	-3.0%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		243 945	265 484	263 569	273 122	256 076	264 166	3.2%
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		49 497	43 407	49 096	41 499	39 416	39 317	-0.3%
Inputs to heat plants		22 083	22 771	28 619	26 807	28 988	31 293	8.0%
Consumption of energy branch		5 488	5 633	31 720	29 832	30 249	36 881	21.9%
Distribution losses		270	3 045	940	3 736	5 483	5 788	5.6%
Non-energy use		-	-	16 414	16 113	14 441	16 595	14.9%
Industry		50 886	51 968	49 876	59 871	48 003	39 766	-17.2%
<i>among which:</i>								
Iron&steel industry		6 269	7 477	6 041	9 133	7 176	6 723	-6.3%
Non-ferrous metals		1 367	1 169	905	1 211	1 302	1 382	6.1%
Chemical industry		10 153	10 516	9 137	9 026	4 764	3 442	-27.7%
Non-met. mineral prod.		12 958	12 871	13 107	12 633	9 669	7 466	-22.8%
Food, drink, tobacco		4 801	4 106	4 913	9 010	7 470	5 871	-21.4%
Pulp, paper and print		2 269	2 722	3 372	2 976	2 064	2 817	36.5%
Engineering & metal		6 419	6 022	5 281	7 335	7 769	5 181	-33.3%
Other industries		3 466	2 823	2 441	4 539	3 985	2 647	-33.6%
Transport		-	-	145	62	183	274	49.7%
Services & households etc.		138 715	141 895	110 681	110 265	96 945	85 872	-11.4%
<i>among which:</i>								
Households		72 596	76 396	77 075	74 580	74 864	69 196	-7.6%
Services		63 963	63 271	31 399	33 608	18 458	14 704	-20.3%


## 6.1 Hard coal


 eurostat	SLOVENSKO							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	4 488	4 851	4 963	4 629	4 945	5 183	4.8%	
Total exports	-	-	-	-	-	-	-	
Stock changes	119	-195	-41	97	145	-32	-122.1%	
Gross inland consumption	4 607	4 656	4 922	4 726	5 090	5 151	1.2%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
CIS	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants	1 702	1 329	1 421	1 345	1 540	1 598	3.8%	
Inputs to heat plants	-	-	1	-	5	5	0.0%	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry	734	1 066	1 155	1 034	1 120	1 073	-4.2%	
<i>among which:</i>								
Iron&steel industry	440	754	888	821	853	851	-0.2%	
Non-ferrous metals	15	10	6	24	16	11	-31.3%	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	173	195	197	129	185	152	-17.8%	
Food, drink, tobacco	4	1	-	-	-	-	-	
Pulp, paper and print	100	106	61	59	61	55	-9.8%	
Engineering & metal	-	-	2	-	4	3	-25.0%	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	79	53	156	8	-	34		
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	-
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	-

## 6.2 Coal derivatives and peat

 eurostat	SLOVENSKO						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	1 616	1 706	1 697	1 806	1 886	1 883	-0.2%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	3 748	3 648	3 424	3 404	3 097	2 952	-4.7%
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	12 578	13 380	13 458	14 346	15 025	14 883	-0.9%
Blast-furnace gas	19 177	20 066	20 555	22 028	24 632	23 834	-3.2%
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	1 063	1 107	915	1 013	1 203	1 235	2.7%
<i>among which:</i>							
Iron & steel industry	845	910	739	864	1 112	1 081	-2.8%
Services & households	77	96	79	49	59	106	79.7%
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	1 559	1 162	721	1 368	546	820	50.2%
<i>among which:</i>							
Industry	657	596	424	266	248	211	-14.9%
Services & households	902	566	297	1 102	298	609	104.4%
Brown coal briquettes	7	4	3	1	1	10	900.0%
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	7	4	3	1	1	10	900.0%
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	8 855	9 495	9 706	10 262	10 592	10 387	-1.9%
Blast-furnace gas	6 657	6 950	6 579	7 351	8 516	8 513	0.0%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	4 084	2 998	2 254	2 399	2 601	2 592	-0.3%
Inputs to heat plants	61	58	108	95	33	48	45.5%
Consumption of energy branch	11 538	12 956	14 459	15 071	16 364	15 805	-3.4%
Consumption in industry	15 512	16 445	16 285	17 613	19 108	18 900	-1.1%


## 7. Renewable energy sources

		SLOVENSKO						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	463	506	760	715	632	392	-38.0%
Hydro (excl. pumping)		390	406	424	453	299	353	17.8%
Wind		-	-	-	-	-	-	-
Solar		-	-	-	-	-	-	-
Geothermal		-	-	9	2	1	5	267.9%
Biomass		73	100	328	260	331	35	-89.5%
	<i>among which:</i>							
Wood, wood-waste		73	100	267	251	300	-	
Municipal solid waste		-	-	25	4	26	29	11.9%
Biogas		-	-	5	3	4	6	57.3%
Gross inland consumption		461	498	758	716	626	392	-37.5%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	8	8	7	3	-50.0%
Biomass		-	-	46	47	59	30	-50.1%
	<i>among which:</i>							
Wood, wood-waste		-	-	32	42	32	-	
Municipal waste		-	-	14	4	26	29	11.8%
Biogas		-	-	0	1	2	1	-62.2%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	3	1	241	214	266	6	-97.7%
	<i>by sector:</i>							
Industry		0	0	229	209	262	0	-99.9%
Services & households etc.		2	1	11	5	4	6	34.4%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		3	1	240	212	265	5	-98.1%
	<i>among which:</i>							
Wood, wood-waste		3	1	235	210	263	-	
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	5	3	2	5	174.7%
Geothermal		-	-	1	2	1	1	-3.8%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		:	:	15	16	13	20	53.8%
Hydro with installed capacity > 1 & <10 MW		:	:	11	13	15	22	46.7%
Hydro with installed capacity > 10 MW		:	:	4 901	5 239	3 451	3 990	15.6%
Wood, Wood-waste		:	:	153	153	84	3	-96.4%
Municipal waste		-	-	-	-	-	-	-
Biogas		:	:	1	2	2	2	0.0%

		SLOVENSKO						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		:	:	5	4	5	9	80.0%
Hydro with installed capacity > 1 & <10 MW		:	:	3	3	5	5	0.0%
Hydro with installed capacity > 10 MW		:	:	1 578	1 579	2 497	1 588	-36.4%
Wood, Wood-waste		-	-	5	1	1	-	
Municipal waste		-	-	-	-	6	-	
Biogas		-	-	1	2	1	-	
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	-	-	38	3	2	-	-
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	-	-	-	-	-	-	-

# 1. Energy economy


## Key figures and energy indicators

		SUOMI/FINLAND					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	15 153	14 809	15 065	15 705	15 640	15 502
Net energy imports		17 217	18 542	18 905	18 760	22 295	20 806
Net oil imports		10 292	10 566	10 137	10 132	11 217	10 983
Net gas imports		3 338	3 422	3 707	3 684	4 084	3 951
Gross inland energy consumption		32 807	32 508	33 315	35 220	37 249	37 708
Final energy consumption		24 637	24 543	24 739	25 531	25 973	26 541
Industry		12 055	12 144	11 627	12 230	12 533	13 179
Transport		4 398	4 391	4 482	4 501	4 636	4 741
Services and households etc.		8 184	8 008	8 630	8 801	8 804	8 621
Gross electricity generation	GWh	69 433	69 989	74 450	74 899	84 230	85 817
Final electricity consumption		74 200	75 446	77 296	79 681	80 855	83 137
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	119 758	125 719	127 012	129 810	132 971	137 785
Population	1000 per.	5 160	5 171	5 181	5 195	5 206	5 220
Industry added value	Mio EUR	36 037	39 314	39 258	40 030	40 527	42 557
Total imports (current prices)	Mio EUR	37 853	44 241	44 439	45 259	46 576	49 355
among which:							
All energy commodities		2 515	4 370	4 154	4 046	4 481	4 481
Oil products		1 873	3 532	3 008	2 978	3 145	3 616
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	273.9	258.6	262.3	271.3	280.1	273.7
Final energy consumption / GDP(95)		205.7	195.2	194.8	196.7	195.3	192.6
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		334.5	308.9	296.2	305.5	309.2	309.7
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		35.8	35.6	41.5	41.3	39.6	38.8
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	6 358	6 286	6 430	6 780	7 155	7 224
Final energy consumption / capita		4 775	4 746	4 775	4 915	4 989	5 085
Household consumption / capita		1 000	952	956	983	994	955
Final electricity consumption / capita	kWh/cap.	14 381	14 589	14 919	15 338	15 530	15 928
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	51.6	55.9	55.8	52.3	58.9	54.4
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	75.1	75.5	74.3	72.5	69.7	70.4
Efficiency of thermal power stations		73.0	73.2	70.6	69.8	64.3	67.5



## 2. Energy balance

### Principal aggregates by product

 eurostat	SUOMI/FINLAND						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	15 153	14 809	15 065	15 705	15 640	15 502	-0.9%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	1 966	1 207	1 616	2 107	1 832	780	-57.4%
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	5 926	5 799	5 874	5 751	5 864	5 860	-0.1%
Hydro-electricity	1 099	1 261	1 135	927	825	1 296	57.1%
Biomass	6 158	6 536	6 433	6 915	7 112	7 556	6.2%
<b>Imports</b>							
Total	22 350	23 672	24 029	24 358	28 548	27 117	-5.0%
<i>among which:</i> Hard coal	2 302	3 203	3 894	3 641	6 291	5 171	-17.8%
Crude oil and feedstocks	11 700	12 146	11 377	12 146	12 427	12 662	1.9%
Petroleum products	3 692	3 507	3 711	3 405	4 384	3 978	-9.3%
Natural Gas	3 338	3 422	3 707	3 684	4 084	3 951	-3.3%
Electricity	976	1 050	1 012	1 158	1 022	1 003	-1.8%
<b>Exports</b>							
Total	5 133	5 130	5 123	5 599	6 253	6 311	0.9%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	5 100	5 087	4 951	5 419	5 594	5 656	1.1%
Natural gas	-	-	-	-	-	-	-
Electricity	20	28	156	132	604	584	-3.3%
<b>Gross inland consumption</b>							
Total	32 807	32 508	33 315	35 220	37 249	37 708	1.2%
<i>among which:</i> Solid fuels	5 274	5 047	6 146	6 488	8 315	7 517	-9.6%
Crude oil and petrol. prod.	9 920	9 209	8 943	10 248	10 386	10 932	5.3%
Natural gas	3 338	3 422	3 707	3 684	4 084	3 951	-3.3%
Nuclear Energy	5 926	5 799	5 874	5 751	5 864	5 860	-0.1%
Renewables	7 261	7 803	7 574	7 809	7 898	8 805	11.5%
<b>Transformation input</b>							
Total	28 315	28 083	28 661	30 497	33 440	32 542	-2.7%
<i>among which:</i> Crude oil and feedstocks	13 499	13 231	12 414	13 582	13 501	13 950	3.3%
Petroleum products	508	358	442	391	530	413	-22.0%
Hard coal	3 035	3 033	3 523	3 955	5 383	4 790	-11.0%
Lignite and peat	1 292	1 143	1 670	1 755	2 178	1 845	-15.3%
Renewables	1 607	1 547	1 615	1 920	2 294	2 173	-5.3%
<b>Transformation output</b>							
Total	22 362	22 065	21 933	23 499	25 064	24 927	-0.5%
<i>among which:</i> Electricity	4 867	4 751	5 260	5 508	6 410	6 073	-5.3%
Heat	3 000	2 990	3 268	3 457	4 070	3 812	-6.3%

**Final energy consumption**

Total	24 637	24 543	24 739	25 531	25 973	26 541	2.2%
<i>among which:</i> Solid fuels	1 200	1 075	1 168	1 103	981	961	-2.1%
Petroleum products	7 783	7 822	7 669	8 031	8 153	8 248	1.2%
Natural Gas	1 463	952	1 007	973	886	857	-3.3%
Renewables	4 551	4 989	4 818	4 956	4 772	5 325	11.6%
Electricity	6 380	6 487	6 646	6 851	6 952	7 148	2.8%

**Final energy consumption by sector**
**Industry**

Total	12 055	12 144	11 627	12 230	12 533	13 179	5.2%
<i>among which:</i> Solid fuels	1 174	1 050	1 142	1 077	953	933	-2.1%
Petroleum Products	1 352	1 464	1 074	1 459	1 598	1 693	6.0%
Natural Gas	1 398	889	938	899	813	782	-3.8%
Renewables	3 436	3 904	3 657	3 773	3 601	4 159	15.5%
Electricity	3 570	3 669	3 644	3 755	3 810	3 966	4.1%


**Transport**

Total	4 398	4 391	4 482	4 501	4 636	4 741	2.3%
<i>among which:</i> Motor spirit	1 934	1 865	1 904	1 875	1 936	1 916	-1.0%
Diesel oil	1 897	1 925	1 986	2 029	2 079	2 167	4.2%
Jet fuel	506	505	505	493	506	548	8.3%
Electricity	45	46	49	51	54	54	0.5%


**Services&households**

Total	8 184	8 008	8 630	8 801	8 804	8 621	-2.1%
<i>among which:</i> Solid fuels	26	25	26	25	29	29	-0.9%
Gas oil	1 894	1 740	1 787	1 653	1 628	1 540	-5.4%
Natural Gas	65	62	67	72	70	72	2.4%
Renewables	1 114	1 085	1 161	1 183	1 166	1 161	-0.4%
Electricity	2 765	2 772	2 953	3 045	3 089	3 129	1.3%
Heat	2 137	2 050	2 259	2 349	2 469	2 354	-4.7%

### 3.1 Electricity balance

 eurostat	SUOMI/FINLAND							
	in GWh		1999	2000	2001	2002	2003	2004
<b>Generation</b>								
Total gross generation		69 433	69 989	74 450	74 899	84 230	85 817	1.9%
<i>among which:</i>								
Hydro		12 780	14 660	13 204	10 776	9 591	15 070	57.1%
Wind		49	78	70	64	93	120	29.0%
Geothermal		-	-	-	-	-	-	-
Nuclear		22 974	22 479	22 773	22 295	22 731	22 716	-0.1%
Conventional thermal		33 630	32 772	38 403	41 764	51 815	47 911	-7.5%
<i>of which:</i>								
Hard coal		8 522	8 535	10 659	12 611	18 880	16 505	-12.6%
Lignite and peat		4 871	3 962	6 210	6 448	7 320	6 527	-10.8%
Petroleum products		773	610	652	601	934	613	-34.4%
Natural gas		10 113	10 080	11 552	11 304	13 941	12 749	-8.6%
Derived gases		655	704	643	670	566	533	-5.8%
Biomass		8 363	8 557	8 411	9 740	9 700	10 509	8.3%
Industrial wastes		333	324	276	390	474	475	0.2%
Total net generation		66 655	67 292	71 230	71 617	80 379	82 157	2.2%
<b>Imports and exports</b>								
Total imports		11 356	12 206	11 769	13 464	11 882	11 667	-1.8%
Total exports		232	326	1 810	1 539	7 030	6 797	-3.3%
<b>Consumption and losses</b>								
Consumption of the energy branch		3 668	3 671	4 086	4 202	4 780	4 591	-4.0%
<i>of which:</i>								
Consumption for pumped-storage		-	-	-	-	-	-	-
Network losses		2 689	2 752	3 027	2 941	3 447	2 959	-14.2%
Final energy consumption		74 200	75 446	77 296	79 681	80 855	83 137	2.8%
<i>of which:</i>								
Industry		41 520	42 674	42 384	43 668	44 306	46 120	4.1%
<i>among which:</i>								
Iron&steel industry		2 537	2 470	2 562	2 615	3 201	3 367	5.2%
Non-ferrous metals		2 033	1 957	2 029	2 072	1 918	2 003	4.4%
Chemical industry		4 385	5 019	5 143	5 369	4 693	4 861	3.6%
Non-met. mineral prod.		850	871	927	924	942	946	0.4%
Food, drink, tobacco		1 540	1 588	1 590	1 540	1 547	1 549	0.1%
Pulp, paper and print		24 640	25 205	24 239	24 958	25 118	26 216	4.4%
Engineering & metal		2 570	2 450	2 492	2 537	2 463	2 506	1.7%
Other industries		2 145	2 281	2 578	2 809	3 581	3 798	6.1%
Transport		520	538	565	594	627	630	0.5%
Services & households etc.		32 160	32 234	34 347	35 419	35 922	36 387	1.3%
<i>among which:</i>								
Households		18 445	18 135	19 373	19 940	20 405	20 364	-0.2%


## 3.2 Electrical capacity, fuel inputs and heat


		SUOMI/FINLAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	16 164	16 258	16 473	16 566	16 553	16 563	0.1%
<i>by source:</i>								
Conventional thermal		10 605	10 698	10 868	10 888	10 864	10 811	-0.5%
<i>of which:</i>								
Steam		6 635	7 215	7 385	7 405	7 381	7 328	-0.7%
Gas turbine		1 700	1 847	1 847	1 847	1 847	1 847	0.0%
Combined cycle		-	1 586	1 586	1 586	1 586	1 586	0.0%
Internal combustion		-	50	50	50	50	50	0.0%
Nuclear		2 640	2 640	2 640	2 671	2 671	2 671	0.0%
Hydro		2 881	2 882	2 926	2 964	2 966	2 999	1.1%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		38	38	39	43	52	82	57.7%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		13 894	13 988	14 204	14 296	14 286	14 297	0.1%
Autoproducers		2 270	2 270	2 270	2 270	2 270	2 270	0.0%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	7 100	6 934	8 255	9 043	11 737	10 349	-11.8%
<i>among which:</i>								
Hard coal		2 054	2 088	2 582	3 005	4 427	3 832	-13.4%
Lignite and peat		1 249	1 081	1 611	1 692	2 079	1 754	-15.6%
Petroleum products		508	131	132	127	226	137	-39.4%
Natural gas		1 665	1 932	2 211	2 177	2 603	2 415	-7.2%
Renewables		1 415	1 436	1 486	1 802	2 108	1 976	-6.3%
Heating plants		478	792	834	806	1 023	1 065	4.1%
<i>among which:</i>								
Hard coal		74	46	37	32	59	65	10.7%
Lignite and peat		43	62	59	63	98	91	-7.7%
Petroleum products		-	227	310	264	304	276	-9.1%
Natural gas		161	239	183	212	235	298	27.0%
Renewables		192	111	129	119	186	197	5.9%
<b>Heat production and consumption</b>								
Total heat production	TJ	3 000	2 990	3 268	3 457	4 070	3 812	-6.3%
<i>among which: in heating plants</i>								
		711	731	741	735	975	945	-3.1%
Heat consumption		2 780	2 780	3 039	3 212	3 789	3 558	-6.1%
<i>of which: in industry</i>								
		643	730	780	863	1 320	1 204	-8.8%
<i>in households and services</i>								
		2 137	2 050	2 259	2 349	2 469	2 354	-4.7%
<i>among which: in households</i>								
		1 323	1 276	1 382	1 433	1 493	1 387	-7.1%

## 4.1 Crude oil and feedstocks


eurostat	in 1 000 t	SUOMI/FINLAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		11 378	11 834	11 095	11 896	12 167	12 395	1.9%
Total exports		-	-	-	-	-	-	-
Stock changes		-64	-329	-520	352	-77	-64	16.9%
Refinery intake		13 145	12 905	12 117	13 309	13 224	13 665	3.3%
<b>Imports of Crude Oil by origin</b>								
<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		2 764	2 587	1 804	1 799	1 066	585	-45.1%
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	12 500	12 500	:	:	:	:	
<i>among which:</i>								
Cracking and others		6 510	6 510	:	:	:	:	
Reforming		2 170	2 170	:	:	:	:	

## 4.2 Petroleum products

 eurostat	SUOMI/FINLAND						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	12 962	12 776	11 943	13 073	13 108	13 551	3.4%
<i>among which:</i>							
Motor spirit	4 285	3 891	3 785	4 350	4 304	4 321	0.4%
Kerosene and jet fuel	986	765	441	659	614	714	16.3%
Naphtha	270	240	215	203	188	258	37.2%
Gas/diesel oil	4 965	5 248	5 058	5 128	5 038	5 078	0.8%
Residual fuel oil	1 292	1 407	1 306	1 403	1 267	1 445	14.0%
Total imports	3 718	3 518	3 712	3 442	4 431	4 033	-9.0%
Total exports	4 931	4 947	4 815	5 254	5 450	5 507	1.0%
Bunkers	567	682	584	658	654	527	-19.4%
Stock changes	216	-365	-104	240	-185	341	284.3%
Gross inland consumption	-1 564	-2 476	-1 791	-2 230	-1 828	-1 627	11.0%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	62	115	145	121	119	115	-3.4%
United Kingdom	97	80	113	145	125	63	-49.6%
Norway	450	491	281	397	614	556	-9.4%
OPEC	-	10	66	-	11	-	
Imports by product							
<i>among which:</i>							
Motor spirit	305	418	365	290	421	360	-14.5%
Kerosene and jet fuel	474	235	182	47	15	17	13.3%
Gas/diesel oil	1 232	1 476	1 670	1 682	2 082	1 990	-4.4%
Residual fuel oil	978	674	654	806	983	654	-33.5%
Exports by product							
<i>among which:</i>							
Motor spirit	2 505	2 221	2 200	2 751	2 561	2 776	8.4%
Kerosene and jet fuel	492	294	123	174	79	185	134.2%
Gas/diesel oil	1 577	1 947	2 054	1 933	2 243	1 882	-16.1%
Residual fuel oil	-	123	79	28	23	141	513.0%
<b>Consumption</b>							
Inputs to electricity plants	527	136	138	132	236	143	-39.4%
Inputs to heating plants	-	236	323	275	316	288	-8.9%
Non-energy use	948	921	1 019	918	947	944	-0.3%
Final energy consumption	7 673	7 718	7 557	7 915	8 033	8 128	1.2%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	248	435	381	485	554	567	2.3%
Residual fuel oil	905	870	629	776	863	907	5.1%


 eurostat	SUOMI/FINLAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	413	415	285	357	424	457	7.8%	
Non-ferrous metals	25	17	13	15	17	20	17.6%	
Chemical industry	280	84	40	158	138	160	15.9%	
Non-met. mineral prod.	98	76	61	87	91	108	18.7%	
Food, drink, tobacco	127	61	47	55	61	66	8.2%	
Pulp, paper and print	65	206	254	300	314	324	3.2%	
Engineering & metal	89	86	27	35	35	42	20.0%	
Other industries	205	520	342	429	502	500	-0.4%	
<b>Transport</b>	4 228	4 223	4 308	4 324	4 449	4 551	2.3%	
<i>among which:</i>								
Motor spirit	1 840	1 775	1 812	1 784	1 842	1 823	-1.0%	
Jet fuel	493	492	492	480	493	534	8.3%	
Diesel oil	1 878	1 905	1 966	2 008	2 058	2 145	4.2%	
<b>Services &amp; households etc.</b>	2 063	1 999	2 154	2 113	1 961	1 859	-5.2%	
<i>among which:</i>								
Gas oil	1 875	1 722	1 769	1 636	1 611	1 524	-5.4%	
Residual fuel oil	166	203	335	350	218	216	-0.9%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	858	1 035	1 415	1 063	1 140	1 204	5.6%	
Petroleum products	1 284	2 293	2 368	2 194	2 304	2 038	-11.5%	

## 5. Natural gas


 eurostat	SUOMI/FINLAND								
	in TJ (GCV)		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>									
Primary production		-	-	-	-	-	-	-	-
Total imports		155 283	159 201	172 446	171 371	190 004	183 779	-3.3%	
Total exports		-	-	-	-	-	-	-	
Stock changes		-	-	-	-	-	-	-	
Gross inland consumption		155 283	159 201	172 446	171 371	190 004	183 779	-3.3%	
<b>Imports</b>									
Imports by origin									
<i>among which:</i>									
CIS		155 283	159 201	172 446	171 371	190 004	183 779	-3.3%	
Algeria		-	-	-	-	-	-	-	
Norway		-	-	-	-	-	-	-	
<b>Consumption</b>									
Inputs to electricity plants		77 441	89 867	102 863	101 279	121 097	112 351	-7.2%	
Inputs to heat plants		7 481	11 129	8 506	9 872	10 917	13 862	27.0%	
Consumption of energy branch		958	11 956	12 405	12 989	13 417	14 301	6.6%	
Distribution losses		-	-	-	-	-	-	-	
Non-energy use		1 277	1 558	1 516	1 875	2 896	2 698	-6.8%	
Industry		65 023	41 366	43 646	41 822	37 806	36 377	-3.8%	
<i>among which:</i>									
Iron&steel industry		8 376	2 839	2 737	2 935	3 000	3 038	1.3%	
Non-ferrous metals		-	-	-	-	-	-	-	
Chemical industry		1 898	1 239	1 393	1 378	1 400	1 422	1.6%	
Non-met. mineral prod.		6 736	3 073	2 406	2 394	2 300	2 249	-2.2%	
Food, drink, tobacco		2 019	1 800	2 265	1 898	1 800	1 798	-0.1%	
Pulp, paper and print		44 651	25 440	25 193	31 058	27 880	26 490	-5.0%	
Engineering & metal		-	128	343	287	276	280	1.4%	
Other industries		1 343	5 144	8 072	372	350	400	14.3%	
Transport		-	53	80	120	120	120	0.0%	
Services & households etc.		3 032	2 873	3 112	3 334	3 272	3 352	2.4%	
<i>among which:</i>									
Households		1 024	971	1 044	1 211	1 166	1 219	4.5%	
Services		1 330	1 264	1 430	1 483	1 507	1 574	4.4%	




## 6.1 Hard coal


 eurostat	SUOMI/FINLAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	3 597	5 072	6 175	5 790	10 146	8 286	-18.3%	
Total exports	-	-	-	-	-	-	-	
Stock changes	1 658	59	-53	827	-1 284	-204	84.1%	
Gross inland consumption	5 255	5 131	6 122	6 617	8 862	8 082	-8.8%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	312	360	238	223	266	430	61.7%	
Poland	1 639	2 018	1 976	1 683	2 086	1 625	-22.1%	
CIS	1 482	2 541	2 892	2 664	5 766	5 562	-3.5%	
Australia	-	-	159	405	525	336	-36.0%	
South Africa	131	-	-	66	412	-	-	
Colombia	-	-	-	134	59	-	-	
<b>Consumption</b>								
Inputs to electricity plants	3 372	3 428	4 240	4 940	7 276	6 368	-12.5%	
Inputs to heat plants	121	76	60	52	97	109	12.4%	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry	491	342	401	359	260	237	-8.8%	
<i>among which:</i>								
Iron&steel industry	42	-	-	-	-	-	-	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	44	72	82	74	70	79	12.9%	
Non-met. mineral prod.	318	168	220	199	170	139	-18.2%	
Food, drink, tobacco	-	9	9	-	-	-	-	
Pulp, paper and print	87	93	90	86	20	19	-5.0%	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	4	4	4	4	4	4	0.0%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

 eurostat	SUOMI/FINLAND						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	900	910	909	912	895	904	1.0%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	8 068	4 860	6 699	8 733	7 305	3 200	-56.2%
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	7 721	8 148	7 778	8 048	8 047	7 704	-4.3%
Blast-furnace gas	16 869	17 953	15 916	16 528	17 541	17 884	2.0%
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	788	813	814	786	813	784	-3.6%
<i>among which:</i>							
Iron & steel industry	788	798	796	772	779	744	-4.5%
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	1 483	1 250	1 523	1 436	1 065	1 152	8.2%
<i>among which:</i>							
Industry	1 387	1 161	1 426	1 342	960	1 045	8.9%
Services & households	96	89	97	94	105	107	1.9%
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	7 321	7 452	7 118	7 361	7 750	7 465	-3.7%
Blast-furnace gas	10 796	10 832	9 165	9 539	10 644	11 170	4.9%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	6 473	7 817	6 568	6 799	7 194	6 935	-3.6%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	-	-	-	-	-	-	-
Consumption in industry	18 117	18 284	16 283	16 900	18 394	18 635	1.3%


## 7. Renewable energy sources

		SUOMI/FINLAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	7 261	7 803	7 574	7 847	7 944	8 862	11.6%
Hydro (excl. pumping)		1 099	1 261	1 135	927	825	1 296	57.1%
Wind		4	7	6	6	8	10	29.0%
Solar		0	0	0	0	0	1	152.1%
Geothermal		-	-	-	-	-	-	-
Biomass		6 158	6 536	6 433	6 915	7 112	7 556	6.2%
	<i>among which:</i>							
Wood, wood-waste		6 125	6 473	6 338	6 823	6 973	7 391	6.0%
Municipal solid waste		15	45	77	74	118	138	16.8%
Biogas		18	18	18	17	20	26	32.9%
Gross inland consumption		7 261	7 803	7 574	7 809	7 898	8 805	11.5%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		1 607	1 547	1 615	1 920	2 294	2 173	-5.3%
	<i>among which:</i>							
Wood, wood-waste		1 589	1 508	1 545	1 852	2 178	2 040	-6.3%
Municipal waste		15	32	63	60	104	120	15.2%
Biogas		4	7	7	8	11	12	10.6%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	4 551	4 989	4 818	4 956	4 772	5 325	11.6%
	<i>by sector:</i>							
Industry		3 436	3 904	3 657	3 773	3 601	4 159	15.5%
Services & households etc.		1 114	1 085	1 161	1 183	1 166	1 161	-0.4%
Transport		-	-	-	1	5	6	16.7%
	<i>by source:</i>							
Biomass		4 550	4 989	4 818	4 956	4 772	5 325	11.6%
	<i>among which:</i>							
Wood, wood-waste		4 536	4 965	4 793	4 932	4 744	5 287	11.5%
Municipal waste		-	13	14	14	14	17	25.3%
Biogas		14	11	10	9	9	14	59.5%
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		1	2	2	2	2	2	0.0%
Hydro with installed capacity < 1 MW		112	134	127	97	90	139	54.4%
Hydro with installed capacity > 1 & <10 MW		885	1 058	1 031	756	663	1 120	68.9%
Hydro with installed capacity > 10 MW		11 783	13 468	12 047	9 923	8 838	13 811	56.3%
Wood, Wood-waste		8 341	8 476	8 189	9 496	9 385	10 182	8.5%
Municipal waste		-	59	200	215	291	304	4.5%
Biogas		22	22	22	29	24	22	-8.3%

		SUOMI/FINLAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		2	3	3	3	3	3	0.0%
Hydro with installed capacity < 1 MW		28	29	30	31	31	31	0.0%
Hydro with installed capacity > 1 & <10 MW		279	279	273	275	275	275	0.0%
Hydro with installed capacity > 10 MW		2 574	2 574	2 623	2 658	2 660	2 693	1.2%
Wood, Wood-waste		1 200	1 500	1 600	1 600	1 700	1 700	0.0%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	8	8	8	8	8	14	75.0%


# 1. Energy economy

## Key figures and energy indicators

		SVERIGE					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	33 257	30 144	33 685	31 849	31 174	34 500
Net energy imports		18 098	19 172	19 124	19 722	22 685	20 054
Net oil imports		15 749	15 654	16 500	16 085	18 200	16 841
Net gas imports		793	776	875	891	888	884
Gross inland energy consumption		50 891	47 940	51 561	51 527	51 120	53 137
Final energy consumption		34 098	34 554	33 179	33 691	34 113	33 952
Industry		13 063	13 625	12 574	12 699	12 936	13 228
Transport		8 000	8 128	8 565	7 969	8 099	8 223
Services and households etc.		13 036	12 801	12 040	13 023	13 078	12 501
Gross electricity generation	GWh	155 171	145 585	161 616	146 733	135 435	151 727
Final electricity consumption		126 580	128 725	132 673	131 279	129 443	130 361
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	215 288	224 617	227 017	231 549	235 470	244 287
Population	1000 per.	8 854	8 861	8 883	8 909	8 941	8 976
Industry added value	Mio EUR	61 586	66 027	65 499	68 101	69 554	75 613
Total imports (current prices)	Mio EUR	84 975	94 661	92 204	90 428	94 987	101 047
among which:							
All energy commodities		3 856	7 147	6 108	6 196	6 932	7 829
Oil products		3 408	6 436	5 407	5 215	5 659	6 570
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	236.4	213.4	227.1	222.5	217.1	217.5
Final energy consumption / GDP(95)		158.4	153.8	146.2	145.5	144.9	139.0
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		212.1	206.4	192.0	186.5	186.0	174.9
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		39.5	37.1	31.6	37.5	36.9	33.6
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	5 748	5 410	5 805	5 784	5 718	5 920
Final energy consumption / capita		3 851	3 899	3 735	3 782	3 815	3 783
Household consumption / capita		868	851	844	853	856	796
Final electricity consumption / capita	kWh/cap.	14 296	14 526	14 936	14 735	14 478	14 524
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	34.5	38.9	36.1	37.4	43.0	36.5
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	67.0	72.1	64.3	65.4	66.7	63.9
Efficiency of thermal power stations		83.4	84.8	88.3	87.1	81.4	85.9

## 2. Energy balance

### Principal aggregates by product

 eurostat	SVERIGE						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	33 257	30 144	33 685	31 849	31 174	34 500	10.7%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	249	231	272	343	344	381	10.8%
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	18 879	14 781	18 601	17 569	17 390	19 988	14.9%
Hydro-electricity	6 164	6 757	6 798	5 706	4 604	5 170	12.3%
Biomass	7 929	8 330	7 967	8 174	8 773	8 883	1.3%
<b>Imports</b>							
Total	29 261	31 318	30 478	30 325	33 751	32 619	-3.4%
<i>among which:</i> Hard coal	2 019	2 137	2 117	1 911	2 202	2 197	-0.3%
Crude oil and feedstocks	19 721	20 938	20 030	18 676	20 567	21 023	2.2%
Petroleum products	5 762	5 668	6 215	6 730	7 670	6 827	-11.0%
Natural Gas	793	776	875	891	888	884	-0.4%
Electricity	727	1 574	960	1 729	2 088	1 345	-35.6%
<b>Exports</b>							
Total	11 163	12 146	11 355	10 603	11 067	12 565	13.5%
<i>among which:</i> Crude oil and feedstocks	446	566	544	406	234	261	11.3%
Petroleum products	9 289	10 386	9 200	8 915	9 803	10 748	9.6%
Natural gas	-	-	-	-	-	-	-
Electricity	1 370	1 172	1 587	1 269	985	1 526	54.9%
<b>Gross inland consumption</b>							
Total	50 891	47 940	51 561	51 527	51 120	53 137	3.9%
<i>among which:</i> Solid fuels	2 438	2 442	2 753	2 846	2 678	2 940	9.8%
Crude oil and petrol. prod.	15 197	14 382	15 119	15 773	15 569	15 352	-1.4%
Natural gas	793	776	875	891	888	884	-0.4%
Nuclear Energy	18 879	14 781	18 601	17 569	17 390	19 988	14.9%
Renewables	14 129	15 132	14 813	13 936	13 440	14 131	5.1%
<b>Transformation input</b>							
Total	46 816	42 468	46 451	44 518	45 392	48 928	7.8%
<i>among which:</i> Crude oil and feedstocks	21 340	21 618	20 917	19 923	20 377	21 423	5.1%
Petroleum products	907	521	726	823	936	637	-31.9%
Hard coal	1 700	1 632	1 690	1 627	1 704	1 672	-1.9%
Lignite and peat	242	200	228	327	328	383	16.8%
Renewables	2 699	2 868	3 312	3 195	3 631	3 799	4.6%
<b>Transformation output</b>							
Total	33 770	32 301	32 564	30 998	31 850	33 653	5.7%
<i>among which:</i> Electricity	7 144	5 719	7 055	6 856	6 978	7 799	11.8%
Heat	3 982	3 777	4 157	4 146	4 228	4 261	0.8%

**Final energy consumption**

Total	34 098	34 554	33 179	33 691	34 113	33 952	-0.5%
<i>among which:</i> Solid fuels	1 013	1 141	1 153	1 336	1 209	1 213	0.3%
Petroleum products	12 507	12 655	11 202	11 370	11 820	11 617	-1.7%
Natural Gas	451	443	492	459	497	480	-3.4%
Renewables	5 235	5 467	4 684	4 983	5 147	5 089	-1.1%
Electricity	10 884	11 068	11 408	11 288	11 130	11 209	0.7%

**Final energy consumption by sector**
**Industry**

Total	13 063	13 625	12 574	12 699	12 936	13 228	2.3%
<i>among which:</i> Solid fuels	1 013	1 141	1 153	1 336	1 209	1 213	0.3%
Petroleum Products	1 980	1 909	1 479	1 506	1 807	2 003	10.9%
Natural Gas	307	303	340	316	332	314	-5.5%
Renewables	4 386	4 833	4 084	4 014	4 169	4 154	-0.4%
Electricity	4 813	4 896	4 911	4 925	4 824	4 918	1.9%


**Transport**

Total	8 000	8 128	8 565	7 969	8 099	8 223	1.5%
<i>among which:</i> Motor spirit	4 246	4 185	4 167	4 300	4 318	4 110	-4.8%
Diesel oil	2 519	2 692	3 155	2 647	2 754	2 931	6.4%
Jet fuel	939	928	946	721	700	843	20.4%
Electricity	259	275	246	247	244	257	5.3%

**Services&households**


Total	13 036	12 801	12 040	13 023	13 078	12 501	-4.4%
<i>among which:</i> Solid fuels	-	-	-	-	-	-	-
Gas oil	2 468	2 778	1 320	2 059	2 014	1 553	-22.9%
Natural Gas	141	131	142	131	147	151	2.4%
Renewables	849	634	600	969	978	935	-4.4%
Electricity	5 812	5 898	6 250	6 117	6 062	6 034	-0.5%
Heat	3 411	3 206	3 602	3 621	3 682	3 686	0.1%

### 3.1 Electricity balance

 eurostat	SVERIGE							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation	155 171	145 585	161 616	146 733	135 435	151 727	12.0%	
<i>among which:</i>								
Hydro	71 713	78 619	79 082	66 395	53 598	60 178	12.3%	
Wind	371	457	482	608	679	850	25.2%	
Geothermal	-	-	-	-	-	-	-	
Nuclear	73 188	57 316	72 109	68 111	67 415	77 486	14.9%	
Conventional thermal	9 899	9 193	9 943	11 619	13 743	13 213	-3.9%	
<i>of which:</i>								
Hard coal	2 242	1 636	1 879	2 357	2 846	1 010	-64.5%	
Lignite and peat	-	-	-	-	-	-	-	
Petroleum products	3 094	1 729	2 475	3 089	3 871	1 955	-49.5%	
Natural gas	398	462	361	563	700	749	7.0%	
Derived gases	998	953	1 186	1 106	1 319	811	-38.5%	
Biomass	2 646	4 206	3 881	4 327	5 007	7 943	58.6%	
Industrial wastes	521	207	161	177	-	745	-	
Total net generation	150 783	141 873	157 636	143 233	132 535	148 529	12.1%	
<b>Imports and exports</b>								
Total imports	8 456	18 308	11 164	20 110	24 287	15 646	-35.6%	
Total exports	15 938	13 630	18 454	14 754	11 457	17 750	54.9%	
<b>Consumption and losses</b>								
Consumption of the energy branch	10 504	10 409	9 828	8 892	8 063	8 274	2.6%	
<i>of which:</i>								
Consumption for pumped-storage	10	14	10	16	25	23	-8.0%	
Network losses	10 570	11 094	11 803	11 883	10 701	10 933	2.2%	
Final energy consumption	126 580	128 725	132 673	131 279	129 443	130 361	0.7%	
<i>of which:</i>								
Industry	55 971	56 938	57 119	57 273	56 107	57 194	1.9%	
<i>among which:</i>								
Iron&steel industry	4 963	5 365	4 959	4 873	4 850	4 947	2.0%	
Non-ferrous metals	2 664	2 799	2 931	2 972	2 943	3 002	2.0%	
Chemical industry	5 998	5 423	5 543	5 560	6 663	6 796	2.0%	
Non-met. mineral prod.	1 127	1 174	1 441	1 177	1 133	1 156	2.0%	
Food, drink, tobacco	2 512	2 989	2 849	2 683	2 470	2 519	2.0%	
Pulp, paper and print	21 584	23 564	23 209	22 729	22 590	23 042	2.0%	
Engineering & metal	4 214	4 348	4 488	4 403	4 173	4 257	2.0%	
Other industries	10 122	8 375	8 730	9 929	8 379	8 511	1.6%	
Transport	3 016	3 194	2 862	2 867	2 838	2 989	5.3%	
Services & households etc.	67 593	68 593	72 692	71 139	70 498	70 178	-0.5%	
<i>among which:</i>								
Households	40 163	42 020	42 180	41 473	41 998	41 375	-1.5%	




## 3.2 Electrical capacity, fuel inputs and heat


		SVERIGE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	34 098	33 721	33 835	32 503	33 361	33 649	0.9%
<i>by source:</i>								
Conventional thermal		7 375	7 526	7 536	6 462	7 378	7 424	0.6%
<i>of which:</i>								
Steam		5 314	5 337	5 312	4 749	5 669	5 553	-2.0%
Gas turbine		1 812	1 932	1 932	1 519	1 515	1 681	11.0%
Combined cycle		146	175	175	88	88	111	26.1%
Internal combustion		103	82	117	106	106	79	-25.5%
Nuclear		10 076	9 461	9 436	9 452	9 441	9 471	0.3%
Hydro		16 451	16 525	16 568	16 232	16 143	16 302	1.0%
<i>among which:</i>								
Pumped storage		19	19	45	45	45	36	-20.0%
Wind		196	209	295	357	399	452	13.3%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		33 065	32 714	32 824	31 421	32 340	32 662	1.0%
Autoproducers		1 018	1 010	1 011	1 085	1 024	987	-3.6%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	3 436	3 177	3 504	3 862	4 519	4 489	-0.7%
<i>among which:</i>								
Hard coal		432	361	306	390	459	389	-15.3%
Lignite and peat		115	106	135	195	227	266	17.2%
Petroleum products		589	276	405	543	654	457	-30.1%
Natural gas		233	215	204	262	245	232	-5.6%
Renewables		1 777	1 996	2 190	2 162	2 625	2 838	8.1%
Heating plants		1 414	1 188	1 546	1 450	1 376	1 272	-7.6%
<i>among which:</i>								
Hard coal		3	1	1	1	1	1	-53.8%
Lignite and peat		126	95	93	132	101	117	16.0%
Petroleum products		242	176	236	209	214	145	-32.5%
Natural gas		79	40	92	71	53	46	-13.8%
Renewables		922	872	1 122	1 034	1 006	961	-4.5%
<b>Heat production and consumption</b>								
Total heat production	TJ	3 982	3 777	4 157	4 146	4 228	4 261	0.8%
<i>among which: in heating plants</i>		1 968	1 874	1 918	1 779	1 730	1 540	-10.9%
Heat consumption		3 767	3 550	3 987	4 012	4 063	4 091	0.7%
<i>of which: in industry</i>		356	344	385	391	381	405	6.4%
<i>in households and services</i>		3 411	3 206	3 602	3 621	3 682	3 686	0.1%
<i>among which: in households</i>		2 233	2 081	2 362	2 371	2 408	2 440	1.3%

## 4.1 Crude oil and feedstocks


eurostat	in 1 000 t	SVERIGE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		19 693	20 901	20 040	18 727	20 502	20 975	2.3%
Total exports		439	558	536	400	231	257	11.3%
Stock changes		30	-115	-177	396	-423	12	102.8%
Refinery intake		21 294	21 569	20 918	19 968	20 312	21 374	5.2%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		3 938	3 892	5 341	3 231	3 968	2 594	-34.6%
Near and Middle East		3 019	2 596	4 227	1 979	3 151	1 711	-45.7%
Africa		34	296	279	237	-	-	-
<i>by country of origin:</i>								
Algeria		34	-	27	-	-	-	-
Nigeria		-	266	252	130	-	-	-
Saudi Arabia		1 065	832	1 146	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		10 459	9 601	9 143	6 169	7 650	5 418	-29.2%
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	19 200	19 200	:	:	:	:	
<i>among which:</i>								
Cracking and others		6 540	6 540	:	:	:	:	
Reforming		3 500	3 500	:	:	:	:	

## 4.2 Petroleum products


 eurostat	SVERIGE						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	21 160	21 368	19 846	18 542	18 990	19 822	4.4%
among which:							
Motor spirit	4 303	4 394	4 020	3 987	4 309	4 467	3.7%
Kerosene and jet fuel	72	112	143	57	109	208	90.8%
Naphtha	1 847	1 320	1 026	1 027	664	295	-55.6%
Gas/diesel oil	7 452	7 765	7 677	6 964	6 942	7 231	4.2%
Residual fuel oil	5 673	6 403	5 519	5 069	5 170	5 450	5.4%
Total imports	5 571	5 485	6 019	6 475	7 417	6 564	-11.5%
Total exports	9 281	10 388	9 179	8 902	9 774	10 687	9.3%
Bunkers	1 553	1 396	1 429	1 239	1 660	1 954	17.7%
Stock changes	951	190	175	463	-610	381	162.5%
Gross inland consumption	-4 312	-6 109	-4 414	-3 203	-4 627	-5 696	-23.1%
<b>Imports and exports</b>							
Imports by origin							
among which:							
Netherlands	63	76	42	6	61	40	-34.4%
United Kingdom	403	590	625	559	778	387	-50.3%
Norway	837	442	963	2 076	2 426	2 378	-2.0%
OPEC	110	101	33	115	102	52	-49.0%
Imports by product							
among which:							
Motor spirit	1 600	1 593	1 619	1 717	1 753	1 679	-4.2%
Kerosene and jet fuel	694	754	839	518	596	784	31.5%
Gas/diesel oil	1 548	1 282	1 267	1 909	2 311	1 894	-18.0%
Residual fuel oil	475	519	715	544	759	329	-56.7%
Exports by product							
among which:							
Motor spirit	2 062	1 993	1 705	1 607	1 963	2 360	20.2%
Kerosene and jet fuel	22	45	-	17	15	69	360.0%
Gas/diesel oil	3 651	3 859	3 771	3 574	3 810	4 290	12.6%
Residual fuel oil	2 752	3 538	3 041	2 617	2 860	2 937	2.7%
<b>Consumption</b>							
Inputs to electricity plants	609	285	419	560	675	469	-30.5%
Inputs to heating plants	246	178	240	212	218	147	-32.6%
Non-energy use	1 697	1 452	2 081	2 202	1 961	1 987	1.3%
Final energy consumption	12 223	12 361	10 933	11 095	11 542	11 342	-1.7%
Industry	1 967	1 897	1 485	1 507	1 800	1 992	10.7%
among which <i>by product</i> :							
Gas/diesel oil	425	429	273	270	267	407	52.4%
Residual fuel oil	899	858	893	875	955	961	0.6%

 eurostat	SVERIGE							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	309	301	303	325	327	341	4.3%	
Non-ferrous metals	28	36	23	16	21	16	-23.8%	
Chemical industry	311	308	84	27	253	332	31.2%	
Non-met. mineral prod.	171	174	130	163	148	152	2.7%	
Food, drink, tobacco	180	133	150	158	181	165	-8.8%	
Pulp, paper and print	500	500	485	497	548	550	0.4%	
Engineering & metal	181	152	149	155	168	189	12.5%	
Other industries	185	224	65	79	68	162	138.2%	
<b>Transport</b>	7 483	7 590	8 052	7 458	7 585	7 702	1.5%	
<i>among which:</i>								
Motor spirit	4 040	3 982	3 965	4 092	4 109	3 911	-4.8%	
Jet fuel	914	904	921	702	682	821	20.4%	
Diesel oil	2 493	2 665	3 123	2 620	2 726	2 901	6.4%	
<b>Services &amp; households etc.</b>	2 773	2 874	1 396	2 130	2 157	1 648	-23.6%	
<i>among which:</i>								
Gas oil	2 443	2 750	1 307	2 038	1 993	1 537	-22.9%	
Residual fuel oil	289	83	35	46	124	74	-40.3%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	1 362	1 474	1 611	1 269	1 692	1 680	-0.7%	
Petroleum products	3 823	3 719	3 759	3 296	3 746	3 378	-9.8%	


## 5. Natural gas

 eurostat	SVERIGE								
	in TJ (GCV)		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>									
Primary production		-	-	-	-	-	-	-	-
Total imports		36 905	36 092	40 720	41 439	41 322	41 142	-0.4%	
Total exports		-	-	-	-	-	-	-	
Stock changes		-	-	-	-	-	-	-	
Gross inland consumption		36 905	36 092	40 720	41 439	41 322	41 142	-0.4%	
<b>Imports</b>									
Imports by origin									
<i>among which:</i>									
CIS		-	-	-	-	-	-	-	
Algeria		-	-	-	-	-	-	-	
Norway		-	-	-	-	-	-	-	
<b>Consumption</b>									
Inputs to electricity plants		10 858	9 990	9 482	12 204	11 415	10 781	-5.6%	
Inputs to heat plants		3 654	1 876	4 297	3 294	2 483	2 141	-13.8%	
Consumption of energy branch		3	166	77	183	159	188	18.2%	
Distribution losses		-	-	-	-	-	-	-	
Non-energy use		-	-	-	-	-	-	-	
Industry		14 275	14 075	15 831	14 703	15 448	14 605	-5.5%	
<i>among which:</i>									
Iron&steel industry		882	1 105	1 009	1 135	1 009	1 303	29.1%	
Non-ferrous metals		402	409	378	294	252	378	50.0%	
Chemical industry		1 488	3 068	2 775	3 364	3 280	3 868	17.9%	
Non-met. mineral prod.		752	1 636	2 943	2 186	2 102	1 976	-6.0%	
Food, drink, tobacco		5 894	4 950	4 835	4 877	4 793	4 247	-11.4%	
Pulp, paper and print		1 778	1 391	2 313	1 430	2 313	1 598	-30.9%	
Engineering & metal		2 077	991	903	855	883	714	-19.1%	
Other industries		764	402	549	478	606	479	-21.0%	
Transport		130	472	479	560	813	717	-11.8%	
Services & households etc.		6 574	6 076	6 592	6 096	6 856	7 019	2.4%	
<i>among which:</i>									
Households		4 031	3 526	4 215	2 194	1 814	1 985	9.4%	
Services		1 551	1 534	1 414	2 912	4 012	4 001	-0.3%	


## 6.1 Hard coal

 eurostat	SVERIGE						
	1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 t</i>							
<b>Primary production and supply</b>							
Primary production	-	-	-	-	-	-	-
Total imports	2 930	3 092	3 064	2 760	3 195	3 186	-0.3%
Total exports	2	2	2	2	2	8	300.0%
Stock changes	-69	-229	209	263	-270	151	155.9%
Gross inland consumption	2 859	2 861	3 271	3 021	2 923	3 329	13.9%
<b>Imports</b>							
Imports by origin							
<i>among which:</i>							
USA	548	595	487	319	346	428	23.7%
Poland	894	698	280	358	570	372	-34.7%
CIS	188	321	345	474	677	778	14.9%
Australia	1 009	1 073	1 167	1 085	1 208	1 472	21.9%
South Africa	-	-	-	-	-	-	-
Colombia	115	120	166	83	-	-	-
<b>Consumption</b>							
Inputs to electricity plants	600	501	506	588	691	601	-13.0%
Inputs to heat plants	5	1	2	1	2	1	-50.0%
Consumption of energy branch	-	-	-	-	-	-	-
Industry	656	767	872	930	681	688	1.0%
<i>among which:</i>							
Iron&steel industry	307	313	483	507	291	234	-19.6%
Non-ferrous metals	57	65	56	58	52	50	-3.8%
Chemical industry	-	-	-	-	-	-	-
Non-met. mineral prod.	179	252	252	240	197	254	28.9%
Food, drink, tobacco	21	19	-	-	-	-	-
Pulp, paper and print	30	31	15	15	11	25	127.3%
Engineering & metal	-	-	-	-	-	-	-
Other industries	1	2	-	-	-	-	-
Services & households etc.	-	-	-	-	-	-	-
<b>Structural data</b>							
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-


## 6.2 Coal derivatives and peat

		SVERIGE						04/03
		1999	2000	2001	2002	2003	2004	
<b>Production</b>								
<b>Solid fuels</b>	<i>in 1 000 t</i>							
Coke		1 145	1 146	1 148	1 074	1 288	1 372	6.5%
Patent Fuel		-	-	-	-	-	-	-
Lignite and peat		835	773	910	1 148	1 152	1 276	10.8%
Brown coal briquettes		-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>							
Coke-oven gas		10 021	9 684	10 331	9 467	8 413	9 745	15.8%
Blast-furnace gas		16 712	15 010	17 114	17 807	17 262	18 153	5.2%
Gasworks gas		2 003	1 875	1 948	1 914	1 962	2 030	3.5%
<b>Consumption</b>								
<b>Solid fuels</b>	<i>in 1 000 t</i>							
Coke		856	947	854	1 077	1 118	1 116	-0.2%
<i>among which:</i>								
Iron & steel industry		784	873	788	1 008	1 055	1 053	-0.2%
Services & households		-	-	-	-	-	-	-
Patent Fuel		-	-	-	-	-	-	-
<i>among which:</i>								
Services & households		-	-	-	-	-	-	-
Lignite and peat		26	10	33	26	39	34	-12.8%
<i>among which:</i>								
Industry		26	10	33	26	39	34	-12.8%
Services & households		-	-	-	-	-	-	-
Brown coal briquettes		5	3	8	-	2	2	0.0%
<i>among which:</i>								
Industry		5	3	8	-	2	2	0.0%
Services & households		-	-	-	-	-	-	-
<b>Total derived gases</b>	<i>in TJ (GCV)</i>							
Coke-oven gas		4 524	4 395	4 309	4 382	3 914	4 399	12.4%
Blast-furnace gas		4 417	4 207	5 175	4 702	5 262	5 039	-4.2%
Gasworks gas		1 840	1 599	1 720	1 676	1 734	1 739	0.3%
Inputs to electricity plants		9 727	8 378	9 974	10 966	10 796	11 967	10.8%
Inputs to heat plants		132	192	113	177	11	131	1090.9%
Consumption of energy branch		4 995	4 794	4 933	4 390	4 302	4 763	10.7%
Consumption in industry		9 226	8 801	9 688	9 261	9 350	9 741	4.2%

## 7. Renewable energy sources


		SVERIGE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	14 129	15 132	14 813	13 936	13 440	14 131	5.1%
Hydro (excl. pumping)		6 164	6 757	6 798	5 706	4 604	5 170	12.3%
Wind		31	39	41	52	58	73	25.2%
Solar		5	5	6	4	5	5	0.5%
Geothermal		-	-	-	-	-	-	-
Biomass		7 929	8 330	7 967	8 174	8 773	8 883	1.3%
	<i>among which:</i>							
Wood, wood-waste		7 406	7 733	7 347	7 575	8 059	8 198	1.7%
Municipal solid waste		421	498	495	480	602	635	5.6%
Biogas		102	99	125	119	112	35	-68.5%
Gross inland consumption		14 129	15 132	14 813	13 936	13 440	14 131	5.1%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		2 699	2 868	3 312	3 195	3 631	3 799	4.6%
	<i>among which:</i>							
Wood, wood-waste		2 176	2 271	2 692	2 684	3 001	3 114	3.8%
Municipal waste		421	498	495	480	602	635	5.6%
Biogas		102	99	125	31	28	35	24.3%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	5 235	5 467	4 684	4 983	5 147	5 089	-1.1%
	<i>by sector:</i>							
Industry		4 386	4 833	4 084	4 014	4 169	4 154	-0.4%
Services & households etc.		849	634	600	969	978	935	-4.4%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		5 230	5 462	4 678	4 979	5 142	5 085	-1.1%
	<i>among which:</i>							
Wood, wood-waste		5 230	5 462	4 678	4 891	5 059	5 085	0.5%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	87	84	-	-
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	1	-	-	-	-
Hydro with installed capacity < 1 MW		664	753	612	517	547	506	-7.5%
Hydro with installed capacity > 1 & <10 MW		3 291	3 427	3 195	2 636	2 133	3 003	40.8%
Hydro with installed capacity > 10 MW		67 735	74 404	75 338	63 204	50 343	56 613	12.5%
Wood, Wood-waste		2 507	3 943	3 635	4 023	5 220	6 614	26.7%
Municipal waste		130	231	225	277	312	1 233	295.2%
Biogas		9	32	21	27	36	62	72.2%



		SVERIGE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		3	3	1	3	3	3	0.0%
Hydro with installed capacity < 1 MW		168	178	174	162	173	99	-42.8%
Hydro with installed capacity > 1 & <10 MW		775	741	881	774	772	724	-6.2%
Hydro with installed capacity > 10 MW		15 470	15 587	15 468	15 251	15 153	15 479	2.2%
Wood, Wood-waste		1 490	1 490	1 778	1 670	1 670	1 670	0.0%
Municipal waste		77	77	171	170	170	264	55.3%
Biogas		18	18	19	20	20	20	0.0%
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	-	-	-	-	-	18	
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	185	207	229	250	185	185	0.0%


# 1. Energy economy

## Key figures and energy indicators

		UNITED KINGDOM					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	276 860	268 199	257 986	254 338	242 809	222 647
Net energy imports		-46 945	-39 031	-21 320	-27 558	-13 764	12 093
Net oil imports		-55 324	-45 515	-35 630	-38 743	-26 929	-12 792
Net gas imports		-5 539	-9 311	-8 340	-6 983	-7 022	1 464
Gross inland energy consumption		228 754	230 316	231 746	226 425	230 454	232 144
Final energy consumption		151 013	151 151	152 963	148 466	150 601	153 045
Industry		36 232	35 531	36 322	33 988	35 100	35 061
Transport		51 822	52 066	51 087	51 614	52 184	53 471
Services and households etc.		62 959	63 554	65 554	62 864	63 316	64 513
Gross electricity generation	GWh	368 363	377 309	384 682	387 506	398 671	395 853
Final electricity consumption		322 770	329 533	332 995	333 337	337 416	340 042
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	976 993	1 016 406	1 039 010	1 059 783	1 086 471	1 120 440
Population	1000 per.	58 580	58 785	59 000	59 218	59 438	59 700
Industry added value	Mio EUR	260 008	264 669	261 519	258 145	259 494	262 649
Total imports (current prices)	Mio EUR	354 766	386 765	405 296	423 656	431 250	460 216
among which:							
All energy commodities		7 960	15 710	16 265	15 139	16 083	23 814
Oil products		6 295	13 467	13 540	12 815	14 029	19 846
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	234.1	226.6	223.0	213.7	212.1	207.2
Final energy consumption / GDP(95)		154.6	148.7	147.2	140.1	138.6	136.6
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		139.4	134.2	138.9	131.7	135.3	133.5
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		31.0	29.4	28.9	25.7	25.3	25.3
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	3 905	3 918	3 928	3 824	3 877	3 889
Final energy consumption / capita		2 578	2 571	2 593	2 507	2 534	2 564
Household consumption / capita		723	733	755	742	746	750
Final electricity consumption / capita	kWh/cap.	5 510	5 606	5 644	5 629	5 677	5 696
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	-20.3	-16.8	-9.1	-12.1	-5.9	5.2
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	66.0	65.6	66.0	65.6	65.3	65.9
Efficiency of thermal power stations		44.2	43.8	43.0	44.0	43.8	44.2

## 2. Energy balance

### Principal aggregates by product

 eurostat	UNITED KINGDOM						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	276 860	268 199	257 986	254 338	242 809	222 647	-8.3%
<i>among which:</i> Hard coal	21 533	18 221	18 708	17 547	16 490	15 300	-7.2%
Lignite and peat	-	-	-	-	-	-	-
Crude oil	139 150	127 882	118 245	117 858	107 641	96 826	-10.0%
Natural Gas	89 198	97 554	95 257	93 408	92 634	86 406	-6.7%
Nuclear heat	24 540	21 942	23 182	22 661	22 877	20 636	-9.8%
Hydro-electricity	461	437	349	412	278	424	52.7%
Biomass	1 897	2 069	2 148	2 327	2 759	2 863	3.8%
<b>Imports</b>							
Total	75 166	87 766	97 178	96 826	100 063	117 481	17.4%
<i>among which:</i> Hard coal	13 053	14 946	22 307	17 910	19 874	22 463	13.0%
Crude oil and feedstocks	45 563	55 104	54 278	57 902	54 980	63 468	15.4%
Petroleum products	14 011	14 134	17 207	15 369	17 421	19 506	12.0%
Natural Gas	995	2 014	2 358	4 681	6 678	10 295	54.2%
Electricity	1 247	1 230	917	790	440	841	91.1%
<b>Exports</b>							
Total	122 111	126 798	118 497	124 384	113 827	105 388	-7.4%
<i>among which:</i> Crude oil and feedstocks	93 171	94 129	88 089	88 580	76 006	65 485	-13.8%
Petroleum products	21 728	20 624	19 025	23 434	23 324	30 281	29.8%
Natural gas	6 534	11 325	10 697	11 665	13 700	8 831	-35.5%
Electricity	23	12	23	66	254	197	-22.5%
<b>Gross inland consumption</b>							
Total	228 754	230 316	231 746	226 425	230 454	232 144	0.7%
<i>among which:</i> Solid fuels	34 216	35 722	39 059	35 660	38 245	38 257	0.0%
Crude oil and petrol. prod.	82 102	81 399	79 331	78 627	80 054	81 548	1.9%
Natural gas	84 197	87 399	86 650	85 855	85 882	87 388	1.8%
Nuclear Energy	24 540	21 942	23 182	22 661	22 877	20 636	-9.8%
Renewables	2 438	2 599	2 594	2 864	3 168	3 671	15.9%
<b>Transformation input</b>							
Total	176 128	177 907	174 864	173 992	176 065	180 098	2.3%
<i>among which:</i> Crude oil and feedstocks	89 739	89 299	84 472	86 176	85 960	91 306	6.2%
Petroleum products	646	1 471	1 604	936	247	216	-12.7%
Hard coal	30 673	33 997	36 211	33 414	35 876	34 620	-3.5%
Lignite and peat	-	-	-	-	-	-	-
Renewables	1 273	1 515	1 587	1 708	2 060	2 352	14.2%
<b>Transformation output</b>							
Total	128 503	128 958	124 257	125 344	126 854	131 828	3.9%
<i>among which:</i> Electricity	30 890	31 692	32 443	32 572	33 656	33 219	-1.3%
Heat	2 498	2 515	2 330	2 107	1 907	2 203	15.5%



in 1 000 toe

## UNITED KINGDOM

1999 2000 2001 2002 2003 2004 04/03

### Final energy consumption

Total	151 013	151 151	152 963	148 466	150 601	153 045	1.6%
among which: Solid fuels	6 495	5 012	5 844	4 693	4 454	4 729	6.2%
Petroleum products	63 107	62 480	62 408	61 943	62 924	65 183	3.6%
Natural Gas	49 633	51 369	52 278	49 709	50 999	50 436	-1.1%
Renewables	631	565	573	637	719	729	1.3%
Electricity	27 753	28 335	28 632	28 662	29 013	29 238	0.8%

### Final energy consumption by sector

#### Industry

Total	36 232	35 531	36 322	33 988	35 100	35 061	-0.1%
among which: Solid fuels	4 367	3 388	4 047	3 188	3 391	3 654	7.8%
Petroleum Products	6 423	6 019	6 439	6 106	7 052	8 033	13.9%
Natural Gas	13 683	14 196	14 153	12 782	12 863	11 239	-12.6%
Renewables	280	210	211	211	282	285	0.9%
Electricity	9 532	9 780	9 605	9 677	9 828	10 073	2.5%


#### Transport

Total	51 822	52 066	51 087	51 614	52 184	53 471	2.5%
among which: Motor spirit	23 792	22 757	22 060	21 919	20 980	20 528	-2.2%
Diesel oil	17 031	17 358	17 622	18 049	19 296	19 717	2.2%
Jet fuel	10 186	11 140	10 557	10 782	11 034	12 158	10.2%
Electricity	736	747	760	729	712	691	-3.0%


#### Services&households

Total	62 959	63 554	65 554	62 864	63 316	64 513	1.9%
among which: Solid fuels	2 127	1 624	1 796	1 506	1 063	1 075	1.1%
Gas oil	2 290	2 136	1 845	1 615	957	1 228	28.4%
Natural Gas	35 950	37 174	38 125	36 927	38 136	39 197	2.8%
Renewables	351	356	362	425	437	444	1.5%
Electricity	17 485	17 808	18 268	18 255	18 473	18 475	0.0%
Heat	1 412	1 416	1 326	763	763	952	24.7%


### 3.1 Electricity balance

 eurostat	UNITED KINGDOM							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation	368 363	377 309	384 682	387 506	398 671	395 853	-0.7%	
<i>among which:</i>								
Hydro	8 263	7 780	6 411	7 439	5 962	7 579	27.1%	
Wind	850	946	965	1 256	1 285	1 935	50.6%	
Geothermal	-	-	-	-	-	-	-	
Nuclear	95 133	85 063	89 870	87 848	88 686	79 999	-9.8%	
Conventional thermal	264 117	283 520	287 436	290 963	302 738	306 340	1.2%	
<i>of which:</i>								
Hard coal	106 112	119 960	131 466	124 297	138 331	132 004	-4.6%	
Lignite and peat	-	-	-	-	-	-	-	
Petroleum products	5 685	8 548	7 232	7 108	4 594	4 915	7.0%	
Natural gas	143 052	148 237	141 990	152 317	148 871	156 104	4.9%	
Derived gases	5 289	2 352	1 692	1 614	1 982	1 937	-2.3%	
Biomass	3 979	4 349	4 984	5 285	6 718	7 880	17.3%	
Industrial wastes	-	74	72	342	2 242	3 500	56.1%	
Total net generation	351 670	360 975	367 567	370 335	380 938	378 456	-0.7%	
<b>Imports and exports</b>								
Total imports	14 507	14 308	10 663	9 182	5 119	9 784	91.1%	
Total exports	263	134	264	768	2 959	2 294	-22.5%	
<b>Consumption and losses</b>								
Consumption of the energy branch	27 147	28 015	27 751	29 083	29 157	28 392	-2.6%	
<i>of which:</i>								
Consumption for pumped-storage	872	805	854	811	812	848	4.4%	
Network losses	29 789	31 241	31 980	31 029	31 524	32 035	1.6%	
Final energy consumption	322 770	329 533	332 995	333 337	337 416	340 042	0.8%	
<i>of which:</i>								
Industry	110 856	113 741	111 709	112 548	114 296	117 149	2.5%	
<i>among which:</i>								
Iron&steel industry	9 779	9 898	8 428	6 534	5 434	5 412	-0.4%	
Non-ferrous metals	5 895	6 012	7 172	6 296	6 636	7 277	9.7%	
Chemical industry	21 348	22 947	20 830	22 613	22 653	23 170	2.3%	
Non-met. mineral prod.	7 265	7 414	7 186	6 997	7 651	7 849	2.6%	
Food, drink, tobacco	12 617	12 003	11 120	11 979	11 949	12 324	3.1%	
Pulp, paper and print	11 068	11 345	11 216	11 831	12 749	13 253	4.0%	
Engineering & metal	20 429	21 105	19 265	19 928	20 518	21 016	2.4%	
Other industries	18 704	19 108	23 286	22 951	23 263	23 452	0.8%	
Transport	8 558	8 684	8 834	8 479	8 280	8 034	-3.0%	
Services & households etc.	203 356	207 108	212 452	212 310	214 840	214 859	0.0%	
<i>among which:</i>								
Households	110 308	111 842	115 336	114 534	115 761	115 526	-0.2%	


## 3.2 Electrical capacity, fuel inputs and heat

		UNITED KINGDOM						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	75 611	78 569	79 729	76 985	78 538	80 362	2.3%
<i>by source:</i>								
Conventional thermal		58 033	61 398	62 520	59 933	61 872	63 921	3.3%
<i>of which:</i>								
Steam		37 990	37 273	37 218	32 192	32 921	32 735	-0.6%
Gas turbine		2 017	2 026	2 010	2 435	2 170	2 512	15.8%
Combined cycle		17 058	21 138	22 294	23 654	25 535	26 571	4.1%
Internal combustion		171	176	172	167	170	173	1.8%
Nuclear		12 956	12 486	12 486	12 486	12 098	11 852	-2.0%
Hydro		4 265	4 273	4 296	4 254	4 256	4 248	-0.2%
<i>among which:</i>								
Pumped storage		2 788	2 788	2 788	2 788	2 788	2 788	0.0%
Wind		357	412	427	312	312	341	9.3%
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		70 057	72 030	73 219	70 615	71 746	73 308	2.2%
Autoproducers		5 349	6 541	6 269	6 376	6 799	7 063	3.9%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	51 389	55 606	57 413	56 858	59 403	59 640	0.4%
<i>among which:</i>								
Hard coal		24 224	27 346	30 369	28 410	31 205	30 067	-3.6%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		646	806	962	696	96	141	46.2%
Natural gas		24 454	25 151	23 980	25 533	25 124	26 171	4.2%
Renewables		1 169	1 410	1 516	1 637	2 060	2 352	14.2%
Heating plants		2 820	3 395	3 130	2 786	2 162	2 930	35.5%
<i>among which:</i>								
Hard coal		459	505	451	621	367	323	-12.0%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	665	642	240	151	75	-50.3%
Natural gas		2 026	1 926	1 774	1 703	1 535	2 465	60.6%
Renewables		104	105	71	71	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	2 498	2 515	2 330	2 107	1 907	2 203	15.5%
<i>among which: in heating plants</i>		2 498	2 515	2 330	2 107	1 907	2 203	15.5%
Heat consumption		2 498	2 515	2 328	2 101	1 901	2 189	15.1%
<i>of which: in industry</i>		1 086	1 099	1 001	1 338	1 138	1 237	8.7%
<i>in households and services</i>		1 412	1 416	1 326	763	763	952	24.7%
<i>among which: in households</i>		44	44	32	33	12	52	344.3%


## 4.1 Crude oil and feedstocks

 eurostat		UNITED KINGDOM						
		1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 t</i>								
<b>Primary production and supply</b>								
Primary production		137 099	126 245	116 679	115 944	106 073	95 374	-10.1%
Total imports		44 891	54 387	53 551	56 968	54 177	62 517	15.4%
Total exports		91 797	92 918	86 918	87 144	74 898	64 503	-13.9%
Stock changes		-198	1 098	-614	142	1 125	-134	-111.9%
Refinery intake		88 415	88 144	83 343	84 784	84 706	89 938	6.2%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		4 145	4 050	3 672	4 490	4 994	4 480	-10.3%
Near and Middle East		1 587	2 365	2 022	2 991	2 751	1 604	-41.7%
Africa		2 411	2 454	1 526	1 283	1 334	4 171	212.7%
<i>by country of origin:</i>								
Algeria		878	564	888	1 027	1 072	1 471	37.2%
Nigeria		460	-	116	-	130	248	90.9%
Saudi Arabia		698	2 053	1 531	2 041	2 668	1 357	-49.1%
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		25 716	32 179	27 972	29 493	32 578	39 769	22.1%
<b>Refining capacity</b>								
Capacity at the end of year	<i>1 000 t/year</i>	88 520	88 820	:	:	:	:	
<i>among which:</i>								
Cracking and others		40 820	45 470	:	:	:	:	
Reforming		13 080	12 910	:	:	:	:	


## 4.2 Petroleum products

 eurostat	UNITED KINGDOM						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	86 734	86 341	82 092	83 998	84 528	89 826	6.3%
<i>among which:</i>							
Motor spirit	25 246	23 470	21 556	22 972	22 653	24 620	8.7%
Kerosene and jet fuel	10 802	9 562	8 998	8 871	8 798	9 228	4.9%
Naphtha	2 451	3 099	3 463	3 174	3 516	3 176	-9.7%
Gas/diesel oil	25 869	28 298	26 796	28 393	27 579	28 839	4.6%
Residual fuel oil	12 195	11 621	11 912	10 551	11 517	12 988	12.8%
Total imports	13 896	14 212	16 978	15 269	17 287	19 449	12.5%
Total exports	21 655	20 677	19 088	23 444	23 323	30 270	29.8%
Bunkers	2 330	2 079	2 218	1 913	1 764	2 085	18.2%
Stock changes	573	-336	-598	1 226	-144	-290	-101.4%
Gross inland consumption	-9 516	-8 880	-4 926	-8 862	-7 944	-13 196	-66.1%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	1 167	1 666	1 338	533	532	1 053	97.9%
United Kingdom	-	-	-	-	-	-	-
Norway	2 175	2 094	564	164	435	1 431	228.9%
OPEC	1 699	3 001	4 378	2 694	3 147	6 880	118.6%
Imports by product							
<i>among which:</i>							
Motor spirit	2 508	2 459	3 618	2 316	2 034	2 194	7.9%
Kerosene and jet fuel	3 157	4 761	6 320	6 999	7 673	8 018	4.5%
Gas/diesel oil	5 425	3 815	4 098	3 219	3 503	4 216	20.4%
Residual fuel oil	655	596	1 011	927	1 208	1 552	28.5%
Exports by product							
<i>among which:</i>							
Motor spirit	6 330	4 708	4 453	5 538	5 608	7 342	30.9%
Kerosene and jet fuel	992	686	623	990	1 143	1 171	2.4%
Gas/diesel oil	6 668	6 416	5 287	6 352	5 528	6 623	19.8%
Residual fuel oil	4 928	5 360	5 441	5 780	6 385	8 936	40.0%
<b>Consumption</b>							
Inputs to electricity plants	671	834	955	670	100	147	47.0%
Inputs to heating plants	-	694	670	250	157	78	-50.3%
Non-energy use	10 734	10 064	8 844	9 588	10 478	10 583	1.0%
Final energy consumption	61 323	60 669	60 624	60 212	61 209	63 477	3.7%
Industry							
<i>among which by product:</i>							
Gas/diesel oil	2 886	2 988	3 510	3 305	3 656	3 488	-4.6%
Residual fuel oil	1 314	720	905	1 237	1 512	2 111	39.6%




 eurostat	UNITED KINGDOM							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	490	391	352	264	247	330	33.5%	
Non-ferrous metals	38	38	74	80	59	40	-32.8%	
Chemical industry	310	272	316	314	360	120	-66.8%	
Non-met. mineral prod.	212	242	268	244	243	186	-23.5%	
Food, drink, tobacco	371	205	257	308	307	319	4.0%	
Pulp, paper and print	99	41	79	109	118	55	-53.0%	
Engineering & metal	426	379	468	536	455	260	-42.8%	
Other industries	3 931	3 849	3 958	3 599	4 787	6 580	37.5%	
<b>Transport</b>	49 494	49 746	48 797	49 348	49 960	51 265	2.6%	
<i>among which:</i>								
Motor spirit	22 639	21 654	20 991	20 857	19 963	19 533	-2.2%	
Jet fuel	9 918	10 847	10 279	10 498	10 744	11 838	10.2%	
Diesel oil	16 857	17 181	17 442	17 865	19 099	19 516	2.2%	
<b>Services &amp; households etc.</b>	5 505	5 030	5 469	4 830	4 289	4 254	-0.8%	
<i>among which:</i>								
Gas oil	2 267	2 114	1 826	1 599	947	1 216	28.4%	
Residual fuel oil	541	122	101	170	292	130	-55.4%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	8 021	6 923	7 537	7 389	6 921	6 398	-7.6%	
Petroleum products	6 962	7 294	7 939	6 839	7 094	7 267	2.4%	


## 5. Natural gas

 eurostat	UNITED KINGDOM							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		4 149 504	4 538 225	4 431 339	4 345 335	4 309 312	4 019 594	-6.7%
Total imports		46 303	93 701	109 673	217 769	310 675	478 926	54.2%
Total exports		303 960	526 844	497 640	542 634	637 337	410 803	-35.5%
Stock changes		25 002	-39 265	-12 427	-26 482	12 571	-22 446	-278.6%
Gross inland consumption		3 916 849	4 065 817	4 030 945	3 993 988	3 995 221	4 065 271	1.8%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		25 266	40 607	45 841	136 380	258 317	343 323	32.9%
<b>Consumption</b>								
Inputs to electricity plants		1 137 597	1 170 018	1 115 546	1 187 806	1 168 779	1 217 490	4.2%
Inputs to heat plants		94 267	89 608	82 505	79 232	71 388	114 656	60.6%
Consumption of energy branch		277 103	280 588	329 236	328 536	320 065	314 868	-1.6%
Distribution losses		52 841	73 732	35 118	34 798	20 909	29 426	40.7%
Non-energy use		46 598	49 576	39 200	38 808	36 076	36 076	0.0%
Industry		636 535	660 383	658 411	594 598	598 382	522 831	-12.6%
<i>among which:</i>								
Iron&steel industry		77 839	81 184	75 488	31 648	37 177	31 813	-14.4%
Non-ferrous metals		19 976	19 685	18 781	18 918	17 284	11 246	-34.9%
Chemical industry		168 451	167 605	174 629	159 397	162 526	143 500	-11.7%
Non-met. mineral prod.		52 319	50 018	49 637	50 890	50 616	44 564	-12.0%
Food, drink, tobacco		100 444	99 306	98 788	103 982	103 730	96 988	-6.5%
Pulp, paper and print		45 115	57 906	56 560	55 627	57 258	53 460	-6.6%
Engineering & metal		89 029	91 054	86 976	91 473	90 396	78 134	-13.6%
Other industries		58 284	65 707	70 682	54 450	51 117	39 233	-23.2%
Transport		-	-	-	-	-	-	-
Services & households etc.		1 672 391	1 729 314	1 773 573	1 717 858	1 774 090	1 823 462	2.8%
<i>among which:</i>								
Households		1 289 038	1 331 672	1 364 987	1 354 939	1 391 350	1 427 080	2.6%
Services		379 195	392 163	400 202	354 473	374 374	387 904	3.6%


## 6.1 Hard coal

 eurostat	UNITED KINGDOM							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	36 163	30 600	31 513	29 539	27 759	24 536	-11.6%	
Total imports	20 293	23 445	35 542	28 687	31 833	36 153	13.6%	
Total exports	761	661	549	537	542	621	14.6%	
Stock changes	-1 164	4 681	-2 886	351	2 421	176	-92.7%	
Gross inland consumption	55 445	58 663	64 037	58 490	61 991	60 805	-1.9%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	3 016	2 773	2 610	1 566	1 154	2 061	78.6%	
Poland	1 299	1 107	1 235	1 597	1 902	1 208	-36.5%	
CIS	172	491	4 353	4 368	5 089	9 932	95.2%	
Australia	5 951	6 102	7 076	5 093	5 664	6 175	9.0%	
South Africa	2 921	4 756	10 259	9 876	12 193	10 144	-16.8%	
Colombia	4 136	5 649	6 722	3 547	3 398	3 630	6.8%	
<b>Consumption</b>								
Inputs to electricity plants	41 178	46 390	51 240	48 029	52 753	50 819	-3.7%	
Inputs to heat plants	649	714	750	997	617	543	-12.0%	
Consumption of energy branch	10	12	10	9	6	8	33.3%	
Industry								
<i>among which:</i>								
Iron&steel industry	506	458	765	726	882	895	1.5%	
Non-ferrous metals	346	58	197	151	37	233	529.7%	
Chemical industry	434	85	131	119	240	276	15.0%	
Non-met. mineral prod.	586	220	847	401	295	382	29.5%	
Food, drink, tobacco	215	116	208	119	112	182	62.5%	
Pulp, paper and print	121	53	123	162	89	162	82.0%	
Engineering & metal	111	53	82	49	48	106	120.8%	
Other industries	157	81	58	50	85	66	-22.4%	
Services & households etc.	2 788	1 982	2 429	1 860	1 268	1 435	13.2%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	:	
Number of active hard coal mines (end of year)	21	16	13	13	:	:	:	

## 6.2 Coal derivatives and peat

		UNITED KINGDOM						
		1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>								
<b>Solid fuels</b> <i>in 1 000 t</i>								
Coke	5 870	6 377	5 516	4 559	4 601	4 336	-5.8%	
Patent Fuel	635	537	487	430	392	318	-18.9%	
Lignite and peat	-	-	-	-	-	-	-	
Brown coal briquettes	-	-	-	-	-	-	-	
<b>Derived gases</b> <i>in TJ (GCV)</i>								
Coke-oven gas	45 425	47 236	41 702	34 750	34 740	32 818	-5.5%	
Blast-furnace gas	68 404	63 169	53 150	47 268	56 844	56 772	-0.1%	
Gasworks gas	-	-	-	-	-	-	-	
<b>Consumption</b>								
<b>Solid fuels</b> <i>in 1 000 t</i>								
Coke	4 305	4 085	3 608	3 058	3 298	3 154	-4.4%	
<i>among which:</i>								
Iron & steel industry	3 782	3 548	3 219	2 626	3 069	2 989	-2.6%	
Services & households	121	145	67	178	99	51	-48.5%	
Patent Fuel	572	521	483	413	358	315	-12.0%	
<i>among which:</i>								
Services & households	554	496	446	391	341	303	-11.1%	
Lignite and peat	-	-	-	-	-	-	-	
<i>among which:</i>								
Industry	-	-	-	-	-	-	-	
Services & households	-	-	-	-	-	-	-	
Brown coal briquettes	-	-	-	-	-	-	-	
<i>among which:</i>								
Industry	-	-	-	-	-	-	-	
Services & households	-	-	-	-	-	-	-	
<b>Total derived gases</b> <i>in TJ (GCV)</i>								
Coke-oven gas	13 046	13 349	11 189	7 056	6 415	6 851	6.8%	
Blast-furnace gas	24 308	23 141	26 119	22 381	17 143	16 441	-4.1%	
Gasworks gas	-	-	-	-	-	-	-	
Inputs to electricity plants	38 272	38 146	25 127	24 870	39 082	38 588	-1.3%	
Inputs to heat plants	10 288	8 744	8 748	6 869	4 993	3 049	-38.9%	
Consumption of energy branch	22 918	23 764	19 328	17 208	17 633	16 643	-5.6%	
Consumption in industry	37 354	36 490	37 308	29 437	23 558	23 292	-1.1%	


## 7. Renewable energy sources

		UNITED KINGDOM						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	2 438	2 599	2 594	2 864	3 168	3 479	9.8%
Hydro (excl. pumping)		461	437	349	412	278	424	52.7%
Wind		73	81	83	108	110	166	50.6%
Solar		7	11	14	17	20	25	22.5%
Geothermal		1	1	1	1	1	1	0.0%
Biomass		1 897	2 069	2 148	2 327	2 759	2 863	3.8%
	<i>among which:</i>							
Wood, wood-waste		806	839	776	800	1 034	930	-10.1%
Municipal solid waste		406	420	466	559	596	580	-2.7%
Biogas		685	810	904	968	1 129	1 354	19.9%
Gross inland consumption		2 438	2 599	2 594	2 864	3 168	3 671	15.9%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		1 273	1 515	1 587	1 708	2 060	2 352	14.2%
	<i>among which:</i>							
Wood, wood-waste		266	369	306	329	492	578	17.4%
Municipal waste		383	392	434	471	499	481	-3.7%
Biogas		624	754	847	908	1 068	1 293	21.1%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	631	565	573	637	719	729	1.3%
	<i>by sector:</i>							
Industry		280	210	211	211	282	285	0.9%
Services & households etc.		351	356	362	425	437	444	1.5%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		624	553	559	619	699	703	0.6%
	<i>among which:</i>							
Wood, wood-waste		540	470	470	471	542	544	0.4%
Municipal waste		22	28	32	88	97	99	2.3%
Biogas		61	56	57	60	60	60	0.0%
Geothermal		1	1	1	1	1	1	0.0%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		1	1	2	3	3	4	33.3%
Hydro with installed capacity < 1 MW		72	75	75	35	37	28	-24.3%
Hydro with installed capacity > 1 & <10 MW		135	139	135	169	78	254	225.6%
Hydro with installed capacity > 10 MW		5 129	4 872	3 779	4 583	3 113	4 930	58.4%
Wood, Wood-waste		460	436	773	1 127	1 549	1 867	20.5%
Municipal waste		1 414	1 261	1 361	1 535	1 514	1 630	7.7%
Biogas		2 113	2 555	2 870	3 047	3 619	4 383	21.1%

eurostat	UNITED KINGDOM						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	1	2	3	4	6	8	33.3%
Hydro with installed capacity < 1 MW	25	26	27	33	33	33	0.0%
Hydro with installed capacity > 1 & <10 MW	39	40	41	161	161	126	-21.7%
Hydro with installed capacity > 10 MW	1 413	1 419	1 440	1 409	1 274	1 301	2.1%
Wood, Wood-waste	84	133	133	144	163	163	0.0%
Municipal waste	161	184	189	203	217	223	2.8%
Biogas	400	468	503	535	676	790	16.9%
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	298	312	396	446	583	583	0.0%


# 1. Energy economy

## Key figures and energy indicators

		BULGARIA					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	8 968	9 834	10 290	10 530	10 097	10 168
Net energy imports		8 875	8 681	8 974	8 898	9 180	9 121
Net oil imports		4 220	4 081	4 240	4 446	4 540	4 327
Net gas imports		2 757	2 742	2 731	2 498	2 356	2 389
Gross inland energy consumption		18 145	18 589	19 337	18 962	19 420	18 867
Final energy consumption		8 798	8 578	8 611	8 695	9 365	9 026
Industry		3 675	3 637	3 635	3 484	3 769	3 581
Transport		1 942	1 817	1 918	2 020	2 283	2 366
Services and households etc.		3 180	3 124	3 058	3 191	3 313	3 080
Gross electricity generation	GWh	38 248	40 924	43 968	42 679	42 600	41 620
Final electricity consumption		23 728	24 132	24 530	24 041	25 110	24 882
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	9 134	9 626	10 019	10 510	10 978	11 588
Population	1000 per.	8 230	8 191	7 929	7 892	7 846	7 801
Industry added value	Mio EUR	-	-	-	-	-	-
Total imports (current prices)	Mio EUR	6 179	7 331	8 415	8 829	10 181	11 614
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	1 986.6	1 931.1	1 930.1	1 804.2	1 769.1	1 628.1
Final energy consumption / GDP(95)		963.2	891.2	859.5	827.3	853.1	778.9
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		:	:	:	:	:	:
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		:	:	:	:	:	:
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	2 205	2 269	2 439	2 403	2 475	2 418
Final energy consumption / capita		1 069	1 047	1 086	1 102	1 194	1 157
Household consumption / capita		268	264	254	275	290	270
Final electricity consumption / capita	kWh/cap.	2 883	2 946	3 094	3 046	3 200	3 189
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	48.9	46.5	46.2	46.7	46.9	48.0
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	48.5	46.1	44.5	45.9	48.2	47.8
Efficiency of thermal power stations		42.9	41.4	41.0	41.0	41.7	42.3

## 2. Energy balance

### Principal aggregates by product

 eurostat	BULGARIA						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	8 968	9 834	10 290	10 530	10 097	10 168	0.7%
among which:							
Hard coal	62	60	44	38	21	-	
Lignite and peat	4 123	4 250	4 454	4 390	4 625	4 524	-2.2%
Crude oil	40	42	34	37	30	30	0.6%
Natural Gas	21	12	18	16	13	267	
Nuclear heat	4 079	4 689	5 044	5 216	4 457	4 337	-2.7%
Hydro-electricity	237	230	149	189	260	272	4.6%
Biomass	406	550	547	643	691	737	6.6%
<b>Imports</b>							
Total	10 894	11 281	11 743	11 251	11 262	12 055	7.0%
among which:							
Hard coal	1 927	2 245	2 458	2 419	2 455	2 856	16.3%
Crude oil and feedstocks	5 651	5 346	5 650	5 292	5 189	5 704	9.9%
Petroleum products	255	728	664	760	984	941	-4.4%
Natural Gas	2 757	2 742	2 731	2 498	2 356	2 389	1.4%
Electricity	144	83	94	175	103	64	-37.9%
<b>Exports</b>							
Total	2 018	2 600	2 769	2 353	2 082	2 934	41.0%
among which:							
Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	1 686	1 993	2 073	1 606	1 633	2 317	41.9%
Natural gas	-	-	-	-	-	-	-
Electricity	312	480	689	717	441	569	29.2%
<b>Gross inland consumption</b>							
Total	18 145	18 589	19 337	18 962	19 420	18 867	-2.8%
among which:							
Solid fuels	6 444	6 417	7 246	6 658	7 329	7 247	-1.1%
Crude oil and petrol. prod.	4 460	4 160	4 211	4 389	4 501	4 285	-4.8%
Natural gas	2 686	2 932	2 739	2 404	2 501	2 493	-0.3%
Nuclear Energy	4 079	4 689	5 044	5 216	4 457	4 337	-2.7%
Renewables	635	776	692	828	942	980	4.0%
<b>Transformation input</b>							
Total	18 423	18 593	19 754	19 017	19 108	18 873	-1.2%
among which:							
Crude oil and feedstocks	5 719	5 406	5 660	5 416	5 305	5 852	10.3%
Petroleum products	234	202	217	219	215	196	-9.0%
Hard coal	1 878	2 091	2 229	2 069	2 270	2 194	-3.4%
Lignite and peat	4 678	4 482	4 960	4 585	5 244	4 803	-8.4%
Renewables	-	-	-	-	-	-	-
<b>Transformation output</b>							
Total	11 596	11 297	11 679	11 140	11 389	11 651	2.3%
among which:							
Electricity	3 032	3 265	3 594	3 437	3 379	3 290	-2.7%
Heat	1 310	1 209	1 242	1 175	1 287	1 212	-5.8%



**Final energy consumption**

Total	8 798	8 578	8 611	8 695	9 365	9 026	-3.6%
<i>among which:</i> Solid fuels	947	860	938	1 031	1 132	1 007	-11.1%
Petroleum products	3 282	2 980	3 071	3 139	3 382	3 376	-0.2%
Natural Gas	880	937	779	741	814	792	-2.8%
Renewables	421	547	540	639	682	709	4.0%
Electricity	2 040	2 075	2 109	2 067	2 159	2 139	-0.9%

**Final energy consumption by sector**
**Industry**

Total	3 675	3 637	3 635	3 484	3 769	3 581	-5.0%
<i>among which:</i> Solid fuels	562	565	751	699	764	739	-3.4%
Petroleum Products	978	827	763	789	806	760	-5.6%
Natural Gas	859	912	747	706	767	729	-5.0%
Renewables	23	20	43	44	58	63	7.4%
Electricity	728	738	777	729	791	835	5.6%


**Transport**

Total	1 942	1 817	1 918	2 020	2 283	2 366	3.6%
<i>among which:</i> Motor spirit	827	693	597	642	617	589	-4.6%
Diesel oil	853	768	849	859	1 093	1 236	13.0%
Jet fuel	120	101	148	150	182	172	-5.6%
Electricity	46	39	38	39	37	36	-3.4%


**Services&households**

Total	3 180	3 124	3 058	3 191	3 313	3 080	-7.0%
<i>among which:</i> Solid fuels	386	295	187	331	368	268	-27.2%
Gas oil	342	325	384	326	282	240	-14.7%
Natural Gas	22	25	33	35	48	57	19.7%
Renewables	399	527	497	595	623	646	3.7%
Electricity	1 266	1 298	1 295	1 299	1 331	1 268	-4.7%
Heat	701	605	618	561	612	548	-10.5%


### 3.1 Electricity balance

 eurostat	BULGARIA						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	38 248	40 924	43 968	42 679	42 600	41 620	-2.3%
<i>among which:</i>							
Hydro	2 982	2 951	2 171	2 704	3 301	3 363	1.9%
Wind	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
Nuclear	15 814	18 178	19 553	20 222	17 280	16 815	-2.7%
Conventional thermal	19 452	19 795	22 244	19 753	22 019	21 442	-2.6%
<i>of which:</i>							
Hard coal	3 074	2 972	4 446	3 863	4 525	3 950	-12.7%
Lignite and peat	13 205	13 969	15 051	13 319	14 712	14 952	1.6%
Petroleum products	927	661	579	830	789	822	4.2%
Natural gas	2 010	1 912	1 908	1 539	1 762	1 494	-15.2%
Derived gases	207	266	260	191	225	205	-8.9%
Biomass	29	15	-	-	-	-	-
Industrial wastes	-	-	-	11	6	19	216.7%
Total net generation	34 322	36 884	39 617	38 598	38 474	37 543	-2.4%
<b>Imports and exports</b>							
Total imports	1 670	964	1 092	2 040	1 194	741	-37.9%
Total exports	3 627	5 584	8 017	8 335	5 125	6 620	29.2%
<b>Consumption and losses</b>							
Consumption of the energy branch	5 712	5 551	5 945	5 652	5 701	5 528	-3.0%
<i>of which:</i>							
Consumption for pumped-storage	123	205	214	205	209	92	-56.0%
Network losses	6 469	6 290	6 126	6 178	6 026	5 092	-15.5%
Final energy consumption	23 728	24 132	24 530	24 041	25 110	24 882	-0.9%
<i>of which:</i>							
Industry	8 465	8 584	9 035	8 479	9 197	9 713	5.6%
<i>among which:</i>							
Iron&steel industry	1 369	1 702	1 862	1 644	1 959	1 868	-4.6%
Non-ferrous metals	718	753	782	608	753	820	8.9%
Chemical industry	1 865	1 821	1 843	1 583	1 536	1 580	2.9%
Non-met. mineral prod.	649	624	631	606	638	698	9.4%
Food, drink, tobacco	898	815	893	854	869	1 117	28.5%
Pulp, paper and print	255	262	240	392	464	651	40.3%
Engineering & metal	832	814	837	929	903	862	-4.5%
Other industries	620	527	582	521	691	737	6.7%
Transport	538	453	437	449	436	421	-3.4%
Services & households etc.	14 725	15 095	15 058	15 113	15 477	14 748	-4.7%
<i>among which:</i>							
Households	10 115	9 858	9 751	9 306	9 311	8 770	-5.8%


## 3.2 Electrical capacity, fuel inputs and heat


		BULGARIA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	11 458	12 017	13 854	10 972	11 997	11 978	-0.2%
<i>by source:</i>								
Conventional thermal		5 564	5 673	7 458	6 878	6 759	6 689	-1.0%
<i>of which:</i>								
Steam		5 564	5 673	7 458	6 878	6 759	6 689	-1.0%
Gas turbine		-	-	-	-	-	-	-
Combined cycle		-	-	-	-	-	-	-
Internal combustion		-	-	-	-	-	-	-
Nuclear		3 500	3 480	3 532	2 146	2 723	2 722	0.0%
Hydro		2 394	2 864	2 864	1 948	2 515	2 567	2.1%
<i>among which:</i>								
Pumped storage		432	864	864	864	864	864	0.0%
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		11 066	10 488	12 280	10 513	11 657	11 708	0.4%
Autoproducers		392	545	415	459	340	270	-20.6%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	6 129	6 292	6 937	6 332	6 905	6 582	-4.7%
<i>among which:</i>								
Hard coal		1 028	1 057	1 408	1 288	1 440	1 392	-3.3%
Lignite and peat		3 629	3 904	4 201	3 781	4 183	3 969	-5.1%
Petroleum products		231	160	179	187	175	159	-9.4%
Natural gas		920	824	772	718	742	680	-8.3%
Renewables		-	-	-	-	-	-	-
Heating plants		326	324	308	279	312	276	-11.5%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		2	1	1	0	-	-	-
Petroleum products		3	42	37	32	40	37	-7.3%
Natural gas		321	281	270	247	271	238	-12.1%
Renewables		-	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	1 310	1 209	1 242	1 175	1 287	1 212	-5.8%
<i>among which: in heating plants</i>								
		347	294	295	260	287	259	-10.0%
Heat consumption		954	877	935	860	914	866	-5.3%
<i>of which: in industry</i>								
		253	272	317	299	302	318	5.4%
<i>in households and services</i>								
		701	605	618	561	612	548	-10.5%
<i>among which: in households</i>								
		584	508	489	440	475	424	-10.8%

## 4.1 Crude oil and feedstocks


 eurostat	BULGARIA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		40	42	34	37	30	30	0.0%
Total imports		5 613	5 306	5 628	5 280	5 237	5 719	9.2%
Total exports		-	-	-	-	-	-	-
Stock changes		40	29	-74	-19	-32	-33	-3.1%
Refinery intake		5 681	5 365	5 638	5 402	5 351	5 865	9.6%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		194	-	-	-	68	70	2.9%
Near and Middle East		80	-	-	77	68	70	2.9%
Africa		367	-	-	-	-	-	-
<i>by country of origin:</i>								
Algeria		184	-	-	-	-	-	-
Nigeria		-	-	-	-	-	-	-
Saudi Arabia		-	-	-	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	68	70	2.9%
Norway		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

## 4.2 Petroleum products


 eurostat	BULGARIA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output	5 673	5 181	5 411	5 032	5 175	5 769	11.5%	
<i>among which:</i>								
Motor spirit	1 065	1 017	1 151	1 030	967	1 401	44.9%	
Kerosene and jet fuel	159	116	154	123	145	142	-2.1%	
Naphtha	503	455	469	432	663	546	-17.6%	
Gas/diesel oil	2 055	1 934	1 978	1 817	1 878	1 912	1.8%	
Residual fuel oil	1 269	1 127	1 095	1 203	718	958	33.4%	
Total imports	251	741	677	799	1 025	978	-4.6%	
Total exports	1 662	1 981	2 055	1 608	1 623	2 302	41.8%	
Bunkers	8	64	96	105	137	115	-16.1%	
Stock changes	166	68	101	36	105	83	-21.0%	
Gross inland consumption	-1 253	-1 236	-1 373	-878	-630	-1 356	-115.2%	
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands	-	-	-	-	13	3	-76.9%	
United Kingdom	-	-	-	-	-	-	-	
Norway	-	-	-	1	-	6		
OPEC	3	-	-	38	156	174	11.5%	
Imports by product								
<i>among which:</i>								
Motor spirit	45	197	112	26	63	72	14.3%	
Kerosene and jet fuel	-	28	53	52	50	50	0.0%	
Gas/diesel oil	156	184	101	114	183	180	-1.6%	
Residual fuel oil	16	21	57	79	131	136	3.8%	
Exports by product								
<i>among which:</i>								
Motor spirit	345	559	717	447	443	907	104.7%	
Kerosene and jet fuel	37	65	65	32	20	25	25.0%	
Gas/diesel oil	1 029	850	727	522	512	467	-8.8%	
Residual fuel oil	194	456	518	584	503	851	69.2%	
<b>Consumption</b>								
Inputs to electricity plants	254	177	203	206	229	206	-10.0%	
Inputs to heating plants	3	44	39	33	42	39	-7.1%	
Non-energy use	662	619	663	384	514	485	-5.6%	
Final energy consumption	3 258	2 964	3 054	3 143	3 420	3 399	-0.6%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	105	105	87	81	81	78	-3.7%	
Residual fuel oil	725	501	429	409	243	225	-7.4%	

 eurostat	BULGARIA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		25	12	3	-	-	-	-
Non-ferrous metals		53	42	44	40	37	34	-8.1%
Chemical industry		394	281	307	275	348	317	-8.9%
Non-met. mineral prod.		144	173	172	280	285	275	-3.5%
Food, drink, tobacco		141	144	112	89	78	69	-11.5%
Pulp, paper and print		40	39	21	34	30	31	3.3%
Engineering & metal		45	39	26	26	22	18	-18.2%
Other industries		82	77	70	68	76	68	-10.5%
<b>Transport</b>		1 836	1 715	1 813	1 908	2 168	2 248	3.7%
<i>among which:</i>								
Motor spirit		787	659	568	611	587	560	-4.6%
Jet fuel		117	98	144	146	177	167	-5.6%
Diesel oil		844	760	840	850	1 082	1 223	13.0%
<b>Services &amp; households etc.</b>		405	372	424	364	327	289	-11.6%
<i>among which:</i>								
Gas oil		339	322	380	323	279	238	-14.7%
Residual fuel oil		53	37	26	24	25	29	16.0%
<b>Stocks at end of period</b>								
Crude oil and feedstocks		157	128	202	221	253	286	13.0%
Petroleum products		841	753	652	616	511	428	-16.2%

## 5. Natural gas

 eurostat	BULGARIA							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		990	573	853	752	597	12 432	
Total imports		128 240	127 563	127 044	116 222	109 593	111 129	1.4%
Total exports		-	-	-	-	-	-	-
Stock changes		-4 270	8 267	-482	-5 132	6 136	-7 602	-223.9%
Gross inland consumption		124 960	136 403	127 415	111 842	116 326	115 959	-0.3%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		42 795	38 327	35 916	33 401	34 497	31 644	-8.3%
Inputs to heat plants		14 950	13 065	12 550	11 477	12 621	11 093	-12.1%
Consumption of energy branch		7 361	11 243	9 986	9 520	7 334	9 856	34.4%
Distribution losses		2 024	1 767	4 156	3 292	3 764	3 704	-1.6%
Non-energy use		17 024	28 268	27 976	18 914	19 656	23 055	17.3%
Industry		39 944	42 424	34 729	32 860	35 663	33 894	-5.0%
<i>among which:</i>								
Iron&steel industry		12 462	12 941	11 725	10 991	13 871	11 916	-14.1%
Non-ferrous metals		306	417	408	310	349	469	34.4%
Chemical industry		9 470	12 433	8 534	7 333	6 283	5 627	-10.4%
Non-met. mineral pr		11 334	9 958	6 939	7 203	5 862	6 534	11.5%
Food, drink, tobacco		2 197	2 143	2 375	2 891	3 317	3 266	-1.5%
Pulp, paper and print		1 459	1 871	1 484	979	2 202	2 483	12.8%
Engineering & meta		1 642	1 398	1 521	1 125	1 194	1 234	3.4%
Other industries		440	517	519	505	560	519	-7.3%
Transport		-	-	-	-	-	270	
Services & households etc.		1 016	1 179	1 521	1 631	2 221	2 658	19.7%
<i>among which:</i>								
Households		-	9	37	59	144	268	86.1%
Services		750	570	816	874	1 304	1 390	6.6%

## 6.1 Hard coal


 eurostat	BULGARIA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	122	118	110	94	51	-		
Total imports	2 781	3 433	3 839	3 854	3 930	4 678	19.0%	
Total exports	-	-	-	-	-	-	-	-
Stock changes	308	-172	76	-347	187	-438	-334.2%	
Gross inland consumption	3 211	3 379	4 025	3 601	4 168	4 240	1.7%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
CIS	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants	1 745	1 747	2 371	2 147	2 444	2 408	-1.5%	
Inputs to heat plants	-	-	-	-	-	-	-	-
Consumption of energy branch	4	2	1	1	-	-	-	-
Industry	295	328	464	373	401	487	21.4%	
<i>among which:</i>								
Iron&steel industry	18	3	51	30	38	7	-81.6%	
Non-ferrous metals	-	-	-	-	-	-	-	-
Chemical industry	106	106	104	29	44	125	184.1%	
Non-met. mineral prod	103	159	262	174	246	255	3.7%	
Food, drink, tobacco	52	41	37	45	31	36	16.1%	
Pulp, paper and print	-	-	-	83	32	-	-	-
Engineering & metal	-	1	-	-	-	1	-	-
Other industries	6	1	2	5	1	55	-	-
Services & households etc.	2	1	2	45	172	187	8.7%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	-
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	-




## 6.2 Coal derivatives and peat

eurostat	BULGARIA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	749	898	797	761	846	832	-1.7%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	25 176	26 314	26 501	25 924	27 248	26 452	-2.9%
Brown coal briquettes	1 261	1 124	1 045	1 285	1 303	1 078	-17.3%
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	6 716	8 033	5 934	5 966	6 577	6 222	-5.4%
Blast-furnace gas	10 681	11 280	9 134	7 734	9 636	8 295	-13.9%
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	522	534	655	638	730	628	-14.0%
<i>among which:</i>							
Iron & steel industry	375	365	477	496	599	528	-11.9%
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	372	240	167	272	229	225	-1.7%
<i>among which:</i>							
Industry	38	27	21	62	32	68	112.5%
Services & households	334	213	146	210	197	157	-20.3%
Brown coal briquettes	699	550	345	589	561	346	-38.3%
<i>among which:</i>							
Industry	8	6	7	8	7	6	-14.3%
Services & households	691	544	338	581	554	339	-38.8%
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	2 427	2 999	2 139	2 217	2 453	1 863	-24.1%
Blast-furnace gas	9 088	9 581	7 814	6 741	8 373	2 716	-67.6%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	2 175	2 586	1 913	1 476	1 702	1 622	-4.7%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	3 708	4 147	3 202	3 267	3 685	3 821	3.7%
Consumption in industry	11 515	12 580	9 953	8 958	10 826	4 579	-57.7%


## 7. Renewable energy sources

		BULGARIA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	642	780	696	832	952	1 009	6.0%
Hydro (excl. pumping)		237	230	149	189	260	272	4.6%
Wind		-	-	-	-	-	-	-
Solar		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Biomass		406	550	547	643	691	737	6.6%
	<i>among which:</i>							
Wood, wood-waste		406	550	547	643	691	737	6.6%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Gross inland consumption		635	776	692	828	942	980	4.0%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		-	-	-	-	-	-	-
	<i>among which:</i>							
Wood, wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	421	547	540	639	682	709	4.0%
	<i>by sector:</i>							
Industry		23	20	43	44	58	63	7.4%
Services & households etc.		399	527	497	595	623	646	3.7%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		421	547	540	639	682	709	4.0%
	<i>among which:</i>							
Wood, wood-waste		421	547	540	639	682	709	4.0%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		:	40	6	5	6	36	500.0%
Hydro with installed capacity > 1 & <10 MW		:	240	19	12	37	137	270.3%
Hydro with installed capacity > 10 MW		:	2 393	1 712	2 177	2 919	2 994	2.6%
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-

	BULGARIA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	:	8	8	8	8	8	0.0%
Hydro with installed capacity > 1 & <10 MW	:	125	125	125	125	125	0.0%
Hydro with installed capacity > 10 MW	:	1 867	1 867	1 867	1 867	1 867	0.0%
Wood, Wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	-	-	-	-	-	-
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	-	-	-	-	-	-	-


# 1. Energy economy

## Key figures and energy indicators

		HRVATSKA					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	3 570	3 562	3 730	3 689	3 727	3 852
Net energy imports		4 354	4 174	4 166	4 967	4 985	5 090
Net oil imports		2 992	2 441	2 763	3 484	3 347	3 443
Net gas imports		906	905	684	590	651	577
Gross inland energy consumption		7 959	7 819	7 959	8 247	8 828	8 842
Final energy consumption		5 354	5 340	5 460	5 591	5 948	6 134
Industry		1 370	1 390	1 439	1 392	1 441	1 556
Transport		1 534	1 530	1 546	1 642	1 768	1 821
Services and households etc.		2 451	2 419	2 475	2 557	2 739	2 757
Gross electricity generation	GWh	12 241	10 702	12 175	12 286	12 670	13 320
Final electricity consumption		11 678	11 796	11 958	12 654	12 922	13 646
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	:	:	:	:	:	:
Population	1000 per.	4 575	4 568	4 437	4 444	4 442	4 441
Industry added value	Mio EUR	4 794	4 867	5 050	4 993	4 934	4 684
Total imports (current prices)	Mio EUR	8 739	9 062	8 365	8 365	9 281	9 604
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	:	:	:	:	:	:
Final energy consumption / GDP(95)		:	:	:	:	:	:
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		285.7	285.6	285.0	278.8	292.0	332.2
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		62.0	59.6	65.0	83.8	112.9	155.3
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	1 740	1 712	1 794	1 856	1 987	1 991
Final energy consumption / capita		1 170	1 169	1 231	1 258	1 339	1 381
Household consumption / capita		371	364	375	389	421	424
Final electricity consumption / capita	kWh/cap.	2 553	2 582	2 695	2 847	2 909	3 073
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	54.6	53.3	52.2	60.1	56.3	57.4
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	67.3	68.3	68.6	67.8	67.4	69.4
Efficiency of thermal power stations		50.1	49.9	48.1	47.5	49.0	50.7

## 2. Energy balance

### Principal aggregates by product

 eurostat	HRVATSKA						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	3 570	3 562	3 730	3 689	3 727	3 852	3.3%
among which:							
Hard coal	9	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	1 394	1 328	1 232	1 200	1 138	1 079	-5.2%
Natural Gas	1 267	1 355	1 642	1 732	1 789	1 796	0.4%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	567	505	563	461	419	598	42.7%
Biomass	333	374	292	296	381	379	-0.6%
<b>Imports</b>							
Total	6 391	5 970	6 096	6 962	7 079	7 603	7.4%
among which:							
Hard coal	211	444	402	542	606	707	16.7%
Crude oil and feedstocks	4 560	4 001	4 041	4 319	4 355	4 518	3.7%
Petroleum products	419	202	401	828	756	1 015	34.2%
Natural Gas	906	905	885	886	930	861	-7.5%
Electricity	254	377	322	338	385	456	18.3%
<b>Exports</b>							
Total	2 037	1 797	1 930	1 995	2 095	2 513	20.0%
among which:							
Crude oil and feedstocks	131	35	-	-	-	-	-
Petroleum products	1 855	1 727	1 679	1 663	1 764	2 089	18.4%
Natural gas	-	-	201	296	279	284	1.6%
Electricity	51	33	51	35	50	140	178.7%
<b>Gross inland consumption</b>							
Total	7 959	7 819	7 959	8 247	8 828	8 842	0.2%
among which:							
Solid fuels	209	438	481	584	654	690	5.6%
Crude oil and petrol. prod.	4 457	3 949	4 036	4 233	4 683	4 402	-6.0%
Natural gas	2 190	2 209	2 315	2 370	2 356	2 458	4.3%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	900	879	855	757	800	977	22.1%
<b>Transformation input</b>							
Total	7 122	6 659	6 598	6 985	7 404	7 042	-4.9%
among which:							
Crude oil and feedstocks	5 563	5 316	5 022	5 189	5 465	5 418	-0.9%
Petroleum products	983	446	566	548	775	420	-45.8%
Hard coal	128	356	392	489	529	494	-6.5%
Lignite and peat	2	1	4	3	3	5	70.7%
Renewables	2	0	-	-	-	1	
<b>Transformation output</b>							
Total	6 327	5 973	5 775	6 036	6 415	6 233	-2.8%
among which:							
Electricity	486	414	481	589	665	539	-18.9%
Heat	311	274	304	289	313	307	-2.0%

**Final energy consumption**

Total	5 354	5 340	5 460	5 591	5 948	6 134	3.1%
<i>among which:</i> Solid fuels	76	75	85	92	118	191	61.7%
Petroleum products	2 616	2 656	2 703	2 820	2 943	2 964	0.7%
Natural Gas	1 082	1 001	1 104	1 051	1 130	1 170	3.5%
Renewables	331	373	292	296	381	378	-0.8%
Electricity	1 004	1 014	1 028	1 088	1 111	1 173	5.6%

**Final energy consumption by sector**
**Industry**

Total	1 370	1 390	1 439	1 392	1 441	1 556	8.0%
<i>among which:</i> Solid fuels	61	60	77	80	103	181	76.2%
Petroleum Products	416	451	470	456	440	428	-2.6%
Natural Gas	507	503	517	482	491	527	7.3%
Renewables	53	53	47	48	60	64	7.2%
Electricity	259	261	266	268	294	304	3.4%


**Transport**

Total	1 534	1 530	1 546	1 642	1 768	1 821	3.0%
<i>among which:</i> Motor spirit	800	804	772	781	778	743	-4.5%
Diesel oil	614	617	662	747	877	957	9.1%
Jet fuel	87	74	74	71	70	80	14.7%
Electricity	20	23	21	22	23	23	-1.5%


**Services&households**

Total	2 451	2 419	2 475	2 557	2 739	2 757	0.6%
<i>among which:</i> Solid fuels	15	14	8	12	15	9	-37.5%
Gas oil	558	595	608	625	641	626	-2.2%
Natural Gas	575	498	587	569	640	643	0.6%
Renewables	278	320	245	248	321	314	-2.3%
Electricity	725	730	740	797	795	847	6.6%
Heat	165	155	180	180	202	198	-2.0%

### 3.1 Electricity balance


 eurostat	HRVATSKA						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	12 241	10 702	12 175	12 286	12 670	13 320	5.1%
<i>among which:</i>							
Hydro	6 592	5 892	6 585	5 432	4 936	7 051	42.8%
Wind	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
Nuclear	-	-	-	-	-	-	-
Conventional thermal	5 649	4 810	5 590	6 854	7 734	6 269	-18.9%
<i>of which:</i>							
Hard coal	508	1 546	1 625	2 096	2 393	2 120	-11.4%
Lignite and peat	8	5	13	13	10	19	90.0%
Petroleum products	3 896	1 687	2 133	2 218	3 158	1 667	-47.2%
Natural gas	1 235	1 571	1 819	2 527	2 173	2 459	13.2%
Derived gases	-	-	-	-	-	-	-
Biomass	2	1	-	-	-	4	-
Industrial wastes	-	-	-	-	-	-	-
Total net generation	11 787	10 270	11 734	11 750	12 115	12 820	5.8%
<b>Imports and exports</b>							
Total imports	2 956	4 386	3 744	3 927	4 479	5 298	18.3%
Total exports	595	386	588	406	586	1 633	178.7%
<b>Consumption and losses</b>							
Consumption of the energy branch	863	852	874	1 009	1 038	1 024	-1.3%
<i>of which:</i>							
Consumption for pumped-storage	1	8	16	28	26	40	53.8%
Network losses	2 059	2 036	2 461	2 077	2 543	2 224	-12.5%
Final energy consumption	11 678	11 796	11 958	12 654	12 922	13 646	5.6%
<i>of which:</i>							
Industry	3 007	3 038	3 098	3 121	3 414	3 530	3.4%
<i>among which:</i>							
Iron&steel industry	156	216	148	122	137	188	37.2%
Non-ferrous metals	71	66	76	92	80	80	0.0%
Chemical industry	535	530	504	494	528	469	-11.2%
Non-met. mineral prod.	555	564	607	621	698	654	-6.3%
Food, drink, tobacco	428	413	434	454	527	583	10.6%
Pulp, paper and print	249	280	291	307	321	291	-9.3%
Engineering & metal	299	295	338	356	379	410	8.2%
Other industries	503	472	483	470	543	619	14.0%
Transport	238	270	250	261	267	263	-1.5%
Services & households etc.	8 433	8 488	8 610	9 272	9 241	9 853	6.6%
<i>among which:</i>							
Households	5 742	5 729	5 559	5 954	5 694	6 072	6.6%

## 3.2 Electrical capacity, fuel inputs and heat


	HRVATSKA							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	3 754	3 754	3 754	3 931	3 919	3 937	0.5%
<i>by source:</i>								
Conventional thermal		1 675	1 675	1 675	1 865	1 843	1 854	0.6%
<i>of which:</i>								
Steam		1 401	1 401	1 401	1 409	1 387	1 389	0.1%
Gas turbine		210	210	210	196	196	203	3.6%
Combined cycle		6	6	6	208	208	208	0.0%
Internal combustion		58	58	58	52	52	54	3.8%
Nuclear		-	-	-	-	-	-	-
Hydro		2 079	2 079	2 079	2 066	2 076	2 083	0.3%
<i>among which:</i>								
Pumped storage		291	291	291	291	293	293	0.0%
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		3 504	3 504	3 504	3 681	3 690	3 718	0.8%
Autoproducers		250	250	250	250	229	225	-1.7%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	1 447	1 248	1 465	1 688	1 827	1 514	-17.1%
<i>among which:</i>								
Hard coal		128	356	392	489	529	494	-6.5%
Lignite and peat		2	1	4	3	3	5	70.7%
Petroleum products		918	395	513	495	720	363	-49.6%
Natural gas		398	496	556	701	575	651	13.2%
Renewables		2	0	-	-	-	1	
Heating plants		97	83	98	94	98	98	-0.4%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		51	39	40	38	40	44	9.9%
Natural gas		46	43	57	55	57	53	-7.6%
Renewables		-	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	311	274	304	289	313	307	-2.0%
<i>among which: in heating plants</i>								
		72	65	80	76	83	79	-4.8%
Heat consumption		236	213	239	232	254	249	-2.0%
<i>of which: in industry</i>								
		71	58	59	53	52	51	-2.3%
<i>in households and services</i>								
		165	155	180	180	202	198	-2.0%
<i>among which: in households</i>								
		145	129	151	147	161	157	-2.3%




## 4.1 Crude oil and feedstocks


 eurostat	in 1 000 t	HRVATSKA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		1 385	1 313	1 217	1 185	1 125	1 068	-5.1%
Total imports		4 529	3 954	3 991	4 265	4 302	4 470	3.9%
Total exports		130	35	-	-	-	-	-
Stock changes		-49	222	-73	-156	138	1	-99.3%
Refinery intake		5 526	5 254	4 960	5 124	5 399	5 361	-0.7%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC		167	547	388	80	232	80	-65.5%
Near and Middle East		70	295	785	1 168	1 415	481	-66.0%
Africa		463	466	388	-	232	80	-65.5%
<i>by country of origin:</i>								
Algeria		-	-	-	-	-	-	-
Nigeria		-	125	-	-	-	-	-
Saudi Arabia		-	-	-	-	-	-	-
Kuwait		-	-	-	-	-	-	-
United Arab Emirates		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

## 4.2 Petroleum products


 eurostat	HRVATSKA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output	5 481	5 214	4 919	5 080	5 358	5 320	-0.7%	
<i>among which:</i>								
Motor spirit	1 209	1 330	1 210	1 209	1 261	1 226	-2.8%	
Kerosene and jet fuel	71	89	75	69	76	92	21.1%	
Naphtha	133	103	166	169	165	212	28.5%	
Gas/diesel oil	1 671	1 666	1 650	1 640	1 873	1 741	-7.0%	
Residual fuel oil	1 593	1 111	1 021	1 062	1 036	1 012	-2.3%	
Total imports	420	209	409	844	773	1 041	34.7%	
Total exports	1 817	1 703	1 641	1 626	1 726	2 052	18.9%	
Bunkers	22	18	29	24	22	24	9.1%	
Stock changes	138	-24	141	-274	85	-113	-232.9%	
Gross inland consumption	-1 281	-1 536	-1 120	-1 080	-890	-1 148	29.0%	
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands	3	3	2	7	4	3	-25.0%	
United Kingdom	44	-	-	72	-	-	-	
Norway	-	-	-	-	77	-	-	
OPEC	2	20	45	62	13	7	-46.2%	
Imports by product								
<i>among which:</i>								
Motor spirit	57	9	41	77	89	137	53.9%	
Kerosene and jet fuel	54	36	13	14	3	1	-66.7%	
Gas/diesel oil	215	68	165	321	234	471	101.3%	
Residual fuel oil	43	47	137	331	326	213	-34.7%	
Exports by product								
<i>among which:</i>								
Motor spirit	533	526	555	468	631	609	-3.5%	
Kerosene and jet fuel	43	43	20	8	13	10	-23.1%	
Gas/diesel oil	613	357	439	401	454	495	9.0%	
Residual fuel oil	61	193	72	85	4	304		
<b>Consumption</b>								
Inputs to electricity plants	959	413	537	518	753	380	-49.5%	
Inputs to heating plants	53	41	42	40	42	46	9.5%	
Non-energy use	245	229	211	248	327	372	13.8%	
Final energy consumption	2 570	2 610	2 658	2 773	2 891	2 925	1.2%	
Industry								
<i>among which by product:</i>								
Gas/diesel oil	119	132	131	119	145	137	-5.5%	
Residual fuel oil	263	284	309	309	268	218	-18.7%	

 eurostat	HRVATSKA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		4	4	4	2	2	3	50.0%
Non-ferrous metals		2	3	4	5	5	7	40.0%
Chemical industry		63	93	99	74	81	105	29.6%
Non-met. mineral prod.		151	184	196	194	151	139	-7.9%
Food, drink, tobacco		77	58	51	59	51	33	-35.3%
Pulp, paper and print		5	3	3	4	6	16	166.7%
Engineering & metal		9	9	8	9	9	12	33.3%
Other industries		88	83	85	86	107	111	3.7%
<b>Transport</b>		1 465	1 459	1 477	1 571	1 696	1 749	3.1%
<i>among which:</i>								
Motor spirit		761	765	735	743	740	707	-4.5%
Jet fuel		85	72	72	69	68	78	14.7%
Diesel oil		608	611	655	739	868	947	9.1%
<b>Services &amp; households etc.</b>		676	686	697	733	746	725	-2.8%
<i>among which:</i>								
Gas oil		552	589	602	619	634	620	-2.2%
Residual fuel oil		49	26	21	40	36	25	-30.6%
<b>Stocks at end of period</b>								
Crude oil and feedstocks		493	271	344	500	362	361	-0.3%
Petroleum products		-	-	-	-	-	-	-

## 5. Natural gas

 eurostat	HRVATSKA							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		58 919	63 023	76 395	80 572	83 205	83 528	0.4%
Total imports		42 142	42 104	41 162	41 207	43 274	40 037	-7.5%
Total exports		-	-	9 329	13 764	12 996	13 209	1.6%
Stock changes		809	-2 345	-528	2 253	-3 876	3 997	203.1%
Gross inland consumption		101 870	102 782	107 700	110 268	109 607	114 353	4.3%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		42 142	42 104	41 162	41 207	43 274	40 037	-7.5%
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		18 494	23 081	25 882	32 590	26 760	30 290	13.2%
Inputs to heat plants		2 117	2 014	2 664	2 554	2 645	2 443	-7.6%
Consumption of energy branch		7 102	7 661	7 129	6 718	6 254	5 943	-5.0%
Distribution losses		2 974	2 698	3 705	4 102	3 819	2 846	-25.5%
Non-energy use		20 854	20 782	16 982	15 398	17 552	18 419	4.9%
Industry		23 584	23 393	24 050	22 416	22 827	24 495	7.3%
<i>among which:</i>								
Iron&steel industry		840	851	855	490	669	543	-18.8%
Non-ferrous metals		148	182	171	122	49	68	38.8%
Chemical industry		5 415	5 438	4 727	3 830	4 636	6 460	39.3%
Non-met. mineral prod		7 676	8 086	8 930	8 402	7 706	7 102	-7.8%
Food, drink, tobacco		5 001	4 207	4 849	5 054	5 024	5 939	18.2%
Pulp, paper and print		1 999	1 957	2 018	2 158	2 109	1 851	-12.2%
Engineering & metal		707	715	638	543	726	962	32.5%
Other industries		331	345	342	282	342	567	65.8%
Transport		-	-	-	-	-	-	-
Services & households etc.		26 745	23 153	27 288	26 490	29 750	29 917	0.6%
<i>among which:</i>								
Households		21 630	18 871	21 337	20 851	24 058	23 921	-0.6%
Services		4 632	3 731	5 054	4 716	4 936	5 259	6.5%


## 6.1 Hard coal


 eurostat	HRVATSKA							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	15	-	-	-	-	-	-	-
Total imports	342	711	643	879	1 035	1 218	17.7%	
Total exports	-	-	-	-	-	-	-	
Stock changes	-91	-80	57	-7	2	-111		
Gross inland consumption	266	631	700	872	1 037	1 107	6.8%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
CIS	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants	211	570	627	794	904	852	-5.8%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry	55	53	69	78	126	254	101.6%	
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	55	53	69	78	126	252	100.0%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	-	-	-	-	-	-	-	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

eurostat	HRVATSKA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	513	440	452	615	591	473	-20.0%
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	18	18	19	17	17	20	17.6%
<i>among which:</i>							
Iron & steel industry	5	12	5	6	3	-	
Services & households	-	-	-	-	-	-	
Patent Fuel	-	-	-	-	-	-	
<i>among which:</i>							
Services & households	-	-	-	-	-	-	
Lignite and peat	76	77	75	84	86	72	-16.3%
<i>among which:</i>							
Industry	36	39	53	52	46	49	6.5%
Services & households	40	38	22	32	40	23	-42.5%
Brown coal briquettes	-	-	-	-	-	-	
<i>among which:</i>							
Industry	-	-	-	-	-	-	
Services & households	-	-	-	-	-	-	
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	
Blast-furnace gas	-	-	-	-	-	-	
Gasworks gas	457	390	394	548	500	411	-17.8%
Inputs to electricity plants	-	-	-	-	-	-	
Inputs to heat plants	27	24	30	32	33	32	-3.0%
Consumption of energy branch	-	-	-	-	-	-	
Consumption in industry	158	146	148	237	108	70	-35.2%

## 7. Renewable energy sources


		HRVATSKA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	900	879	855	757	800	977	22.1%
Hydro (excl. pumping)		567	505	563	461	419	598	42.7%
Wind		-	-	-	-	-	-	-
Solar		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Biomass		333	374	292	296	381	379	-0.6%
	<i>among which:</i>							
Wood, wood-waste		333	374	292	296	381	379	-0.6%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Gross inland consumption		900	879	855	757	800	977	22.1%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		2	0	-	-	-	1	-
	<i>among which:</i>							
Wood, wood-waste		2	0	-	-	-	1	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	331	373	292	296	381	378	-0.8%
	<i>by sector:</i>							
Industry		53	53	47	48	60	64	7.2%
Services & households etc.		278	320	245	248	321	314	-2.3%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		331	373	292	296	381	378	-0.8%
	<i>among which:</i>							
Wood, wood-waste		331	373	292	296	381	378	-0.8%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		-	-	-	-	2	2	0.0%
Hydro with installed capacity > 1 & <10 MW		-	6	6	8	72	124	72.2%
Hydro with installed capacity > 10 MW		-	-	-	-	4 802	6 832	42.3%
Wood, Wood-waste		2	1	-	-	-	4	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-

	HRVATSKA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	-	-	-	-	1	1	0.0%
Hydro with installed capacity > 1 & <10 MW	-	38	38	38	33	31	-6.1%
Hydro with installed capacity > 10 MW	-	1 750	1 750	1 737	1 749	1 758	0.5%
Wood, Wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	-	-	-	-	-	-
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	-	-	-	-	-	-	-




# 1. Energy economy

## Key figures and energy indicators

		ROMÂNIA					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	28 010	28 628	27 574	27 056	28 222	28 414
Net energy imports		7 982	8 098	9 457	9 119	10 337	11 974
Net oil imports		3 809	3 542	4 991	3 486	3 481	4 808
Net gas imports		2 539	2 712	2 308	3 130	4 237	4 112
Gross inland energy consumption		36 889	37 065	36 812	37 482	40 273	39 588
Final energy consumption		22 331	22 166	22 969	22 990	24 153	26 112
Industry		8 838	8 793	9 630	10 268	10 308	10 726
Transport		3 136	3 381	4 074	4 341	4 345	5 178
Services and households etc.		10 356	9 992	9 265	8 382	9 501	10 208
Gross electricity generation	GWh	50 710	51 934	53 866	54 935	56 645	56 482
Final electricity consumption		33 888	33 912	36 265	35 575	37 465	38 736
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	24 900	25 436	26 897	28 274	29 751	32 265
Population	1000 per.	22 489	22 456	22 431	21 834	21 773	21 711
Industry added value	Mio EUR	9 530	10 101	10 642	11 223	11 759	12 567
Total imports (current prices)	Mio EUR	11 532	14 653	17 351	19 441	22 552	27 537
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	1 481.5	1 457.2	1 368.6	1 325.7	1 353.7	1 227.0
Final energy consumption / GDP(95)		896.8	871.5	854.0	813.1	811.9	809.3
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		927.4	870.5	904.9	914.9	876.6	853.5
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		125.7	121.4	180.7	116.1	:	:
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	1 640	1 651	1 641	1 717	1 850	1 823
Final energy consumption / capita		993	987	1 024	1 053	1 109	1 203
Household consumption / capita		389	375	325	331	359	367
Final electricity consumption / capita	kWh/cap.	1 507	1 510	1 617	1 629	1 721	1 784
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	21.6	21.8	25.7	24.3	25.7	30.2
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	60.5	59.8	62.4	61.3	60.0	66.0
Efficiency of thermal power stations		54.7	54.4	57.1	55.0	49.8	49.9


## 2. Energy balance

### Principal aggregates by product


 eurostat	ROMÂNIA						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	28 010	28 628	27 574	27 056	28 222	28 414	0.7%
among which:							
Hard coal	509	162	64	7	7	25	280.9%
Lignite and peat	4 137	5 713	5 634	5 167	6 530	6 182	-5.3%
Crude oil	6 430	6 337	6 272	6 113	5 930	5 738	-3.2%
Natural Gas	11 192	10 968	10 780	10 599	10 429	10 377	-0.5%
Nuclear heat	1 341	1 407	1 405	1 422	1 266	1 431	13.1%
Hydro-electricity	1 573	1 271	1 283	1 380	1 140	1 420	24.5%
Biomass	2 820	2 763	2 130	2 351	2 903	3 160	8.9%
<b>Imports</b>							
Total	10 291	11 023	12 754	14 066	14 239	16 699	17.3%
among which:							
Hard coal	1 617	1 650	1 763	2 394	1 616	2 358	45.9%
Crude oil and feedstocks	4 357	4 836	5 574	6 405	5 252	7 359	40.1%
Petroleum products	1 537	1 492	2 532	1 745	1 868	1 822	-2.5%
Natural Gas	2 539	2 712	2 308	3 130	4 237	4 112	-3.0%
Electricity	95	67	66	37	83	222	168.6%
<b>Exports</b>							
Total	2 309	2 925	3 297	4 948	3 901	4 725	21.1%
among which:							
Crude oil and feedstocks	3	-	-	-	-	-	-
Petroleum products	2 082	2 786	3 116	4 665	3 639	4 373	20.1%
Natural gas	-	-	-	-	-	-	-
Electricity	166	126	179	283	262	324	23.6%
<b>Gross inland consumption</b>							
Total	36 889	37 065	36 812	37 482	40 273	39 588	-1.7%
among which:							
Solid fuels	6 888	7 752	7 609	7 855	9 513	9 277	-2.5%
Crude oil and petrol. prod.	10 574	10 148	11 083	10 961	10 855	10 319	-4.9%
Natural gas	13 731	13 680	13 180	13 629	14 729	13 937	-5.4%
Nuclear Energy	1 341	1 407	1 405	1 422	1 266	1 431	13.1%
Renewables	4 400	4 041	3 423	3 749	4 002	4 634	15.8%
<b>Transformation input</b>							
Total	26 794	26 603	28 211	28 920	28 770	28 387	-1.3%
among which:							
Crude oil and feedstocks	10 634	11 318	12 536	13 668	12 430	13 157	5.8%
Petroleum products	2 297	1 956	2 593	1 835	1 603	1 013	-36.8%
Hard coal	1 744	1 677	1 852	2 056	1 403	1 717	22.4%
Lignite and peat	4 927	5 273	5 137	5 066	6 693	5 978	-10.7%
Renewables	10	20	9	85	16	66	302.5%
<b>Transformation output</b>							
Total	20 191	20 456	21 746	22 675	21 370	21 760	1.8%
among which:							
Electricity	2 788	3 195	3 348	3 344	3 731	3 437	-7.9%
Heat	5 157	4 557	4 581	3 737	3 615	3 235	-10.5%

		1999	2000	2001	2002	2003	2004	04/03
<b>Final energy consumption</b>								
Total		22 331	22 166	22 969	22 990	24 153	26 112	8.1%
<i>among which:</i>	Solid fuels	987	698	977	1 140	1 507	1 488	-1.3%
	Petroleum products	4 886	5 295	6 167	6 366	6 000	7 391	23.2%
	Natural Gas	6 320	6 451	6 826	6 926	7 607	7 998	5.1%
	Renewables	2 806	2 741	2 121	2 272	2 835	3 126	10.3%
	Electricity	2 914	2 916	3 118	3 059	3 221	3 331	3.4%
<b>Final energy consumption by sector</b>								
<b>Industry</b>								
Total		8 838	8 793	9 630	10 268	10 308	10 726	4.1%
<i>among which:</i>	Solid fuels	937	671	963	1 114	1 487	1 434	-3.5%
	Petroleum Products	1 137	1 228	1 527	1 446	961	1 041	8.3%
	Natural Gas	3 861	3 976	4 231	4 428	4 561	4 745	4.0%
	Renewables	224	261	230	324	476	263	-44.7%
	Electricity	1 750	1 712	1 785	1 952	1 921	2 172	13.1%
<b>Transport</b>								
Total		3 136	3 381	4 074	4 341	4 345	5 178	19.2%
<i>among which:</i>	Motor spirit	1 272	1 301	1 662	1 831	1 646	2 376	44.4%
	Diesel oil	1 455	1 732	1 993	2 146	2 359	2 414	2.3%
	Jet fuel	130	128	114	101	123	141	14.2%
	Electricity	125	158	151	166	154	136	-12.0%
<b>Services&amp;households</b>								
Total		10 356	9 992	9 265	8 382	9 501	10 208	7.4%
<i>among which:</i>	Solid fuels	50	27	14	26	20	53	163.2%
	Gas oil	391	462	336	401	365	586	60.7%
	Natural Gas	2 459	2 473	2 528	2 476	3 046	3 253	6.8%
	Renewables	2 582	2 480	1 891	1 947	2 359	2 863	21.4%
	Electricity	1 039	1 047	1 183	940	1 147	1 023	-10.8%
	Heat	3 487	3 101	2 849	2 218	2 076	1 708	-17.7%


### 3.1 Electricity balance

 eurostat	ROMÂNIA						
	1999	2000	2001	2002	2003	2004	04/03
<i>in GWh</i>							
<b>Generation</b>							
Total gross generation	50 710	51 934	53 866	54 935	56 645	56 482	-0.3%
<i>among which:</i>							
Hydro	18 290	14 778	14 923	16 046	13 259	16 513	24.5%
Wind	-	-	-	-	-	-	-
Geothermal	-	-	-	-	-	-	-
Nuclear	5 198	5 456	5 446	5 513	4 906	5 548	13.1%
Conventional thermal	27 222	31 700	33 497	33 376	38 480	34 421	-10.5%
<i>of which:</i>							
Hard coal	-	383	926	400	-	734	
Lignite and peat	14 684	18 543	18 768	19 912	23 344	20 732	-11.2%
Petroleum products	3 855	3 399	5 405	3 578	3 633	2 199	-39.5%
Natural gas	8 437	9 001	8 073	9 166	11 201	10 462	-6.6%
Derived gases	246	374	325	317	299	290	-3.0%
Biomass	-	-	-	3	3	3	0.0%
Industrial wastes	-	-	-	-	-	1	
Total net generation	46 210	48 625	50 423	51 256	52 622	52 676	0.1%
<b>Imports and exports</b>							
Total imports	1 103	774	767	436	962	2 584	168.6%
Total exports	1 930	1 470	2 077	3 290	3 046	3 766	23.6%
<b>Consumption and losses</b>							
Consumption of the energy branch	9 611	10 697	9 477	9 620	11 017	10 508	-4.6%
<i>of which:</i>							
Consumption for pumped-storage	-	-	-	-	-	-	-
Network losses	6 387	6 629	6 814	6 886	6 079	6 056	-0.4%
Final energy consumption	33 888	33 912	36 265	35 575	37 465	38 736	3.4%
<i>of which:</i>							
Industry	20 348	19 909	20 754	22 706	22 337	25 258	13.1%
<i>among which:</i>							
Iron&steel industry	7 346	5 893	7 271	6 966	7 220	8 544	18.3%
Non-ferrous metals	-	-	-	-	-	-	-
Chemical industry	3 141	3 489	3 422	3 859	3 696	3 526	-4.6%
Non-met. mineral prod.	1 811	1 771	1 594	1 715	1 038	2 056	98.1%
Food, drink, tobacco	1 192	1 302	1 370	1 536	2 570	3 343	30.1%
Pulp, paper and print	549	697	718	694	812	707	-12.9%
Engineering & metal	2 876	2 896	2 721	3 148	2 827	2 609	-7.7%
Other industries	2 367	2 497	2 191	2 968	2 591	2 971	14.7%
Transport	1 456	1 832	1 756	1 936	1 793	1 578	-12.0%
Services & households etc.	12 084	12 171	13 755	10 933	13 335	11 900	-10.8%
<i>among which:</i>							
Households	7 883	7 652	7 724	7 771	8 243	8 043	-2.4%


## 3.2 Electrical capacity, fuel inputs and heat


		ROMÂNIA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	22 237	21 904	20 864	19 588	19 369	19 624	1.3%
<i>by source:</i>								
Conventional thermal		15 448	15 077	14 035	12 639	12 414	12 638	1.8%
<i>of which:</i>								
Steam		15 137	14 901	13 883	12 558	12 347	12 557	1.7%
Gas turbine		-	-	-	-	-	-	-
Combined cycle		-	-	-	-	-	-	-
Internal combustion		311	176	152	81	67	81	20.9%
Nuclear		707	707	707	707	707	707	0.0%
Hydro		6 082	6 120	6 122	6 242	6 248	6 279	0.5%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		21 203	21 017	20 083	18 893	18 794	19 015	1.2%
Autoproducers		1 033	887	781	695	575	610	6.1%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	10 615	10 638	10 807	10 046	12 010	10 694	-11.0%
<i>among which:</i>								
Hard coal		139	189	326	168	-	221	
Lignite and peat		4 888	5 254	5 118	5 047	6 668	5 959	-10.6%
Petroleum products		1 943	1 684	2 403	1 632	1 428	874	-38.8%
Natural gas		3 587	3 393	2 837	3 065	3 801	3 539	-6.9%
Renewables		2	1	0	11	2	2	-21.1%
Heating plants		1 959	1 737	1 500	1 357	1 089	1 029	-5.6%
<i>among which:</i>								
Hard coal		17	15	14	6	-	5	
Lignite and peat		39	20	19	19	25	20	-21.4%
Petroleum products		355	272	190	203	176	139	-20.7%
Natural gas		1 521	1 407	1 250	1 050	875	798	-8.7%
Renewables		9	19	9	75	14	64	354.3%
<b>Heat production and consumption</b>								
Total heat production	TJ	5 157	4 557	4 581	3 737	3 615	3 235	-10.5%
<i>among which: in heating plants</i>		1 690	1 492	1 294	1 078	941	854	-9.2%
Heat consumption		3 960	3 570	3 289	2 665	2 419	2 187	-9.6%
<i>of which: in industry</i>		473	468	440	447	343	479	39.4%
in households and services		3 487	3 101	2 849	2 218	2 076	1 708	-17.7%
<i>among which: in households</i>		3 053	2 601	2 504	2 069	1 896	1 592	-16.1%

## 4.1 Crude oil and feedstocks

 eurostat	ROMÂNIA						
	1999	2000	2001	2002	2003	2004	04/03
<i>in 1 000 t</i>							
<b>Primary production and supply</b>							
Primary production	6 379	6 288	6 238	6 072	5 890	5 705	-3.1%
Total imports	4 322	4 798	5 544	6 362	5 217	7 317	40.3%
Total exports	3	-	-	-	-	-	-
Stock changes	-20	-112	37	-37	94	-240	-355.3%
Refinery intake	10 546	11 227	12 461	13 565	12 336	13 077	6.0%
<b>Imports of Crude Oil by origin</b>							
<i>by region of origin:</i>							
OPEC	:	-	266	-	-	-	-
Near and Middle East	:	-	354	324	-	-	-
Africa	:	-	75	-	-	-	-
<i>by country of origin:</i>							
Algeria	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-
<b>Refining capacity</b>							
Capacity at the end of year	<i>1 000 t/year</i>	-	-	-	-	-	-
<i>among which:</i>							
Cracking and others		-	-	-	-	-	-
Reforming		-	-	-	-	-	-


## 4.2 Petroleum products

 eurostat <i>in 1 000 t</i>	ROMÂNIA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	10 458	10 990	12 152	13 453	12 040	13 077	8.6%
<i>among which:</i>							
Motor spirit	2 448	2 629	2 734	3 572	3 297	3 422	3.8%
Kerosene and jet fuel	186	225	305	173	191	222	16.2%
Naphtha	569	591	639	670	460	639	38.9%
Gas/diesel oil	3 519	3 839	4 199	4 689	3 988	4 170	4.6%
Residual fuel oil	1 825	1 433	1 797	2 050	1 562	1 559	-0.2%
Total imports	1 592	1 562	2 679	1 844	1 934	1 928	-0.3%
Total exports	2 027	2 750	3 096	4 576	3 550	4 278	20.5%
Bunkers	-	-	-	-	-	-	-
Stock changes	292	348	-253	-1	76	-227	-398.7%
Gross inland consumption	-143	-840	-670	-2 733	-1 540	-2 577	-67.3%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	:	2	2	1	2	2	0.0%
United Kingdom	:	1	2	3	9	5	-44.4%
Norway	:	-	-	4	19	20	5.3%
OPEC	:	-	39	47	-	43	
Imports by product							
<i>among which:</i>							
Motor spirit	66	8	18	28	74	86	16.2%
Kerosene and jet fuel	52	40	21	17	40	41	2.5%
Gas/diesel oil	28	15	67	222	500	433	-13.4%
Residual fuel oil	1 304	1 305	2 186	1 204	947	671	-29.1%
Exports by product							
<i>among which:</i>							
Motor spirit	1 046	1 113	1 009	1 980	1 726	1 963	13.7%
Kerosene and jet fuel	23	67	75	44	84	91	8.3%
Gas/diesel oil	823	1 177	1 494	2 122	1 350	1 591	17.9%
Residual fuel oil	34	75	222	177	219	411	87.7%
<b>Consumption</b>							
Inputs to electricity plants	2 024	1 755	2 498	1 700	1 494	913	-38.9%
Inputs to heating plants	361	276	193	209	178	144	-19.1%
Non-energy use	1 157	1 335	1 464	1 575	1 465	1 741	18.8%
Final energy consumption	4 813	5 197	6 025	6 202	5 817	7 148	22.9%
Industry	1 168	1 246	1 522	1 427	925	1 005	8.6%
<i>among which by product:</i>							
Gas/diesel oil	335	394	534	494	382	334	-12.6%
Residual fuel oil	675	738	768	393	257	334	30.0%


 eurostat <i>in 1 000 t</i>	ROMÂNIA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>							
<i>among which by sector:</i>							
Iron&steel industry	211	222	187	149	125	158	26.4%
Non-ferrous metals	-	-	-	-	-	-	-
Chemical industry	138	231	432	424	257	314	22.2%
Non-met. mineral prod.	183	228	241	84	15	34	126.7%
Food, drink, tobacco	127	143	148	178	98	101	3.1%
Pulp, paper and print	47	30	34	23	25	23	-8.0%
Engineering & metal	95	84	120	112	116	43	-62.9%
Other industries	202	207	248	265	236	243	3.0%
<b>Transport</b>	2 938	3 140	3 756	4 042	4 085	4 891	19.7%
<i>among which:</i>							
Motor spirit	1 210	1 238	1 581	1 742	1 566	2 261	44.4%
Jet fuel	127	125	111	98	120	137	14.2%
Diesel oil	1 440	1 714	1 973	2 124	2 335	2 389	2.3%
<b>Services &amp; households etc.</b>	707	811	747	733	807	1 252	55.1%
<i>among which:</i>							
Gas oil	387	457	333	397	361	580	60.7%
Residual fuel oil	10	1	4	5	19	95	400.0%
<b>Stocks at end of period</b>							
Crude oil and feedstocks	606	706	497	673	579	815	40.8%
Petroleum products	1 529	970	1 285	1 270	1 194	1 423	19.2%




## 5. Natural gas

 eurostat	ROMÂNIA							04/03
	in TJ (GCV)							
	1999	2000	2001	2002	2003	2004		
<b>Primary production and supply</b>								
Primary production	520 668	510 237	501 496	493 064	485 135	482 759	-0.5%	
Total imports	118 099	126 151	107 387	145 601	197 100	191 269	-3.0%	
Total exports	-	-	-	-	-	-	-	
Stock changes	-	-	4 242	-4 656	2 974	-25 664	-962.9%	
Gross inland consumption	638 767	636 388	613 125	634 009	685 209	648 364	-5.4%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS	-	-	-	-	-	-	-	
Algeria	-	-	-	-	-	-	-	
Norway	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants	166 881	157 838	131 989	142 582	176 832	164 623	-6.9%	
Inputs to heat plants	70 759	65 451	58 161	48 864	40 694	37 146	-8.7%	
Consumption of energy branch	48 916	61 485	52 820	73 150	64 283	52 024	-19.1%	
Distribution losses	17 846	14 121	17 336	19 045	23 733	19 873	-16.3%	
Non-energy use	34 354	37 398	35 282	27 631	25 669	29 877	16.4%	
Industry	179 612	184 973	196 822	205 979	212 185	220 750	4.0%	
<i>among which:</i>								
Iron&steel industry	43 186	40 024	36 210	31 724	31 231	33 982	8.8%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	38 650	60 219	69 400	78 882	100 307	102 530	2.2%	
Non-met. mineral prod.	27 313	26 539	27 380	36 107	22 820	24 806	8.7%	
Food, drink, tobacco	14 063	13 415	20 881	13 027	14 913	16 075	7.8%	
Pulp, paper and print	4 704	5 713	5 171	5 825	6 566	4 185	-36.3%	
Engineering & metal	32 014	20 485	23 138	22 485	16 534	17 167	3.8%	
Other industries	9 973	11 576	6 881	7 244	9 729	13 732	41.1%	
Transport	-	88	3 120	1 020	-	-	-	
Services & households etc.	114 388	115 034	117 595	115 197	141 703	151 311	6.8%	
<i>among which:</i>								
Households	94 536	103 129	92 799	109 407	119 146	118 324	-0.7%	
Services	17 494	10 914	24 091	4 267	21 502	31 386	46.0%	


## 6.1 Hard coal


 eurostat <i>in 1 000 t</i>	ROMÂNIA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>							
Primary production	1 097	281	121	13	10	53	430.0%
Total imports	2 467	2 522	2 725	3 673	2 462	3 659	48.6%
Total exports	-	-	-	-	-	-	-
Stock changes	142	-154	65	-217	138	-92	-166.7%
Gross inland consumption	3 706	2 649	2 911	3 469	2 610	3 620	38.7%
<b>Imports</b>							
Imports by origin							
<i>among which:</i>							
USA	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-
CIS	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-
<b>Consumption</b>							
Inputs to electricity plants	310	321	549	292	-	382	
Inputs to heat plants	38	25	23	10	-	9	
Consumption of energy branch	24	11	20	10	3	5	66.7%
Industry	9	9	14	8	353	310	-12.2%
<i>among which:</i>							
Iron&steel industry	1	2	-	1	346	267	-22.8%
Non-ferrous metals	-	-	-	-	-	-	-
Chemical industry	1	1	7	-	-	38	
Non-met. mineral prod.	5	5	5	7	7	2	-71.4%
Food, drink, tobacco	-	-	-	-	-	3	
Pulp, paper and print	-	-	1	-	-	-	-
Engineering & metal	1	1	-	-	-	-	-
Other industries	1	-	1	-	-	-	-
Services & households etc.	46	45	2	3	-	29	
<b>Structural data</b>							
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-

## 6.2 Coal derivatives and peat

 eurostat	ROMÂNIA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	1 716	1 613	1 413	1 866	1 638	1 675	2.3%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	21 796	29 013	33 168	30 415	33 053	31 739	-4.0%
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	9 799	9 238	9 590	12 775	10 161	11 323	11.4%
Blast-furnace gas	17 126	17 002	20 423	24 624	24 972	26 514	6.2%
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	1 292	911	1 328	1 595	1 756	1 780	1.4%
<i>among which:</i>							
Iron & steel industry	1 292	823	1 246	1 483	1 658	1 707	3.0%
Services & households	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	804	549	772	759	682	802	17.6%
<i>among which:</i>							
Industry	652	545	697	614	579	600	3.6%
Services & households	152	4	75	145	102	202	98.0%
Brown coal briquettes	-	-	-	-	-	-	-
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	-	-	-	-	-	-	-
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	7 471	7 401	4 472	6 192	4 461	4 912	10.1%
Blast-furnace gas	11 834	11 534	12 419	14 145	16 869	17 453	3.5%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	2 363	4 970	5 187	5 037	4 553	4 201	-7.7%
Inputs to heat plants	645	-	-	-	-	-	-
Consumption of energy branch	2 750	1 863	7 066	11 099	8 367	9 712	16.1%
Consumption in industry	19 304	18 935	16 891	20 337	21 330	22 365	4.9%


## 7. Renewable energy sources

		ROMÂNIA						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	4 400	4 040	3 419	3 748	4 061	4 661	14.8%
Hydro (excl. pumping)		1 573	1 271	1 283	1 380	1 140	1 420	24.5%
Wind		-	-	-	-	-	-	-
Solar		-	-	-	-	-	-	-
Geothermal		8	7	5	17	18	80	346.8%
Biomass		2 820	2 763	2 130	2 351	2 903	3 160	8.9%
	<i>among which:</i>							
Wood, wood-waste		2 820	2 763	2 130	2 351	2 903	3 160	8.9%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Gross inland consumption		4 400	4 041	3 423	3 749	4 002	4 634	15.8%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	2	0	1	190.1%
Biomass		10	20	9	83	16	65	304.1%
	<i>among which:</i>							
Wood, wood-waste		10	20	9	83	16	65	304.1%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	2 806	2 741	2 121	2 272	2 835	3 126	10.3%
	<i>by sector:</i>							
Industry		224	261	230	324	476	263	-44.7%
Services & households etc.		2 582	2 480	1 891	1 947	2 359	2 863	21.4%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		2 801	2 735	2 116	2 257	2 818	3 047	8.1%
	<i>among which:</i>							
Wood, wood-waste		2 801	2 735	2 116	2 257	2 818	3 047	8.1%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		5	6	5	15	17	79	379.3%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		-	-	-	54	72	86	19.4%
Hydro with installed capacity > 1 & <10 MW		-	-	-	382	398	572	43.7%
Hydro with installed capacity > 10 MW		18 290	14 778	14 923	15 610	12 789	15 855	24.0%
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	3	-	-	-

	ROMÂNIA						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	:	:	:	70	74	64	-13.5%
Hydro with installed capacity > 1 & <10 MW	:	:	:	276	274	255	-6.9%
Hydro with installed capacity > 10 MW	:	:	:	5 896	5 900	5 960	1.0%
Wood, Wood-waste	-	251	151	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	-	-	3	-	-	-
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	-	-	-	-	-	-	-


# 1. Energy economy

## Key figures and energy indicators

		TÜRKIYE					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	27 526	26 715	25 065	24 627	23 857	24 193
Net energy imports		43 347	50 873	46 070	51 002	56 655	58 574
Net oil imports		26 418	29 285	26 831	28 510	28 451	29 378
Net gas imports		10 062	12 051	13 217	14 340	17 283	18 123
Gross inland energy consumption		71 042	77 374	71 370	75 341	79 278	81 859
Final energy consumption		49 163	54 142	48 555	53 125	56 675	58 131
Industry		16 464	20 184	15 865	19 424	21 206	21 129
Transport		11 558	12 167	11 667	12 550	12 587	12 810
Services and households etc.		21 141	21 791	21 023	21 151	22 882	24 192
Gross electricity generation	GWh	116 440	124 922	122 725	129 400	140 581	150 698
Final electricity consumption		89 205	95 873	95 315	101 532	110 364	119 483
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	146 451	157 229	145 444	156 995	166 092	180 925
Population	1000 per.	65 819	67 461	68 610	69 666	70 172	70 690
Industry added value	Mio EUR	46 030	48 699	45 191	48 411	51 083	55 582
Total imports (current prices)	Mio EUR	45 902	57 563	43 266	50 113	63 675	79 398
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	485.1	492.1	490.7	479.9	477.3	452.4
Final energy consumption / GDP(95)		335.7	344.4	333.8	338.4	341.2	321.3
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		357.7	414.5	351.1	401.2	415.1	380.1
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		19.8	20.6	30.6	31.5	33.8	34.7
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	1 079	1 147	1 040	1 081	1 130	1 158
Final energy consumption / capita		747	803	708	763	808	822
Household consumption / capita		252	252	226	217	237	243
Final electricity consumption / capita	kWh/cap.	1 355	1 421	1 389	1 457	1 573	1 690
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	60.8	65.4	64.3	67.2	70.9	70.4
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	69.2	70.0	68.0	70.5	71.5	71.0
Efficiency of thermal power stations		37.8	38.5	39.0	40.0	41.6	41.1

## 2. Energy balance

### Principal aggregates by product

 eurostat	TÜRKIYE						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	27 526	26 715	25 065	24 627	23 857	24 193	1.4%
<i>among which:</i> Hard coal	1 042	1 168	1 268	1 171	1 289	1 367	6.0%
Lignite and peat	12 240	12 125	11 608	10 655	9 721	9 232	-5.0%
Crude oil	2 937	2 746	2 508	2 414	2 349	2 245	-4.5%
Natural Gas	602	526	257	311	461	566	22.9%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	2 982	2 655	2 064	2 896	3 038	3 963	30.4%
Biomass	6 798	6 546	6 303	6 039	5 783	5 550	-4.0%
<b>Imports</b>							
Total	45 778	52 132	48 544	54 001	60 964	63 439	4.1%
<i>among which:</i> Hard coal	6 377	8 740	5 295	7 395	10 516	10 858	3.3%
Crude oil and feedstocks	22 950	21 458	23 129	23 599	24 078	23 851	-0.9%
Petroleum products	5 873	9 049	6 139	7 873	8 632	10 295	19.3%
Natural Gas	10 062	12 051	13 217	14 340	17 283	18 123	4.9%
Electricity	200	326	394	309	100	40	-60.0%
<b>Exports</b>							
Total	2 430	1 259	2 474	2 999	4 309	4 866	12.9%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	2 406	1 222	2 437	2 962	4 259	4 767	11.9%
Natural gas	-	-	-	-	-	-	-
Electricity	25	38	37	37	51	98	94.6%
<b>Gross inland consumption</b>							
Total	71 042	77 374	71 370	75 341	79 278	81 859	3.3%
<i>among which:</i> Solid fuels	20 078	23 278	19 235	19 601	21 514	22 205	3.2%
Crude oil and petrol. prod.	29 476	31 005	28 969	30 644	29 948	30 220	0.9%
Natural gas	10 591	12 638	13 372	14 735	17 721	18 709	5.6%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	10 705	10 149	9 424	10 077	10 036	10 783	7.4%
<b>Transformation input</b>							
Total	48 502	48 742	50 591	50 144	52 341	52 238	-0.2%
<i>among which:</i> Crude oil and feedstocks	25 944	23 819	25 437	26 185	26 700	26 209	-1.8%
Petroleum products	2 240	2 775	2 536	2 329	2 090	1 880	-10.0%
Hard coal	3 914	3 968	3 501	3 417	4 824	5 637	16.9%
Lignite and peat	8 642	8 891	8 893	7 347	6 192	5 963	-3.7%
Renewables	153	155	171	156	112	99	-11.7%
<b>Transformation output</b>							
Total	35 867	35 030	36 709	37 203	38 863	38 431	-1.1%
<i>among which:</i> Electricity	7 029	8 083	8 483	8 226	9 045	8 990	-0.6%
Heat	-	-	-	-	-	-	-

**Final energy consumption**

Total	49 163	54 142	48 555	53 125	56 675	58 131	2.6%
<i>among which:</i> Solid fuels	7 681	10 687	7 273	9 317	10 853	10 969	1.1%
Petroleum products	21 832	22 970	21 063	22 822	22 747	22 661	-0.4%
Natural Gas	3 891	4 364	4 328	4 769	6 218	7 065	13.6%
Renewables	7 569	7 336	7 184	7 021	6 881	6 717	-2.4%
Electricity	7 670	8 244	8 196	8 730	9 490	10 274	8.3%

**Final energy consumption by sector**
**Industry**

Total	16 464	20 184	15 865	19 424	21 206	21 129	-0.4%
<i>among which:</i> Solid fuels	6 350	9 271	6 041	8 043	9 269	9 193	-0.8%
Petroleum Products	4 173	4 645	3 938	4 987	4 861	4 198	-13.6%
Natural Gas	1 520	1 667	1 389	1 607	1 853	2 179	17.6%
Renewables	76	97	118	119	119	121	1.7%
Electricity	3 825	3 963	3 869	4 203	4 617	4 991	8.1%

**Transport**


Total	11 558	12 167	11 667	12 550	12 587	12 810	1.8%
<i>among which:</i> Motor spirit	4 474	3 803	3 139	3 279	2 811	2 494	-11.3%
Diesel oil	4 992	5 511	5 706	6 270	6 645	6 913	4.0%
Jet fuel	1 182	1 261	1 241	1 632	1 740	1 861	7.0%
Electricity	36	66	57	66	61	51	-16.4%

**Services&households**


Total	21 141	21 791	21 023	21 151	22 882	24 192	5.7%
<i>among which:</i> Solid fuels	1 331	1 416	1 233	1 275	1 584	1 776	12.1%
Gas oil	2 634	2 634	2 624	2 865	2 584	2 908	12.5%
Natural Gas	2 369	2 695	2 937	3 159	4 361	4 882	11.9%
Renewables	7 493	7 239	7 066	6 902	6 762	6 596	-2.5%
Electricity	3 809	4 215	4 270	4 462	4 811	5 232	8.7%
Heat	-	-	-	-	-	-	-




### 3.1 Electricity balance

 eurostat	TÜRKIYE						
	in GWh						
	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>							
Total gross generation	116 440	124 922	122 725	129 400	140 581	150 698	7.2%
<i>among which:</i>							
Hydro	34 677	30 879	24 010	33 683	35 330	46 084	30.4%
Wind	21	33	62	48	61	58	-4.9%
Geothermal	81	76	90	105	89	93	4.5%
Nuclear	-	-	-	-	-	-	-
Conventional thermal	81 661	93 934	98 563	95 564	105 101	104 463	-0.6%
<i>of which:</i>							
Hard coal	2 312	2 964	3 367	3 370	7 830	11 116	42.0%
Lignite and peat	33 908	34 366	34 371	28 056	23 590	22 449	-4.8%
Petroleum products	8 079	9 311	10 367	10 744	9 197	7 670	-16.6%
Natural gas	36 347	46 216	49 550	52 497	63 536	62 241	-2.0%
Derived gases	811	857	678	723	832	883	6.1%
Biomass	149	166	133	130	80	76	-5.0%
Industrial wastes	55	54	97	44	36	28	-22.2%
Total net generation	110 702	118 698	116 251	123 727	135 248	145 066	7.3%
<b>Imports and exports</b>							
Total imports	2 330	3 791	4 579	3 588	1 158	463	-60.0%
Total exports	285	437	433	435	588	1 144	94.6%
<b>Consumption and losses</b>							
Consumption of the energy branch	7 735	8 647	8 227	7 089	6 735	7 291	8.3%
<i>of which:</i>							
Consumption for pumped-storage	-	-	-	-	-	-	-
Network losses	21 545	23 756	23 329	23 932	24 052	23 243	-3.4%
Final energy consumption	89 205	95 873	95 315	101 532	110 364	119 483	8.3%
<i>of which:</i>							
Industry	44 483	46 089	44 998	48 876	53 697	58 042	8.1%
<i>among which:</i>							
Iron&steel industry	7 735	8 395	8 062	8 074	9 582	10 940	14.2%
Non-ferrous metals	2 687	2 514	2 523	2 544	3 081	2 697	-12.5%
Chemical industry	3 332	2 621	2 409	2 835	3 396	4 390	29.3%
Non-met. mineral prod.	6 506	5 870	5 484	4 929	5 602	6 080	8.5%
Food, drink, tobacco	3 335	3 091	3 150	3 194	4 142	3 485	-15.9%
Pulp, paper and print	1 427	1 644	1 166	1 202	1 592	1 238	-22.2%
Engineering & metal	2 074	2 483	2 161	2 291	2 737	2 418	-11.7%
Other industries	9 167	9 730	10 348	12 987	11 051	14 905	34.9%
Transport	423	765	660	762	713	596	-16.4%
Services & households etc.	44 299	49 019	49 657	51 894	55 954	60 845	8.7%
<i>among which:</i>							
Households	22 584	23 888	23 557	23 559	25 195	27 619	9.6%

### 3.2 Electrical capacity, fuel inputs and heat


	TÜRKIYE							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	26 120	27 264	28 332	31 846	35 587	36 824	3.5%
<i>by source:</i>								
Conventional thermal		15 556	16 052	16 622	19 568	22 974	24 145	5.1%
<i>of which:</i>								
Steam		8 826	8 515	8 601	8 610	8 565	8 580	0.2%
Gas turbine		4 745	449	452	427	655	675	3.1%
Combined cycle		1 797	6 854	7 030	9 571	12 454	13 512	8.5%
Internal combustion		188	234	539	960	1 293	1 353	4.6%
Nuclear		-	-	-	-	-	-	-
Hydro		10 537	11 175	11 673	12 241	12 579	12 645	0.5%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		9	19	19	19	19	19	0.0%
Geothermal		18	18	18	18	15	15	0.0%
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		23 465	24 268	24 958	28 110	31 045	32 444	4.5%
Autoproducers		2 655	2 996	3 374	3 736	4 542	4 380	-3.6%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	18 606	20 977	21 748	20 546	21 734	21 891	0.7%
<i>among which:</i>								
Hard coal		772	867	874	823	1 841	2 435	32.3%
Lignite and peat		8 641	8 890	8 892	7 346	6 178	5 921	-4.2%
Petroleum products		2 240	2 775	2 536	2 329	2 090	1 880	-10.0%
Natural gas		6 332	7 823	8 835	9 422	10 962	10 995	0.3%
Renewables		153	155	171	156	112	99	-11.7%
Heating plants		-	-	-	-	-	-	-
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		-	-	-	-	-	-	-
<b>Heat production and consumption</b>								
Total heat production	TJ	-	-	-	-	-	-	-
<i>among which: in heating plants</i>								
Heat consumption		-	-	-	-	-	-	-
<i>of which: in industry</i>								
in households and services		-	-	-	-	-	-	-
<i>among which: in households</i>								
		-	-	-	-	-	-	-

## 4.1 Crude oil and feedstocks


 eurostat	TÜRKIYE							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		2 941	2 762	2 520	2 420	2 351	2 251	-4.3%
Total imports		22 985	21 583	23 242	23 662	24 095	23 918	-0.7%
Total exports		-	-	-	-	-	-	-
Stock changes		-11	-310	-188	130	49	-185	-477.6%
Refinery intake		25 979	23 957	25 560	26 252	26 717	26 281	-1.6%
<b>Imports of Crude Oil by origin</b>								
<i>by region of origin:</i>								
OPEC	:	17 418	12 913	15 421	17 534	16 110		-8.1%
Near and Middle East	:	11 606	10 851	13 658	14 144	11 767		-16.8%
Africa	:	5 812	4 565	4 335	4 937	5 450		10.4%
<i>by country of origin:</i>								
Algeria	:	2 218	80	267	240	397		65.4%
Nigeria	-	-	-	-	-	-		-
Saudi Arabia	:	3 726	3 525	3 865	3 868	3 450		-10.8%
Kuwait	-	-	-	-	-	-		-
United Arab Emirates	-	-	-	-	-	-		-
Norway	-	-	-	-	-	-		-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

## 4.2 Petroleum products


eurostat	TÜRKIYE							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output		25 653	23 745	25 374	26 037	26 461	26 002	-1.7%
<i>among which:</i>								
Motor spirit		3 300	2 744	2 968	3 718	3 837	3 479	-9.3%
Kerosene and jet fuel		1 144	1 050	1 230	1 650	1 762	1 831	3.9%
Naphtha		1 882	1 852	2 026	1 453	1 354	1 573	16.2%
Gas/diesel oil		7 711	6 646	7 340	7 720	8 087	7 665	-5.2%
Residual fuel oil		8 379	8 022	8 456	7 970	8 038	7 845	-2.4%
Total imports		5 593	8 669	5 791	7 536	8 256	9 876	19.6%
Total exports		2 459	1 310	2 570	3 031	4 193	4 777	13.9%
Bunkers		283	405	237	535	622	1 342	115.8%
Stock changes		431	-353	91	106	-299	101	133.8%
Gross inland consumption		3 282	6 601	3 075	4 076	3 142	3 858	22.8%
<b>Imports and exports</b>								
Imports by origin								
<i>among which:</i>								
Netherlands		:	68	-	34	85	-	
United Kingdom		:	152	85	52	139	66	-52.5%
Norway		:	668	597	827	785	666	-15.2%
OPEC		:	3 018	2 429	1 985	1 327	1 530	15.3%
Imports by product								
<i>among which:</i>								
Motor spirit		1 145	837	437	450	447	759	69.8%
Kerosene and jet fuel		85	166	-	17	152	184	21.1%
Gas/diesel oil		1 111	2 470	1 596	2 409	2 715	3 818	40.6%
Residual fuel oil		170	701	226	821	736	785	6.7%
Exports by product								
<i>among which:</i>								
Motor spirit		42	-	174	1 113	1 654	1 865	12.8%
Kerosene and jet fuel		35	2	5	18	146	200	37.0%
Gas/diesel oil		701	26	208	582	931	564	-39.4%
Residual fuel oil		1 109	575	1 007	423	525	1 102	109.9%
<b>Consumption</b>								
Inputs to electricity plants		2 312	2 850	2 627	2 412	2 157	1 946	-9.8%
Inputs to heating plants		-	-	-	-	-	-	-
Non-energy use		3 608	3 461	3 359	3 539	3 318	3 971	19.7%
Final energy consumption		21 393	22 439	20 611	22 389	22 341	22 193	-0.7%
Industry								
<i>among which by product:</i>								
Gas/diesel oil		266	260	142	172	227	83	-63.4%
Residual fuel oil		3 989	4 048	3 562	4 170	4 401	3 860	-12.3%

 eurostat	TÜRKIYE							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry	436	463	429	404	374	252	-32.6%	
Non-ferrous metals	299	277	276	276	276	277	0.4%	
Chemical industry	822	891	790	885	884	1 421	60.7%	
Non-met. mineral prod.	60	67	63	57	55	51	-7.3%	
Food, drink, tobacco	125	10	554	637	264	238	-9.8%	
Pulp, paper and print	200	196	-	220	274	210	-23.4%	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	2 084	2 482	1 948	2 298	2 517	1 587	-36.9%	
<b>Transport</b>	11 155	11 700	11 240	12 111	12 167	12 396	1.9%	
<i>among which:</i>								
Motor spirit	4 257	3 619	2 987	3 120	2 675	2 373	-11.3%	
Jet fuel	1 151	1 228	1 208	1 589	1 694	1 812	7.0%	
Diesel oil	4 941	5 455	5 648	6 206	6 577	6 842	4.0%	
<b>Services &amp; households etc.</b>	5 898	5 962	5 311	5 181	5 157	5 466	6.0%	
<i>among which:</i>								
Gas oil	2 607	2 607	2 597	2 836	2 558	2 878	12.5%	
Residual fuel oil	743	636	596	604	500	295	-41.0%	
<b>Stocks at end of period</b>								
Crude oil and feedstocks	4 782	5 092	5 280	5 150	5 101	5 286	3.6%	
Petroleum products	1 936	2 289	2 233	2 092	2 391	2 290	-4.2%	

## 5. Natural gas

 eurostat	TÜRKIYE							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		27 997	24 474	11 950	14 477	21 448	26 350	22.9%
Total imports		468 106	560 616	614 878	667 112	803 993	843 063	4.9%
Total exports		-	-	-	-	-	-	-
Stock changes		-3 405	2 817	-4 771	3 903	-1 073	949	188.4%
Gross inland consumption		492 698	587 907	622 057	685 492	824 368	870 362	5.6%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		294 576	363 948	411 000	438 324	509 954	511 473	0.3%
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		5 007	5 476	5 316	5 741	6 544	9 388	43.5%
Distribution losses		1 083	1 200	780	805	821	865	5.4%
Non-energy use		5 493	4 275	3 608	18 754	17 791	19 994	12.4%
Industry		70 704	77 540	64 606	74 769	86 201	101 372	17.6%
<i>among which:</i>								
Iron&steel industry		10 461	11 423	10 400	12 866	14 793	19 906	34.6%
Non-ferrous metals		7 985	8 783	7 520	7 800	8 905	9 604	7.8%
Chemical industry		10 061	10 610	13 109	12 749	14 548	16 341	12.3%
Non-met. mineral prod.		16 530	18 561	13 494	15 628	17 348	22 062	27.2%
Food, drink, tobacco		3 873	4 139	4 034	2 496	3 516	5 027	43.0%
Pulp, paper and print		2 245	2 973	1 589	1 911	2 152	2 575	19.7%
Engineering & metal		1 900	1 904	1 443	2 120	2 070	3 386	63.6%
Other industries		9 200	10 289	7 120	7 269	9 229	10 128	9.7%
Transport		119	120	130	146	165	155	-6.1%
Services & households etc.		110 200	125 374	136 625	146 953	202 892	227 115	11.9%
<i>among which:</i>								
Households		110 200	125 374	107 945	112 408	156 399	169 393	8.3%
Services		:	:	28 680	34 545	46 493	57 722	24.2%

## 6.1 Hard coal


 eurostat	TÜRKIYE							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	2 019	2 281	2 388	2 250	2 395	2 668	11.4%	
Total imports	8 864	12 990	8 028	11 693	16 166	16 427	1.6%	
Total exports	-	-	-	-	-	-	-	
Stock changes	508	144	654	-182	-690	531	177.0%	
Gross inland consumption	11 391	15 415	11 070	13 761	17 871	19 626	9.8%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	
Poland	-	-	-	-	-	-	-	
CIS	-	-	-	-	-	-	-	
Australia	-	-	-	-	-	-	-	
South Africa	-	-	-	-	-	-	-	
Colombia	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants	1 729	1 980	2 214	1 995	3 706	4 565	23.2%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry								
<i>among which:</i>								
Iron&steel industry	-	-	-	-	-	-	-	
Non-ferrous metals	72	32	73	76	80	89	11.3%	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	24	30	54	55	66	68	3.0%	
Food, drink, tobacco	193	167	154	144	113	122	8.0%	
Pulp, paper and print	12	15	14	15	17	18	5.9%	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	4 553	8 182	4 146	7 018	8 788	9 450	7.5%	
Services & households etc.	691	782	834	921	1 034	949	-8.2%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	


## 6.2 Coal derivatives and peat

eurostat	TÜRKIYE						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	2 802	2 925	2 587	2 598	2 878	2 990	3.9%
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	65 019	60 854	59 572	51 660	46 168	43 709	-5.3%
Brown coal briquettes	2	2	2	2	47	159	238.3%
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	21 710	21 728	18 826	18 070	20 921	21 807	4.2%
Blast-furnace gas	32 952	34 374	31 713	33 374	37 074	36 411	-1.8%
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	2 129	2 386	2 096	1 993	2 121	2 055	-3.1%
<i>among which:</i>							
Iron & steel industry	1 810	1 936	1 800	1 599	1 736	1 837	5.8%
Services & households	27	47	22	43	159	75	-52.8%
Patent Fuel	-	-	-	-	-	-	-
<i>among which:</i>							
Services & households	-	-	-	-	-	-	-
Lignite and peat	10 267	11 904	8 223	10 123	10 575	10 906	3.1%
<i>among which:</i>							
Industry	5 198	6 978	5 640	6 417	6 331	5 409	-14.6%
Services & households	5 069	4 926	2 583	3 706	4 244	5 497	29.5%
Brown coal briquettes	2	2	2	2	47	159	238.3%
<i>among which:</i>							
Industry	-	-	-	-	-	-	-
Services & households	2	2	2	2	47	159	238.3%
<b>Total derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	11 506	12 073	10 605	8 550	9 114	9 007	-1.2%
Blast-furnace gas	11 396	11 770	11 835	11 794	12 207	10 613	-13.1%
Gasworks gas	-	-	-	-	-	-	-
Inputs to electricity plants	19 406	19 219	18 283	19 645	23 195	24 060	3.7%
Inputs to heat plants	-	-	-	-	-	-	-
Consumption of energy branch	12 256	12 427	9 816	10 511	10 558	13 354	26.5%
Consumption in industry	22 902	23 843	22 440	20 344	21 321	19 620	-8.0%




## 7. Renewable energy sources

		TURKIYE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	10 705	10 149	9 424	10 077	10 036	10 783	7.4%
Hydro (excl. pumping)		2 982	2 655	2 064	2 896	3 038	3 963	30.4%
Wind		2	3	5	4	5	5	-4.9%
Solar		236	262	287	318	350	375	7.1%
Geothermal		688	684	764	820	860	891	3.6%
Biomass		6 798	6 546	6 303	6 039	5 783	5 550	-4.0%
	<i>among which:</i>							
Wood, wood-waste		6 794	6 541	6 297	6 032	5 775	5 542	-4.0%
Municipal solid waste		-	-	-	-	-	-	-
Biogas		4	5	6	7	8	7	-8.8%
Gross inland consumption		10 705	10 149	9 424	10 077	10 036	10 783	7.4%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		70	65	77	90	76	80	5.0%
Biomass		83	90	93	66	36	19	-47.2%
	<i>among which:</i>							
Wood, wood-waste		79	85	87	59	28	11	-58.5%
Municipal waste		-	-	-	-	-	-	-
Biogas		4	5	6	7	8	7	-8.8%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	7 569	7 336	7 184	7 021	6 881	6 717	-2.4%
	<i>by sector:</i>							
Industry		76	97	118	119	119	121	1.7%
Services & households etc.		7 493	7 239	7 066	6 902	6 762	6 596	-2.5%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		6 715	6 456	6 210	5 973	5 747	5 531	-3.8%
	<i>among which:</i>							
Wood, wood-waste		6 715	6 456	6 210	5 973	5 747	5 531	-3.8%
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		618	618	687	730	784	811	3.4%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		29	31	36	53	56	55	-1.8%
Hydro with installed capacity > 1 & <10 MW		297	313	375	456	413	490	18.6%
Hydro with installed capacity > 10 MW		34 351	30 533	23 599	33 174	34 861	45 539	30.6%
Wood, Wood-waste		133	145	109	103	48	46	-4.2%
Municipal waste		-	-	-	-	-	-	-
Biogas		16	21	24	26	32	30	-6.3%

		TURKIYE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>								
	<i>in MW</i>							
Solar photovoltaics (peak)		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		16	16	18	16	15	15	0.0%
Hydro with installed capacity > 1 & <10 MW		122	136	183	142	142	160	12.7%
Hydro with installed capacity > 10 MW		10 399	11 023	11 472	12 083	12 422	12 470	0.4%
Wood, Wood-waste		72	72	72	72	72	72	0.0%
Municipal waste		-	-	-	-	-	-	-
Biogas		3	4	4	9	9	9	0.0%
<b>Liquid biofuels</b>								
Production	<i>1000 t</i>	-	-	-	-	-	-	-
<b>Solar Panels</b>								
Solar panel surface	<i>1000 m<sup>2</sup></i>	-	-	-	-	-	-	-


# 1. Energy economy

## Key figures and energy indicators

		ISLAND					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	2 191	2 306	2 451	2 462	2 457	2 519
Net energy imports		967	1 030	942	963	932	1 065
Net oil imports		908	931	847	865	839	960
Net gas imports		-	-	-	-	-	-
Gross inland energy consumption		3 074	3 230	3 349	3 382	3 373	3 483
Final energy consumption		1 953	2 057	2 071	2 152	2 160	2 267
Industry		578	662	694	731	720	742
Transport		329	345	329	316	319	345
Services and households etc.		1 045	1 051	1 048	1 105	1 122	1 180
Gross electricity generation	GWh	7 188	7 684	8 033	8 416	8 500	8 623
Final electricity consumption		6 383	6 911	7 212	7 519	7 541	7 760
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	6 390	6 712	6 936	6 848	7 093	7 530
Population	1000 per.	276	279	283	287	289	291
Industry added value	Mio EUR	1 579	1 699	1 738	1 635	1 761	1 896
Total imports (current prices)	Mio EUR	2 766	3 001	2 729	2 658	2 943	3 360
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	481.1	481.2	482.8	493.9	475.6	462.5
Final energy consumption / GDP(95)		305.6	306.5	298.5	314.2	304.5	301.0
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		366.3	389.6	399.3	446.8	408.7	391.3
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		36.1	34.4	33.7	34.8	34.6	35.6
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	11 152	11 576	11 818	11 802	11 693	11 985
Final energy consumption / capita		7 083	7 374	7 306	7 507	7 488	7 801
Household consumption / capita		2 124	2 160	2 200	2 303	2 281	2 444
Final electricity consumption / capita	kWh/cap.	23 152	24 771	25 448	26 235	26 139	26 703
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	30.9	31.2	27.7	27.9	27.1	30.0
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	63.5	63.7	61.8	63.6	64.0	65.1
Efficiency of thermal power stations		26.1	25.3	23.1	27.9	27.2	35.3

## 2. Energy balance

### Principal aggregates by product

 eurostat	ISLAND						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	2 191	2 306	2 451	2 462	2 457	2 519	2.5%
<i>among which:</i> Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Crude oil	-	-	-	-	-	-	-
Natural Gas	-	-	-	-	-	-	-
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	520	547	566	600	609	613	0.6%
Biomass	1	2	1	2	2	2	40.0%
<b>Imports</b>							
Total	967	1 030	942	963	932	1 065	14.3%
<i>among which:</i> Hard coal	40	68	66	66	57	70	22.4%
Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	908	931	847	865	839	960	14.5%
Natural Gas	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-
<b>Exports</b>							
Total	-	-	-	-	-	-	-
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	-	-	-	-	-	-	-
Natural gas	-	-	-	-	-	-	-
Electricity	-	-	-	-	-	-	-
<b>Gross inland consumption</b>							
Total	3 074	3 230	3 349	3 382	3 373	3 483	3.2%
<i>among which:</i> Solid fuels	59	100	94	98	93	105	13.0%
Crude oil and petrol. prod.	825	824	804	822	823	859	4.3%
Natural gas	-	-	-	-	-	-	-
Nuclear Energy	-	-	-	-	-	-	-
Renewables	2 191	2 306	2 451	2 462	2 457	2 519	2.5%
<b>Transformation input</b>							
Total	1 093	1 132	1 269	1 271	1 222	1 262	3.3%
<i>among which:</i> Crude oil and feedstocks	-	-	-	-	-	-	-
Petroleum products	11	1	1	1	1	1	0.0%
Hard coal	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Renewables	1 083	1 131	1 268	1 270	1 221	1 261	3.3%
<b>Transformation output</b>							
Total	308	307	313	376	353	465	31.6%
<i>among which:</i> Electricity	98	114	125	124	121	128	5.5%
Heat	210	192	188	252	232	337	45.3%

**Final energy consumption**

Total	1 953	2 057	2 071	2 152	2 160	2 267	4.9%
<i>among which:</i> Solid fuels	59	100	94	98	93	105	13.0%
Petroleum products	697	700	670	683	689	711	3.2%
Natural Gas	-	-	-	-	-	-	-
Renewables	456	490	516	497	521	480	-7.8%
Electricity	549	594	620	647	648	667	2.9%

**Final energy consumption by sector**
**Industry**

Total	578	662	694	731	720	742	3.1%
<i>among which:</i> Solid fuels	59	100	94	98	93	105	13.0%
Petroleum Products	107	112	125	132	122	128	4.8%
Natural Gas	-	-	-	-	-	-	-
Renewables	-	-	-	-	-	-	-
Electricity	413	451	475	501	504	509	0.9%


**Transport**

Total	329	345	329	316	319	345	8.1%
<i>among which:</i> Motor spirit	153	151	152	153	153	158	2.7%
Diesel oil	48	52	53	54	55	63	14.8%
Jet fuel	127	141	121	107	109	124	14.2%
Electricity	-	-	-	-	-	-	-


**Services&households**

Total	1 045	1 051	1 048	1 105	1 122	1 180	5.2%
<i>among which:</i> Solid fuels	-	-	-	-	-	-	-
Gas oil	248	227	194	223	234	235	0.4%
Natural Gas	-	-	-	-	-	-	-
Renewables	456	490	516	497	521	480	-7.8%
Electricity	136	144	146	146	144	158	10.1%
Heat	193	173	170	227	209	304	45.1%


### 3.1 Electricity balance

 eurostat	ISLAND							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation		7 188	7 684	8 033	8 416	8 500	8 623	1.4%
<i>among which:</i>								
Hydro		6 047	6 356	6 578	6 977	7 088	7 134	0.6%
Wind		-	-	-	-	-	-	-
Geothermal		1 136	1 323	1 451	1 433	1 406	1 483	5.5%
Nuclear		-	-	-	-	-	-	-
Conventional thermal		5	5	4	6	6	6	0.0%
<i>of which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		5	5	4	6	-	4	-
Natural gas		-	-	-	-	-	-	-
Derived gases		-	-	-	-	-	-	-
Biomass		-	-	-	-	-	2	-
Industrial wastes		-	-	-	-	6	-	-
Total net generation		7 071	7 554	7 892	8 272	8 356	8 475	1.4%
<b>Imports and exports</b>								
Total imports		-	-	-	-	-	-	-
Total exports		-	-	-	-	-	-	-
<b>Consumption and losses</b>								
Consumption of the energy branch		419	457	468	477	469	481	2.6%
<i>of which:</i>								
Consumption for pumped-storage		-	-	-	-	-	-	-
Network losses		386	316	353	420	490	382	-22.0%
Final energy consumption		6 383	6 911	7 212	7 519	7 541	7 760	2.9%
<i>of which:</i>								
Industry		4 798	5 240	5 519	5 822	5 867	5 917	0.9%
<i>among which:</i>								
Iron&steel industry		674	984	998	1 039	1 050	1 031	-1.8%
Non-ferrous metals		3 490	3 605	3 887	4 170	4 180	4 202	0.5%
Chemical industry		137	108	87	29	20	20	0.0%
Non-met. mineral prod.		42	45	44	32	31	41	32.3%
Food, drink, tobacco		362	392	390	428	478	466	-2.5%
Pulp, paper and print		20	19	18	16	15	17	13.3%
Engineering & metal		13	14	14	17	14	15	7.1%
Other industries		33	40	47	59	48	98	104.2%
Transport		-	-	-	-	-	-	-
Services & households etc.		1 585	1 671	1 693	1 697	1 674	1 843	10.1%
<i>among which:</i>								
Households		581	606	608	637	612	672	9.8%

## 3.2 Electrical capacity, fuel inputs and heat


	ISLAND							
	1999	2000	2001	2002	2003	2004	04/03	
<b>Net electrical capacity</b>								
Total installed capacity	MW	1 335	1 383	1 460	1 505	1 507	1 503	-0.3%
<i>by source:</i>								
Conventional thermal		147	147	149	149	150	142	-5.3%
<i>of which:</i>								
Steam		-	-	-	-	-	-	-
Gas turbine		35	35	35	35	35	35	0.0%
Combined cycle		-	-	-	-	-	-	-
Internal combustion		112	112	114	114	115	107	-7.0%
Nuclear		-	-	-	-	-	-	-
Hydro		1 016	1 064	1 109	1 154	1 155	1 159	0.3%
<i>among which:</i>								
Pumped storage		-	-	-	-	-	-	-
Wind		-	-	-	-	-	-	-
Geothermal		172	172	202	202	202	202	0.0%
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		1 304	1 352	1 429	1 474	1 476	1 472	-0.3%
Autoproducers		31	31	31	31	31	31	0.0%
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	1 067	1 109	1 246	1 247	1 198	1 238	3.4%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		1	1	1	1	1	1	0.0%
Natural gas		-	-	-	-	-	-	-
Renewables		1 066	1 108	1 245	1 246	1 197	1 237	3.4%
Heating plants		27	23	22	24	24	24	0.0%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		10	-	-	-	-	-	-
Natural gas		-	-	-	-	-	-	-
Renewables		17	23	22	24	24	24	0.0%
<b>Heat production and consumption</b>								
Total heat production	TJ	210	192	188	252	232	337	45.3%
<i>among which: in heating plants</i>								
		30	26	25	28	28	27	-1.7%
Heat consumption		193	173	170	227	209	304	45.1%
<i>of which: in industry</i>								
		-	-	-	-	-	-	-
		193	173	170	227	209	304	45.1%
<i>among which: in households</i>								
		159	147	144	197	180	269	49.2%


## 4.1 Crude oil and feedstocks

 eurostat	in 1 000 t	ISLAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		-	-	-	-	-	-	-
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-	-	-
Refinery intake		-	-	-	-	-	-	-
<b>Imports of Crude Oil by origin</b>								
<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		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-




## 4.2 Petroleum products


 eurostat	ISLAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>								
Total refinery output	-	-	-	-	-	-	-	-
among which:								
Motor spirit	-	-	-	-	-	-	-	-
Kerosene and jet fuel	-	-	-	-	-	-	-	-
Naphtha	-	-	-	-	-	-	-	-
Gas/diesel oil	-	-	-	-	-	-	-	-
Residual fuel oil	-	-	-	-	-	-	-	-
Total imports	928	949	871	891	864	986	14.1%	
Total exports	-	-	-	-	-	-	-	
Bunkers	51	68	46	66	67	70	4.5%	
Stock changes	-32	-37	3	24	52	-31	-159.6%	
Gross inland consumption	845	844	828	849	849	885	4.2%	
<b>Imports and exports</b>								
Imports by origin								
among which:								
Netherlands	79	271	161	104	90	141	56.7%	
United Kingdom	24	90	36	30	26	31	19.2%	
Norway	547	269	197	145	124	461	271.8%	
OPEC	-	-	-	-	-	-	-	
Imports by product								
among which:								
Motor spirit	149	153	139	145	140	153	9.3%	
Kerosene and jet fuel	131	147	117	105	110	124	12.7%	
Gas/diesel oil	406	428	369	387	384	466	21.4%	
Residual fuel oil	91	64	77	76	58	55	-5.2%	
Exports by product								
among which:								
Motor spirit	-	-	-	-	-	-	-	
Kerosene and jet fuel	-	-	-	-	-	-	-	
Gas/diesel oil	-	-	-	-	-	-	-	
Residual fuel oil	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants	1	1	1	1	1	1	0.0%	
Inputs to heating plants	10	-	-	-	-	-	-	
Non-energy use	149	155	167	176	170	186	9.4%	
Final energy consumption	685	688	660	673	678	698	2.9%	
Industry								
among which <i>by product:</i>								
Gas/diesel oil	53	66	66	63	65	85	30.8%	
Residual fuel oil	55	46	60	70	58	43	-25.9%	

 eurostat	ISLAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		-	-	-	-	-	-	-
Non-ferrous metals		7	7	7	7	7	5	-28.6%
Chemical industry		-	-	-	-	-	-	-
Non-met. mineral prod.		-	-	-	-	-	-	-
Food, drink, tobacco		57	50	65	75	62	51	-17.7%
Pulp, paper and print		-	-	-	-	-	-	-
Engineering & metal		-	-	-	-	-	-	-
Other industries		45	56	55	52	55	71	29.1%
<b>Transport</b>		318	333	318	305	308	333	8.1%
<i>among which:</i>								
Motor spirit		146	144	145	146	146	150	2.7%
Jet fuel		124	137	118	104	106	121	14.2%
Diesel oil		48	51	52	53	54	62	14.8%
<b>Services &amp; households etc.</b>		258	242	215	234	246	236	-4.1%
<i>among which:</i>								
Gas oil		245	225	192	221	232	233	0.4%
Residual fuel oil		12	16	22	12	13	2	-84.6%
<b>Stocks at end of period</b>								
Crude oil and feedstocks		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-

## 5. Natural gas

 eurostat	in TJ (GCV)	ISLAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		-	-	-	-	-	-	-
Total imports		-	-	-	-	-	-	-
Total exports		-	-	-	-	-	-	-
Stock changes		-	-	-	-	-	-	-
Gross inland consumption		-	-	-	-	-	-	-
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		-	-	-	-	-	-	-
Inputs to heat plants		-	-	-	-	-	-	-
Consumption of energy branch		-	-	-	-	-	-	-
Distribution losses		-	-	-	-	-	-	-
Non-energy use		-	-	-	-	-	-	-
Industry		-	-	-	-	-	-	-
<i>among which:</i>								
Iron&steel industry		-	-	-	-	-	-	-
Non-ferrous metals		-	-	-	-	-	-	-
Chemical industry		-	-	-	-	-	-	-
Non-met. mineral prod.		-	-	-	-	-	-	-
Food, drink, tobacco		-	-	-	-	-	-	-
Pulp, paper and print		-	-	-	-	-	-	-
Engineering & metal		-	-	-	-	-	-	-
Other industries		-	-	-	-	-	-	-
Transport		-	-	-	-	-	-	-
Services & households etc.		-	-	-	-	-	-	-
<i>among which:</i>								
Households		-	-	-	-	-	-	-
Services		-	-	-	-	-	-	-


## 6.1 Hard coal


 eurostat	ISLAND							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	-	-	-	-	-	-	-	-
Total imports	60	101	98	98	85	104	22.4%	
Total exports	-	-	-	-	-	-	-	
Stock changes	-	-	-	-	-	-	-	
Gross inland consumption	60	101	98	98	85	104	22.4%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	
Poland	-	-	-	-	-	-	-	
CIS	-	-	-	-	-	-	-	
Australia	-	-	-	-	-	-	-	
South Africa	-	-	-	-	-	-	-	
Colombia	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants								
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry								
<i>among which:</i>								
Iron&steel industry	41	87	84	85	74	86	16.2%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	-	-	-	-	-	-	-	
Non-met. mineral prod.	19	14	14	13	11	18	63.6%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	-	-	-	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	-	-	-	-	-	-	-	
<b>Structural data</b>								
Personnel employed underground								
(annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines								
(end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

eurostat	ISLAND						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	-	-	-	-	-	-	-
Patent Fuel	-	-	-	-	-	-	-
Lignite and peat	-	-	-	-	-	-	-
Brown coal briquettes	-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>						
Coke-oven gas	-	-	-	-	-	-	-
Blast-furnace gas	-	-	-	-	-	-	-
Gasworks gas	-	-	-	-	-	-	-
<b>Consumption</b>							
<b>Solid fuels</b>	<i>in 1 000 t</i>						
Coke	27	47	42	48	53	52	-1.9%
<i>among which:</i>							
Iron & steel industry	27	47	42	48	53	52	-1.9%
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	-	-	-	-	-	-	-
<b>Total derived gases</b>	<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

		ISLAND						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	2 191	2 306	2 451	2 462	2 457	2 519	2.5%
Hydro (excl. pumping)		520	547	566	600	609	613	0.6%
Wind		-	-	-	-	-	-	-
Solar		-	-	-	-	-	-	-
Geothermal		1 670	1 758	1 884	1 861	1 846	1 904	3.1%
Biomass		1	2	1	2	2	2	40.0%
<i>among which:</i>								
Wood, wood-waste		-	-	-	-	-	-	-
Municipal solid waste		1	2	1	2	2	2	0.0%
Biogas		-	-	-	-	-	1	-
Gross inland consumption		2 191	2 306	2 451	2 462	2 457	2 519	2.5%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		1 082	1 129	1 267	1 268	1 219	1 259	3.3%
Biomass		1	2	1	2	2	2	40.0%
<i>among which:</i>								
Wood, wood-waste		-	-	-	-	-	-	-
Municipal waste		1	2	1	2	2	2	0.0%
Biogas		-	-	-	-	-	1	-
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	456	490	516	497	521	480	-7.8%
<i>by sector:</i>								
Industry		-	-	-	-	-	-	-
Services & households etc.		456	490	516	497	521	480	-7.8%
Transport		-	-	-	-	-	-	-
<i>by source:</i>								
Biomass		-	-	-	-	-	-	-
<i>among which:</i>								
Wood, wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-
Geothermal		456	490	516	497	521	480	-7.8%
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		20	19	19	34	35	32	-8.6%
Hydro with installed capacity > 1 & <10 MW		215	228	224	220	220	265	20.5%
Hydro with installed capacity > 10 MW		5 812	6 109	6 335	6 723	6 833	6 838	0.1%
Wood, Wood-waste		-	-	-	-	-	-	-
Municipal waste		-	-	-	-	-	-	-
Biogas		-	-	-	-	-	-	-

	ISLAND						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW	8	7	7	9	9	9	0.0%
Hydro with installed capacity > 1 & <10 MW	39	39	39	39	39	43	10.3%
Hydro with installed capacity > 10 MW	969	1 018	1 063	1 107	1 107	1 107	0.0%
Wood, Wood-waste	-	-	-	-	-	-	-
Municipal waste	-	-	-	-	-	-	-
Biogas	-	-	-	-	-	-	-
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	-	-	-	-	-	-	-

# 1. Energy economy


## Key figures and energy indicators


		NORGE					
		1999	2000	2001	2002	2003	2004
<b>Energy statistics</b>							
Primary energy production	1000 toe	209 145	224 491	228 410	233 103	235 503	238 007
Net energy imports		-181 591	-197 835	-202 843	-208 198	-206 679	-210 255
Net oil imports		-142 832	-154 618	-159 572	-151 640	-145 364	-144 284
Net gas imports		-39 381	-42 185	-43 467	-55 056	-60 948	-65 970
Gross inland energy consumption		26 712	26 071	26 900	24 296	27 202	27 648
Final energy consumption		18 669	18 106	18 570	18 269	17 955	18 634
Industry		6 841	7 007	6 792	6 420	6 363	6 678
Transport		4 864	4 478	4 590	4 607	4 675	4 861
Services and households etc.		6 964	6 621	7 188	7 242	6 917	7 095
Gross electricity generation	GWh	122 722	143 028	121 890	130 705	107 321	110 481
Final electricity consumption		109 267	109 533	112 188	109 113	103 154	109 853
<b>Socio-economic statistics</b>							
Gross domestic product	Mio EUR 1995	131 299	135 024	138 706	140 240	141 822	146 188
Population	1000 per.	4 445	4 479	4 503	4 524	4 552	4 578
Industry added value	Mio EUR	36 831	37 980	38 360	38 381	38 359	39 193
Total imports (current prices)	Mio EUR	46 777	48 046	48 496	48 859	49 403	53 817
among which:							
All energy commodities		-	-	-	-	-	-
Oil products		-	-	-	-	-	-
<b>Energy intensity</b>							
Gross inland consumption / GDP(95)	kgoe/1 000 EUR	203.4	193.1	193.9	173.2	191.8	189.1
Final energy consumption / GDP(95)		142.2	134.1	133.9	130.3	126.6	127.5
<b>Energy intensity of industry:</b>							
Final consumption / gross value-added mp		185.7	184.5	177.1	167.3	165.9	170.4
<b>Energy intensity of service sector:</b>							
Final consumption / gross value-added mp		29.2	25.8	29.2	30.6	27.7	28.2
<b>Energy consumption per inhabitant</b>							
Gross inland consumption / capita	kgoe/cap.	6 009	5 821	5 973	5 370	5 975	6 040
Final energy consumption / capita		4 200	4 043	4 124	4 038	3 944	4 071
Household consumption / capita		885	854	885	861	837	846
Final electricity consumption / capita	kWh/cap.	24 580	24 458	24 912	24 118	22 660	23 998
<b>Energy dependency</b>							
Net energy imports / Gross consumption	in %	-658.9	-735.8	-732.3	-834.3	-744.6	-746.7
<b>Energy efficiency</b>							
Final energy consumption/Gross inland consumption	in %	69.9	69.4	69.0	75.2	66.0	67.4
Efficiency of thermal power stations		-	-	-	-	-	-




## 2. Energy balance

### Principal aggregates by product


 eurostat	NORGE						
	in 1 000 toe						
	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>							
Total	209 145	224 491	228 410	233 103	235 503	238 007	1.1%
among which:							
Hard coal	272	425	1 200	1 431	1 976	1 949	-1.4%
Lignite and peat	-	-	-	-	-	-	-
Crude oil	152 783	164 957	166 479	159 968	156 890	154 974	-1.2%
Natural Gas	44 138	45 817	48 892	59 166	66 270	70 419	6.3%
Nuclear heat	-	-	-	-	-	-	-
Hydro-electricity	10 443	11 945	10 354	11 128	9 081	9 353	3.0%
Biomass	1 507	1 344	1 481	1 404	1 267	1 290	1.8%
<b>Imports</b>							
Total	6 759	5 558	6 230	5 604	6 279	6 535	4.1%
among which:							
Hard coal	613	617	554	440	450	514	14.2%
Crude oil and feedstocks	2 133	926	955	650	560	545	-2.6%
Petroleum products	3 056	3 513	3 458	3 786	3 799	3 820	0.6%
Natural Gas	-	-	-	-	-	-	-
Electricity	590	127	924	459	1 154	1 312	13.6%
<b>Exports</b>							
Total	188 350	203 392	209 073	213 803	212 958	216 789	1.8%
among which:							
Crude oil and feedstocks	139 456	149 774	155 100	142 582	135 607	134 357	-0.9%
Petroleum products	8 565	9 283	8 885	13 494	14 115	14 293	1.3%
Natural gas	39 381	42 185	43 467	55 056	60 948	65 970	8.2%
Electricity	755	1 765	617	1 294	477	329	-31.0%
<b>Gross inland consumption</b>							
Total	26 712	26 071	26 900	24 296	27 202	27 648	1.6%
among which:							
Solid fuels	1 066	1 079	946	813	789	921	16.7%
Crude oil and petrol. prod.	9 082	9 691	8 353	7 633	9 980	10 585	6.1%
Natural gas	4 757	3 632	5 425	4 110	5 321	4 449	-16.4%
Nuclear Energy	-	-	-	-	-	-	-
Renewables	11 963	13 296	11 851	12 557	10 423	10 697	2.6%
<b>Transformation input</b>							
Total	15 996	15 708	15 021	13 947	15 630	15 014	-3.9%
among which:							
Crude oil and feedstocks	15 713	15 440	14 706	13 645	15 248	14 619	-4.1%
Petroleum products	37	16	18	33	54	20	-62.3%
Hard coal	17	16	17	16	14	18	33.7%
Lignite and peat	-	-	-	-	-	-	-
Renewables	129	154	168	169	219	232	5.7%
<b>Transformation output</b>							
Total	15 977	15 849	14 446	13 634	15 334	14 799	-3.5%
among which:							
Electricity	70	63	72	68	83	90	8.2%
Heat	182	175	206	218	258	272	5.6%

 eurostat <span style="float: right;">in 1 000 toe</span>		NORGE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Final energy consumption</b>								
Total		18 669	18 106	18 570	18 269	17 955	18 634	3.8%
<i>among which:</i>	Solid fuels	989	1 007	842	776	749	838	11.9%
	Petroleum products	6 752	6 153	6 425	6 555	6 861	6 825	-0.5%
	Natural Gas	-	174	170	138	182	213	17.1%
	Renewables	1 378	1 195	1 311	1 236	1 090	1 078	-1.1%
	Electricity	9 395	9 418	9 646	9 382	8 870	9 446	6.5%
<b>Final energy consumption by sector</b>								
<b>Industry</b>								
Total		6 841	7 007	6 792	6 420	6 363	6 678	5.0%
<i>among which:</i>	Solid fuels	987	1 004	839	773	747	836	11.9%
	Petroleum Products	784	754	808	779	897	811	-9.6%
	Natural Gas	-	172	161	128	170	190	11.6%
	Renewables	782	592	708	631	399	382	-4.2%
	Electricity	4 246	4 434	4 241	4 075	4 107	4 401	7.2%
<b>Transport</b>								
Total		4 864	4 478	4 590	4 607	4 675	4 861	4.0%
<i>among which:</i>	Motor spirit	1 732	1 683	1 746	1 728	1 709	1 699	-0.6%
	Diesel oil	2 210	1 994	2 034	2 078	2 208	2 306	4.4%
	Jet fuel	757	653	640	639	523	603	15.3%
	Electricity	154	133	163	155	143	148	3.5%
<b>Services&amp;households</b>								
Total		6 964	6 621	7 188	7 242	6 917	7 095	2.6%
<i>among which:</i>	Solid fuels	3	3	3	3	2	2	-0.5%
	Gas oil	1 075	905	1 026	1 141	1 227	1 112	-9.3%
	Natural Gas	-	1	6	7	6	15	133.9%
	Renewables	596	603	603	604	691	695	0.6%
	Electricity	4 995	4 852	5 243	5 152	4 620	4 897	6.0%
	Heat	113	109	141	148	161	175	9.2%

### 3.1 Electricity balance

 eurostat	NORGE							
	in GWh	1999	2000	2001	2002	2003	2004	04/03
<b>Generation</b>								
Total gross generation	122 722	143 028	121 890	130 705	107 321	110 481	2.9%	
<i>among which:</i>								
Hydro	121 887	142 266	121 026	129 837	106 216	109 287	2.9%	
Wind	25	31	27	75	218	260	19.3%	
Geothermal	-	-	-	-	-	-	-	
Nuclear	-	-	-	-	-	-	-	
Conventional thermal	810	731	837	793	887	934	5.3%	
<i>of which:</i>								
Hard coal	41	40	41	41	42	43	2.4%	
Lignite and peat	-	-	-	-	-	-	-	
Petroleum products	-	-	-	-	-	-	-	
Natural gas	281	211	270	198	299	374	25.1%	
Derived gases	177	116	216	92	88	63	-28.4%	
Biomass	112	173	190	282	398	423	6.3%	
Industrial wastes	199	191	120	180	60	31	-48.3%	
Total net generation	121 737	142 351	121 219	130 103	106 832	109 663	2.6%	
<b>Imports and exports</b>								
Total imports	6 857	1 474	10 745	5 335	13 422	15 254	13.6%	
Total exports	8 776	20 529	7 174	15 046	5 548	3 828	-31.0%	
<b>Consumption and losses</b>								
Consumption of the energy branch	2 124	-615	347	2 178	2 130	2 798	31.4%	
<i>of which:</i>								
Consumption for pumped-storage	182	-2 677	-1 921	243	259	221	-14.7%	
Network losses	8 979	11 703	10 200	9 281	9 392	8 860	-5.7%	
Final energy consumption	109 267	109 533	112 188	109 113	103 154	109 853	6.5%	
<i>of which:</i>								
Industry	49 376	51 566	49 324	47 397	47 763	51 180	7.2%	
<i>among which:</i>								
Iron&steel industry	7 724	7 884	7 097	6 352	5 927	6 927	16.9%	
Non-ferrous metals	18 881	19 205	19 103	18 809	20 599	22 351	8.5%	
Chemical industry	7 141	7 760	7 499	6 808	6 834	7 184	5.1%	
Non-met. mineral prod.	914	904	833	843	834	869	4.2%	
Food, drink, tobacco	3 044	3 128	3 105	2 920	2 743	2 860	4.3%	
Pulp, paper and print	6 961	7 708	6 793	6 788	6 436	6 715	4.3%	
Engineering & metal	2 281	2 180	2 097	2 200	1 909	1 782	-6.7%	
Other industries	1 777	2 077	2 115	2 037	1 830	1 867	2.0%	
Transport	1 795	1 542	1 890	1 804	1 660	1 718	3.5%	
Services & households etc.	58 096	56 425	60 974	59 912	53 731	56 955	6.0%	
<i>among which:</i>								
Households	35 046	34 641	35 876	34 647	32 023	33 307	4.0%	


## 3.2 Electrical capacity, fuel inputs and heat

		NORGE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Net electrical capacity</b>								
Total installed capacity	MW	28 487	28 409	27 960	28 247	28 411	:	
<i>by source:</i>								
Conventional thermal		270	270	268	237	238	:	
<i>of which:</i>								
Steam		-	-	-	181	141	:	
Gas turbine		35	35	35	35	42	:	
Combined cycle		-	-	-	-	-	:	
Internal combustion		13	13	13	21	16	:	
Nuclear		-	-	-	-	-	:	
Hydro		28 203	28 126	27 679	27 913	28 076	:	
<i>among which:</i>								
Pumped storage		663	695	1 360	1 652	1 318	:	
Wind		14	13	13	97	97	:	
Geothermal		-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-
<i>by producer type:</i>								
Public system		25 830	26 300	26 516	27 308	27 495	:	
Autoproducers		2 332	2 332	2 351	974	916	:	
<b>Fuel consumption in electricity and heat production</b>								
Conventional thermal power plants	1 000 toe	122	135	148	145	182	197	8.3%
<i>among which:</i>								
Hard coal		17	16	17	16	14	18	33.7%
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-
Natural gas		36	27	35	25	39	48	25.2%
Renewables		61	86	81	84	112	116	3.7%
Heating plants		118	99	121	134	172	148	-14.0%
<i>among which:</i>								
Hard coal		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Petroleum products		37	16	18	33	54	20	-62.3%
Natural gas		2	3	2	4	6	5	-21.5%
Renewables		68	68	87	85	107	115	7.9%
<b>Heat production and consumption</b>								
Total heat production	TJ	182	175	206	218	258	272	5.6%
<i>among which: in heating plants</i>		126	121	152	138	168	152	-9.5%
Heat consumption		133	128	159	171	190	206	8.8%
<i>of which: in industry</i>		20	19	18	24	29	31	6.6%
in households and services		113	109	141	148	161	175	9.2%
<i>among which: in households</i>		28	20	28	29	32	36	11.3%

## 4.1 Crude oil and feedstocks


eurostat	in 1 000 t	NORGE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production		149 350	160 990	162 536	156 716	153 616	151 779	-1.2%
Total imports		2 085	904	932	637	548	534	-2.6%
Total exports		136 323	146 172	151 426	139 684	132 777	131 587	-0.9%
Stock changes		-55	-65	2 004	-62	-886	289	132.6%
Refinery intake		15 368	15 076	14 367	13 372	14 936	14 324	-4.1%
<b>Imports of Crude Oil by origin</b>								
<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		-	-	-	-	-	-	-
<b>Refining capacity</b>								
Capacity at the end of year	1 000 t/year	-	-	-	-	-	-	-
<i>among which:</i>								
Cracking and others		-	-	-	-	-	-	-
Reforming		-	-	-	-	-	-	-

## 4.2 Petroleum products

 eurostat	NORGE						
	in 1 000 t						
	1999	2000	2001	2002	2003	2004	04/03
<b>Production and supply</b>							
Total refinery output	15 335	15 196	13 773	13 035	14 645	14 093	-3.8%
<i>among which:</i>							
Motor spirit	3 202	3 385	3 287	2 920	3 546	3 261	-8.0%
Kerosene and jet fuel	876	812	665	582	611	651	6.5%
Naphtha	886	1 161	920	1 126	1 135	1 192	5.0%
Gas/diesel oil	7 253	6 916	6 478	6 010	6 635	6 241	-5.9%
Residual fuel oil	1 897	1 703	1 647	1 503	1 702	1 845	8.4%
Total imports	3 210	3 626	3 596	3 891	3 925	3 957	0.8%
Total exports	8 437	9 108	8 667	12 815	13 509	13 620	0.8%
Bunkers	858	828	812	666	565	518	-8.3%
Stock changes	32	232	195	22	-75	104	238.7%
Gross inland consumption	-6 053	-6 078	-5 688	-9 568	-10 224	-10 077	1.4%
<b>Imports and exports</b>							
Imports by origin							
<i>among which:</i>							
Netherlands	197	136	91	113	179	85	-52.5%
United Kingdom	692	663	856	796	660	681	3.2%
Norway	-	-	-	-	-	-	-
OPEC	35	1	-	33	-	21	
Imports by product							
<i>among which:</i>							
Motor spirit	341	622	407	434	310	425	37.1%
Kerosene and jet fuel	283	207	233	601	285	265	-7.0%
Gas/diesel oil	389	649	917	536	777	819	5.4%
Residual fuel oil	1 164	1 039	1 135	1 065	1 437	1 419	-1.3%
Exports by product							
<i>among which:</i>							
Motor spirit	1 840	2 016	2 214	2 047	2 411	2 168	-10.1%
Kerosene and jet fuel	200	216	118	116	101	99	-2.0%
Gas/diesel oil	3 484	3 459	3 005	2 443	2 727	2 725	-0.1%
Residual fuel oil	1 638	1 544	1 211	1 546	1 809	1 739	-3.9%
<b>Consumption</b>							
Inputs to electricity plants	-	-	-	-	-	-	-
Inputs to heating plants	37	16	18	33	53	20	-62.3%
Non-energy use	1 449	1 498	1 793	1 889	2 118	1 901	-10.2%
Final energy consumption	6 612	6 011	6 280	6 404	6 707	6 671	-0.5%
Industry	787	745	801	768	880	795	-9.7%
<i>among which by product:</i>							
Gas/diesel oil	387	368	353	356	409	344	-15.9%
Residual fuel oil	281	180	251	201	233	224	-3.9%


eurostat	NORGE							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Industry</b>								
<i>among which by sector:</i>								
Iron&steel industry		10	13	15	15	21	12	-42.9%
Non-ferrous metals		64	69	55	40	58	38	-34.5%
Chemical industry		87	153	152	141	150	133	-11.3%
Non-met. mineral prod.		78	76	68	70	91	127	39.6%
Food, drink, tobacco		154	115	107	119	171	106	-38.0%
Pulp, paper and print		138	97	151	136	153	150	-2.0%
Engineering & metal		48	28	47	45	56	38	-32.1%
Other industries		158	147	153	151	136	139	2.2%
<b>Transport</b>		4 584	4 226	4 303	4 327	4 410	4 585	4.0%
<i>among which:</i>								
Motor spirit		1 648	1 601	1 661	1 644	1 626	1 617	-0.6%
Jet fuel		737	636	623	622	509	587	15.3%
Diesel oil		2 187	1 974	2 013	2 057	2 185	2 282	4.4%
<b>Services &amp; households etc.</b>		1 241	1 040	1 176	1 309	1 417	1 291	-8.9%
<i>among which:</i>								
Gas oil		1 064	896	1 016	1 129	1 214	1 101	-9.3%
Residual fuel oil		2	1	3	1	5	7	45.5%
<b>Stocks at end of period</b>								
Crude oil and feedstocks		-	-	-	-	-	-	-
Petroleum products		-	-	-	-	-	-	-

## 5. Natural gas


 eurostat	NORGE							
	in TJ (GCV)		1999	2000	2001	2002	2003	2004
<b>Primary production and supply</b>								
Primary production		2 053 293	2 131 427	2 274 458	2 752 407	3 082 859	3 275 892	6.3%
Total imports		-	-	-	-	-	-	-
Total exports		1 832 004	1 962 454	2 022 071	2 561 226	2 835 323	3 068 945	8.2%
Stock changes		-	-	-	-	-	-	-
Gross inland consumption		221 289	168 973	252 387	191 181	247 536	206 947	-16.4%
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
CIS		-	-	-	-	-	-	-
Algeria		-	-	-	-	-	-	-
Norway		-	-	-	-	-	-	-
<b>Consumption</b>								
Inputs to electricity plants		1 684	1 269	1 622	1 186	1 793	2 244	25.2%
Inputs to heat plants		105	126	105	194	289	227	-21.5%
Consumption of energy branch		219 500	140 101	137 442	142 428	149 119	159 390	6.9%
Distribution losses		-	-	-	-	-	-	-
Non-energy use		-	19 392	23 135	17 074	24 173	27 467	13.6%
Industry		-	8 006	7 481	5 951	7 901	8 819	11.6%
<i>among which:</i>								
Iron&steel industry		-	-	-	-	-	40	
Non-ferrous metals		-	796	1 181	1 149	1 199	1 260	5.1%
Chemical industry		-	6 729	5 861	4 038	6 131	6 016	-1.9%
Non-met. mineral prod.		-	-	-	-	-	65	
Food, drink, tobacco		-	345	277	337	145	759	423.4%
Pulp, paper and print		-	-	-	278	261	406	55.6%
Engineering & metal		-	15	53	7	25	51	104.0%
Other industries		-	121	107	135	127	111	-12.6%
Transport		-	24	113	136	285	427	49.8%
Services & households etc.		-	55	296	322	289	676	133.9%
<i>among which:</i>								
Households		-	5	95	91	95	133	40.0%
Services		-	50	201	231	194	274	41.2%




## 6.1 Hard coal


 eurostat	NORGE							
	in 1 000 t	1999	2000	2001	2002	2003	2004	04/03
<b>Primary production and supply</b>								
Primary production	404	632	1 788	2 132	2 944	2 904	-1.4%	
Total imports	914	920	825	655	671	766	14.2%	
Total exports	288	574	1 497	2 050	2 697	2 741	1.6%	
Stock changes	19	58	-201	81	-106	-25	76.4%	
Gross inland consumption	1 049	1 036	915	818	812	904	11.3%	
<b>Imports</b>								
Imports by origin								
<i>among which:</i>								
USA	-	-	-	-	-	-	-	
Poland	-	-	-	-	-	-	-	
CIS	-	-	-	-	-	-	-	
Australia	-	-	-	-	-	-	-	
South Africa	-	-	-	-	-	-	-	
Colombia	-	-	-	-	-	-	-	
<b>Consumption</b>								
Inputs to electricity plants	25	23	26	24	20	27	35.0%	
Inputs to heat plants	-	-	-	-	-	-	-	
Consumption of energy branch	-	-	-	-	-	-	-	
Industry								
<i>among which:</i>								
Iron&steel industry	477	467	389	346	313	386	23.3%	
Non-ferrous metals	-	-	-	-	-	-	-	
Chemical industry	217	223	205	161	175	210	20.0%	
Non-met. mineral prod.	275	266	252	246	242	216	-10.7%	
Food, drink, tobacco	-	-	-	-	-	-	-	
Pulp, paper and print	-	-	-	-	-	-	-	
Engineering & metal	2	2	1	-	-	-	-	
Other industries	-	-	-	-	-	-	-	
Services & households etc.	3	3	3	2	1	2	100.0%	
<b>Structural data</b>								
Personnel employed underground (annual mean in 1000's)	-	-	-	-	-	-	-	
Number of active hard coal mines (end of year)	-	-	-	-	-	-	-	

## 6.2 Coal derivatives and peat

		NORGE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Production</b>								
<b>Solid fuels</b>	<i>in 1 000 t</i>							
Coke		-	-	-	-	-	-	-
Patent Fuel		-	-	-	-	-	-	-
Lignite and peat		-	-	-	-	-	-	-
Brown coal briquettes		-	-	-	-	-	-	-
<b>Derived gases</b>	<i>in TJ (GCV)</i>							
Coke-oven gas		-	-	-	-	-	-	-
Blast-furnace gas		1 962	2 030	1 927	1 608	1 530	2 068	35.2%
Gasworks gas		-	-	-	-	-	-	-
<b>Consumption</b>								
<b>Solid fuels</b>	<i>in 1 000 t</i>							
Coke		491	530	396	396	380	429	12.9%
<i>among which:</i>								
Iron & steel industry		425	461	323	343	328	378	15.2%
Services & households		1	1	1	3	2	1	-50.0%
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		-	-	-	-	-	-	-
<b>Total derived gases</b>	<i>in TJ (GCV)</i>							
Coke-oven gas		-	-	-	-	-	-	-
Blast-furnace gas		921	1 281	699	432	591	1 158	95.9%
Gasworks gas		-	-	-	-	-	-	-
Inputs to electricity plants		332	255	429	475	451	323	-28.4%
Inputs to heat plants		17	10	22	11	2	11	450.0%
Consumption of energy branch		-	-	-	-	-	-	-
Consumption in industry		921	1 281	699	432	591	1 158	95.9%

## 7. Renewable energy sources

		NORGE						
		1999	2000	2001	2002	2003	2004	04/03
<b>Primary production</b>								
Total primary production	<i>in 1000 toe</i>	11 952	13 291	11 838	12 539	10 367	10 665	2.9%
Hydro (excl. pumping)		10 443	11 945	10 354	11 128	9 081	9 353	3.0%
Wind		2	3	2	6	19	22	19.3%
Solar		-	-	-	-	-	-	-
Geothermal		-	-	-	-	-	-	-
Biomass		1 507	1 344	1 481	1 404	1 267	1 290	1.8%
	<i>among which:</i>							
Wood, wood-waste		1 343	1 194	1 337	1 244	1 059	1 088	2.7%
Municipal solid waste		138	124	120	134	182	178	-2.5%
Biogas		26	26	8	25	26	24	-5.2%
Gross inland consumption		11 963	13 296	11 851	12 557	10 423	10 697	2.6%
<b>Inputs to electricity and heat production</b>								
	<i>in 1000 toe</i>							
Geothermal		-	-	-	-	-	-	-
Biomass		129	154	168	169	219	232	5.7%
	<i>among which:</i>							
Wood, wood-waste		36	35	49	52	56	69	22.0%
Municipal waste		120	119	117	116	163	163	0.0%
Biogas		1	0	0	0	0	0	50.0%
<b>Final consumption of RES (excl. electricity)</b>								
Total	<i>in 1000 toe</i>	1 378	1 195	1 311	1 236	1 090	1 078	-1.1%
	<i>by sector:</i>							
Industry		782	592	708	631	399	382	-4.2%
Services & households etc.		596	603	603	604	691	695	0.6%
Transport		-	-	-	-	-	-	-
	<i>by source:</i>							
Biomass		1 378	1 195	1 311	1 236	1 090	1 078	-1.1%
	<i>among which:</i>							
Wood, wood-waste		1 335	1 165	1 301	1 211	1 058	1 051	-0.7%
Municipal waste		18	5	3	18	19	15	-23.8%
Biogas		26	26	8	8	12	12	-4.9%
Geothermal		-	-	-	-	-	-	-
<b>Electricity generation from RES</b>								
	<i>in GWh</i>							
Solar photovoltaics		-	-	-	-	-	-	-
Hydro with installed capacity < 1 MW		188	234	202	213	139	143	2.9%
Hydro with installed capacity > 1 & <10 MW		4 273	4 317	3 742	4 443	3 254	3 348	2.9%
Hydro with installed capacity > 10 MW		105 664	134 364	116 473	124 593	102 219	105 280	3.0%
Wood, Wood-waste		243	226	197	216	263	300	14.1%
Municipal waste		59	60	116	68	135	123	-8.9%
Biogas		-	-	-	-	-	-	-

	NORGE						
	1999	2000	2001	2002	2003	2004	04/03
<b>Electrical capacities of RES</b>							
	<i>in MW</i>						
Solar photovoltaics (peak)	6	6	6	6	-	:	
Hydro with installed capacity < 1 MW	44	48	48	44	45	:	
Hydro with installed capacity > 1 & <10 MW	843	843	843	851	915	:	
Hydro with installed capacity > 10 MW	26 653	25 875	25 428	25 367	25 021	:	
Wood, Wood-waste	141	141	35	101	107	:	
Municipal waste	-	-	-	-	26	:	
Biogas	-	-	-	-	-	-	-
<b>Liquid biofuels</b>							
Production	<i>1000 t</i>						
	-	-	-	-	-	-	-
<b>Solar Panels</b>							
Solar panel surface	<i>1000 m<sup>2</sup></i>						
	-	-	-	-	-	-	-