

Annex 4 – CO₂ reference approach and comparison with sectoral approach; energy balance

ENERGY BALANCE – 2004

	Total			BITUMINOUS COAL			
	tce	toe	GJ	tonnes	tce	toe	GJ
1. Primary production (recovered products included)	40146560	28094164	1176294205	-	-	-	-
2. Imports	23824224	16671954	698049767	4339617	4018101	2811827	117730359
3. Opening stock	5283241	3697159	154798962	156182	145219	101623	4254917
4. TOTAL RESOURCES	69254025	48463277	2029142934	4495799	4163320	2913450	121985276
5. Exports	6888476	4820486	201832347	46473	41825	29269	1225473
6. Bunkers	-	-	-	-	-	-	-
7. Closing stock	6609209	4625057	193649826	362817	331744	232151	9720099
8. GROSS INLAND CONSUMPTION	55756340	39017734	1633660761	4086509	3789751	2652030	111039704
9. Transformation input	39449668	27606487	1155875276	3083182	2862431	2003101	83869228
10. Conventional thermal power stations	11773270	8238818	344956813	-	-	-	-
11. Nuclear power stations	1943646	1360144	56948828	-	-	-	-
12. Heat plants	5033903	3522676	147493360	-	-	-	-
13. Patent fuel plants	-	-	-	-	-	-	-
14. Coke-oven plants	2130870	1491162	62434491	2270337	2130870	1491162	62434491
15. Blast-furnace plants	731561	511939	21434737	812845	731561	511939	21434737
16. Refineries	17836418	12481748	522607047	-	-	-	-
17. Other	-	-	-	-	-	-	-
18. Transformation output	31251376	21869405	915665315	1674592	1507133	1054677	44158997
19. Conventional thermal power stations	4233749	2962735	124048846	-	-	-	-
20. Nuclear power stations	682414	477547	19994730	-	-	-	-
21. Heat plants	4622006	3234434	135424776	-	-	-	-
22. Patent fuel plants	-	-	-	-	-	-	-
23. Coke-oven plants	1893594	1325119	55482304	1674592	1507133	1054677	44158997
24. Blast-furnace plants	904904	633243	26513687	-	-	-	-
25. Refineries	18914709	13236327	554200972	-	-	-	-
26. Other	-	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	6322961	4424745	185262752	-	-	-	-
29. Coal mining and preparation	236252	165326	6922185	-	-	-	-
30. Hydrocarbons extraction and annexed services	1571280	1099566	46038504	-	-	-	-
31. Radioactive ores quarrying	10696	7485	313393	-	-	-	-
32. Crude oil processing, coal coking and nuclear fuel treatment	2932599	2052204	85925151	-	-	-	-
33. Electric and thermal energy production, transport and distribution	1572134	1100164	46063519	-	-	-	-
34. Losses	2747509	1922682	80502016	28708	26157	18305	766401
35. AVAILABLE FOR FINAL CONSUMPTION	38626641	27030538	1131760585	2649211	2408295	1685300	70563044
36. Non-energy consumption	1797897	1258149	52678390	67570	60813	42556	1781821
37. FINAL ENERGY CONSUMPTION	39056782	27331536	1144363740	2138447	1933678	1353168	56656767
38. Industry	16126381	11285069	472502987	2138423	1933656	1353153	56656122
39. Mining of metal ores	72237	50551	2116545	-	-	-	-
40. Other mining and quarrying	42741	29909	1252314	-	-	-	-
41. Food, beverages and tobacco	1268347	887576	37162568	3170	2767	1936	81073
42. Textile and textile products	258483	180883	7573554	-	-	-	-
43. Textile fur and leather wearing apparel	155454	108784	4554803	-	-	-	-
44. Leather goods and foot wear	70406	49269	2062897	-	-	-	-
45. Wood and products of wood	327766	229366	9603546	-	-	-	-
46. Pulp, paper and paper products	380797	266477	11157352	-	-	-	-
47. Publishing, printing and reproduction of recorded media	30993	21689	908095	-	-	-	-
48. Chemistry and chemical products	4761732	3332210	139518751	89887	79801	55844	2338170
49. Rubber and plastic products	158240	110736	4636433	-	-	-	-
50. Other non-metallic mineral products	1758030	1230251	51510280	9691	8675	6071	254178
51. Metallurgy	5033176	3522167	147472060	2026256	1833936	1283370	53734325
52. Metal products, machinery and equipment	1037130	725772	30387910	9407	8466	5924	248054
53. Furniture and other unclassified activities	211021	147669	6182916	-	-	-	-
54. Waste recovering	15022	10512	440144	-	-	-	-
55. Water collection, treatment and distribution	120710	84471	3536805	1	1	1	29
56. Construction	424096	296777	12426014	11	10	7	293
57. Transport	8452507	5914982	247658455	-	-	-	-
58. Households	11303499	7910078	331192521	-	-	-	-
59. Agriculture and Forestry	314523	220098	9215525	24	22	15	645
60. Other economic activities	2859872	2001309	83794252	-	-	-	-
61. Statistical difference	-2230075	-1560572	-65341223	443194	413804	289576	12124456

	COKING COAL				COKE and SEMICOKE			
	tonnes	tce	toe	GJ	tonnes	tce	toe	GJ
1. Primary production (recovered products included)	-	-	-	-	-	-	-	-
2. Imports	2969567	2787146	1950417	81663378	1296893	1167204	816798	34199077
3. Opening stock	121950	114459	80097	3353649	32512	29261	20477	857347
4. TOTAL RESOURCES	3091517	2901605	2030514	85017027	1329405	1196465	837275	35056424
5. Exports	-	-	-	-	46450	41805	29255	1224887
6. Bunkers	-	-	-	-	-	-	-	-
7. Closing stock	137717	129257	90453	3787230	221500	199350	139503	5840955
8. GROSS INLAND CONSUMPTION	2953800	2772348	1940061	81229797	1061455	955310	668517	27990582
9. Transformation input	2270337	2130870	1491162	62434491	812845	731561	511939	21434737
10. Conventional thermal power stations	-	-	-	-	-	-	-	-
11. Nuclear power stations	-	-	-	-	-	-	-	-
12. Heat plants	-	-	-	-	-	-	-	-
13. Patent fuel plants	-	-	-	-	-	-	-	-
14. Coke-oven plants	2270337	2130870	1491162	62434491	-	-	-	-
15. Blast-furnace plants	-	-	-	-	812845	731561	511939	21434737
16. Refineries	-	-	-	-	-	-	-	-
17. Other	-	-	-	-	-	-	-	-
18. Transformation output	-	-	-	-	1674592	1507133	1054677	44158997
19. Conventional thermal power stations	-	-	-	-	-	-	-	-
20. Nuclear power stations	-	-	-	-	-	-	-	-
21. Heat plants	-	-	-	-	-	-	-	-
22. Patent fuel plants	-	-	-	-	-	-	-	-
23. Coke-oven plants	-	-	-	-	1674592	1507133	1054677	44158997
24. Blast-furnace plants	-	-	-	-	-	-	-	-
25. Refineries	-	-	-	-	-	-	-	-
26. Other	-	-	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	-	-	-	-	-	-	-	-
29. Coal mining and preparation	-	-	-	-	-	-	-	-
30. Hydrocarbons extraction and annexed services	-	-	-	-	-	-	-	-
31. Radioactive ores quarrying	-	-	-	-	-	-	-	-
32. Crude oil processing, coal coking and nuclear fuel treatment	-	-	-	-	-	-	-	-
33. Electric and thermal energy production, transport and distribution	-	-	-	-	-	-	-	-
34. Losses	8295	7785	5448	228101	20413	18372	12857	538300
35. AVAILABLE FOR FINAL CONSUMPTION	675168	633692	443451	18567176	1902789	1712510	1198397	50176543
36. Non-energy consumption	-	-	-	-	67570	60813	42556	1781821
37. FINAL ENERGY CONSUMPTION	267196	250782	175495	7347913	1828203	1645383	1151422	48209723
38. Industry	267196	250782	175495	7347913	1828179	1645361	1151407	48209078
39. Mining of metal ores	-	-	-	-	-	-	-	-
40. Other mining and quarrying	-	-	-	-	-	-	-	-
41. Food, beverages and tobacco	-	-	-	-	170	153	107	4483
42. Textile and textile products	-	-	-	-	-	-	-	-
43. Textile fur and leather wearing apparel	-	-	-	-	-	-	-	-
44. Leather goods and foot wear	-	-	-	-	-	-	-	-
45. Wood and products of wood	-	-	-	-	-	-	-	-
46. Pulp, paper and paper products	-	-	-	-	-	-	-	-
47. Publishing, printing and reproduction of recorded media	-	-	-	-	-	-	-	-
48. Chemistry and chemical products	-	-	-	-	51480	46332	32423	1357528
49. Rubber and plastic products	-	-	-	-	-	-	-	-
50. Other non-metallic mineral products	-	-	-	-	8050	7245	5070	212279
51. Metallurgy	267196	250782	175495	7347913	1759060	1583154	1107875	46386412
52. Metal products, machinery and equipment	-	-	-	-	9407	8466	5924	248054
53. Furniture and other unclassified activities	-	-	-	-	-	-	-	-
54. Waste recovering	-	-	-	-	-	-	-	-
55. Water collection, treatment and distribution	-	-	-	-	1	1	1	29
56. Construction	-	-	-	-	11	10	7	293
57. Transport	-	-	-	-	-	-	-	-
58. Households	-	-	-	-	-	-	-	-
59. Agriculture and Forestry	-	-	-	-	24	22	15	645
60. Other economic activities	-	-	-	-	-	-	-	-
61. Statistical difference	407972	382910	267956	11219263	7016	6314	4419	18499

	STEAM COAL				OTHERS COAL			
	tonnes	tce	toe	GJ	tonnes	tce	toe	GJ
1. Primary production (recovered products included)	2961170	1461267	1022580	42815123	28830803	7387697	5169837	216459522
2. Imports	616397	517595	362208	15165534	45037	14193	9932	415855
3. Opening stock	191821	107288	75079	3143539	4988888	1279574	895433	37491518
4. TOTAL RESOURCES	3769388	2086150	1459867	61124196	33864728	8681464	6075202	254366895
5. Exports	-	-	-	-	-	-	-	-
6. Bunkers	-	-	-	-	-	-	-	-
7. Closing stock	684993	376713	263619	11037691	4178148	1074035	751599	31469225
8. GROSS INLAND CONSUMPTION	3084395	1709437	1196248	50086505	29686580	7607429	5323603	222897670
9. Transformation input	2911210	1573385	1101040	46100182	27953236	7293436	5103874	213697675
10. Conventional thermal power stations	2509162	1335324	934447	39124994	25008019	6536609	4574254	191522644
11. Nuclear power stations	-	-	-	-	-	-	-	-
12. Heat plants	402048	238061	166593	6975188	2945217	756827	529620	22175031
13. Patent fuel plants	-	-	-	-	-	-	-	-
14. Coke-oven plants	-	-	-	-	-	-	-	-
15. Blast-furnace plants	-	-	-	-	-	-	-	-
16. Refineries	-	-	-	-	-	-	-	-
17. Other	-	-	-	-	-	-	-	-
18. Transformation output	-	-	-	-	-	-	-	-
19. Conventional thermal power stations	-	-	-	-	-	-	-	-
20. Nuclear power stations	-	-	-	-	-	-	-	-
21. Heat plants	-	-	-	-	-	-	-	-
22. Patent fuel plants	-	-	-	-	-	-	-	-
23. Coke-oven plants	-	-	-	-	-	-	-	-
24. Blast-furnace plants	-	-	-	-	-	-	-	-
25. Refineries	-	-	-	-	-	-	-	-
26. Other	-	-	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	6626	4791	3352	140377	841086	215305	150668	6308437
29. Coal mining and preparation	6626	4791	3352	140377	338097	86671	60651	2539461
30. Hydrocarbons extraction and annexed services	-	-	-	-	-	-	-	-
31. Radioactive ores quarrying	-	-	-	-	-	-	-	-
32. Crude oil processing, coal coking and nuclear fuel treatment	-	-	-	-	-	-	-	-
33. Electric and thermal energy production, transport and distribution	-	-	-	-	502989	128634	90017	3768976
34. Losses	-	-	-	-	-	-	-	-
35. AVAILABLE FOR FINAL CONSUMPTION	166559	131263	91857	3846006	892258	235607	164875	6903285
36. Non-energy consumption	-	-	-	-	-	-	-	-
37. FINAL ENERGY CONSUMPTION	19886	9600	6718	281280	783299	202090	141420	5921239
38. Industry	17753	8203	5739	240349	582928	150763	105501	4417358
39. Mining of metal ores	188	155	108	4542	-	-	-	-
40. Other mining and quarrying	-	-	-	-	61	16	11	469
41. Food, beverages and tobacco	-	-	-	-	30	8	6	234
42. Textile and textile products	-	-	-	-	-	-	-	-
43. Textile fur and leather wearing apparel	-	-	-	-	-	-	-	-
44. Leather goods and foot wear	-	-	-	-	8	2	1	59
45. Wood and products of wood	-	-	-	-	-	-	-	-
46. Pulp, paper and paper products	-	-	-	-	-	-	-	-
47. Publishing, printing and reproduction of recorded media	-	-	-	-	-	-	-	-
48. Chemistry and chemical products	5	4	3	117	444473	113670	79545	3330531
49. Rubber and plastic products	-	-	-	-	-	-	-	-
50. Other non-metallic mineral products	17031	7610	5325	222973	137347	36762	25726	1077127
51. Metallurgy	-	-	-	-	-	-	-	-
52. Metal products, machinery and equipment	345	284	199	8321	410	105	73	3077
53. Furniture and other unclassified activities	1	-	-	-	1	-	-	-
54. Waste recovering	-	-	-	-	-	-	-	-
55. Water collection, treatment and distribution	175	145	101	4249	-	-	-	-
56. Construction	8	5	3	147	598	200	139	5861
57. Transport	668	552	387	16173	36	9	6	264
58. Households	1	1	1	29	196521	50320	35214	1474376
59. Agriculture and Forestry	445	203	142	5948	1647	421	295	12335
60. Other economic activities	1019	641	449	18781	2167	577	404	16906
61. Statistical difference	146673	121663	85139	3564726	108959	33517	23455	982046

	LIGNITE				BROWN COAL			
	tonnes	tce	toe	GJ	tonnes	tce	toe	GJ
1. Primary production (recovered products included)	28620059	7316718	5120167	214379837	210744	70979	49670	2079685
2. Imports	45037	14193	9932	415855	-	-	-	-
3. Opening stock	4943058	1264138	884631	37039243	45830	15436	10802	452275
4. TOTAL RESOURCES	33608154	8595049	6014730	251834935	256574	86415	60472	2531960
5. Exports	-	-	-	-	-	-	-	-
6. Bunkers	-	-	-	-	-	-	-	-
7. Closing stock	4110102	1051117	735561	30797728	68046	22918	16038	671497
8. GROSS INLAND CONSUMPTION	29498052	7543932	5279169	221037207	188528	63497	44434	1860463
9. Transformation input	27858800	7261630	5081616	212765759	94436	31806	22258	931916
10. Conventional thermal power stations	24958212	6519834	4562515	191031136	49807	16775	11739	491508
11. Nuclear power stations	-	-	-	-	-	-	-	-
12. Heat plants	2900588	741796	519101	21734623	44629	15031	10519	440408
13. Patent fuel plants	-	-	-	-	-	-	-	-
14. Coke-oven plants	-	-	-	-	-	-	-	-
15. Blast-furnace plants	-	-	-	-	-	-	-	-
16. Refineries	-	-	-	-	-	-	-	-
17. Other	-	-	-	-	-	-	-	-
18. Transformation output	-	-	-	-	-	-	-	-
19. Conventional thermal power stations	-	-	-	-	-	-	-	-
20. Nuclear power stations	-	-	-	-	-	-	-	-
21. Heat plants	-	-	-	-	-	-	-	-
22. Patent fuel plants	-	-	-	-	-	-	-	-
23. Coke-oven plants	-	-	-	-	-	-	-	-
24. Blast-furnace plants	-	-	-	-	-	-	-	-
25. Refineries	-	-	-	-	-	-	-	-
26. Other	-	-	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	838544	214449	150069	6283356	2542	856	599	25081
29. Coal mining and preparation	335555	85815	60052	2514380	2542	856	599	25081
30. Hydrocarbons extraction and annexed services	-	-	-	-	-	-	-	-
31. Radioactive ores quarrying	-	-	-	-	-	-	-	-
32. Crude oil processing, coal coking and nuclear fuel treatment	-	-	-	-	-	-	-	-
33. Electric and thermal energy production, transport and distribution	502989	128634	90017	3768976	-	-	-	-
34. Losses	-	-	-	-	-	-	-	-
35. AVAILABLE FOR FINAL CONSUMPTION	800708	204773	143298	5999849	91550	30834	21577	903436
36. Non-energy consumption	-	-	-	-	-	-	-	-
37. FINAL ENERGY CONSUMPTION	761482	194742	136278	5705942	21817	7348	5142	215297
38. Industry	562153	143766	100605	4212345	20775	6997	4896	205013
39. Mining of metal ores	-	-	-	-	-	-	-	-
40. Other mining and quarrying	61	16	11	469	-	-	-	-
41. Food, beverages and tobacco	30	8	6	234	-	-	-	-
42. Textile and textile products	-	-	-	-	-	-	-	-
43. Textile fur and leather wearing apparel	-	-	-	-	-	-	-	-
44. Leather goods and foot wear	8	2	1	59	-	-	-	-
45. Wood and products of wood	-	-	-	-	-	-	-	-
46. Pulp, paper and paper products	-	-	-	-	-	-	-	-
47. Publishing, printing and reproduction of recorded media	-	-	-	-	-	-	-	-
48. Chemistry and chemical products	444473	113670	79545	3330531	-	-	-	-
49. Rubber and plastic products	-	-	-	-	-	-	-	-
50. Other non-metallic mineral products	117150	29960	20966	877828	20197	6802	4760	199299
51. Metallurgy	-	-	-	-	-	-	-	-
52. Metal products, machinery and equipment	410	105	73	3077	-	-	-	-
53. Furniture and other unclassified activities	1	-	-	-	-	-	-	-
54. Waste recovering	-	-	-	-	-	-	-	-
55. Water collection, treatment and distribution	-	-	-	-	-	-	-	-
56. Construction	20	5	3	147	578	195	136	5714
57. Transport	36	9	6	264	-	-	-	-
58. Households	195757	50063	35034	1466846	764	257	180	7530
59. Agriculture and Forestry	1647	421	295	12335	-	-	-	-
60. Other economic activities	1889	483	338	14152	278	94	66	2754
61. Statistical difference	39226	10031	7020	293907	69733	23486	16435	688139

	FIREWOOD (including wood waste)				CRUDE OIL (including natural gas liquids)			
	tonnes	tce	toe	GJ	tonnes	tce	toe	GJ
1.Primary production (recovered products included)	13004423	4515922	3160197	132316515	5705377	7990424	5591620	234119424
2. Imports	-	-	-	-	7314284	10448967	7312083	306154733
3. Opening stock	401055	139791	97824	4095876	782689	1105940	773926	32404042
4. TOTAL RESOURCES	13405478	4655713	3258021	136412391	13802350	19545331	13677629	572678199
5. Exports	-	-	-	-	-	-	-	-
6. Bunkers	-	-	-	-	-	-	-	-
7. Closing stock	510276	177319	124086	5195447	816308	1153204	807001	33788877
8. GROSS INLAND CONSUMPTION	12895202	4478394	3133935	131216944	12986042	18392127	12870628	538889322
9. Transformation input	292436	93511	65438	2739873	12595902	17836418	12481748	522607047
10. Conventional thermal power stations	3816	1212	848	35512	-	-	-	-
11. Nuclear power stations	-	-	-	-	-	-	-	-
12. Heat plants	288620	92299	64590	2704361	-	-	-	-
13. Patent fuel plants	-	-	-	-	-	-	-	-
14. Coke-oven plants	-	-	-	-	-	-	-	-
15. Blast-furnace plants	-	-	-	-	-	-	-	-
16. Refineries	-	-	-	-	12595902	17836418	12481748	522607047
17. Other	-	-	-	-	-	-	-	-
18. Transformation output	-	-	-	-	-	-	-	-
19. Conventional thermal power stations	-	-	-	-	-	-	-	-
20. Nuclear power stations	-	-	-	-	-	-	-	-
21. Heat plants	-	-	-	-	-	-	-	-
22. Patent fuel plants	-	-	-	-	-	-	-	-
23. Coke-oven plants	-	-	-	-	-	-	-	-
24. Blast-furnace plants	-	-	-	-	-	-	-	-
25. Refineries	-	-	-	-	-	-	-	-
26. Other	-	-	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	20803	6780	4746	198653	142303	203783	142605	5970842
29. Coal mining and preparation	993	346	242	10138	-	-	-	-
30. Hydrocarbons extraction and annexed services	367	128	90	3750	142303	203783	142605	5970842
31. Radioactive ores quarrying	40	14	10	410	-	-	-	-
32. Crude oil processing, coal coking and nuclear fuel treatment	176	62	44	1816	-	-	-	-
33. Electric and thermal energy production, transport and distribution	19227	6230	4360	182539	-	-	-	-
34. Losses	2	1	1	29	75601	108960	76249	3192528
35. AVAILABLE FOR FINAL CONSUMPTION	12581961	4378103	3063753	128278418	172236	242994	170044	7119725
36. Non-energy consumption	-	-	-	-	14	24	17	703
37. FINAL ENERGY CONSUMPTION	12504822	4353730	3046697	127564289	28	41	28	1202
38. Industry	1139885	376088	263183	11019378	12	18	12	528
39. Mining of metal ores	393	137	95	4015	-	-	-	-
40. Other mining and quarrying	2245	786	550	23030	-	-	-	-
41. Food, beverages and tobacco	92351	30313	21213	888171	-	-	-	-
42. Textile and textile products	3738	1236	865	36215	-	-	-	-
43. Textile fur and leather wearing apparel	5363	1877	1314	54996	-	-	-	-
44. Leather goods and foot wear	1459	511	358	14972	1	2	1	59
45. Wood and products of wood	331301	111586	78086	3269470	-	-	-	-
46. Pulp, paper and paper products	435389	138283	96769	4051692	-	-	-	-
47. Publishing, printing and reproduction of recorded media	145	51	36	1494	-	-	-	-
48. Chemistry and chemical products	3164	1107	774	32435	-	-	-	-
49. Rubber and plastic products	6311	2018	1412	59128	-	-	-	-
50. Other non-metallic mineral products	5370	1702	1191	49868	-	-	-	-
51. Metallurgy	22	8	6	234	-	-	-	-
52. Metal products, machinery and equipment	22091	7552	5285	221274	11	16	11	469
53. Furniture and other unclassified activities	210469	71921	50329	2107285	-	-	-	-
54. Waste recovering	1108	388	272	11368	-	-	-	-
55. Water collection,	4685	1640	1148	48052	-	-	-	-

treatment and distribution								
56. Construction	14281	4972	3480	145679	-	-	-	-
57. Transport	402	140	98	4102	-	-	-	-
58. Households	10862236	3801783	2660450	111392242	-	-	-	-
59. Agriculture and Forestry	6295	2198	1538	64401	-	-	-	-
60. Other economic activities	496004	173521	121428	5084166	16	23	16	674
61. Statistical difference	77139	24373	17056	714129	172194	242929	169999	7117820
	GASOLINE				KEROSENE (including white spirit)			
	tonnes	tce	toe	GJ	tonnes	tce	toe	GJ
1.Primary production (recovered products included)	-	-	-	-	-	-	-	-
2. Imports	86152	129229	90432	3786411	41746	61458	43007	1800720
3. Opening stock	197473	293609	205465	8602743	4379	6835	4783	200265
4. TOTAL RESOURCES	283625	422838	295897	12389154	46125	68293	47790	2000985
5. Exports	2019590	3000715	2099870	87920950	113633	181626	127100	5321641
6. Bunkers	-	-	-	-	-	-	-	-
7. Closing stock	188574	280693	196427	8224306	6024	9602	6719	281339
8. GROSS INLAND CONSUMPTION	-1924539	-2858570	-2000400	-83756102	-73532	-122935	-86029	-3601995
9. Transformation input	47	70	49	2051	1	1	1	29
10. Conventional thermal power stations	25	37	26	1084	-	-	-	-
11. Nuclear power stations	-	-	-	-	-	-	-	-
12. Heat plants	22	33	23	967	1	1	1	29
13. Patent fuel plants	-	-	-	-	-	-	-	-
14. Coke-oven plants	-	-	-	-	-	-	-	-
15. Blast-furnace plants	-	-	-	-	-	-	-	-
16. Refineries	-	-	-	-	-	-	-	-
17. Other	-	-	-	-	-	-	-	-
18. Transformation output	4057547	6035134	4223327	176829426	253605	411427	287913	12054811
19. Conventional thermal power stations	-	-	-	-	-	-	-	-
20. Nuclear power stations	-	-	-	-	-	-	-	-
21. Heat plants	-	-	-	-	-	-	-	-
22. Patent fuel plants	-	-	-	-	-	-	-	-
23. Coke-oven plants	-	-	-	-	-	-	-	-
24. Blast-furnace plants	-	-	-	-	-	-	-	-
25. Refineries	4057547	6035134	4223327	176829426	253605	411427	287913	12054811
26. Other	-	-	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	6410	9519	6660	278908	56	81	57	2373
29. Coal mining and preparation	14	20	14	586	1	1	1	29
30. Hydrocarbons extraction and annexed services	5631	8363	5852	245036	40	59	41	1729
31. Radioactive ores quarrying	-	-	-	-	-	-	-	-
32. Crude oil processing, coal coking and nuclear fuel treatment	9	13	9	381	-	-	-	-
33. Electric and thermal energy production, transport and distribution	756	1123	785	32905	15	21	15	615
34. Losses	13925	20680	14472	605924	-	-	-	-
35. AVAILABLE FOR FINAL CONSUMPTION	2112626	3146307	2201754	92186796	180016	288408	201825	8450355
36. Non-energy consumption	1826	2739	1917	80253	3375	5055	3537	148112
37. FINAL ENERGY CONSUMPTION	2917683	4339773	3036925	127155354	80867	131915	92312	3865111
38. Industry	442065	662578	463660	19413541	3612	5667	3965	166044
39. Mining of metal ores	39	58	41	1699	1	1	1	29
40. Other mining and quarrying	108	161	112	4718	4	6	4	176
41. Food, beverages and tobacco	5528	8212	5746	240613	1	1	1	29
42. Textile and textile products	140	208	145	6095	2	3	2	88
43. Textile fur and leather wearing apparel	1046	1554	1087	45532	-	-	-	-
44. Leather goods and foot wear	136	202	141	5919	1	2	1	59
45. Wood and products of wood	3186	4732	3311	138648	-	-	-	-
46. Pulp, paper and paper products	28	42	29	1231	1	1	1	29
47. Publishing, printing and reproduction of recorded media	1206	1791	1253	52476	108	158	111	4629
48. Chemistry and chemical products	406942	610403	427153	17884809	508	762	533	22327
49. Rubber and plastic products	632	942	659	27601	64	94	66	2754
50. Other non-metallic mineral products	752	1117	782	32728	28	42	29	1231
51. Metallurgy	74	109	76	3194	8	12	8	352

52. Metal products, machinery and equipment	3772	5605	3922	164226	2653	4243	2969	124320
53. Furniture and other unclassified activities	319	474	331	13889	27	40	28	1172
54. Waste recovering	241	358	251	10489	-	-	-	-
55. Water collection, treatment and distribution	392	582	407	17053	-	-	-	-
56. Construction	17524	26028	18214	762621	206	302	211	8849
57. Transport	2258449	3354464	2347421	98285795	76639	125332	87706	3672228
58. Households	14082	21123	14782	618904	111	167	117	4893
59. Agriculture and Forestry	3846	5713	3998	167390	191	280	196	8204
60. Other economic activities	199241	295895	207064	8669724	314	469	328	13742
61. Statistical difference	-806883	-1196205	-837088	-35048811	95774	151438	105976	4437132
	DIESEL OIL				FUEL OIL			
	tonnes	tce	tonnes	tce	tonnes	tce	tonnes	tce
1.Primary production (recovered products included)	-	-	-	-	-	-	-	-
2. Imports	432746	627482	439106	18385223	671032	924070	646655	27075251
3. Opening stock	237869	344910	241365	10105863	554382	750029	524863	21975850
4. TOTAL RESOURCES	670615	972392	680471	28491086	1225414	1674099	1171518	49051101
5. Exports	1591009	2306963	1614390	67594016	410768	552099	386353	16176501
6. Bunkers	-	-	-	-	-	-	-	-
7. Closing stock	200703	291019	203652	8526857	641043	867518	607080	25418277
8. GROSS INLAND CONSUMPTION	-1121097	-1625590	-1137571	-47629787	173603	254482	178085	7456323
9. Transformation input	2934	4254	2977	124643	981469	1330022	930737	38969645
10. Conventional thermal power stations	962	1395	976	40874	418430	566770	396620	16606361
11. Nuclear power stations	-	-	-	-	-	-	-	-
12. Heat plants	1972	2859	2001	83769	563039	763252	534117	22363284
13. Patent fuel plants	-	-	-	-	-	-	-	-
14. Coke-oven plants	-	-	-	-	-	-	-	-
15. Blast-furnace plants	-	-	-	-	-	-	-	-
16. Refineries	-	-	-	-	-	-	-	-
17. Other	-	-	-	-	-	-	-	-
18. Transformation output	3946292	5722123	4004285	167658204	1559049	2093803	1465222	61348428
19. Conventional thermal power stations	-	-	-	-	-	-	-	-
20. Nuclear power stations	-	-	-	-	-	-	-	-
21. Heat plants	-	-	-	-	-	-	-	-
22. Patent fuel plants	-	-	-	-	-	-	-	-
23. Coke-oven plants	-	-	-	-	-	-	-	-
24. Blast-furnace plants	-	-	-	-	-	-	-	-
25. Refineries	3946292	5722123	4004285	167658204	1559049	2093803	1465222	61348428
26. Other	-	-	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	95033	137798	96430	4037481	232280	314654	220192	9219362
29. Coal mining and preparation	3916	5678	3973	166365	-	-	-	-
30. Hydrocarbons extraction and annexed services	84622	122702	85866	3595169	36922	50148	35093	1469336
31. Radioactive ores quarrying	-	-	-	-	-	-	-	-
32. Crude oil processing, coal coking and nuclear fuel treatment	331	480	336	14064	147099	199026	139276	5831462
33. Electric and thermal energy production, transport and distribution	6164	8938	6255	261883	48259	65480	45823	1918564
34. Losses	126487	183406	128346	5373796	-	-	-	-
35. AVAILABLE FOR FINAL CONSUMPTION	2600741	3771074	2638960	110492468	518903	703606	492376	20615656
36. Non-energy consumption	30954	44883	31409	1315072	4986	6704	4691	196427
37. FINAL ENERGY CONSUMPTION	3882534	5629676	3939591	164949509	472615	640451	448179	18765218
38. Industry	262495	380619	266353	11152138	334837	453962	317677	13301089
39. Mining of metal ores	3777	5477	3833	160476	5044	6851	4794	200734
40. Other mining and quarrying	8719	12643	8847	370440	4859	6526	4567	191212
41. Food, beverages and tobacco	36004	52206	36533	1529636	31131	41962	29364	1229487
42. Textile and textile products	208	302	211	8849	50890	69111	48363	2024953
43. Textile fur and leather wearing apparel	2401	3481	2436	101993	200	269	188	7882
44. Leather goods and foot wear	731	1060	742	31058	-	-	-	-
45. Wood and products of wood	51898	75252	52661	2204884	3329	4476	3132	131147
46. Pulp, paper and paper products	1116	1618	1132	47407	20373	27641	19343	809881
47. Publishing, printing and reproduction of recorded media	822	1192	834	34926	-	-	-	-
48. Chemistry and chemical	2050	2973	2080	87109	24664	33482	23430	981023

products								
49. Rubber and plastic products	738	1070	749	31351	2251	3039	2127	89043
50. Other non-metallic mineral products	2980	4321	3024	126605	21520	29059	20335	851429
51. Metallurgy	1078	1563	1094	45796	155783	211575	148058	6199148
52. Metal products, machinery and equipment	14493	21015	14706	615740	14157	19108	13372	559864
53. Furniture and other unclassified activities	1865	2704	1892	79227	18	24	17	703
54. Waste recovering	1697	2461	1722	72107	-	-	-	-
55. Water collection, treatment and distribution	1760	2552	1786	74774	47	63	44	1846
56. Construction	130158	188729	132071	5529760	571	776	543	22737
57. Transport	3122346	4527402	3168231	132652879	21320	28643	20044	839240
58. Households	-	-	-	-	94926	128929	90223	3777620
59. Agriculture and Forestry	121960	176842	123752	5181471	394	529	370	15500
60. Other economic activities	375733	544813	381255	15963021	21138	28388	19865	831769
61. Statistical difference	-1312747	-1903485	-1332040	-55772113	41302	56451	39506	1654011
	REFINERY GAS (inclusive propylene)				LPG			
	tonnes	tce	tonnes	tce	tonnes	tce	tonnes	tce
1.Primary production (recovered products included)	-	-	-	-	-	-	-	-
2. Imports	9690	15919	11140	466427	70266	115437	80782	3382304
3. Opening stock	8237	13533	9470	396517	10438	17149	12001	502466
4. TOTAL RESOURCES	17927	29452	20610	862944	80704	132586	92783	3884770
5. Exports	92601	152143	106468	4457790	46900	77056	53923	2257741
6. Bunkers	-	-	-	-	-	-	-	-
7. Closing stock	-	-	-	-	16557	27203	19036	797048
8. GROSS INLAND CONSUMPTION	-74674	-122691	-85858	-3594846	17247	28327	19824	829981
9. Transformation input	12042	19785	13845	579701	922	1515	1060	44390
10. Conventional thermal power stations	3785	6219	4352	182217	68	112	78	3282
11. Nuclear power stations	-	-	-	-	-	-	-	-
12. Heat plants	8257	13566	9493	397484	854	1403	982	41108
13. Patent fuel plants	-	-	-	-	-	-	-	-
14. Coke-oven plants	-	-	-	-	-	-	-	-
15. Blast-furnace plants	-	-	-	-	-	-	-	-
16. Refineries	-	-	-	-	-	-	-	-
17. Other	-	-	-	-	-	-	-	-
18. Transformation output	1053206	1730417	1210929	50701218	366121	601537	420950	17625034
19. Conventional thermal power stations	-	-	-	-	-	-	-	-
20. Nuclear power stations	-	-	-	-	-	-	-	-
21. Heat plants	-	-	-	-	-	-	-	-
22. Patent fuel plants	-	-	-	-	-	-	-	-
23. Coke-oven plants	-	-	-	-	-	-	-	-
24. Blast-furnace plants	-	-	-	-	-	-	-	-
25. Refineries	1053206	1730417	1210929	50701218	366121	601537	420950	17625034
26. Other	-	-	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	585922	962669	673666	28206202	162	266	186	7794
29. Coal mining and preparation	-	-	-	-	41	67	47	1963
30. Hydrocarbons extraction and annexed services	25066	41183	28819	1206662	12	20	14	586
31. Radioactive ores quarrying	-	-	-	-	-	-	-	-
32. Crude oil processing, coal coking and nuclear fuel treatment	560722	921266	644693	26993094	48	79	55	2315
33. Electric and thermal energy production, transport and distribution	134	220	154	6446	61	100	70	2930
34. Losses	-	-	-	-	51	84	59	2461
35. AVAILABLE FOR FINAL CONSUMPTION	380568	625273	437560	18320499	382233	628001	439469	18400429
36. Non-energy consumption	184898	303787	212587	8900959	-	-	-	-
37. FINAL ENERGY CONSUMPTION	189121	310725	217442	9104242	233761	384064	268766	11253075
38. Industry	105722	173701	121554	5089439	13037	21419	14990	627576
39. Mining of metal ores	-	-	-	-	13	21	15	615
40. Other mining and quarrying	-	-	-	-	6	10	7	293
41. Food, beverages and tobacco	-	-	-	-	4829	7934	5552	232466
42. Textile and textile products	-	-	-	-	631	1037	726	30384
43. Textile fur and leather wearing apparel	-	-	-	-	601	987	691	28919
44. Leather goods and foot	-	-	-	-	372	611	428	17902

wear								
45. Wood and products of wood	-	-	-	-	289	475	332	13918
46. Pulp, paper and paper products	-	-	-	-	95	156	109	4571
47. Publishing, printing and reproduction of recorded media	-	-	-	-	145	238	167	6973
48. Chemistry and chemical products	105223	172881	120980	5065413	361	593	415	17375
49. Rubber and plastic products	-	-	-	-	13	21	15	615
50. Other non-metallic mineral products	-	-	-	-	20	33	23	967
51. Metallurgy	-	-	-	-	59	97	68	2842
52. Metal products, machinery and equipment	60	99	69	2901	4724	7761	5431	227397
53. Furniture and other unclassified activities	-	-	-	-	48	79	55	2315
54. Waste recovering	-	-	-	-	292	480	336	14064
55. Water collection, treatment and distribution	-	-	-	-	28	46	32	1348
56. Construction	439	721	505	21125	511	840	588	24612
57. Transport	5	8	6	234	82060	134823	94348	3950314
58. Households	83394	137016	95882	4014569	71996	118288	82777	3465838
59. Agriculture and Forestry	-	-	-	-	1383	2272	1590	66570
60. Other economic activities	-	-	-	-	65285	107262	75061	3142777
61. Statistical difference	6549	10761	7531	315298	148472	243937	170703	7147354

	OTHER OIL PRODUCTS				NATURAL GAS			
	tonnes	tce	tonnes	tce	tonnes	tce	tonnes	tce
1.Primary production (recovered products included)	-	-	-	-	12792342	14569551	10195627	42688783
2. Imports	616710	734191	513780	21511797	5128860	5898189	4127494	17281693
3. Opening stock	250992	342425	239625	10033053	644637	736240	515213	21571832
4. TOTAL RESOURCES	867702	1076616	753405	31544850	18565839	21203980	14838334	62127660
5. Exports	95517	112789	78928	3304717	-	-	-	-
6. Bunkers	-	-	-	-	-	-	-	-
7. Closing stock	370025	486964	340773	14268046	1341836	1532511	1072436	44902572
8. GROSS INLAND CONSUMPTION	402160	476863	333704	13972087	17224003	19671469	13765898	57637403
9. Transformation input	59780	82791	57937	2425776	5481850	6260820	4381259	18344202
10. Conventional thermal power stations	13	18	13	527	2807695	3206668	2243994	93955372
11. Nuclear power stations	-	-	-	-	-	-	-	-
12. Heat plants	59767	82773	57924	2425249	2674155	3054152	2137265	89486654
13. Patent fuel plants	-	-	-	-	-	-	-	-
14. Coke-oven plants	-	-	-	-	-	-	-	-
15. Blast-furnace plants	-	-	-	-	-	-	-	-
16. Refineries	-	-	-	-	-	-	-	-
17. Other	-	-	-	-	-	-	-	-
18. Transformation output	1800880	2320268	1623701	67983851	-	-	-	-
19. Conventional thermal power stations	-	-	-	-	-	-	-	-
20. Nuclear power stations	-	-	-	-	-	-	-	-
21. Heat plants	-	-	-	-	-	-	-	-
22. Patent fuel plants	-	-	-	-	-	-	-	-
23. Coke-oven plants	-	-	-	-	-	-	-	-
24. Blast-furnace plants	-	-	-	-	-	-	-	-
25. Refineries	1800880	2320268	1623701	67983851	-	-	-	-
26. Other	-	-	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	474952	648660	453926	19005739	1382251	1578669	1104737	46255001
29. Coal mining and preparation	108	147	103	4307	2742	3132	2192	91768
30. Hydrocarbons extraction and annexed services	43741	65652	45943	1923604	744145	849888	594743	24901718
31. Radioactive ores quarrying	70	95	66	2784	7183	8204	5741	240377
32. Crude oil processing, coal coking and nuclear fuel treatment	429680	580912	406516	17020722	492780	562804	393845	16490157
33. Electric and thermal energy production, transport and distribution	1353	1854	1298	54322	135401	154641	108216	4530981
34. Losses	64240	96369	67438	2823612	539884	616602	431492	18066435
35. AVAILABLE FOR FINAL CONSUMPTION	1604068	1969315	1378108	57700931	9820018	11215443	7848456	32861248
36. Non-energy consumption	343611	410601	287334	12030610	811657	926993	648700	27160895
37. FINAL ENERGY CONSUMPTION	878862	1069691	748558	31341949	9814341	11208960	7843918	32842252
38. Industry	718868	862890	603840	25282679	5672716	6478810	4533806	18982913
39. Mining of metal ores	1155	1567	1097	45913	2333	2665	1865	78085
40. Other mining and quarrying	1118	1517	1062	44448	7415	8469	5927	248142
41. Food, beverages and tobacco	24281	32956	23062	965611	436703	498758	349026	14613605
42. Textile and textile products	1901	2580	1805	75594	99783	113962	79749	3339087
43. Textile fur and leather	4186	5687	3979	166630	69583	79471	55613	2328500

wearing apparel								
44. Leather goods and foot wear	358	486	340	14240	45621	52104	36462	1526647
45. Wood and products of wood	31	42	29	1231	22394	25576	17898	749377
46. Pulp, paper and paper products	-	-	-	-	107959	123300	86284	3612690
47. Publishing, printing and reproduction of recorded media	28	38	26	1114	5734	6549	4583	191886
48. Chemistry and chemical products	22909	34157	23903	1000800	2607614	2978156	2084084	87259971
49. Rubber and plastic products	658	933	653	27337	99577	113727	79585	3332201
50. Other non-metallic mineral products	540724	635088	444428	18608078	673885	769644	538589	22550569
51. Metallurgy	92297	108189	75710	3169938	923170	1054352	737825	30892514
52. Metal products, machinery and equipment	3352	4543	3179	133110	466368	532639	372735	15606323
53. Furniture and other unclassified activities	95	128	89	3751	36072	41198	28830	1207101
54. Waste recovering	2024	2747	1922	80487	4144	4733	3312	138677
55. Water collection, treatment and distribution	150	204	143	5977	5130	5859	4100	171669
56. Construction	23601	32028	22413	938420	59231	67648	47339	1982086
57. Transport	6254	8503	5951	249138	31040	35451	24808	1038714
58. Households	76154	93008	65087	2725135	3214454	3671228	2569089	10756698
59. Agriculture and Forestry	1965	2667	1866	78143	43489	49669	34758	1455302
60. Other economic activities	75621	102623	71814	3006854	852642	973802	681457	28532395
61. Statistical difference	381595	489023	342216	14328372	-805980	-920510	-644162	-2697094

	COKE OVEN GAS				BLAST FURNACE GAS			
	ths.m ³ 15° C	tce	ths.m ³ 15°C	tce	ths.m ³ 15°C	tce	ths.m ³ 15°C	tce
1.Primary production (recovered products included)	-	-	-	-	-	-	-	-
2. Imports	-	-	-	-	-	-	-	-
3. Opening stock	-	-	-	-	-	-	-	-
4. TOTAL RESOURCES	-	-	-	-	-	-	-	-
5. Exports	-	-	-	-	-	-	-	-
6. Bunkers	-	-	-	-	-	-	-	-
7. Closing stock	-	-	-	-	-	-	-	-
8. GROSS INLAND CONSUMPTION	-	-	-	-	-	-	-	-
9. Transformation input	17640	9100	6368	266630	1184889	134283	93970	3934492
10. Conventional thermal power stations	11567	5967	4176	174833	991461	112362	78630	3292207
11. Nuclear power stations	-	-	-	-	-	-	-	-
12. Heat plants	6073	3133	2192	91797	193428	21921	15340	642285
13. Patent fuel plants	-	-	-	-	-	-	-	-
14. Coke-oven plants	-	-	-	-	-	-	-	-
15. Blast-furnace plants	-	-	-	-	-	-	-	-
16. Refineries	-	-	-	-	-	-	-	-
17. Other	-	-	-	-	-	-	-	-
18. Transformation output	749173	386461	270442	11323307	7984679	904904	633243	26513687
19. Conventional thermal power stations	-	-	-	-	-	-	-	-
20. Nuclear power stations	-	-	-	-	-	-	-	-
21. Heat plants	-	-	-	-	-	-	-	-
22. Patent fuel plants	-	-	-	-	-	-	-	-
23. Coke-oven plants	749173	386461	270442	11323307	-	-	-	-
24. Blast-furnace plants	-	-	-	-	7984679	904904	633243	26513687
25. Refineries	-	-	-	-	-	-	-	-
26. Other	-	-	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	400502	206599	144576	6053351	1101944	124884	87392	3659101
29. Coal mining and preparation	-	-	-	-	-	-	-	-
30. Hydrocarbons extraction and annexed services	-	-	-	-	-	-	-	-
31. Radioactive ores quarrying	-	-	-	-	-	-	-	-
32. Crude oil processing, coal coking and nuclear fuel treatment	400502	206599	144576	6053351	670745	76016	53195	2227269
33. Electric and thermal energy production, transport and distribution	-	-	-	-	431199	48868	34197	1431832
34. Losses	5542	2859	2001	83769	438619	49709	34786	1456474
35. AVAILABLE FOR FINAL CONSUMPTION	325489	167904	117498	4919587	5259227	596028	417094	17463620
36. Non-energy consumption	-	-	-	-	-	-	-	-
37. FINAL ENERGY CONSUMPTION	324992	167647	117318	4912058	5255989	595661	416838	17452867
38. Industry	324992	167647	117318	4912058	5255989	595661	416838	17452867
39. Mining of metal ores	-	-	-	-	-	-	-	-
40. Other mining and quarrying	-	-	-	-	-	-	-	-
41. Food, beverages and tobacco	-	-	-	-	-	-	-	-
42. Textile and textile products	-	-	-	-	-	-	-	-
43. Textile fur and leather	-	-	-	-	-	-	-	-

wearing apparel								
44. Leather goods and foot wear	-	-	-	-	-	-	-	-
45. Wood and products of wood	-	-	-	-	-	-	-	-
46. Pulp, paper and paper products	-	-	-	-	-	-	-	-
47. Publishing, printing and reproduction of recorded media	-	-	-	-	-	-	-	-
48. Chemistry and chemical products	-	-	-	-	-	-	-	-
49. Rubber and plastic products	-	-	-	-	-	-	-	-
50. Other non-metallic mineral products	-	-	-	-	43120	4887	3420	143189
51. Metallurgy	318164	164125	114853	4808863	5212869	590774	413418	17309678
52. Metal products, machinery and equipment	6828	3522	2465	103195	-	-	-	-
53. Furniture and other unclassified activities	-	-	-	-	-	-	-	-
54. Waste recovering	-	-	-	-	-	-	-	-
55. Water collection, treatment and distribution	-	-	-	-	-	-	-	-
56. Construction	-	-	-	-	-	-	-	-
57. Transport	-	-	-	-	-	-	-	-
58. Households	-	-	-	-	-	-	-	-
59. Agriculture and Forestry	-	-	-	-	-	-	-	-
60. Other economic activities	-	-	-	-	-	-	-	-
61. Statistical difference	497	257	180	7529	3238	367	256	10753

	OTHER FUELS			ENERGY FROM UNCONVENTIONAL SOURCES		
	tce	toe	tce	toe	tce	toe
1.Primary production (recovered products included)	131378	91937	3849376	115552	80862	3385674
2. Imports	1615	1130	47320	-	-	-
3. Opening stock	699	489	20481	-	-	-
4. TOTAL RESOURCES	133692	93556	3917177	115552	80862	3385674
5. Exports	-	-	-	-	-	-
6. Bunkers	-	-	-	-	-	-
7. Closing stock	684	478	20042	-	-	-
8. GROSS INLAND CONSUMPTION	133008	93078	3897135	115552	80862	3385674
9. Transformation input	2634	1843	77176	1566	1096	45884
10. Conventional thermal power stations	-	-	-	577	404	16906
11. Nuclear power stations	-	-	-	-	-	-
12. Heat plants	2634	1843	77176	989	692	28978
13. Patent fuel plants	-	-	-	-	-	-
14. Coke-oven plants	-	-	-	-	-	-
15. Blast-furnace plants	-	-	-	-	-	-
16. Refineries	-	-	-	-	-	-
17. Other	-	-	-	-	-	-
18. Transformation output	-	-	-	-	-	-
19. Conventional thermal power stations	-	-	-	-	-	-
20. Nuclear power stations	-	-	-	-	-	-
21. Heat plants	-	-	-	-	-	-
22. Patent fuel plants	-	-	-	-	-	-
23. Coke-oven plants	-	-	-	-	-	-
24. Blast-furnace plants	-	-	-	-	-	-
25. Refineries	-	-	-	-	-	-
26. Other	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	21320	14920	624669	-	-	-
29. Coal mining and preparation	-	-	-	-	-	-
30. Hydrocarbons extraction and annexed services	771	540	22590	-	-	-
31. Radioactive ores quarrying	-	-	-	-	-	-
32. Crude oil processing, coal coking and nuclear fuel treatment	19614	13726	574690	-	-	-
33. Electric and thermal energy production, transport and distribution	935	654	27389	-	-	-
34. Losses	126	88	3692	-	-	-
35. AVAILABLE FOR FINAL CONSUMPTION	110965	77652	3251274	113986	79766	3339790
36. Non-energy consumption	36298	25401	1063550	-	-	-
37. FINAL ENERGY CONSUMPTION	71026	49702	2081063	113986	79766	3339791
38. Industry	62820	43961	1840627	791	553	23177
39. Mining of metal ores	-	-	-	-	-	-
40. Other mining and quarrying	-	-	-	-	-	-
41. Food, beverages and tobacco	-	-	-	-	-	-
42. Textile and textile products	-	-	-	-	-	-
43. Textile fur and leather wearing apparel	79	55	2315	-	-	-
44. Leather goods and foot wear	-	-	-	89	62	2608
45. Wood and products of wood	-	-	-	-	-	-
46. Pulp, paper and paper products	-	-	-	-	-	-

47. Publishing, printing and reproduction of recorded media	-	-	-	-	-	-
48. Chemistry and chemical products	48439	33897	1419263	-	-	-
49. Rubber and plastic products	-	-	-	-	-	-
50. Other non-metallic mineral products	1846	1292	54088	-	-	-
51. Metallurgy	12029	8418	352450	-	-	-
52. Metal products, machinery and equipment	427	299	12511	-	-	-
53. Furniture and other unclassified activities	-	-	-	-	-	-
54. Waste recovering	-	-	-	-	-	-
55. Water collection, treatment and distribution	-	-	-	702	491	20569
56. Construction	-	-	-	-	-	-
57. Transport	-	-	-	-	-	-
58. Households	6011	4206	176122	11809	8264	346004
59. Agriculture and Forestry	14	9	411	-	-	-
60. Other economic activities	2181	1526	63903	101386	70949	2970610
61. Statistical difference	1604	1124	46995	-	-	-

	ELECTRICITY				HEAT			
	MWh	tce	MWh	tce	MWh	tce	MWh	tce
1.Primary production (recovered products included)	16513195	2031123	1421360	59511904	13591930	1943646	1360144	56948828
2. Imports	2583559	317778	222378	9310895	-	-	-	-
3. Opening stock	-	-	-	-	-	-	-	-
4. TOTAL RESOURCES	19096754	2348901	1643738	68822799	13591930	1943646	1360144	56948828
5. Exports	3766342	463260	324185	13573518	-	-	-	-
6. Bunkers	-	-	-	-	-	-	-	-
7. Closing stock	-	-	-	-	-	-	-	-
8. GROSS INLAND CONSUMPTION	15330412	1885641	1319553	55249281	13591930	1943646	1360144	56948828
9. Transformation input	-	-	-	-	13591930	1943646	1360144	56948828
10. Conventional thermal power stations	-	-	-	-	-	-	-	-
11. Nuclear power stations	-	-	-	-	13591930	1943646	1360144	56948828
12. Heat plants	-	-	-	-	-	-	-	-
13. Patent fuel plants	-	-	-	-	-	-	-	-
14. Coke-oven plants	-	-	-	-	-	-	-	-
15. Blast-furnace plants	-	-	-	-	-	-	-	-
16. Refineries	-	-	-	-	-	-	-	-
17. Other	-	-	-	-	-	-	-	-
18. Transformation output	39968808	4916163	3440282	144043576	32321718	4622006	3234434	135424776
19. Conventional thermal power stations	34420726	4233749	2962735	124048846	-	-	-	-
20. Nuclear power stations	5548082	682414	477547	19994730	-	-	-	-
21. Heat plants	-	-	-	-	32321718	4622006	3234434	135424776
22. Patent fuel plants	-	-	-	-	-	-	-	-
23. Coke-oven plants	-	-	-	-	-	-	-	-
24. Blast-furnace plants	-	-	-	-	-	-	-	-
25. Refineries	-	-	-	-	-	-	-	-
26. Other	-	-	-	-	-	-	-	-
27. TRANSFERS	-	-	-	-	-	-	-	-
28. CONSUMPTION OF THE ENERGY SECTOR	10468886	1287673	901101	37728820	4192380	599510	419531	17565642
29. Coal mining and preparation	1077252	132502	92724	3882309	20262	2897	2027	84882
30. Hydrocarbons extraction and annexed services	1603467	197226	138017	5778722	219278	31357	21943	918760
31. Radioactive ores quarrying	19200	2362	1653	69207	150	21	15	615
32. Crude oil processing, coal coking and nuclear fuel treatment	1184479	145691	101953	4268746	1538718	220037	153980	6447084
33. Electric and thermal energy production, transport and distribution	6584488	809892	566754	23729836	2413972	345198	241566	10114301
34. Losses	6055880	744873	521255	21824779	6277506	897683	628190	26302112
35. AVAILABLE FOR FINAL CONSUMPTION	38774454	4769257	3337479	139739230	21851832	3124812	2186712	91556992
36. Non-energy consumption	-	-	-	-	-	-	-	-
37. FINAL ENERGY CONSUMPTION	38774454	4769257	3337479	139739230	21851832	3124812	2186711	91556993
38. Industry	25257277	3106644	2173999	91024672	4786325	684444	478967	20054211
39. Mining of metal ores	408448	50239	35157	1472003	35429	5066	3545	148434
40. Other mining and	95898	11795	8254	345594	5675	812	568	23792

quarrying								
41. Food, beverages and tobacco	3343112	411203	287756	12048248	1272915	182027	127381	5333391
42. Textile and textile products	490375	60316	42209	1767259	68029	9728	6808	285030
43. Textile fur and leather wearing apparel	395126	48600	34010	1423980	94046	13449	9411	394056
44. Leather goods and foot wear	112748	13868	9705	406332	10275	1469	1028	43042
45. Wood and products of wood	714983	87943	61542	2576730	123665	17684	12375	518141
46. Pulp, paper and paper products	612707	75363	52738	2208136	100652	14393	10072	421715
47. Publishing, printing and reproduction of recorded media	94511	11625	8135	340613	65395	9351	6544	273984
48. Chemistry and chemical products	3526499	433759	303540	12709139	1759058	251545	176029	7370269
49. Rubber and plastic products	285982	35176	24616	1030657	8531	1220	854	35746
50. Other non-metallic mineral products	2056462	252945	177008	7411289	30061	4299	3008	125961
51. Metallurgy	8543533	1050855	735378	30790052	38828	5552	3885	162674
52. Metal products, machinery and equipment	2609112	320921	224577	9402985	705065	100824	70556	2954143
53. Furniture and other unclassified activities	422643	51985	36379	1523161	296979	42468	29719	1244312
54. Waste recovering	27207	3346	2341	98038	3559	509	356	14914
55. Water collection, treatment and distribution	837945	103067	72125	3019863	40900	5849	4093	171376
56. Construction	679986	83638	58529	2450593	127263	18199	12735	533231
57. Transport	1617060	198898	139187	5827711	267704	38282	26789	1121663
58. Households	8043211	989315	692313	28986930	15905599	2274501	1591673	66642879
59. Agriculture and Forestry	270964	33329	23323	976540	282267	40364	28246	1182665
60. Other economic activities	3585942	441070	308657	12923351	609937	87221	61036	2555575
61. Statistical difference	-	-	-	-	-	-	-	-