

UCTE



Statistical Yearbook 2003

union for the co-ordination of transmission of electricity

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What is UCTE ?

The »Union for the Co-ordination of Transmission of Electricity« (UCTE) is an association of transmission system operators in continental Europe, providing a reliable market base by efficient and secure electrical »power highways«. The interconnected system ensures the technical condition for the reliable operation, and provides benefit for all market participants because they guarantee market access.

For more than fifty years UCTE has been co-ordinating by a variety of technical rules and recommendations the international operation of high voltage grids that all work with one »heart beat«: the 50 Hz UCTE frequency. UCTE is committed to the development of the system to meet all new market requirements, but without losses in terms of reliability for the existing system. The UCTE network brings a safe electricity supply for some 450 million people. Therefore UCTE handles one of the biggest electrical synchronous interconnections worldwide. This technical solution provides the possibility of the free market operation.

Keyfigures

33	Transmission System Operators (TSO)
22	European Countries
450 million	People served by the represented power systems
535 GW	Installed capacity
2400 TWh	Electricity consumption in 2003
270 TWh	Sum of electricity exchange between member TSO's under rules of UCTE
220.000 km	Length of high-voltage transmission lines managed by the TSO's

UCTE activities include the preparation of a statistical yearbook. This publication is the result of the ongoing efforts of the Working Group "Statistics", the national correspondents and the UCTE Secretariat on the development, processing and production of appropriate statistics.

Part of the statistical data are used for various graphical representations in other publications such as the Half-yearly Reports, the Memo and the Monthly Statistics, which are amongst others all available on the web site "<http://www.ucte.org>". Figures indicated for the various countries may differ from other national statistics published, since the former will only describe that part of the electricity supply system which is concerned with interconnected system operation. Consequently, these data will not be representative of the entire electricity supply system in any given country. This yearbook is therefore mainly a document, which has been produced to meet the needs of members of the UCTE.

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Terminology index

The Terminology Index contains all terms used in this Statistical Yearbook. The corresponding explanations are available on the UCTE internet site (www.ucte.org) under "Statistics / General Terms" on the mentioned chapters.

Explanations to the UCTE Power Balance (Table 8a and Table 8b) are also available on the UCTE website under "Statistics/ Terms of Power Balance".

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A decorative graphic consisting of a solid blue horizontal bar with a white border. The bar has a stepped, irregular shape with rounded corners. The text 'MONTHLY VALUES' is centered in white, uppercase, sans-serif font. To the right of the text is a white number '1'.

MONTHLY VALUES 1

OPERATION AND PHYSICAL EXCHANGE BALANCE (PER COUNTRY FOR THE YEARS 1998, 2002, 2003)

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Abbreviations used in tables

Σ	Sum of the 12 monthly values
∅ pond.	Weighted mean value
Max.	Maximal value of the year
III	Third countries
AL	Albania
BY	Belarus
DK	Denmark
GB	Great Britain
MA	Morocco
MD	Republic of Moldavia
S	Sweden
TR	Republic of Turkey
WEST UA	West Ukraine
CZ	Czech Republic until 2000
H	Hungary until 2000
PL	Poland until 2000
SK	Slovak Republic until 2000
RO	Romania until 2002
BG	Bulgaria until 2002

Remark: When summing up the values, rounding deviations may occur.

¹ JIEL = FRY + FYROM (Federal Republic of Yugoslavia and Former Yugoslav Republic of Macedonia)

² WEST UA represents the so-called Burshtyn Island synchronously interconnected with UCTE

The following information for the individual countries is presented on the next pages.

Thermal conventional net production

Thermal nuclear net production

Hydraulic net production

Total net electrical energy production

Total physical import/export balance

Consumption of pumps

National electrical consumption

National electrical consumption as percentage of total values

Energy capability factor (hydro power)

Consumption load at 3:00 a.m. on the 3rd Wednesday

Consumption load at 11:00 a.m. on the 3rd Wednesday

Peak load on the 3rd Wednesday

Power produced in parallel operation on the 3rd Wednesday at 11:00 a.m.

BELGIUM

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1998	34103
			2002	31939
			2003	34399
Thermal nuclear net production	GWh	Σ	1998	43888
			2002	45058
			2003	45072
Hydraulic net production	GWh	Σ	1998	1501
			2002	1488
			2003	1316
Total net electrical energy production	GWh	Σ	1998 ²	79492
			2002 ²	78485
			2003 ²	80787
Total physical import / export balance ¹	GWh	Σ	1998	1387
			2002	7605
			2003	6309
Consumption of pumps	GWh	Σ	1998	1463
			2002	1500
			2003	1421
National electrical consumption	GWh	Σ	1998	79416
			2002	84590
			2003	85675
National electrical consumption as percentage of total values	%Ø pond.		1998	100
			2002	100
			2003	99
Energy capability factor (hydro power)	Ø pond.		1998	-
			2002	-
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	9250
			2002	9980
			2003	10500
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	11303
			2002	12141
			2003	12278
Peak load on the 3 rd Wednesday	MW max.		1998	12151
			2002	13128
			2003	12824
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	11340
			2002	10905
			2003	11195

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

BELGIUM

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
2969	2786	3104	3139	2404	2688	3032	2469	2349	3122	3018	3023
2733	2780	2674	2667	2764	2385	2378	2202	2486	2965	3019	2886
2974	2884	3134	2802	2694	2488	2924	2739	2738	2943	3115	2964
4201	3673	3481	3129	3765	3308	2726	3582	4033	3751	3923	4316
4212	3806	4138	3625	3394	3638	3576	3935	3390	3512	3511	4321
4330	3880	3565	3569	3444	3590	3387	3820	3762	3985	3460	4280
135	94	117	138	127	128	128	106	123	114	137	154
150	132	135	128	125	109	104	116	87	112	146	144
145	132	135	121	130	97	78	102	49	96	102	129
7305	6553	6702	6406	6296	6124	5886	6157	6505	6987	7078	7493
7095	6718	6947	6420	6283	6132	6058	6253	5963	6589	6676	7351
7449	6896	6834	6492	6268	6175	6389	6661	6549	7024	6677	7373
133	143	497	285	122	107	105	-112	7	107	138	-145
869	616	507	529	604	535	459	330	853	926	798	579
816	613	740	579	667	466	159	-96	282	637	865	581
111	94	108	117	128	132	151	133	135	111	118	125
141	122	113	123	126	126	122	135	105	125	131	131
130	118	126	135	137	109	94	130	58	119	127	138
7327	6602	7091	6574	6290	6099	5840	5912	6377	6983	7098	7223
7823	7212	7341	6826	6761	6541	6395	6448	6711	7390	7343	7799
8135	7391	7448	6936	6798	6532	6454	6435	6773	7542	7415	7816
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
99	100	99	99	99	99	99	99	99	99	99	99
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
9250	8835	8298	8483	7432	7514	7100	7246	7784	8249	9164	8673
9759	9371	8738	8775	8024	7883	7470	7857	7849	8238	9033	9980
9868	10500	8980	7985	8095	7893	7758	7832	7943	8586	8828	9597
11296	10878	10632	10878	9861	9969	9396	9850	10474	10767	11303	10947
11773	11652	11170	11215	10585	10646	9812	10902	10694	11173	11433	12141
12278	12265	11220	10676	10912	10730	10063	10507	10744	11330	11543	11873
11920	11231	10924	11235	10246	10366	9750	10233	10741	11100	12151	11805
12435	12087	11397	11391	10905	11049	10329	11234	11071	11479	12473	13128
12824	12413	11321	10902	11137	10954	10294	10727	10965	11455	12359	12780
11340	10735	10115	10499	9742	9761	8863	9983	10725	10523	10962	10958
10796	10905	10493	10178	10148	9610	9391	10793	9295	9792	10120	10832
10700	10414	9679	9717	9427	10035	9915	10283	9866	10322	9831	11195

Physical exchanges in interconnected operation ¹

MM_YY	Export (-)			Import (+)			Balance	
	B → L	B → NL	B → F	L → B	NL → B	F → B	B_UCTE_EXP	B_UCTE_SLD
I.98	178	400	30	0	240	489	608	121
II.98	161	310	60	0	255	409	531	133
III.98	175	204	28	0	280	611	407	891
IV.98	162	261	116	0	346	467	539	274
V.98	158	283	84	0	277	358	525	110
VI.98	154	350	9	0	166	443	513	96
VII.98	152	341	48	0	172	464	541	95
VIII.98	81	270	232	0	224	237	583	-122
IX.98	162	150	208	0	260	257	520	-3
X.98	172	172	112	0	262	290	456	96
XI.98	172	172	150	0	348	272	494	126
XII.98	144	211	368	0	386	178	723	-159
1998	1871	3124	1445	0	3216	4475	6440	1251
I.02	161	152	148	269	642	410	461	860
II.02	168	195	111	208	465	409	474	608
III.02	178	313	66	46	331	679	557	499
IV.02	147	583	70	143	177	1001	800	521
V.02	139	695	13	185	213	1044	847	595
VI.02	136	813	13	217	145	1127	962	527
VII.02	140	837	46	230	123	1120	1023	450
VIII.02	109	989	14	127	60	1246	1112	321
IX.02	133	649	2	140	138	1351	784	845
X.02	150	395	9	161	273	1035	554	915
XI.02	144	596	8	203	181	1154	748	790
XII.02	120	601	26	103	289	925	747	570
2002	1725	6818	526	2032	3037	11501	9069	7501
I.03	135	448	50	176	406	868	633	817
II.03	123	496	63	202	249	844	682	613
III.03	167	462	41	88	301	1022	670	741
IV.03	142	408	63	162	269	763	613	581
V.03	128	443	56	213	239	843	627	668
VI.03	124	742	85	193	167	1059	951	468
VII.03	154	685	52	73	133	845	891	160
VIII.03	100	702	52	33	104	619	854	-98
IX.03	120	508	126	188	198	651	754	283
X.03	139	226	135	218	435	484	500	637
XI.03	148	358	37	232	302	875	543	866
XII.03	122	301	112	181	409	527	535	582
2003	1602	5779	872	1959	3212	9400	8253	6318

¹These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

MM_YY	Export (-)										Import (+)										Balance				
	D→CH	D→CZ	D→DK	D→F	D→L	D→NL	D→A	D→PL	D→S	D_UCTE_EXP	D_III_EXP	CH→D	CZ→D	DK→D	F→D	L→D	NL→D	A→D	PL→D	S→D	D_UCTE_IMP	D_III_IMP	D_UCTE_SLD	D_III_SLD	
I.98	1105	60	63	0	386	1044	727	369	70	3262	562	418	230	347	1520	74	136	267	57	52	2415	686	-847	124	
II.98	932	51	32	0	351	978	692	387	3	2953	473	411	253	250	1122	64	116	219	92	76	1932	671	-1021	198	
III.98	1153	33	37	0	371	1165	676	378	0	3365	448	411	384	381	1522	68	99	244	64	136	2344	965	-1021	517	
IV.98	1056	15	34	0	355	1145	730	293	1	3286	343	324	308	349	1363	75	107	194	23	127	2063	807	-1223	464	
V.98	643	28	9	0	359	1121	454	287	0	2577	324	520	289	323	1368	83	193	240	20	290	2404	922	-173	598	
VI.98	474	11	0	9	365	1226	293	178	0	2367	189	602	323	362	1141	87	307	421	24	269	2558	978	191	789	
VII.98	676	38	1	21	376	1145	335	233	0	2553	272	483	342	434	853	85	200	428	12	142	2049	930	-504	658	
VIII.98	871	41	0	111	362	1121	438	268	0	2903	309	490	381	435	442	90	74	398	5	301	1494	1122	-1409	813	
IX.98	749	5	1	155	389	1186	404	174	0	2883	180	415	668	570	786	92	62	410	65	262	1765	1565	-1118	1385	
X.98	756	5	0	30	397	1223	387	191	0	2793	196	417	589	557	834	81	67	426	22	252	1825	1420	-968	1224	
XI.98	775	10	1	45	359	1140	436	146	18	2755	175	408	547	505	910	55	48	400	46	165	1821	1263	-934	1088	
XII.98	1124	39	32	33	380	1127	593	115	1	3257	187	360	488	502	837	69	84	307	73	148	1657	1211	-1600	1024	
1998	10314	336	210	404	4450	13621	6165	3019	93	34954	3658	5259	4802	5015	12698	923	1493	3954	503	2220	24327	12540	-10627	8882	
I.02	2016	104	140	13	430	1539	1275	133	72	5510	212	133	728	723	1371	73	18	225	49	149	2597	872	-2913	660	
II.02	1585	9	167	0	373	1552	1003	94	90	4616	257	104	929	442	1341	65	0	291	48	127	2778	569	-1838	312	
III.02	1188	0	191	0	394	1403	773	184	50	3942	241	192	926	556	1517	64	3	332	29	65	3063	621	-879	380	
IV.02	1055	0	90	0	379	805	810	185	0	3234	90	270	731	566	1713	63	25	267	23	0	3092	566	-142	476	
V.02	592	1	143	0	394	1088	539	162	58	2776	201	497	687	432	1919	76	77	356	27	109	3639	541	863	340	
VI.02	540	1	147	0	400	948	503	135	54	2527	201	416	582	417	1755	82	130	376	67	105	3408	522	881	321	
VII.02	760	75	142	0	412	861	556	320	78	2984	220	378	522	539	1857	83	79	355	4	124	3278	663	294	443	
VIII.02	497	4	283	1	397	952	476	137	127	2464	410	423	784	366	1734	86	368	421	70	69	3886	435	1422	25	
IX.02	692	0	180	4	390	1185	689	116	104	3076	284	257	784	366	1734	86	368	421	70	69	3886	435	1422	25	
X.02	1176	0	347	27	423	1271	682	140	199	3719	546	257	1133	270	789	76	134	401	53	21	2843	291	-876	-255	
XI.02	723	0	402	1	404	1210	411	94	263	2843	665	361	1417	79	1298	69	257	526	78	1	4006	80	1163	-585	
XII.02	1035	0	633	1	419	1223	741	172	287	3591	920	358	1086	101	1927	77	102	426	58	0	4034	101	443	-819	
2002	11859	194	2865	47	4815	14037	8458	1872	1382	41282	4247	3836	10557	4966	18818	883	1450	4270	605	832	40419	5798	-863	1551	
I.03	1132	1	385	4	433	1453	832	236	285	4091	670	273	1231	102	1660	71	91	431	34	5	3791	107	-300	-563	
II.03	1110	0	486	0	388	899	706	169	228	3272	714	252	1008	181	1824	55	101	297	43	2	3580	183	308	-531	
III.03	1426	2	577	0	395	1178	1047	196	251	4244	828	283	1011	179	1974	52	13	265	47	1	3645	180	-599	-648	
IV.03	1322	4	489	2	388	1235	934	286	223	4171	712	324	971	251	1620	59	20	191	17	17	3202	268	-969	-444	
V.03	456	0	687	0	396	1308	466	179	233	2805	920	576	1148	224	1844	65	16	391	16	25	4056	249	1251	-671	
VI.03	787	0	437	1	395	1056	515	238	150	2992	587	247	880	412	1812	67	63	383	31	93	3483	505	491	-82	
VII.03	758	3	387	86	421	698	560	227	137	2753	524	463	982	518	1722	77	174	352	31	107	3801	625	1048	101	
VIII.03	1045	20	523	22	401	856	833	246	184	3423	707	191	867	352	1684	78	66	223	8	68	3117	420	-306	-287	
IX.03	1086	0	357	4	408	1048	980	207	88	3733	445	178	1014	316	1396	70	32	147	7	19	2844	335	-889	-110	
X.03	1280	1	358	32	445	1836	914	189	140	4697	498	107	1227	525	903	79	4	237	32	71	2589	596	-2108	98	
XI.03	1394	0	401	0	444	1652	870	191	165	4651	566	109	107	1312	457	1877	81	3	221	16	57	3619	514	-932	-52
XII.03	1552	21	282	1	442	1819	1249	397	157	5481	439	125	1143	482	1911	80	18	195	3	92	3475	574	-2006	135	
2003	13348	52	5369	152	4956	15038	9906	2761	2241	46213	7610	3128	12794	3999	20227	834	601	3333	285	557	41202	4556	-5011	-3054	

¹These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

GERMANY

Monthly values / Operation

			I-XII	
			1998	
Thermal conventional net production	GWh	Σ	1998	312160
			2002	325075
			2003	348639
Thermal nuclear net production	GWh	Σ	1998	151823
			2002	154968
			2003	155416
Hydraulic net production	GWh	Σ	1998	18833
			2002	23846
			2003	20388
Total net electrical energy production	GWh	Σ	1998 ²	482816
			2002 ²	503889
			2003 ²	524443
Total physical import / export balance ¹	GWh	Σ	1998	-637
			2002	688
			2003	-8066
Consumption of pumps	GWh	Σ	1998	5130
			2002	5955
			2003	7834
National electrical consumption	GWh	Σ	1998	477049
			2002	498622
			2003	508543
National electrical consumption as percentage of total values	%Ø pond.		1998	92
			2002	94
			2003	94
Energy capability factor (hydro power)	Ø pond.		1998	0,96
			2002	1,24
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	52326
			2002	54000
			2003	57000
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	70732
			2002	73900
			2003	71300
Peak load on the 3 rd Wednesday	MW max.		1998	71655
			2002	75800
			2003	73500
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	80400
			2002	81000
			2003	78400

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

GERMANY

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
28216	26439	28981	24602	23530	23529	23780	23352	24675	26711	28749	29596
32957	27933	30032	27248	24952	22558	23524	23468	25835	28076	28485	30007
33893	31433	30751	28787	26781	25060	26122	26119	27449	30210	30354	31680
14996	13138	13092	13204	11747	10080	11671	12032	11826	13147	13149	13741
15243	13213	13336	12010	12315	12462	12629	11206	11383	13833	13321	14017
14028	12732	13871	12608	11535	11832	11563	12397	12998	14025	13819	14008
1547	1124	1610	1666	1537	1547	1592	1410	1656	1692	1750	1702
1926	1813	2114	2131	2315	1871	1818	2108	1887	2065	1985	1813
2301	1753	1940	1748	2032	1652	1580	1495	1349	1800	1345	1393
44759	40701	43683	39472	36814	35156	37043	36794	38157	41550	43648	45039
50126	42959	45482	41389	39582	36891	37971	36782	39105	43974	43791	45837
50222	45918	46562	43143	40348	38544	39265	40011	41796	46035	45518	47081
-698	-589	-451	-736	500	1025	382	-295	370	298	88	-531
-2253	-1526	-499	334	1203	1202	737	1447	972	-1131	578	-376
-863	-223	-1247	-1414	580	409	1149	-593	-999	-2010	-984	-1871
448	406	410	423	490	406	405	489	432	425	428	368
534	482	476	479	491	485	406	456	545	516	518	567
591	545	645	580	597	649	783	749	683	670	636	706
43613	39706	42822	38313	36824	35775	37020	36010	38095	41423	43308	44140
47339	40951	44507	41244	40294	37608	38302	37773	39532	42327	43851	44894
48768	45150	44670	41149	40331	38304	39631	38669	40114	43355	43898	44504
92	92	92	92	92	92	92	92	92	92	92	92
94	94	94	94	94	94	94	94	94	94	94	94
94	94	94	94	94	94	94	94	94	94	94	94
1,10	0,73	0,99	0,92	0,72	0,78	0,85	0,72	1,10	1,25	1,38	1,27
1,39	1,31	1,35	1,21	1,19	0,95	1,01	1,23	1,23	1,53	1,54	1,23
-	-	-	-	-	-	-	-	-	-	-	-
51567	48754	46925	45359	37567	37326	36321	37818	40995	44974	52326	47894
49900	53600	50500	45200	40300	40700	40000	38000	40800	47000	54000	52900
49900	57000	50300	42400	41200	42700	44800	41300	42600	46700	44800	51700
70732	67843	66444	65401	60944	62906	60963	61477	66141	67993	69737	68177
69500	70500	68800	69300	64900	66500	61900	62100	64900	68800	72300	73900
70900	71300	68600	66900	68200	66200	66400	64200	67500	68100	70100	70200
70732	68371	67220	66354	62240	64002	62066	62819	66679	68794	71655	70186
71100	72500	71100	69800	66000	67500	63300	62300	65700	68900	73900	75800
72700	71900	69800	66900	69900	67600	67300	65700	69000	69300	72600	73500
80400	76961	75400	73000	66500	68700	67000	67700	72100	75300	78500	76200
76400	77600	75500	76200	71400	74000	68100	63900	69900	73800	80100	81000
77900	78400	75400	73500	74900	72700	73000	70500	74200	74800	77000	77100

SPAIN

Monthly values / Operation

			I-XII	
			1998	
Thermal conventional net production	GWh	Σ	1998	81879
			2002	126585
			2003	125239
Thermal nuclear net production	GWh	Σ	1998	56572
			2002	60288
			2003	59220
Hydraulic net production	GWh	Σ	1998	33697
			2002	25966
			2003	43092
Total net electrical energy production	GWh	Σ	1998 ²	172148
			2002 ²	212839
			2003 ²	227551
Total physical import / export balance ¹	GWh	Σ	1998	3404
			2002	5329
			2003	1263
Consumption of pumps	GWh	Σ	1998	2588
			2002	6957
			2003	4678
National electrical consumption	GWh	Σ	1998	172964
			2002	211211
			2003	224136
National electrical consumption as percentage of total values	%Ø pond.		1998	94
			2002	94
			2003	94
Energy capability factor (hydro power)	Ø pond.		1998	0,91
			2002	-
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	18307
			2002	22960
			2003	24837
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	25825
			2002	31636
			2003	34991
Peak load on the 3 rd Wednesday	MW max.		1998	27758
			2002	33771
			2003	37163
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	26029
			2002	30809
			2003	34452

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

SPAIN

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
4590	4787	7098	6007	5059	5775	7378	6409	8021	8129	8678	9948
12132	10530	10934	10332	10324	10364	11261	10115	11081	10846	10111	8555
9131	9417	9038	8452	9103	11719	12457	11860	12126	12063	10227	9646
4850	4865	4461	4237	4652	4934	5287	5285	4524	4228	4440	4809
5520	4775	4207	4214	4779	5056	5461	5342	4585	5398	5372	5579
5509	4936	4672	4667	4789	4456	5408	5310	4126	4544	5301	5502
5667	3836	2514	3296	3832	3257	2537	2116	1839	1913	1493	1397
1799	1537	2223	2191	2370	2382	1855	1446	1450	1612	2383	4718
6055	4669	4846	4058	3893	2646	2268	1792	1975	2264	3430	5196
15107	13488	14073	13540	13543	13966	15202	13810	14384	14270	14611	16154
19451	16842	17364	16737	17473	17802	18577	16903	17116	17856	17866	18852
20695	19022	18556	17177	17785	18821	20133	18962	18227	18871	18958	20344
340	346	405	389	355	245	285	320	-25	206	284	254
532	649	722	705	259	187	576	236	428	298	491	246
26	51	247	-37	134	409	237	124	160	55	-24	-119
277	135	111	215	182	115	203	320	193	172	214	451
653	506	466	443	560	629	700	572	598	576	570	684
587	380	369	219	266	416	420	472	437	390	322	400
15170	13699	14367	13714	13716	14096	15284	13810	14166	14304	14681	15957
19330	16985	17620	16999	17172	17360	18453	16567	16946	17578	17787	18414
20134	18693	18434	16921	17653	18814	19950	18614	17950	18536	18612	19825
94	94	94	94	94	94	94	94	94	94	94	94
94	94	94	94	94	94	94	94	94	94	94	94
94	94	94	94	94	94	94	94	94	94	94	94
1,27	0,90	0,52	1,29	1,31	1,16	0,64	0,92	1,31	0,94	0,37	0,33
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
17087	16683	16385	17065	15753	16320	16964	15626	16724	15969	17165	18307
22960	22558	19460	20912	19329	21372	20565	19272	19474	19062	21369	22249
24837	24753	21255	20398	20271	21596	21766	20320	20799	20090	22241	23436
23930	23032	22449	23716	22197	22427	23441	20847	22099	22700	23473	25825
31636	30914	27998	27840	25667	29250	28389	25961	28394	27644	29554	30846
34507	34991	26176	27135	28716	31611	30495	27636	29410	28907	30631	32377
25542	24400	22817	24363	22495	23223	24480	21654	23387	24237	25316	27758
33771	31905	28838	29301	26710	30888	29869	27396	29067	29878	32251	33187
37163	37048	28924	27597	29915	33459	31918	30179	30866	31016	33106	35648
23803	22361	22251	23836	21771	22387	23475	20971	23758	22522	23196	26029
30661	30033	26729	26554	25667	28498	27590	25109	27790	26938	28807	30809
33478	34452	26339	28098	29625	31741	30857	27556	29396	28271	31035	33378

Physical exchanges in interconnected operation ¹

MM_YY	Export (-)			Import (+)			Balance			
	F→F	F→P	F→MA	F→E	P→E	MA→E	E_UCTE_IMP	E_III_IMP		
	E_III_EXP			E_III_SLD			E_UCTE_SLD			
I.98	88	275	0	404	279	0	683	0	320	0
II.98	64	212	0	406	230	0	636	0	360	0
III.98	62	242	0	474	251	0	725	0	421	0
IV.98	45	265	0	448	266	0	714	0	404	0
V.98	47	343	15	402	348	1	750	1	360	-14
VI.98	60	277	76	387	284	0	671	0	334	-76
VII.98	58	365	67	422	381	0	803	0	380	-67
VIII.98	52	301	65	448	313	0	761	0	408	-65
IX.98	72	425	172	403	278	0	681	0	184	-172
X.98	71	359	165	455	366	0	821	0	391	-165
XI.98	74	372	81	444	379	0	823	0	377	-81
XII.98	64	453	60	494	344	0	838	0	321	-60
1998	757	3889	701	5187	3719	1	8906	1	4260	-700
I.02	92	349	18	711	328	12	1039	12	598	-6
II.02	38	352	75	827	338	0	1165	0	775	-75
III.02	33	356	135	903	388	0	1291	0	902	-135
IV.02	17	362	147	855	410	0	1265	0	886	-147
V.02	18	462	133	589	292	0	881	0	401	-133
VI.02	15	366	132	424	293	0	717	0	336	-132
VII.02	1	399	71	746	314	0	1060	0	660	-71
VIII.02	1	500	165	752	171	0	923	0	422	-165
IX.02	0	440	83	745	218	0	963	0	523	-83
X.02	2	484	141	779	191	0	970	0	484	-141
XI.02	0	525	113	940	236	0	1176	0	651	-113
XII.02	9	613	116	791	250	0	1041	0	419	-116
2002	226	5208	1329	9062	3429	12	12491	12	7057	-1317
I.03	132	443	148	443	362	0	805	0	230	-148
II.03	61	388	100	356	297	0	653	0	204	-100
III.03	21	383	127	544	279	0	823	0	419	-127
IV.03	43	418	184	393	250	0	643	0	182	-184
V.03	24	586	212	610	317	0	968	0	358	-212
VI.03	22	470	98	703	308	0	1011	0	519	-98
VII.03	41	590	73	680	274	0	954	0	323	-73
VIII.03	14	565	96	683	151	0	834	0	255	-96
IX.03	20	544	124	660	203	0	863	0	299	-124
X.03	60	523	81	582	171	0	753	0	170	-81
XI.03	62	405	112	378	214	0	592	0	125	-112
XII.03	102	455	102	316	281	0	597	0	40	-102
2003	602	5770	1457	6389	3107	0	9496	0	3124	-1457

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

FRANCE

Physical exchanges in interconnected operation ¹

GWh

MM_YY	Export (c)							Import (+)							Balance			
	F → B	F → CH	F → D	F → E	F → GB	F → I	F_UCTE_EXP	F_III_EXP	B → F	CH → F	D → F	E → F	GB → F	I → F	F_UCTE_IMP	F_III_IMP	F_UCTE_SLD	F_III_SLD
I.98	489	1098	1520	404	1372	1686	5197	1372	30	51	0	88	0	32	201	0	-4996	-1372
II.98	409	987	1122	406	1328	1612	4536	1328	60	60	0	64	0	34	218	0	-4318	-1328
III.98	611	1097	1522	474	1474	1654	5358	1474	28	50	0	62	0	34	174	0	-5184	-1474
IV.98	467	818	1363	448	1357	1268	4364	1357	116	36	0	45	0	23	220	0	-4144	-1357
V.98	358	810	1368	402	1418	1522	4460	1418	84	12	0	47	0	37	180	0	-4280	-1418
VI.98	443	616	1141	387	1152	1452	4039	1152	9	11	9	60	0	41	130	0	-3909	-1152
VII.98	464	513	853	422	235	1218	3470	235	48	163	21	58	14	40	330	14	-3140	-221
VIII.98	237	415	442	448	23	653	2195	23	232	240	111	52	18	92	727	18	-1468	-5
IX.98	257	536	786	403	707	1193	3175	707	208	142	155	72	0	14	591	0	-2584	-707
X.98	290	804	834	455	1246	1502	3885	1246	112	36	30	71	0	25	274	0	-3611	-1246
XI.98	272	695	910	444	1194	1445	3766	1194	150	83	45	74	0	36	388	0	-3378	-1194
XII.98	178	783	837	494	1092	1381	3673	1092	368	123	33	64	0	45	633	0	-3040	-1092
1998	4475	9172	12698	5187	12598	16586	48118	12598	1445	1007	404	757	32	453	4066	32	-44052	-12566
I.02	410	1121	1371	711	586	1544	5157	586	148	234	13	92	55	56	543	55	-4614	-531
II.02	409	1134	1341	827	658	1452	5163	658	111	103	0	38	75	36	288	75	-4875	-583
III.02	679	1229	1517	903	864	1860	6188	864	66	21	0	33	23	36	156	23	-6032	-841
IV.02	1001	1052	1713	855	733	1746	6367	733	70	20	0	17	40	34	141	40	-6226	-693
V.02	1044	775	1919	589	1317	1615	5942	1317	13	45	0	15	15	42	118	2	-5824	-1315
VI.02	1127	594	1755	424	799	1529	5429	799	13	46	0	1	15	45	119	15	-5310	-784
VII.02	1120	625	1857	746	309	1402	5750	309	46	237	0	1	262	36	320	262	-5430	-47
VIII.02	1246	618	1734	752	429	1014	5364	429	14	116	1	1	61	60	192	61	-5172	-368
IX.02	1351	769	1597	745	464	1541	6003	464	2	106	4	0	146	23	135	146	-5868	-318
X.02	1035	1019	789	779	826	1779	5401	826	9	44	27	2	57	26	108	57	-5293	-769
XI.02	1154	897	1298	940	1358	1796	6085	1358	8	31	1	0	0	32	72	0	-6013	-1358
XII.02	925	1114	1927	791	1167	1747	6504	1167	26	91	1	9	5	37	164	5	-6340	-1162
2002	11501	10947	18818	9062	9510	19025	69353	9510	526	1094	47	226	741	463	2356	741	-66997	-8769
I.03	868	1154	1660	443	650	1749	5874	650	50	118	4	132	32	37	341	32	-5533	-618
II.03	844	1167	1824	356	246	1701	5892	246	63	120	0	61	285	33	277	285	-5615	39
III.03	1022	1402	1974	544	371	1888	6830	371	41	46	0	21	235	36	144	235	-6686	-136
IV.03	763	1065	1620	393	362	1666	5507	362	63	71	2	43	243	35	214	243	-5293	-119
V.03	843	796	1844	651	561	1600	5734	561	56	49	0	24	194	33	162	194	-5572	-367
VI.03	1059	605	1812	703	354	1327	5506	354	85	233	1	22	520	49	390	520	-5116	166
VII.03	845	631	1722	680	292	1334	5212	292	52	187	86	41	247	55	421	247	-4791	-465
VIII.03	619	598	1684	683	411	872	4456	411	52	249	22	14	112	60	397	112	-4059	-299
IX.03	651	776	1396	660	47	1601	5084	47	126	91	4	20	587	22	263	587	-4821	540
X.03	484	848	903	582	296	1373	4190	296	135	156	32	60	308	16	399	308	-3791	12
XI.03	875	1293	1877	378	688	1425	5848	688	37	51	0	62	178	28	178	178	-5670	-510
XII.03	527	1357	1911	316	1023	1489	5600	1023	112	92	1	102	34	30	337	34	-5263	-989
2003	9400	11692	20227	6389	5301	18025	65733	5301	872	1463	152	602	2975	434	3523	2975	-62210	-2326

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

FRANCE

Monthly values / Operation

			I-XII	
Thermal conventional net production	GWh	Σ	1998	47391
			2002	40850
			2003	44389
Thermal nuclear net production	GWh	Σ	1998	368500
			2002	415511
			2003	419954
Hydraulic net production	GWh	Σ	1998	61882
			2002	60244
			2003	60357
Total net electrical energy production	GWh	Σ	1998	477773
			2002	516605
			2003	524700
Total physical import / export balance ¹	GWh	Σ	1998	-57943
			2002	-76904
			2003	-66558
Consumption of pumps	GWh	Σ	1998	5565
			2002	7352
			2003	7328
National electrical consumption	GWh	Σ	1998	414265
			2002	432349
			2003	450814
National electrical consumption as percentage of total values	%Ø pond.		1998	99
			2002	97
			2003	97
Energy capability factor (hydro power)	Ø pond.		1998	0,91
			2002	-
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	52793
			2002	56625
			2003	66137
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	62469
			2002	69552
			2003	76249
Peak load on the 3 rd Wednesday	MW max.		1998	66226
			2002	72873
			2003	76656
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	72028
			2002	80886
			2003	83343

¹ Terminology 2.15, see also note Physical energy exchange in interconnected operation

Monthly values / Operation

FRANCE

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
4218	3967	4725	4751	2832	2736	3669	2688	2970	3058	5209	6568
6406	5037	4367	3377	2394	2000	2193	1494	2716	3453	3479	3934
5399	5140	4110	3541	2199	2248	2733	2693	3152	4042	4609	4523
36954	33565	34315	29984	28368	27214	27803	24470	27450	31551	32598	34228
39942	34276	35443	35453	33484	31037	32856	30317	32076	35056	36161	39410
40335	36453	35837	34473	32460	30997	33136	29990	31458	35464	37677	41674
6460	4748	4784	5808	5977	5857	4149	3220	3882	5829	5989	5179
4024	3845	5261	3880	5558	5762	4468	4427	4443	5229	6233	7114
7901	6877	5944	4573	5356	5070	3801	3587	3303	4576	4194	5175
47632	42280	43824	40543	37177	35807	35621	30378	34302	40438	43796	45975
50372	43158	45071	42710	41436	38799	39517	36238	39235	43738	45873	50458
53635	48470	45891	42587	40015	38315	39670	36270	37913	44082	46480	51372
-6548	-5994	-6794	-5576	-5766	-5149	-3444	-1514	-3191	-4945	-4744	-4278
-5244	-5527	-6961	-7027	-7241	-6177	-5595	-5657	-6272	-6160	-7488	-7555
-6377	-5777	-6977	-5553	-6099	-5122	-5018	-4523	-4437	-3958	-6287	-6430
497	321	430	430	457	459	546	391	460	615	493	466
682	648	601	625	661	557	594	515	539	699	636	595
502	449	615	644	679	501	554	600	611	653	808	712
40587	35965	36600	34537	30954	30199	31631	28473	30651	34878	38559	41231
44446	36983	37509	35058	33534	32065	33328	30066	32424	36879	37749	42308
46756	42244	38299	36390	33237	32692	34098	31147	32865	39471	39385	44230
99	99	99	99	99	99	99	99	99	99	99	99
97	97	97	97	97	97	97	97	97	97	97	97
97	97	97	97	97	97	97	97	97	97	97	97
1,23	0,63	0,71	1,06	1,01	0,92	0,68	0,74	1,03	1,17	1,04	0,73
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
51851	47927	45648	48173	36903	37732	34706	33867	38203	43282	52793	48728
56625	54694	43430	49014	41672	40127	40225	36482	39201	42789	48798	53778
61583	66137	50004	44728	41854	41077	41375	36352	39296	43211	49486	59073
62469	57010	55383	60704	48866	49927	50078	44043	51265	56386	59425	60544
69552	67101	56339	59323	53993	54224	54104	48950	53368	57882	62617	68679
74468	76249	59818	56159	55887	55362	55640	47608	53314	58320	63061	70944
66226	58851	56465	60789	49311	50333	50664	44705	51463	57033	64172	63633
72024	68388	57026	60291	54183	54814	54446	49766	53802	57949	66027	72873
76097	76656	61544	56582	55887	55898	56269	48419	54126	58873	66686	74070
72028	65738	64935	67759	56942	56646	54437	46345	56706	63460	66398	67971
77771	74278	67389	70462	65545	63649	62962	57347	62520	66845	74409	80886
81805	83343	70472	66044	63936	63208	60038	53714	60637	65217	73234	79264

GREECE

Monthly values / Operation

			I-XII	
			1998	
Thermal conventional net production	GWh	Σ	1998	35000
			2002	41641
			2003	43291
Thermal nuclear net production	GWh	Σ	1998	0
			2002	0
			2003	0
Hydraulic net production	GWh	Σ	1998	3849
			2002	3382
			2003	5206
Total net electrical energy production	GWh	Σ	1998	38849
			2002 ²	45023
			2003 ²	48497
Total physical import / export balance ¹	GWh	Σ	1998	1618
			2002	2914
			2003	2150
Consumption of pumps	GWh	Σ	1998	208
			2002	945
			2003	813
National electrical consumption	GWh	Σ	1998	40259
			2002	46992
			2003	49834
National electrical consumption as percentage of total values	%Ø pond.		1998	95
			2002	91
			2003	93
Energy capability factor (hydro power)	Ø pond.		1998	0,89
			2002	0,72
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	4528
			2002	6513
			2003	5356
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	6758
			2002	8582
			2003	8258
Peak load on the 3 rd Wednesday	MW max.		1998	7372
			2002	8786
			2003	8414
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	7145
			2002	7657
			2003	7718

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

GREECE

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
2862	2447	2906	2649	2700	2916	3371	3286	2877	2980	2869	3137
3730	3171	3392	3224	3189	3619	4123	3695	3246	3283	3347	3622
3227	3219	3514	3354	3538	3755	4156	3976	3598	3535	3499	3920
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
333	567	279	142	171	249	423	364	159	169	393	600
350	190	175	212	197	283	367	223	270	290	300	525
715	715	472	304	333	356	543	416	291	318	343	400
3195	3014	3185	2791	2871	3165	3794	3650	3036	3149	3262	3737
4080	3361	3567	3436	3386	3902	4490	3918	3516	3573	3647	4147
3942	3934	3986	3658	3871	4111	4699	4392	3889	3853	3842	4320
163	0	157	204	195	239	315	203	175	55	1	-89
196	233	267	255	279	329	404	214	187	201	221	128
169	153	190	140	116	247	393	229	116	104	129	164
13	1	28	23	20	23	9	11	26	28	25	1
94	94	94	91	91	80	77	54	81	90	85	14
7	25	53	76	81	81	77	77	81	83	82	90
3345	3013	3314	2972	3046	3381	4100	3842	3185	3176	3238	3647
4182	3500	3740	3600	3574	4151	4817	4078	3622	3684	3783	4261
4104	4062	4123	3722	3906	4277	5015	4544	3924	3874	3889	4394
95	95	95	95	95	95	95	95	95	95	95	95
91	91	91	91	91	91	91	91	91	91	91	91
93	93	93	93	93	93	93	93	93	93	93	93
0,60	1,29	0,38	0,53	0,97	0,69	0,46	0,46	0,94	0,79	1,54	1,35
0,63	0,31	0,48	0,90	0,50	0,39	0,64	0,84	2,53	0,87	0,64	1,27
-	-	-	-	-	-	-	-	-	-	-	-
3768	3566	4043	3217	3052	3516	4528	3996	3319	3199	3601	4043
5152	4580	4543	4268	4244	5088	6513	4452	4286	4185	4451	4504
4539	4894	4490	3872	4062	4916	5333	5356	3828	3852	4152	4496
5706	5297	5674	5100	4887	5685	6758	5894	5292	5188	5285	5975
7050	6311	5992	6003	6096	7593	8582	6471	6089	5972	5999	6882
6602	7642	6645	6024	6701	7705	8258	7870	6247	6269	6215	7550
6204	5969	6009	5552	5574	6705	7372	6975	6128	5610	6078	6720
7102	6624	6411	6225	6658	7679	8786	6687	6610	6428	6915	7480
7100	7668	7147	6428	6812	7868	8414	8145	6806	6627	6832	8084
6052	5609	5932	5311	5181	6076	7145	6244	5637	5491	5538	6248
6762	5817	5571	5569	5568	7077	7657	6009	5617	5584	5621	6610
6264	7266	6160	5658	6490	7227	7718	7263	6173	5982	6048	7046

Physical exchanges in interconnected operation ¹

MM_YY	Export (-)				Import (+)				Balance				
	GR→AL	GR→BG	GR→FYROM	GR_UCTE_EXP	GR_III_EXP	AL→GR	BG→GR	I→GR	FYROM→GR	GR_UCTE_IMP	GR_III_IMP	GR_UCTE_SLD	GR_III_SLD
I.98	74	0	0	0	74	1	135	0	102	102	136	102	62
II.98	87	7	0	1	94	1	33	0	61	61	34	60	-60
III.98	92	1	0	0	93	1	133	0	116	116	134	116	41
IV.98	65	4	0	1	69	1	122	0	151	151	123	150	54
V.98	43	1	0	1	44	1	117	0	122	122	118	121	74
VI.98	53	0	0	0	53	2	144	0	146	146	146	146	93
VII.98	42	1	0	0	43	2	183	0	173	173	185	173	142
VIII.98	75	0	0	0	75	1	59	0	218	218	60	218	-15
IX.98	52	4	0	0	56	0	50	0	180	180	51	180	-5
X.98	75	5	0	1	80	0	59	0	77	77	59	76	-21
XI.98	66	4	0	1	70	0	41	0	32	32	41	31	-29
XII.98	91	24	0	18	115	0	10	0	34	34	10	16	-105
1998	815	51	0	23	866	11	1086	0	1412	1412	1097	1389	231
I.02	128	0	0	4	128	0	269	0	59	59	269	55	141
II.02	120	0	0	7	120	0	312	0	48	48	312	41	192
III.02	113	0	0	1	113	0	273	0	108	108	273	107	160
IV.02	74	0	1	2	74	1	160	18	152	170	161	168	87
V.02	109	0	6	8	109	0	257	76	63	139	257	131	148
VI.02	123	0	0	3	123	0	262	95	98	193	262	190	139
VII.02	97	0	1	3	97	0	281	143	80	223	281	220	184
VIII.02	106	0	56	2	106	0	285	17	77	94	285	35	179
IX.02	98	0	102	15	98	3	343	3	53	56	346	-61	248
X.02	72	0	129	5	134	3	304	0	100	100	307	-34	235
XI.02	52	0	99	2	101	2	303	0	69	69	305	-32	253
XII.02	71	0	101	5	106	0	263	0	42	42	263	-64	192
2002	1163	0	495	50	1163	9	3312	352	949	1301	3321	756	2158
I.03	33	0	0	9	33	15	157	0	39	196	15	187	-18
II.03	19	0	3	8	19	13	129	0	41	170	13	159	-6
III.03	56	0	56	0	56	0	204	0	97	301	1	245	-55
IV.03	54	0	107	6	113	1	166	0	140	306	1	193	-53
V.03	70	0	223	0	223	0	281	0	128	409	0	186	-70
VI.03	73	0	73	5	78	0	289	0	109	398	0	320	-73
VII.03	72	0	14	4	72	0	399	10	75	484	0	466	-72
VIII.03	109	0	127	2	109	0	389	3	77	469	0	340	-109
IX.03	88	0	192	11	203	0	358	0	50	408	0	205	-88
X.03	60	0	74	43	117	11	233	12	26	271	11	154	-49
XI.03	66	1	139	27	167	8	315	3	37	355	8	188	-58
XII.03	76	0	125	38	163	2	382	0	19	401	2	238	-74
2003	776	1	1133	153	1287	51	3302	28	838	4168	51	2881	-725

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation ¹

MM_YY	Export (-)						Import (+)						Balance		
	I→A	I→CH	I→F	I→GR	I→SLO	I_UCTE_EXP	A→I	CH→I	F→I	GR→I	SLO→I	I_UCTE_IMP	I_III_IMP	I_UCTE_SLD	I_III_SLD
I.98	0	0	32	0	65	97	133	1677	1686	0	64	3560	0	3463	0
II.98	0	0	34	0	85	119	103	1476	1612	0	24	3215	0	3096	0
III.98	0	0	34	0	99	133	123	1932	1654	0	31	3740	0	3607	0
IV.98	0	0	23	0	54	77	139	1944	1268	0	75	3426	0	3349	0
V.98	0	7	37	0	80	124	136	2020	1522	0	45	3723	0	3599	0
VI.98	0	1	41	0	12	54	146	1843	1452	0	82	3523	0	3469	0
VII.98	0	1	40	0	11	52	166	2046	1218	0	184	3614	0	3562	0
VIII.98	0	1	92	0	8	101	115	1401	653	0	148	2317	0	2216	0
IX.98	0	0	14	0	5	19	130	1950	1193	0	375	3648	0	3629	0
X.98	0	0	25	0	6	31	142	1672	1502	0	368	3684	0	3653	0
XI.98	0	0	36	0	2	38	147	1652	1445	0	321	3565	0	3527	0
XII.98	0	0	45	0	8	53	152	1854	1381	0	224	3611	0	3558	0
1998	0	10	453	0	435	898	1632	21467	16586	0	1941	41626	0	40728	0
I.02	0	0	56	0	4	60	167	2336	1544	0	467	4514	0	4454	0
II.02	0	1	36	0	2	39	138	2128	1452	0	467	4185	0	4146	0
III.02	0	2	36	0	0	38	154	2142	1860	0	493	4649	0	4611	0
IV.02	0	0	34	0	0	52	159	2127	1746	1	381	4414	0	4362	0
V.02	0	1	42	76	38	157	162	2198	1615	6	219	4200	0	4043	0
VI.02	0	1	45	95	26	167	147	2149	1529	0	252	4077	0	3910	0
VII.02	0	2	36	143	8	189	159	2382	1402	1	265	4209	0	4020	0
VIII.02	0	1	60	17	2	80	70	1622	1014	56	265	3027	0	2947	0
IX.02	0	0	23	3	0	26	152	1975	1541	102	377	4147	0	4121	0
X.02	0	2	26	0	0	28	171	2082	1779	129	710	4871	0	4843	0
XI.02	0	10	32	0	0	42	160	1803	1796	99	706	4564	0	4522	0
XII.02	0	2	37	0	0	39	149	2094	1747	101	629	4720	0	4681	0
2002	0	22	463	352	80	917	1788	25038	19025	495	5231	51577	0	50660	0
I.03	0	0	37	0	0	37	150	2273	1749	0	564	4736	0	4699	0
II.03	0	1	33	0	0	34	132	2111	1701	3	438	4385	0	4351	0
III.03	0	9	36	0	1	46	141	2328	1888	56	468	4881	0	4835	0
IV.03	0	0	35	0	0	35	145	2311	1666	107	494	4723	0	4688	0
V.03	0	1	33	0	0	34	151	2046	1600	223	381	4401	0	4367	0
VI.03	0	0	49	0	0	49	137	2209	1327	73	402	4148	0	4099	0
VII.03	0	2	55	10	0	67	138	2467	1334	14	324	4277	0	4210	0
VIII.03	0	1	60	3	33	97	74	1951	872	127	94	3118	0	3021	0
IX.03	0	0	22	0	9	31	157	2217	1601	192	178	4345	0	4314	0
X.03	0	0	16	12	0	28	157	2202	1373	74	438	4244	0	4216	0
XI.03	0	0	28	3	0	31	138	1909	1425	139	369	3980	0	3949	0
XII.03	0	0	30	0	0	30	144	1915	1489	125	398	4071	0	4041	0
2003	0	14	434	28	43	519	1664	25939	18025	1133	4548	51309	0	50790	0

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

ITALY

Monthly values / Operation

			I-XII	
Thermal conventional net production	GWh	Σ	1998	200037
			2002	222979
			2003	236532
Thermal nuclear net production	GWh	Σ	1998	0
			2002	0
			2003	0
Hydraulic net production	GWh	Σ	1998	46976
			2002	47291
			2003	43651
Total net electrical energy production	GWh	Σ	1998	247013
			2002	270270
			2003	280183
Total physical import / export balance ¹	GWh	Σ	1998	40726
			2002	50660
			2003	50969
Consumption of pumps	GWh	Σ	1998	8338
			2002	10569
			2003	10493
National electrical consumption	GWh	Σ	1998	279401
			2002	310361
			2003	320659
National electrical consumption as percentage of total values	%Ø pond.		1998	100
			2002	100
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	0,94
			2002	0,90
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	25213
			2002	31343
			2003	32993
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	42384
			2002	50551
			2003	51820
Peak load on the 3 rd Wednesday	MW max.		1998	45115
			2002	50910
			2003	51820
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	39775
			2002	43939
			2003	45148

¹ Terminology 2.15, see also note Physical energy exchange in interconnected operation

Monthly values / Operation

ITALY

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
17885	17140	18416	15866	14826	15439	17410	14745	16565	16406	17560	17779
21303	19048	19490	18175	17390	18126	19927	16154	18637	18829	18203	17697
19262	18934	19895	18149	18091	19672	21958	19055	20263	21072	20045	20136
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
3397	2855	2843	3722	5189	5407	4865	3585	3955	4591	3541	3026
2800	2500	2776	2746	5272	5425	5105	3805	3837	4002	4425	4598
4350	3546	3347	2939	4700	5100	4433	2986	2584	2775	3444	3447
21282	19995	21259	19588	20015	20846	22275	18330	20520	20997	21101	20805
24103	21548	22266	20921	22662	23551	25032	19959	22474	22831	22628	22295
23612	22480	23242	21088	22791	24772	26391	22041	22847	23847	23489	23583
3464	3095	3608	3349	3601	3468	3563	2215	3628	3652	3526	3557
4454	4146	4611	4362	4043	3910	4020	2947	4121	4843	4522	4681
4699	4343	4874	4702	4390	4113	4227	3040	4316	4230	3968	4067
720	655	712	530	684	668	761	550	810	728	788	732
975	867	869	876	900	899	892	817	816	885	859	914
906	839	913	853	866	902	849	822	808	875	874	986
24026	22435	24155	22407	22932	23646	25077	19995	23338	23921	23839	23630
27582	24827	26008	24407	25805	26562	28160	22089	25779	26789	26291	26062
27405	25984	27203	24937	26315	27983	29769	24259	26355	27202	26583	26664
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
0,98	0,95	0,69	0,94	1,02	0,98	0,82	0,90	1,03	1,31	0,83	0,82
0,54	0,63	0,65	0,63	1,04	0,96	0,84	0,96	0,91	0,80	1,30	1,37
-	-	-	-	-	-	-	-	-	-	-	-
23676	23488	23633	22397	23426	24126	25213	22739	23822	23265	23804	23990
28768	28375	27659	22579	27695	31343	29865	23469	28926	28169	28266	28473
28718	29066	28674	28535	28474	32104	32993	26430	28770	28460	28664	28709
42384	39961	39773	40378	38574	40084	41443	36516	38952	39101	41292	42247
49641	46851	44267	44933	44077	50551	47812	34195	46005	46267	46579	48960
49298	49904	46887	45727	45528	50587	51820	37064	45687	46541	47717	48896
43250	40708	40297	40651	38829	40084	41443	36788	39220	39576	43638	45115
50910	47341	44781	45167	44359	50551	47812	34195	46141	46385	49465	50789
51030	50266	47486	46286	45743	50587	51820	37488	45876	46541	49733	51371
37031	34765	34239	34938	32911	34617	35700	32843	32823	34059	37987	39775
43939	40414	37520	37884	37785	43668	41103	29978	39516	39050	42599	43379
44005	43195	40379	38698	40139	44065	45148	32878	39289	39183	42737	44422

SLOVENIA

Monthly values / Operation

			I-XII	
Thermal conventional net production	GWh	Σ	1998	4362
			2002	4675
			2003	4580
Thermal nuclear net production	GWh	Σ	1998	3539
			2002	5303
			2003	4957
Hydraulic net production	GWh	Σ	1998	3147
			2002	3001
			2003	2687
Total net electrical energy production	GWh	Σ	1998	11048
			2002	12979
			2003	12224
Total physical import / export balance ¹	GWh	Σ	1998	-648
			2002	-1252
			2003	170
Consumption of pumps	GWh	Σ	1998	0
			2002	0
			2003	0
National electrical consumption	GWh	Σ	1998	10400
			2002	11727
			2003	12394
National electrical consumption as percentage of total values	%Ø pond.		1998	100
			2002	95
			2003	95
Energy capability factor (hydro power)	Ø pond.		1998	n.a.
			2002	1,05
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	1043
			2002	1156
			2003	1237
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	1570
			2002	1811
			2003	1826
Peak load on the 3 rd Wednesday	MW max.		1998	1624
			2002	1846
			2003	1920
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	1812
			2002	2072
			2003	1890

¹ Terminology 2.15, see also note Physical energy exchange in interconnected operation

Monthly values / Operation

SLOVENIA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
429	388	468	390	403	270	270	214	356	375	406	393
510	461	423	433	423	384	296	171	375	408	383	408
443	470	463	378	424	406	346	273	321	400	267	389
231	205	224	156	9	213	238	441	446	464	446	466
492	416	487	449	157	370	485	494	477	502	486	488
488	449	492	468	118	286	423	362	453	488	437	493
195	126	125	225	256	307	372	263	336	418	323	201
110	113	165	178	297	308	256	330	229	293	365	357
238	158	154	190	282	266	225	172	184	234	326	258
855	719	817	771	668	790	880	918	1138	1257	1175	1060
1112	990	1075	1060	877	1062	1037	995	1081	1203	1234	1253
1169	1077	1109	1036	824	958	994	807	958	1122	1030	1140
42	112	118	72	171	32	-56	-128	-290	-357	-271	-93
-64	-68	-213	-87	78	-103	-56	-73	-97	-158	-211	-200
-66	-52	-38	-38	161	52	26	160	-46	-42	46	7
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
897	831	935	843	839	822	824	790	848	900	904	967
1048	922	862	973	955	959	981	922	984	1045	1023	1053
1103	1025	1071	998	985	1010	1020	967	912	1080	1076	1147
100	100	100	100	100	100	100	100	100	100	100	100
95	95	95	95	95	95	95	95	95	95	95	95
95	95	95	95	95	95	95	95	95	95	95	95
1,10	0,85	0,57	0,77	0,66	0,74	0,96	0,78	1,19	1,46	1,06	0,84
1,03	0,95	0,46	1,02	1,02	1,02	0,92	1,09	1,09	0,90	1,49	1,49
-	-	-	-	-	-	-	-	-	-	-	-
956	969	987	994	894	941	896	907	919	945	986	1043
1137	1079	1080	1083	1058	1156	1124	1081	1113	1114	1144	1156
1237	1230	1152	1141	1083	1204	1112	1147	1091	1147	1196	1229
1495	1401	1455	1401	1350	1406	1306	1317	1356	1457	1471	1570
1690	1641	1593	1624	1540	1615	1558	1527	1601	1622	1644	1811
1799	1773	1653	1640	1642	1703	1655	1631	1594	1681	1708	1826
1546	1508	1551	1480	1404	1434	1323	1346	1404	1529	1564	1624
1782	1717	1720	1660	1587	1672	1599	1595	1684	1744	1722	1846
1855	1830	1770	1692	1667	1749	1725	1686	1663	1750	1810	1920
1256	1173	1234	1337	1041	1336	1296	1393	1695	1812	1791	1593
1795	1806	1756	1934	1249	2061	1658	1605	1821	1821	2015	2072
1762	1767	1890	1713	1117	1710	1643	1277	1633	1727	1590	1800

Physical exchanges in interconnected operation ¹

MM_YY	SLO → A			SLO → I			SLO → HR			SLO_UCTE_EXP			SLO_III_EXP			A → SLO			I → SLO			HR → SLO			SLO_UCTE_IMP			SLO_III_IMP			SLO_UCTE_SLD			SLO_III_SLD			
	Balance	Import (+)	Export (-)	Balance	Import (+)	Export (-)	Balance	Import (+)	Export (-)	Balance	Import (+)	Export (-)	Balance	Import (+)	Export (-)	Balance	Import (+)	Export (-)	Balance	Import (+)	Export (-)	Balance	Import (+)	Export (-)	Balance	Import (+)	Export (-)	Balance	Import (+)	Export (-)							
I.98		3	64	49	116	0	93	65	0	0	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
II.98		0	24	61	85	0	112	85	0	0	197	0	0	0	0	0	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
III.98		0	31	102	133	0	152	99	0	0	251	0	0	0	0	0	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
IV.98		0	75	82	157	0	175	54	0	0	229	0	0	0	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
V.98		0	45	106	151	0	242	80	0	0	322	0	0	0	0	0	171	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
VI.98		0	82	114	196	0	216	12	0	0	228	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
VII.98		4	184	147	335	0	268	11	0	0	279	0	0	0	0	0	-56	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
VIII.98		15	148	148	311	0	175	8	0	0	183	0	0	0	0	0	-128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
IX.98		1	375	91	467	0	172	5	0	0	177	0	0	0	0	0	-290	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
X.98		10	368	72	450	0	87	6	0	0	93	0	0	0	0	0	-357	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
XI.98		13	321	58	392	0	119	2	0	0	121	0	0	0	0	0	-271	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
XII.98		0	224	123	347	0	246	8	0	0	254	0	0	0	0	0	-93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1998		46	1941	1153	3140	0	2057	435	0	0	2492	0	0	0	0	0	-648	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
I.02		4	467	208	679	0	285	4	326	0	615	0	0	0	0	0	-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
II.02		2	467	208	677	0	329	2	329	0	609	0	0	0	0	0	-68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
III.02		101	493	274	868	0	295	0	360	0	655	0	0	0	0	0	-213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
IV.02		14	381	255	650	0	245	0	318	0	563	0	0	0	0	0	-87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
V.02		2	219	200	421	0	342	38	119	0	499	0	0	0	0	0	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
VI.02		0	252	306	558	0	270	26	159	0	455	0	0	0	0	0	-103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
VII.02		0	265	313	578	0	341	8	173	0	522	0	0	0	0	0	-56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
VIII.02		0	265	375	640	0	316	2	249	0	567	0	0	0	0	0	-73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
IX.02		28	377	275	680	0	182	0	401	0	583	0	0	0	0	0	-97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
X.02		2	710	209	921	0	258	0	503	0	761	0	0	0	0	0	-160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
XI.02		16	706	194	916	0	212	0	493	0	705	0	0	0	0	0	-211	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
XII.02		16	629	215	860	0	222	0	438	0	660	0	0	0	0	0	-200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2002		185	5231	3032	8448	0	3246	80	3868	0	7194	0	0	0	0	0	-1254	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
I.03		20	564	152	736	0	231	0	439	0	670	0	0	0	0	0	-66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
II.03		32	438	133	603	0	197	0	354	0	551	0	0	0	0	0	-52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
III.03		34	468	144	646	0	240	1	367	0	608	0	0	0	0	0	-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IV.03		5	494	152	651	0	272	0	341	0	613	0	0	0	0	0	-38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V.03		0	381	87	468	0	344	0	285	0	629	0	0	0	0	0	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VI.03		0	402	202	604	0	392	0	268	0	660	0	0	0	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VII.03		9	324	220	553	0	323	0	257	0	580	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VIII.03		26	94	144	264	0	219	33	173	0	425	0	0	0	0	0	161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IX.03		28	178	205	411	0	180	9	174	0	363	0	0	0	0	0	-48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
X.03		3	438	205	646	0	299	0	306	0	605	0	0	0	0	0	-41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XI.03		31	369	99	499	0	184	0	336	0	520	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
XII.03		11	398	133	542	0	185	0	365	0	550	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2003		199	4548	1876	6623	0	3066	43	3665	0	6774	0	0	0	0	0	151	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

¹These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation ¹

MM_YY	Export (-)					Import (+)					Balance			
	HR→BiH	HR→H	HR→SCG	HR→SLO	HR_UCTE_EXP	HR_III_EXP	BiH→HR	H→HR	SCG→HR	SLO→HR	HR_UCTE_IMP	HR_III_IMP	HR_UCTE_SLD	HR_III_SLD
I.98	0	0	0	0	0	0	7	23	16	49	72	23	72	23
II.98	0	0	0	0	0	0	27	19	9	61	97	19	97	19
III.98	49	0	0	0	49	0	69	14	24	102	195	14	146	14
IV.98	10	0	0	0	10	0	105	22	1	82	151	22	141	22
V.98	8	0	0	0	8	0	105	60	9	106	220	60	212	60
VI.98	52	0	2	0	54	0	84	33	0	114	198	33	144	33
VII.98	69	0	0	0	69	0	62	39	2	147	211	39	142	39
VIII.98	41	0	0	0	41	0	67	36	1	148	216	36	175	36
IX.98	56	0	0	0	56	0	103	32	0	91	194	32	138	32
X.98	8	0	0	0	8	0	90	45	0	72	162	45	154	45
XI.98	8	0	0	0	8	0	51	35	0	58	109	35	101	35
XII.98	9	0	0	0	9	0	60	58	0	123	183	58	174	58
1998	310	0	2	0	312	0	793	416	62	1153	2008	416	1696	416
I.02	157	0	0	0	157	0	26	690	0	208	924	0	441	0
II.02	168	0	0	0	168	0	43	639	0	208	890	0	393	0
III.02	166	0	0	0	166	0	43	533	0	274	850	0	324	0
IV.02	158	0	2	0	158	0	56	441	0	255	752	0	274	0
V.02	113	0	6	0	119	0	44	370	0	200	614	0	376	0
VI.02	144	0	3	0	159	0	37	281	0	306	624	0	318	0
VII.02	169	0	4	0	173	0	35	384	0	313	732	0	386	0
VIII.02	114	1	0	0	114	0	31	259	0	375	665	0	301	0
IX.02	97	0	0	0	97	0	53	366	0	275	694	0	196	0
X.02	109	0	0	0	109	0	77	506	0	209	792	0	180	0
XI.02	90	0	0	0	90	0	93	413	0	194	700	0	117	0
XII.02	98	0	0	0	98	0	96	442	0	215	753	0	217	0
2002	1583	1	15	0	1583	0	634	5324	0	3032	8990	0	3523	0
I.03	165	0	0	0	165	0	46	533	0	152	731	0	127	0
II.03	126	0	0	0	126	0	59	467	0	133	659	0	179	0
III.03	113	0	0	0	113	0	59	534	0	144	737	0	257	0
IV.03	62	0	0	0	62	0	72	513	0	152	737	0	334	0
V.03	62	0	0	0	62	0	136	463	0	87	686	0	343	0
VI.03	101	1	0	0	101	0	107	435	0	202	744	0	374	0
VII.03	93	0	0	0	93	0	84	414	8	220	726	0	376	0
VIII.03	113	0	0	0	113	0	71	424	18	144	657	0	371	0
IX.03	178	0	0	0	178	0	47	458	16	205	726	0	374	0
X.03	115	0	0	0	115	0	108	533	21	205	867	0	446	0
XI.03	71	0	0	0	71	0	138	502	23	99	762	0	355	0
XII.03	95	0	0	0	95	0	127	566	0	133	826	0	366	0
2003	1290	1	0	0	1290	0	1054	5842	86	1876	8858	0	3902	0

¹These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

CROATIA

Monthly values / Operation

			I-XII	
			1998	
Thermal conventional net production	GWh	Σ	1998	4573
			2002	5933
			2003	6966
Thermal nuclear net production	GWh	Σ	1998	1251
			2002	0
			2003	0
Hydraulic net production	GWh	Σ	1998	5437
			2002	5374
			2003	4895
Total net electrical energy production	GWh	Σ	1998	11261
			2002 ²	11307
			2003 ²	11861
Total physical import / export balance ¹	GWh	Σ	1998	2111
			2002	3522
			2003	3663
Consumption of pumps	GWh	Σ	1998	13
			2002	95
			2003	87
National electrical consumption	GWh	Σ	1998	13359
			2002	14734
			2003	15437
National electrical consumption as percentage of total values	%Ø pond.		1998	100
			2002	100
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	0,79
			2002	1,05
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	1334
			2002	1579
			2003	1643
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	2203
			2002	2572
			2003	2453
Peak load on the 3 rd Wednesday	MW max.		1998	2354
			2002	2623
			2003	2618
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	1880
			2002	2572
			2003	2453

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

CROATIA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
291	412	497	302	271	209	262	452	450	223	504	700
738	458	515	454	295	437	555	510	567	430	414	560
608	575	557	501	501	522	603	704	832	534	413	616
231	205	224	156	4	213	218	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
665	403	348	411	413	343	352	342	366	653	617	524
371	428	431	464	422	330	259	345	343	596	688	697
752	663	545	381	282	263	270	179	166	323	539	532
1187	1020	1069	869	688	765	832	794	816	876	1121	1224
1109	886	946	918	717	767	814	855	910	1026	1102	1257
1360	1238	1102	882	783	785	873	883	998	857	952	1148
94	116	160	163	272	177	181	211	170	199	136	232
441	393	324	275	376	319	386	300	195	179	117	217
127	179	257	333	331	373	377	373	144	447	355	367
1	1	1	1	1	2	1	0	1	3	1	0
3	1	2	8	12	12	11	10	7	11	2	16
7	0	1	5	9	12	18	9	8	13	2	3
1280	1135	1228	1031	959	940	1012	1005	985	1072	1256	1456
1547	1278	1268	1185	1081	1074	1189	1145	1098	1194	1217	1458
1480	1417	1358	1210	1105	1146	1232	1247	1134	1291	1305	1512
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
1,02	0,42	0,30	0,73	0,71	0,72	1,33	1,09	1,16	1,50	0,89	0,65
0,57	1,31	0,67	0,89	0,82	0,84	0,80	1,68	2,03	1,70	1,25	1,00
-	-	-	-	-	-	-	-	-	-	-	-
1232	1120	1197	1091	944	905	961	1042	953	989	1225	1334
1579	1331	1183	1189	1033	1181	1213	1156	1133	1201	1207	1503
1624	1643	1418	1285	1095	1271	1224	1318	1132	1170	1348	1530
1998	1927	2008	1825	1608	1614	1639	1657	1627	1832	2110	2203
2572	2187	1876	1913	1689	1861	1900	1852	1731	1818	1820	2327
2349	2453	2063	1865	1765	1892	1885	1991	1800	1927	2070	2377
2168	2055	2115	1860	1658	1671	1702	1782	1773	1940	2281	2354
2623	2323	2092	2084	1833	1919	1943	1923	1913	1961	2056	2463
2507	2618	2309	2049	1835	1950	1989	2151	2030	2213	2323	2602
1817	1703	1703	1466	1131	1292	1315	1358	1320	1345	1880	1730
2572	2187	1876	1913	1689	1861	1900	1852	1731	1818	1820	2327
2349	2453	2063	2049	1765	1439	880	1483	1507	1855	2096	2450

			I-XII	
Thermal conventional net production	GWh	Σ	1998	30697
			2002	28704
			2003	n.a
Thermal nuclear net production	GWh	Σ	1998	0
			2002	0
			2003	n.a
Hydraulic net production	GWh	Σ	1998	13954
			2002	12473
			2003	n.a
Total net electrical energy production	GWh	Σ	1998	44651
			2002	41177
			2003	n.a.
Total physical import / export balance ¹	GWh	Σ	1998	440
			2002	4475
			2003	n.a
Consumption of pumps	GWh	Σ	1998	981
			2002	1028
			2003	n.a
National electrical consumption	GWh	Σ	1998	44110
			2002	44624
			2003	n.a
National electrical consumption as percentage of total values	%Ø pond.		1998	96
			2002	96
			2003	n.a
Energy capability factor (hydro power)	Ø pond.		1998	0,96
			2002	1,24
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	5258
			2002	6247
			2003	n.a.
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	7240
			2002	7705
			2003	n.a.
Peak load on the 3 rd Wednesday	MW max.		1998	7874
			2002	8020
			2003	n.a.
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	6819
			2002	5716
			2003	n.a.

¹ Terminology 2.15, see also note Physical energy exchange in interconnected operation

² JIEL = FRY + FYROM (Federal Republic of Yugoslavia and Former Yugoslav Republic of Macedonia)

Monthly values / Operation

JIEL²

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
2986	2854	3213	2447	2074	2118	2219	2411	2336	2130	2669	3240
3464	2689	2824	2484	2092	2114	2190	2043	1955	1878	2140	2831
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1308	964	1207	1074	1272	956	950	771	843	1380	1565	1664
846	944	1107	1255	955	866	685	839	803	1483	1291	1399
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4294	3818	4420	3521	3346	3074	3169	3182	3179	3510	4234	4904
4310	3633	3931	3739	3047	2980	2875	2882	2758	3361	3431	4230
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
358	310	65	-82	-223	-194	-254	-256	-92	99	229	480
861	465	237	97	130	62	188	199	405	446	640	745
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
33	57	12	130	48	64	80	98	137	144	121	57
90	105	115	136	82	49	52	91	88	95	69	56
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4619	4071	4473	3309	3075	2816	2835	2828	2950	3465	4342	5327
5081	3993	4053	3700	3095	2993	3011	2990	3075	3712	4002	4919
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
96	96	96	96	96	96	96	96	96	96	96	96
96	96	96	96	96	96	96	96	96	96	96	96
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1,04	0,85	0,62	0,85	0,86	0,83	0,94	0,80	1,42	1,74	1,20	1,05
0,66	1,03	0,85	0,94	0,70	0,73	0,67	1,20	1,28	2,20	0,77	1,09
	-	-	-	-	-	-	-	-	-	-	-
4989	4508	5169	3608	2988	2886	2836	2871	2875	3434	4721	5258
6247	4882	3945	3691	3111	3163	3153	3113	3180	3733	4002	5685
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6932	6065	6993	5332	4827	4404	4395	4214	4591	5515	6855	7240
7705	6302	5594	5256	4667	4749	4669	4499	4710	5344	5616	7318
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7439	6821	7482	6117	5313	4841	4595	4667	5239	6338	7472	7874
8020	6847	6440	6135	5342	5247	4863	5149	5531	6163	6566	7763
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6259	5330	6819	5265	5321	4858	4820	4553	5021	5570	6586	6547
5665	5006	4911	4620	4117	4202	4055	4000	3882	4763	4294	5716
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Physical exchanges in interconnected operation ¹

MM_YY	Export (-)										Import (+)										Balance	
	JIEL→AL	JIEL→BG	JIEL→BIH	JIEL→GR	JIEL→H	JIEL→HR	JIEL→RO	JIEL_UCTE_EXP	JIEL_III_EXP	AL→JIEL	BG→JIEL	BIH→JIEL	GR→JIEL	H→JIEL	HR→JIEL	RO→JIEL	JIEL_UCTE_IMP	JIEL_III_IMP	JIEL_UCTE_SLD	JIEL_III_SLD		
I.98	13	0	0	102	0	16	6	118	19	64	99	0	0	120	0	75	0	358	-118	339		
II.98	11	1	0	61	0	9	7	70	19	63	54	1	1	105	0	38	1	260	-69	241		
III.98	23	2	0	116	0	24	17	140	42	38	45	0	0	32	0	20	0	135	-140	93		
IV.98	41	18	0	151	0	1	73	152	132	35	13	0	1	9	0	4	1	39	-151	-93		
V.98	13	31	0	122	0	9	120	131	164	35	9	0	1	0	0	1	1	45	-130	-119		
VI.98	19	34	0	146	0	0	84	146	137	60	6	0	0	7	2	2	4	75	-142	-62		
VII.98	21	47	0	173	0	2	117	175	185	53	4	0	0	13	0	1	0	71	-175	-114		
VIII.98	47	14	0	218	0	1	71	219	132	44	37	0	0	25	0	3	0	109	-219	-23		
IX.98	25	18	0	180	0	0	77	180	120	50	33	0	0	69	0	3	0	155	-180	35		
X.98	19	11	0	77	0	0	39	77	69	61	27	0	1	82	0	18	1	188	-76	119		
XI.98	20	13	0	32	0	0	64	32	97	87	36	0	1	106	0	2	1	231	-31	134		
XII.98	9	0	0	34	0	0	10	34	19	115	100	0	18	123	0	89	18	427	-16	408		
1998	261	189	0	1412	0	62	685	1474	1135	683	463	0	23	691	2	256	27	2093	-1447	958		
I.02	37	0	91	59	0	0	0	91	37	8	227	4	4	201	0	358	455	593	364	556		
II.02	109	0	48	48	0	0	1	48	110	0	140	246	7	187	0	90	314	440	392	120		
III.02	123	10	44	108	0	0	22	44	155	0	52	264	1	189	0	37	346	454	410	-66		
IV.02	122	20	55	152	0	0	26	55	169	0	38	255	1	134	2	43	468	392	337	-88		
V.02	122	15	78	63	0	0	6	78	143	0	23	191	2	141	6	51	340	340	262	-69		
VI.02	139	17	55	98	0	0	8	55	164	0	35	192	3	114	3	33	312	68	257	-96		
VII.02	146	1	54	80	0	0	4	54	151	0	77	165	2	146	4	81	317	158	263	7		
VIII.02	110	2	58	77	0	0	3	58	115	0	61	146	3	153	0	86	302	147	244	32		
IX.02	85	0	56	53	0	0	17	56	102	6	238	156	15	143	0	59	314	303	258	201		
X.02	52	1	51	100	0	0	6	51	59	13	149	200	5	141	0	148	346	310	295	251		
XI.02	39	0	24	69	0	0	0	24	39	13	147	273	2	193	0	145	468	305	444	266		
XII.02	38	0	74	42	0	0	0	74	38	1	188	316	5	205	0	184	526	373	452	335		
2002	1123	66	688	949	0	0	93	688	1282	41	1375	2654	50	1947	15	1315	4666	2731	3978	1449		
I.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
II.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
III.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
IV.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
V.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
VI.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
VII.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
VIII.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
IX.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
X.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
XI.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
XII.03	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
2003	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	

¹ These physical energy flows were measured on all cross-frontier transmission lines. ² These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

² JIEL = FRY + FYROM (Federal Republic of Yugoslavia and former Yugoslav Republic of Macedonia)

MM_YY	BiH→HR		BiH→SCG		BiH_UCTE_EXP		BiH_III_EXP		HR→BiH		SCG→BiH		BiH_UCTE_IMP		BiH_III_IMP		BiH_UCTE_SLD		BiH_III_SLD	
	Export (-)	Import (+)	Export (-)	Import (+)	Export (-)	Import (+)	Export (-)	Import (+)	Export (-)	Import (+)	Export (-)	Import (+)	Export (-)	Import (+)	Export (-)	Import (+)	Export (-)	Import (+)	Export (-)	Import (+)
I.98	7	n.a.	7	n.a.	0	0	0	0	0	0	n.a.	0	0	0	0	0	0	0	0	
II.98	27	n.a.	27	n.a.	0	0	0	0	49	0	n.a.	0	0	0	0	0	0	0	0	
III.98	69	n.a.	69	n.a.	0	0	0	0	10	49	n.a.	0	0	0	0	0	0	0	0	
IV.98	68	n.a.	68	n.a.	0	0	0	0	10	10	n.a.	0	0	0	0	0	0	0	0	
V.98	105	n.a.	105	n.a.	0	0	0	0	8	8	n.a.	0	0	0	0	0	0	0	0	
VI.98	84	n.a.	84	n.a.	0	0	0	0	52	52	n.a.	0	0	0	0	0	0	0	0	
VII.98	62	n.a.	62	n.a.	0	0	0	0	69	69	n.a.	0	0	0	0	0	0	0	0	
VIII.98	67	n.a.	67	n.a.	0	0	0	0	41	41	n.a.	0	0	0	0	0	0	0	0	
IX.98	103	n.a.	103	n.a.	0	0	0	0	56	56	n.a.	0	0	0	0	0	0	0	0	
X.98	90	n.a.	90	n.a.	0	0	0	0	8	8	n.a.	0	0	0	0	0	0	0	0	
XI.98	51	n.a.	51	n.a.	0	0	0	0	8	8	n.a.	0	0	0	0	0	0	0	0	
XII.98	60	n.a.	60	n.a.	0	0	0	0	9	9	n.a.	0	0	0	0	0	0	0	0	
1998	793	n.a.	793	n.a.	0	0	0	0	310	310	n.a.	0	0	0	0	0	0	0	0	
I.02	26	250	276	250	0	0	0	0	157	91	91	0	0	0	0	0	0	0	0	
II.02	43	246	289	246	0	0	0	0	168	48	48	0	0	0	0	0	0	0	0	
III.02	43	264	307	264	0	0	0	0	166	44	44	0	0	0	0	0	0	0	0	
IV.02	56	255	311	255	0	0	0	0	158	55	55	0	0	0	0	0	0	0	0	
V.02	44	191	235	191	0	0	0	0	113	78	78	0	0	0	0	0	0	0	0	
VI.02	37	192	229	192	0	0	0	0	144	55	55	0	0	0	0	0	0	0	0	
VII.02	35	165	200	165	0	0	0	0	169	54	54	0	0	0	0	0	0	0	0	
VIII.02	31	146	177	146	0	0	0	0	114	58	58	0	0	0	0	0	0	0	0	
IX.02	53	156	209	156	0	0	0	0	97	56	56	0	0	0	0	0	0	0	0	
X.02	77	200	277	200	0	0	0	0	109	51	51	0	0	0	0	0	0	0	0	
XI.02	93	273	366	273	0	0	0	0	90	24	24	0	0	0	0	0	0	0	0	
XII.02	96	316	412	316	0	0	0	0	98	74	74	0	0	0	0	0	0	0	0	
2002	634	2654	3288	2654	0	0	0	0	1583	688	688	2271	2271	0	0	0	0	0	0	
I.03	46	303	349	303	0	0	0	0	165	74	74	0	0	0	0	0	0	0	0	
II.03	59	180	239	180	0	0	0	0	126	72	72	0	0	0	0	0	0	0	0	
III.03	59	239	298	239	0	0	0	0	113	69	69	0	0	0	0	0	0	0	0	
IV.03	72	244	316	244	0	0	0	0	62	97	97	0	0	0	0	0	0	0	0	
V.03	136	125	261	125	0	0	0	0	58	96	96	0	0	0	0	0	0	0	0	
VI.03	107	136	243	136	0	0	0	0	101	46	46	0	0	0	0	0	0	0	0	
VII.03	84	98	182	98	0	0	0	0	93	56	56	0	0	0	0	0	0	0	0	
VIII.03	71	74	145	74	0	0	0	0	113	63	63	0	0	0	0	0	0	0	0	
IX.03	47	72	119	72	0	0	0	0	178	62	62	0	0	0	0	0	0	0	0	
X.03	108	113	221	113	0	0	0	0	115	73	73	0	0	0	0	0	0	0	0	
XI.03	138	158	296	158	0	0	0	0	71	19	19	0	0	0	0	0	0	0	0	
XII.03	127	219	346	219	0	0	0	0	95	65	65	0	0	0	0	0	0	0	0	
2003	1054	1961	3015	1961	0	0	0	0	1290	792	792	2082	2082	0	0	0	0	0	0	

¹ These physical energy flows were measured on all cross-frontier transmission lines. These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

BOSNIA - HERZEGOVINA

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1998	n.a
			2002	n.a
			2003	6653
Thermal nuclear net production	GWh	Σ	1998	n.a
			2002	n.a
			2003	0
Hydraulic net production	GWh	Σ	1998	n.a
			2002	n.a
			2003	4501
Total net electrical energy production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	11154
Total physical import / export balance ¹	GWh	Σ	1998	n.a
			2002	n.a
			2003	1355
Consumption of pumps	GWh	Σ	1998	n.a
			2002	n.a
			2003	0
National electrical consumption	GWh	Σ	1998	n.a
			2002	n.a
			2003	12509
National electrical consumption as percentage of total values	%Ø pond.		1998	n.a
			2002	n.a
			2003	99
Energy capability factor (hydro power)	Ø pond.		1998	n.a.
			2002	n.a.
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	1113
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	1629
Peak load on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	1745
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	n.a.
			2002	n.a.
			2003	1845

¹ Terminology 2.15, see also note Physical energy exchange in interconnected operation

Monthly values / Operation

BOSNIA - HERZEGOVINA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
514	481	556	517	444	601	556	563	455	610	608	748
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
606	506	470	449	406	228	231	192	176	291	488	458
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1120	987	1026	966	850	829	787	755	631	901	1096	1206
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
120	51	125	166	121	106	52	15	113	56	219	211
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1240	1038	1151	1132	971	935	839	770	744	957	1315	1417
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
99	99	99	99	99	99	99	99	99	99	99	99
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1113	1092	969	811	742	791	761	794	786	822	928	1007
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1595	1629	1382	1220	1175	1123	1146	1159	1152	1313	1352	1477
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1739	1745	1542	1396	1251	1202	1252	1233	1348	1477	1567	1681
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1845	1570	1643	1521	1525	1136	1252	1053	969	1237	1725	1801

			I-XII	
			1998	
Thermal conventional net production	GWh	Σ	2002	n.a
			2003	n.a
				4945
Thermal nuclear net production	GWh	Σ	1998	n.a
			2002	n.a
			2003	0
Hydraulic net production	GWh	Σ	1998	n.a
			2002	n.a
			2003	1324
Total net electrical energy production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003 ²	6269
Total physical import / export balance ¹	GWh	Σ	1998	n.a
			2002	n.a
			2003	36
Consumption of pumps	GWh	Σ	1998	n.a
			2002	n.a
			2003	0
National electrical consumption	GWh	Σ	1998	n.a
			2002	n.a
			2003	6305
National electrical consumption as percentage of total values	%Ø pond.		1998	n.a
			2002	n.a
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	n.a.
			2002	n.a.
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	877
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	1181
Peak load on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	1284
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	n.a.
			2002	n.a.
			2003	987

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

FYROM

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
468	407	475	440	303	278	313	381	415	478	488	499
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
166	207	164	105	133	133	100	76	28	52	51	109
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
634	614	639	545	436	411	413	457	443	530	539	608
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	3	2	1	1	2	2	2	2	3	4	11
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
637	617	641	546	437	413	415	459	445	533	543	619
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
100	100	100	100	100	100	100	100	100	100	100	100
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
860	868	747	589	493	524	529	519	513	545	744	877
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1130	1172	1034	817	735	772	775	757	757	897	980	1181
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1195	1222	1131	950	801	829	809	839	866	1014	1132	1284
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
925	987	929	797	670	570	655	639	668	811	731	909

Physical exchanges in interconnected operation ¹

MM_YY	Export (-)		Import (+)		Balance			
	FYROM→GR	FYROM→SCG	FYROM_UCTE_EXP	FYROM_III_EXP	FYROM_UCTE_IMP	FYROM_III_IMP	FYROM_UCTE_SLD	FYROM_III_SLD
I.98	102	n.a.	102	0	0	0	-102	0
II.98	61	n.a.	61	0	1	0	-60	0
III.98	116	n.a.	116	0	0	0	-116	0
IV.98	151	n.a.	151	0	1	0	-150	0
V.98	122	n.a.	122	0	1	0	-121	0
VI.98	146	n.a.	146	0	0	0	-146	0
VII.98	173	n.a.	173	0	0	0	-173	0
VIII.98	218	n.a.	218	0	0	0	-218	0
IX.98	180	n.a.	180	0	0	0	-180	0
X.98	77	n.a.	77	0	1	0	-76	0
XI.98	32	n.a.	32	0	1	0	-31	0
XII.98	34	n.a.	34	0	18	0	-16	0
1998	1412	n.a.	1412	0	23	0	-1389	0
I.02	59	n.a.	59	0	4	0	-55	0
II.02	48	n.a.	48	0	7	0	-41	0
III.02	108	n.a.	108	0	1	0	-107	0
IV.02	152	n.a.	152	0	1	0	-151	0
V.02	63	n.a.	63	0	2	0	-61	0
VI.02	98	n.a.	98	0	3	0	-95	0
VII.02	80	n.a.	80	0	2	0	-78	0
VIII.02	77	n.a.	77	0	3	0	-74	0
IX.02	53	n.a.	53	0	15	0	-38	0
X.02	100	n.a.	100	0	5	0	-95	0
XI.02	69	n.a.	69	0	2	0	-67	0
XII.02	42	n.a.	42	0	5	0	-37	0
2002	949	n.a.	949	0	50	0	-899	0
I.03	39	0	39	0	127	0	88	0
II.03	41	0	41	0	129	0	88	0
III.03	97	0	97	0	147	0	50	0
IV.03	140	0	140	0	184	0	44	0
V.03	128	0	128	0	174	0	46	0
VI.03	109	0	109	0	167	0	63	0
VII.03	75	0	75	0	162	0	91	0
VIII.03	77	0	77	0	122	0	47	0
IX.03	50	0	50	0	103	0	53	0
X.03	26	5	31	0	86	0	55	0
XI.03	37	0	37	0	127	0	117	0
XII.03	19	0	19	0	211	0	192	0
2003	838	5	843	0	1777	0	934	0

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

MM_YY	Export (-)										Import (+)										Balance	
	SCG→AL	SCG→BG	SCG→BiH	SCG→FYROM	SCG→H	SCG→HR	SCG→RO	SCG_UCTE_EXP	SCG_III_EXP	AL→SCG	BG→SCG	BiH→SCG	FYROM→SCG	H→SCG	HR→SCG	RO→SCG	SCG_UCTE_IMP	SCG_III_IMP	SCG_UCTE_SLD	SCG_III_SLD		
I.98	13	0	0	n.a.	0	16	6	16	19	64	99	n.a.	n.a.	120	0	75	0	358	-16	339		
II.98	11	1	0	n.a.	0	9	7	9	19	63	54	n.a.	n.a.	105	0	38	0	260	-9	241		
III.98	23	2	0	n.a.	0	24	17	24	42	38	45	n.a.	n.a.	32	0	20	0	135	-24	93		
IV.98	41	18	0	n.a.	0	1	73	1	132	13	13	n.a.	n.a.	9	0	4	0	39	-1	-93		
V.98	13	31	0	n.a.	0	9	120	9	164	35	9	n.a.	n.a.	0	0	1	0	45	-9	-119		
VI.98	19	34	0	n.a.	0	0	84	0	137	60	6	n.a.	n.a.	7	2	2	2	75	2	-62		
VII.98	21	47	0	n.a.	0	2	117	2	185	53	4	n.a.	n.a.	13	0	1	0	71	-2	-114		
VIII.98	47	14	0	n.a.	0	1	71	1	132	44	37	n.a.	n.a.	25	0	3	0	109	-1	-23		
IX.98	25	18	0	n.a.	0	0	77	0	120	50	33	n.a.	n.a.	69	0	3	0	155	0	35		
X.98	19	11	0	n.a.	0	0	39	0	69	61	27	n.a.	n.a.	82	0	18	0	188	0	119		
XI.98	20	13	0	n.a.	0	0	64	0	97	87	36	n.a.	n.a.	106	0	2	0	231	0	134		
XII.98	9	0	0	n.a.	0	0	10	0	115	115	100	n.a.	n.a.	123	0	89	0	427	0	408		
1998	261	189	0	n.a.	0	62	685	62	1135	683	463	n.a.	n.a.	691	2	256	2	2093	-60	958		
I.02	37	0	0	n.a.	0	0	0	91	37	8	227	250	n.a.	201	0	358	451	593	360	556		
II.02	109	0	0	n.a.	0	0	1	48	110	0	140	246	n.a.	187	0	90	433	230	385	120		
III.02	123	10	0	n.a.	0	0	22	44	155	0	52	264	n.a.	189	0	37	453	89	409	-66		
IV.02	123	20	0	n.a.	0	0	26	55	169	0	38	255	n.a.	134	2	43	355	81	336	-88		
V.02	122	15	0	n.a.	0	0	6	78	143	0	23	191	n.a.	141	6	51	338	74	260	-69		
VI.02	139	17	0	n.a.	0	0	8	55	164	0	35	192	n.a.	114	3	33	309	68	254	-96		
VII.02	146	1	0	n.a.	0	0	4	54	151	0	77	165	n.a.	146	4	81	315	158	261	7		
VIII.02	110	2	0	n.a.	0	0	3	58	115	0	61	146	n.a.	153	0	86	299	147	241	32		
IX.02	85	0	0	n.a.	0	0	17	56	102	6	238	156	n.a.	143	0	59	299	303	243	201		
X.02	52	1	0	n.a.	0	0	6	51	59	13	149	200	n.a.	141	0	148	341	290	251	251		
XI.02	39	0	0	n.a.	0	0	0	24	39	13	147	273	n.a.	193	0	145	466	305	442	266		
XII.02	38	0	0	n.a.	0	0	0	74	38	1	188	316	n.a.	205	0	184	521	373	447	335		
2002	1123	66	0	n.a.	0	0	93	688	1282	41	1375	2654	n.a.	1947	15	1315	4616	2731	3928	1449		
I.03	13	1	0	n.a.	0	0	2	195	13	88	99	303	0	177	0	156	735	88	540	75		
II.03	4	1	0	n.a.	0	0	1	195	4	100	64	180	0	183	0	106	533	100	338	96		
III.03	22	3	0	n.a.	0	0	7	226	22	34	57	239	0	77	0	79	452	34	226	12		
IV.03	41	16	0	n.a.	0	0	9	300	41	3	45	244	0	12	0	56	357	3	57	-38		
V.03	34	32	0	n.a.	0	0	5	307	34	6	16	125	0	0	0	100	241	6	-66	-28		
VI.03	37	36	0	n.a.	0	0	0	249	37	9	13	136	0	0	0	214	363	9	114	-28		
VII.03	52	2	0	n.a.	0	8	0	228	52	2	195	98	0	0	0	176	469	2	241	-50		
VIII.03	83	0	0	n.a.	0	18	0	203	83	0	199	74	0	7	0	228	508	0	305	-83		
IX.03	67	0	0	n.a.	0	16	3	173	67	0	223	72	0	6	0	126	427	0	254	-67		
X.03	31	0	0	n.a.	0	21	2	139	31	2	216	113	5	0	0	98	432	2	293	-29		
XI.03	34	0	0	n.a.	0	23	0	169	34	5	226	158	0	0	0	229	613	5	444	-29		
XII.03	47	0	0	n.a.	0	0	0	238	47	15	283	219	0	60	0	284	846	15	608	-32		
2003	465	91	0	1624	0	86	29	2622	465	264	1636	1961	5	522	0	1852	5976	264	3354	-201		

¹These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

SERBIA and MONTENEGRO

Monthly values / Operation

			I-XII	
Thermal conventional net production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	25819
Thermal nuclear net production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	0
Hydraulic net production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	10707
Total net electrical energy production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	36526
Total physical import / export balance ¹	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	3148
Consumption of pumps	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	521
National electrical consumption	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	39153
National electrical consumption as percentage of total values	%Ø pond.		1998	n.a.
			2002	n.a.
			2003	96
Energy capability factor (hydro power)	Ø pond.		1998	n.a.
			2002	n.a.
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	5523
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	6744
Peak load on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	6979
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	n.a.
			2002	n.a.
			2003	6075

¹ Terminology 2.15, see also note Physical energy exchange in interconnected operation

Monthly values / Operation

SERBIA and MONTENEGRO

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2107	2299	2377	2124	1796	1723	1888	1970	2130	2247	2328	2830
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1545	1327	1213	1068	942	752	549	472	366	780	841	852
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3652	3626	3590	3192	2738	2475	2437	2442	2496	3027	3169	3682
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
615	434	240	23	-95	88	190	223	181	264	409	576
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
69	30	45	19	16	12	34	43	66	41	69	77
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4198	4030	3785	3196	2627	2551	2593	2622	2611	3250	3509	4181
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
96	96	96	96	96	96	96	96	96	96	96	96
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5383	5523	4464	3323	2594	2710	2608	2752	2753	3123	4073	4955
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6283	6744	5537	4783	4042	4023	3999	4074	4138	4970	5213	6251
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6707	6979	6013	5123	4365	4450	4363	4497	4842	5549	5836	6699
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5045	6075	5250	4687	4152	3929	3657	3581	3643	4647	4471	5232

LUXEMBOURG

Monthly values / Operation

				I-XII
Thermal conventional net production	GWh	Σ	1998	216
			2002	2594
			2003	2560
Thermal nuclear net production	GWh	Σ	1998	0
			2002	0
			2003	0
Hydraulic net production	GWh	Σ	1998	1030
			2002	996
			2003	953
Total net electrical energy production	GWh	Σ	1998	1246
			2002	3590
			2003	3513
Total physical import / export balance ¹	GWh	Σ	1998	5439
			2002	3625
			2003	3756
Consumption of pumps	GWh	Σ	1998	1272
			2002	1198
			2003	1143
National electrical consumption	GWh	Σ	1998	5413
			2002	6017
			2003	6126
National electrical consumption as percentage of total values	%Ø pond.		1998	99
			2002	99
			2003	99
Energy capability factor (hydro power)	Ø pond.		1998	-
			2002	-
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	683
			2002	756
			2003	780
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	807
			2002	815
			2003	864
Peak load on the 3 rd Wednesday	MW max.		1998	823
			2002	892
			2003	918
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	826
			2002	821
			2003	864

¹ Terminology 2.15, see also note Physical energy exchange in interconnected operation

Monthly values / Operation

LUXEMBOURG

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
16	17	20	19	16	17	17	13	15	20	22	24
299	234	75	193	244	275	285	161	190	220	267	151
236	256	132	211	271	245	105	56	247	280	287	234
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
90	71	78	89	92	93	88	93	97	89	67	83
87	81	78	72	85	87	87	89	72	85	83	90
89	71	66	68	74	74	83	83	75	88	89	93
106	88	98	108	108	110	105	106	112	109	89	107
386	315	153	265	329	362	372	250	262	305	350	241
325	327	198	279	345	319	188	139	322	368	376	327
490	448	477	449	440	438	448	358	464	495	476	456
249	268	462	320	272	237	239	293	314	336	276	359
318	253	422	310	245	257	425	390	270	284	279	303
102	89	94	102	111	119	117	124	126	114	78	96
100	88	87	84	103	112	112	118	92	102	96	104
95	78	71	80	89	92	104	105	97	108	113	111
494	447	481	455	437	429	436	340	450	490	487	467
535	495	528	501	498	487	499	425	484	539	530	496
548	502	549	509	501	484	509	424	495	544	542	519
99	99	99	99	99	99	99	99	99	99	99	99
99	99	99	99	99	99	99	99	99	99	99	99
99	99	99	99	99	99	99	99	99	99	99	99
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
671	659	625	650	517	556	515	425	555	683	626	598
756	717	676	687	660	651	645	560	644	603	710	615
622	697	637	633	621	656	706	467	681	739	780	725
735	681	807	750	701	713	654	581	678	759	639	671
800	815	710	667	798	729	701	741	778	732	712	760
864	745	698	801	740	772	812	656	722	860	791	852
770	723	823	750	729	726	684	614	740	786	799	760
892	855	852	808	812	742	761	741	810	819	827	760
918	806	866	830	766	796	826	661	776	894	861	880
765	706	826	772	724	732	681	611	701	781	662	693
800	821	716	627	801	730	701	746	778	736	718	766
864	754	704	801	743	779	823	659	728	860	800	855

Physical exchanges in interconnected operation ¹

MM_YY	L_III_EXP		L_III_IMP		L_III_SLD
	L_III_EXP	L_III_IMP	L_III_EXP	L_III_IMP	
MM_YY	L_UCTE_EXP		L_UCTE_IMP		L_UCTE_SLD
	L_UCTE_EXP	L_UCTE_IMP	L_UCTE_EXP	L_UCTE_IMP	
MM_YY	Export (-)		Import (+)		Balance
	L → D	L → B	B → L	D → L	
I..98	74	0	178	386	490
II..98	64	0	161	351	448
III..98	68	0	175	371	478
IV..98	75	0	162	355	442
V..98	83	0	158	359	434
VI..98	87	0	154	365	432
VII..98	85	0	152	376	443
VIII..98	90	0	81	362	353
IX..98	92	0	162	389	459
X..98	81	0	172	397	488
XI..98	55	0	172	359	476
XII..98	69	0	144	380	455
1998	923	0	1871	4450	5398
I..02	269	73	161	430	249
II..02	208	65	168	373	268
III..02	46	64	178	394	462
IV..02	143	63	147	379	320
V..02	185	76	139	394	272
VI..02	217	82	136	400	237
VII..02	230	83	140	412	239
VIII..02	127	86	109	397	293
IX..02	140	69	133	390	314
X..02	161	76	150	423	336
XI..02	203	69	144	404	276
XII..02	103	77	120	419	359
2002	2032	883	1725	4815	3625
I..03	176	71	135	433	321
II..03	202	55	123	388	254
III..03	88	52	167	395	422
IV..03	162	59	142	388	309
V..03	213	65	128	396	246
VI..03	193	67	124	395	259
VII..03	73	77	154	421	425
VIII..03	33	78	100	401	390
IX..03	188	70	120	408	270
X..03	218	79	139	445	287
XI..03	232	81	148	444	279
XII..03	181	80	122	442	303
2003	1959	834	1602	4956	3765

¹These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

Physical exchanges in interconnected operation ¹

MM_YY	NL_UCTE_EXP		NL_III_EXP	B→NL		D→NL		Import (+)		NL_UCTE_IMP		NL_III_IMP	NL_UCTE_SLD		NL_III_SLD	Balance
	NL→B	NL→D		Export (-)	Export (-)	Import (+)	Import (+)	Import (+)	Import (+)	Import (+)	Import (+)		Import (+)	Import (+)		
I.98	240	136	376	0	400	1044	1444	0	1068	0	1068	0	0	0	0	0
II.98	255	116	371	0	310	978	1288	0	917	0	917	0	0	0	0	0
III.98	280	99	379	0	204	1165	1369	0	990	0	990	0	0	0	0	0
IV.98	346	107	453	0	261	1145	1406	0	953	0	953	0	0	0	0	0
V.98	277	193	470	0	283	1121	1404	0	934	0	934	0	0	0	0	0
VI.98	166	307	473	0	350	1226	1576	0	1103	0	1103	0	0	0	0	0
VII.98	172	200	372	0	341	1145	1486	0	1114	0	1114	0	0	0	0	0
VIII.98	224	74	298	0	270	1121	1391	0	1093	0	1093	0	0	0	0	0
IX.98	260	62	322	0	150	1186	1336	0	1014	0	1014	0	0	0	0	0
X.98	262	67	329	0	172	1223	1395	0	1066	0	1066	0	0	0	0	0
XI.98	348	48	396	0	172	1140	1312	0	916	0	916	0	0	0	0	0
XII.98	386	84	470	0	211	1127	1338	0	868	0	868	0	0	0	0	0
1998	3216	1493	4709	0	3124	13621	16745	0	12036	0	12036	0	0	0	0	0
I.02	642	18	660	0	152	1539	1691	0	1031	0	1031	0	0	0	0	0
II.02	465	0	465	0	195	1552	1747	0	1282	0	1282	0	0	0	0	0
III.02	331	3	334	0	313	1403	1716	0	1382	0	1382	0	0	0	0	0
IV.02	177	25	202	0	583	805	1388	0	1186	0	1186	0	0	0	0	0
V.02	213	77	290	0	695	1088	1783	0	1493	0	1493	0	0	0	0	0
VI.02	145	130	275	0	813	948	1761	0	1486	0	1486	0	0	0	0	0
VII.02	123	79	202	0	837	861	1698	0	1496	0	1496	0	0	0	0	0
VIII.02	60	368	428	0	989	952	1941	0	1513	0	1513	0	0	0	0	0
IX.02	138	257	395	0	649	1185	1834	0	1439	0	1439	0	0	0	0	0
X.02	273	134	407	0	395	1271	1666	0	1259	0	1259	0	0	0	0	0
XI.02	181	257	438	0	596	1210	1806	0	1368	0	1368	0	0	0	0	0
XII.02	289	102	391	0	601	1223	1824	0	1433	0	1433	0	0	0	0	0
2002	3037	1450	4487	0	6818	14037	20855	0	16368	0	16368	0	0	0	0	0
I.03	406	91	497	0	448	1453	1901	0	1404	0	1404	0	0	0	0	0
II.03	249	101	350	0	496	899	1395	0	1045	0	1045	0	0	0	0	0
III.03	301	13	314	0	462	1178	1640	0	1326	0	1326	0	0	0	0	0
IV.03	269	20	289	0	408	1235	1643	0	1354	0	1354	0	0	0	0	0
V.03	239	16	255	0	443	1308	1751	0	1496	0	1496	0	0	0	0	0
VI.03	167	63	230	0	742	1056	1798	0	1568	0	1568	0	0	0	0	0
VII.03	133	174	307	0	685	698	1383	0	1076	0	1076	0	0	0	0	0
VIII.03	104	66	170	0	702	856	1558	0	1388	0	1388	0	0	0	0	0
IX.03	198	32	230	0	508	1048	1556	0	1326	0	1326	0	0	0	0	0
X.03	435	4	439	0	226	1836	2062	0	1623	0	1623	0	0	0	0	0
XI.03	302	3	305	0	358	1652	2010	0	1705	0	1705	0	0	0	0	0
XII.03	409	18	427	0	301	1819	2120	0	1693	0	1693	0	0	0	0	0
2003	3212	601	3813	0	5779	15038	20817	0	17004	0	17004	0	0	0	0	0

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

THE NETHERLANDS

Monthly values / Operation

I-XII

			1998	I-XII
Thermal conventional net production	GWh	Σ	1998	57425
			2002	88688
			2003	88782
Thermal nuclear net production	GWh	Σ	1998	3592
			2002	3687
			2003	3787
Hydraulic net production	GWh	Σ	1998	0
			2002	0
			2003	0
Total net electrical energy production	GWh	Σ	1998 ²	61017
			2002 ²	92375
			2003 ²	92569
Total physical import / export balance ¹	GWh	Σ	1998	12036
			2002	16382
			2003	16995
Consumption of pumps	GWh	Σ	1998	0
			2002	0
			2003	0
National electrical consumption	GWh	Σ	1998	73053
			2002	108757
			2003	109564
National electrical consumption as percentage of total values	%Ø pond.		1998	77
			2002	100
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	-
			2002	-
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	6320
			2002	7853
			2003	7935
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	11434
			2002	14129
			2003	13439
Peak load on the 3 rd Wednesday	MW max.		1998	11812
			2002	14925
			2003	13941
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	9888
			2002	11761
			2003	11683

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

THE NETHERLANDS

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
5157	4593	4863	4539	4600	4718	4628	4392	4836	4906	5092	5101
8368	7138	7600	7113	6873	6745	6862	7005	7234	7905	7738	8107
8344	7645	7734	7008	6917	6678	7331	7041	7307	7456	7456	7865
315	305	337	323	321	94	238	335	325	338	327	334
335	304	337	325	335	324	333	320	185	225	326	338
338	306	338	326	336	323	332	330	195	334	326	303
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
5472	4898	5200	4862	4921	4812	4866	4727	5161	5244	5419	5435
8703	7442	7937	7438	7208	7069	7195	7325	7419	8130	8064	8445
8682	7951	8072	7334	7253	7001	7663	7371	7502	7790	7782	8168
1068	917	990	953	934	1103	1114	1093	1014	1066	916	868
1031	1281	1382	1186	1492	1486	1496	1512	1439	1276	1369	1432
1404	1045	1326	1355	1497	1568	1067	1388	1326	1621	1705	1693
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
6540	5815	6190	5815	5855	5915	5980	5820	6175	6310	6335	6303
9734	8723	9319	8624	8700	8555	8691	8837	8858	9406	9433	9877
10086	8996	9398	8689	8750	8569	8730	8759	8828	9411	9487	9861
78	77	75	76	77	79	78	78	79	74	75	73
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
5640	5585	5905	5822	6047	5892	6019	6113	6320	5780	5971	5899
7236	6979	7257	7085	7050	7530	7427	7812	7398	7002	7622	7853
7935	7498	7335	7399	7146	7829	7732	7584	7754	7404	7501	7380
11306	10670	11055	11301	10727	10791	10933	10570	10983	11232	11434	11287
13138	12563	12396	12542	12274	12530	12176	12538	12456	12414	12854	14129
13439	13018	12601	12669	12195	12574	12444	12627	12813	12373	13043	12840
11389	10769	11083	11322	10736	10920	11032	10648	11041	11232	11812	11811
13622	12806	12545	12696	12443	12587	12285	12589	12478	12478	13847	14925
13766	13246	12713	12800	12269	12708	12541	12782	12990	12384	13580	13941
8972	8290	8366	9296	8524	8273	8831	8326	9212	8829	9787	9888
10999	9781	9543	10370	9305	10408	10041	10309	10147	10316	10475	11761
11037	11683	10283	9816	9657	10018	10906	9655	10555	9331	10461	9709

AUSTRIA

Monthly values / Operation

			I-XII	
Thermal conventional net production	GWh	Σ	1998	12411
			2002	16074
			2003	17832
Thermal nuclear net production	GWh	Σ	1998	0
			2002	0
			2003	0
Hydraulic net production	GWh	Σ	1998	35967
			2002	35134
			2003	30708
Total net electrical energy production	GWh	Σ	1998	48378
			2002	51208
			2003	48540
Total physical import / export balance ¹	GWh	Σ	1998	-289
			2002	452
			2003	5647
Consumption of pumps	GWh	Σ	1998	1574
			2002	981
			2003	2913
National electrical consumption	GWh	Σ	1998	46515
			2002	50679
			2003	51274
National electrical consumption as percentage of total values	%Ø pond.		1998	83
			2002	90
			2003	90
Energy capability factor (hydro power)	Ø pond.		1998	1,02
			2002	-
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	5121
			2002	6417
			2003	6481
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	7292
			2002	8219
			2003	8316
Peak load on the 3 rd Wednesday	MW max.		1998	7427
			2002	8589
			2003	8546
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	8442
			2002	7824
			2003	9131

¹ Terminology 2.15, see also note Physical energy exchange in interconnected operation

Monthly values / Operation

AUSTRIA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1873	1866	1632	771	389	299	342	535	664	888	1344	1808
2641	1876	1803	1262	505	421	483	421	1182	1505	2117	1858
1966	2241	1917	1298	467	468	942	1132	1321	1880	2085	2115
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
2265	1757	2325	2789	3296	3709	3918	3284	3431	3304	3157	2732
2491	2491	2719	2786	3313	3163	2965	3058	2654	3192	3112	3190
3106	2316	2411	2447	3505	3353	2868	2303	2144	2552	1906	1797
4138	3623	3957	3560	3685	4008	4260	3819	4095	4192	4501	4540
5132	4367	4522	4048	3818	3584	3448	3479	3836	4697	5229	5048
5072	4557	4328	3745	3972	3821	3810	3435	3465	4432	3991	3912
321	369	331	247	-41	-387	-486	-227	-199	-122	-191	96
237	-102	-190	81	-58	236	517	263	240	-162	-369	-241
53	228	518	549	71	160	419	774	750	264	704	1157
49	32	51	96	147	214	286	192	249	135	64	59
84	49	31	100	115	122	77	103	104	93	40	63
174	139	226	210	306	276	283	361	232	215	244	247
4410	3960	4237	3711	3497	3407	3488	3400	3647	3935	4246	4577
5285	4216	4301	4029	3645	3698	3888	3639	3972	4442	4820	4744
4951	4646	4620	4084	3737	3705	3946	3848	3983	4481	4451	4822
85	85	84	83	82	82	82	82	84	83	84	85
90	90	90	90	90	90	90	90	90	90	90	90
90	90	90	90	90	90	90	90	90	90	90	90
0,92	0,76	0,95	0,94	0,86	0,92	1,02	0,88	1,24	1,38	1,41	1,16
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
5121	4535	4532	4307	3730	3527	3467	3557	3816	4283	4918	5047
6417	5433	5095	5104	4424	4686	4510	4281	4698	4962	6015	6283
6481	6414	5562	5086	4637	4809	4754	4468	4619	5094	5455	6156
7292	6785	6921	6749	6117	6184	6083	6304	6483	7000	7081	7279
8219	7676	7414	7137	6652	7101	6824	6793	6916	7358	7769	7918
8301	8316	7538	7174	7004	7256	6956	6870	6828	7331	7757	8263
7427	6842	6939	6837	6203	6247	6184	6399	6517	7000	7396	7388
8290	7965	7714	7601	7122	7244	7126	7227	7553	7744	8584	8589
8337	8415	7606	7299	7179	7406	7133	7069	6942	7434	8030	8546
7684	6739	7657	8121	6910	8371	8442	7850	7906	7506	8173	7427
7188	6384	7824	6690	6831	6955	5959	6180	6735	6924	6640	6426
7260	9131	8515	6403	6199	7130	7923	7233	7402	8675	7467	8503

Physical exchanges in interconnected operation ¹

MM_YY	Export (°)										Import (°)							Balance	
	A→CH	A→CZ	A→D	A→H	A→I	A→SLO	A_UCTE_EXP	A_III_EXP	CH→A	CZ→A	D→A	H→A	I→A	SLO→A	A_UCTE_IMP	A_III_IMP	A_UCTE_SLD	A_III_SLD	
I.98	232	1	267	23	133	93	725	24	16	255	727	58	0	3	746	313	21	289	
II.98	151	26	219	23	103	112	585	49	28	211	692	46	0	0	720	257	135	208	
III.98	164	4	244	5	123	152	683	9	35	229	676	98	0	0	711	327	28	318	
IV.98	282	2	194	2	139	175	790	4	5	211	730	122	0	0	735	333	-55	329	
V.98	216	0	240	7	136	242	834	7	17	259	454	95	0	0	471	354	-363	347	
VI.98	161	5	421	10	146	216	944	15	43	188	293	52	0	0	336	240	-608	225	
VII.98	195	3	428	6	166	268	1057	9	27	222	335	77	0	4	366	299	-691	290	
VIII.98	331	5	398	7	115	175	1019	12	5	281	438	75	0	15	458	356	-561	344	
IX.98	270	7	410	2	130	172	982	9	8	172	404	220	0	1	413	392	-569	383	
X.98	252	3	426	11	142	87	907	14	15	263	387	126	0	10	412	389	-495	375	
XI.98	364	9	400	9	147	119	1030	18	3	186	436	121	0	13	452	307	-578	289	
XII.98	437	2	307	1	152	246	1142	3	1	273	593	185	0	0	594	458	-548	455	
1998	3055	67	3954	106	1632	2057	10698	173	203	2750	6165	1275	0	46	6414	4025	-4284	3852	
I.02	509	0	225	17	167	285	1203	0	11	605	1275	54	0	4	1949	0	746	0	
II.02	476	0	291	25	138	278	1208	0	22	497	1003	29	0	2	1553	0	345	0	
III.02	422	0	332	56	154	295	1259	0	1	508	773	18	0	101	1401	0	142	0	
IV.02	454	0	267	26	159	245	1151	0	4	478	810	38	0	14	1344	0	193	0	
V.02	310	0	356	73	162	342	1243	0	15	488	539	20	0	2	1064	0	-179	0	
VI.02	208	0	376	50	147	270	1051	0	15	514	503	60	0	0	1092	0	41	0	
VII.02	142	0	355	49	159	341	1046	0	81	727	556	98	0	0	1462	0	416	0	
VIII.02	255	0	421	36	70	316	1098	0	52	516	476	122	0	0	1166	0	68	0	
IX.02	394	0	294	62	152	182	1084	0	17	485	689	67	0	28	1286	0	202	0	
X.02	360	0	401	41	171	258	1231	0	23	425	682	104	0	2	1236	0	5	0	
XI.02	214	1	526	37	160	212	1150	0	24	330	411	134	0	16	915	0	-235	0	
XII.02	432	2	426	20	149	222	1251	0	18	368	741	124	0	16	1267	0	16	0	
2002	4176	3	4270	492	1788	3246	13975	0	283	5941	8458	868	0	185	15735	0	1760	0	
I.03	453	1	431	21	150	231	1287	0	8	452	832	79	0	20	1391	0	104	0	
II.03	330	0	297	27	132	197	983	0	11	391	706	21	0	32	1161	0	178	0	
III.03	376	1	265	35	141	240	1058	0	27	489	1047	25	0	34	1622	0	564	0	
IV.03	431	0	191	11	145	272	1050	0	6	636	934	81	0	5	1662	0	612	0	
V.03	220	0	391	23	151	344	1129	0	46	622	466	97	0	0	1231	0	102	0	
VI.03	226	0	383	17	137	392	1155	0	78	692	515	68	0	0	1353	0	198	0	
VII.03	171	0	352	16	138	323	1000	0	90	742	560	67	0	9	1468	0	468	0	
VIII.03	287	0	223	21	74	219	824	0	37	694	833	64	0	26	1654	0	830	0	
IX.03	421	0	147	55	157	180	960	0	22	723	980	11	0	28	1764	0	804	0	
X.03	469	0	237	192	157	299	1354	0	10	738	914	6	0	3	1671	0	317	0	
XI.03	273	0	221	38	138	184	854	0	21	649	870	43	0	31	1614	0	760	0	
XII.03	405	0	195	12	144	185	941	0	15	800	1249	76	0	11	2151	0	1210	0	
2003	4062	2	3333	468	1664	3066	12595	0	371	7628	9906	638	0	199	18742	0	6147	0	

¹These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

PORTUGAL | GWh

Physical exchanges in interconnected operation ¹

MM_YY	P → E		E → P		P_III_EXP		P_III_IMP		P_III_SLD	
	P → E	Export (-)	F → P	Import (+)	P_III_EXP	P_III_IMP	P_III_SLD	P_III_SLD	P_III_SLD	P_III_SLD
		Export (-)		Import (+)						Balance
I.98	279	279	275	275	0	0	0	0	0	-4
II.98	230	230	212	212	0	0	0	0	0	-18
III.98	251	251	242	242	0	0	0	0	0	-9
IV.98	266	266	265	265	0	0	0	0	0	-1
V.98	348	348	343	343	0	0	0	0	0	-5
VI.98	284	284	277	277	0	0	0	0	0	-7
VII.98	381	381	365	365	0	0	0	0	0	-16
VIII.98	313	313	301	301	0	0	0	0	0	-12
IX.98	278	278	425	425	0	0	0	0	0	147
X.98	366	366	359	359	0	0	0	0	0	-7
XI.98	379	379	372	372	0	0	0	0	0	-7
XII.98	344	344	453	453	0	0	0	0	0	109
1998	3719	3719	3889	3889	0	0	0	0	0	170
I.02	328	328	349	349	0	0	0	0	0	21
II.02	338	338	352	352	0	0	0	0	0	14
III.02	388	388	356	356	0	0	0	0	0	-32
IV.02	410	410	362	362	0	0	0	0	0	-48
V.02	292	292	462	462	0	0	0	0	0	170
VI.02	293	293	366	366	0	0	0	0	0	73
VII.02	314	314	399	399	0	0	0	0	0	85
VIII.02	171	171	500	500	0	0	0	0	0	329
IX.02	218	218	440	440	0	0	0	0	0	222
X.02	191	191	484	484	0	0	0	0	0	293
XI.02	236	236	525	525	0	0	0	0	0	289
XII.02	250	250	613	613	0	0	0	0	0	363
2002	3429	3429	5208	5208	0	0	0	0	0	1779
I.03	362	362	443	443	0	0	0	0	0	81
II.03	297	297	388	388	0	0	0	0	0	91
III.03	279	279	383	383	0	0	0	0	0	104
IV.03	250	250	418	418	0	0	0	0	0	168
V.03	317	317	586	586	0	0	0	0	0	269
VI.03	308	308	470	470	0	0	0	0	0	162
VII.03	274	274	590	590	0	0	0	0	0	316
VIII.03	151	151	565	565	0	0	0	0	0	414
IX.03	203	203	544	544	0	0	0	0	0	341
X.03	171	171	523	523	0	0	0	0	0	352
XI.03	214	214	405	405	0	0	0	0	0	191
XII.03	281	281	455	455	0	0	0	0	0	174
2003	3107	3107	5770	5770	0	0	0	0	0	2663

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

PORTUGAL

Monthly values / Operation

			I-XII	
			1998	2002
Thermal conventional net production	GWh	Σ	20806	31132
			2002	31132
			2003	24598
Thermal nuclear net production	GWh	Σ	0	0
			2002	0
			2003	0
Hydraulic net production	GWh	Σ	12833	8315
			2002	8315
			2003	16169
Total net electrical energy production	GWh	Σ	1998 ²	33639
			2002 ²	39447
			2003 ²	40767
Total physical import / export balance ¹	GWh	Σ	1998	276
			2002	1901
			2003	2797
Consumption of pumps	GWh	Σ	1998	101
			2002	671
			2003	486
National electrical consumption	GWh	Σ	1998	33814
			2002	40677
			2003	43078
National electrical consumption as percentage of total values	%Ø pond.		1998	92
			2002	91
			2003	92
Energy capability factor (hydro power)	Ø pond.		1998	1,04
			2002	0,75
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	2996
			2002	3584
			2003	4483
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	5283
			2002	6118
			2003	7163
Peak load on the 3 rd Wednesday	MW max.		1998	5713
			2002	6485
			2003	8046
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	4900
			2002	6067
			2003	7100

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

PORTUGAL

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
698	941	1737	1302	1398	1391	2316	2118	1878	2251	2172	2604
3196	2737	2667	2621	2676	2687	3085	2578	2746	2751	2110	1278
1341	1614	1488	1447	1927	2595	2773	2608	2598	2462	2002	1743
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
2333	1679	1054	1378	1295	1305	666	556	783	580	690	514
668	532	850	662	445	487	398	252	324	475	1130	2092
2607	1903	1957	1674	1246	668	619	422	588	865	1529	2091
3031	2620	2791	2680	2693	2696	2982	2674	2661	2831	2862	3118
3864	3269	3517	3283	3121	3174	3483	2830	3070	3226	3240	3370
3948	3517	3445	3121	3173	3263	3392	3030	3186	3327	3531	3834
6	-6	-3	1	-9	8	0	0	157	1	3	118
33	24	-21	-39	179	84	96	339	231	302	298	375
95	102	115	178	279	174	329	424	351	362	202	186
13	6	0	4	0	0	3	1	16	2	2	54
86	64	37	29	46	58	78	66	49	57	50	51
12	38	39	29	36	57	65	62	33	51	45	19
3024	2608	2788	2677	2684	2704	2979	2673	2802	2830	2863	3182
3811	3229	3459	3215	3254	3200	3501	3103	3252	3471	3488	3694
4031	3581	3521	3270	3416	3380	3656	3392	3504	3638	3688	4001
92	92	92	92	92	92	92	92	92	92	92	92
91	91	91	91	91	91	91	91	91	91	91	91
92	92	92	92	92	92	92	92	92	92	92	92
1,56	1,07	0,65	1,53	1,30	1,87	1,23	1,10	1,34	0,59	0,51	0,26
0,39	0,40	0,73	0,56	0,43	0,58	0,22	0,36	0,75	1,02	1,31	1,78
-	-	-	-	-	-	-	-	-	-	-	-
2554	2579	2610	2532	2629	2771	2937	2482	2828	2663	2743	2996
3564	3453	3142	3257	3224	3447	3584	3167	3297	3230	3248	3365
4483	4176	3791	3769	3758	3999	3949	3637	3946	3828	4020	4461
4920	4620	4538	4789	4607	4692	4971	3950	4847	4700	4861	5283
6118	5785	5452	5375	5357	5549	5930	4753	5475	5423	5760	5684
7163	6773	5814	5734	5804	6082	5833	4939	5988	5810	6013	6753
5113	4831	4759	4867	4683	4845	5063	4057	4938	4918	5238	5713
6485	6170	5676	5428	5473	5659	6133	4864	5595	5594	6290	6196
8046	7373	6298	5900	6085	6453	6048	5283	6355	6258	6803	7534
4900	4599	4474	4618	4583	4626	4867	3808	4230	4706	4815	4635
6067	5563	5732	5615	5048	5253	5587	4349	5141	5034	5199	5372
7100	6954	5064	4999	5123	6008	5563	4061	5225	5516	5553	6159

SWITZERLAND

Monthly values / Operation

			I-XII	
			1998	
Thermal conventional net production	GWh	Σ	1998	2285
			2002	2585
			2003	2890
Thermal nuclear net production	GWh	Σ	1998	24368
			2002	25691
			2003	25931
Hydraulic net production	GWh	Σ	1998	34295
			2002	36589
			2003	36445
Total net electrical energy production	GWh	Σ	1998	60948
			2002 ²	64865
			2003 ²	65266
Total physical import / export balance ¹	GWh	Σ	1998	-5954
			2002	-3965
			2003	-3112
Consumption of pumps	GWh	Σ	1998	1620
			2002	2447
			2003	2893
National electrical consumption	GWh	Σ	1998	53374
			2002	58453
			2003	59261
National electrical consumption as percentage of total values	%Ø pond.		1998	100
			2002	100
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	1,04
			2002	1,05
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	6537
			2002	7498
			2003	7786
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	8637
			2002	9197
			2003	9468
Peak load on the 3 rd Wednesday	MW max.		1998	8793
			2002	9464
			2003	9494
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	10374
			2002	11868
			2003	11830

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

SWITZERLAND

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
208	255	267	235	138	131	123	135	161	219	201	212
248	234	235	213	210	200	198	213	164	205	226	239
275	255	262	245	227	226	241	224	228	218	242	247
2285	2062	2269	1978	2035	1613	1779	1312	2165	2269	2261	2340
2384	2143	2377	2232	2256	1658	1809	1439	2277	2394	2309	2413
2390	2167	2392	2313	2269	1647	2190	1193	2251	2400	2327	2392
2383	2240	2343	2344	2995	3851	3672	3376	3110	2458	2867	2656
2360	1915	2250	2355	3500	4240	4285	3886	3136	2490	3190	2982
3195	3028	2388	2376	3682	4312	4079	3986	2632	2605	2080	2082
4876	4557	4879	4557	5168	5595	5574	4823	5436	4946	5329	5208
4992	4292	4862	4800	5966	6098	6292	5538	5577	5089	5725	5634
5860	5450	5042	4934	6178	6185	6510	5403	5111	5223	4649	4721
265	75	-33	-199	-977	-1311	-1408	-617	-1044	-366	-317	-22
860	770	410	90	-1135	-1345	-1640	-915	-745	110	-395	-30
-3	70	394	-1	-1413	-1300	-1760	-607	-300	42	735	1031
35	24	24	69	153	304	299	313	190	108	57	44
104	85	120	128	220	373	310	274	271	180	184	198
135	139	219	204	306	383	317	361	257	159	184	229
5106	4608	4822	4289	4038	3980	3867	3893	4202	4472	4955	5142
5748	4977	5152	4762	4611	4380	4342	4349	4561	5019	5146	5406
5722	5381	5217	4729	4459	4502	4433	4435	4554	5106	5200	5523
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
1,19	0,90	0,94	1,06	1,03	1,11	0,91	1,00	1,09	1,11	1,19	1,05
0,78	1,02	1,11	1,02	1,10	1,15	0,94	0,93	0,92	0,91	1,80	1,39
-	-	-	-	-	-	-	-	-	-	-	-
6499	6128	5890	5937	4638	4768	4421	4607	4824	5613	6537	6429
7498	6715	5643	6014	5169	5257	5067	5125	5081	5147	6192	6676
7228	7786	6478	5521	5277	5496	5155	4974	5203	5662	6174	7344
8637	8185	7790	7935	7033	7404	7157	7520	7498	7915	8410	8306
9197	8844	8312	8285	7759	8052	7982	7994	8079	8162	8642	8848
9209	9468	8290	8190	8278	8195	7780	7994	8105	8296	8803	9025
8793	8332	7976	8126	7238	7682	7297	7634	7701	8139	8650	8461
9464	9038	8420	8504	7942	8200	8050	8122	8289	8360	8741	9173
9369	9494	8290	8190	8278	8195	7780	7994	8105	8296	8803	9179
9434	10164	9594	10101	10125	10257	8491	9475	10144	8722	10374	8545
9491	10095	9661	10324	11135	11116	11868	11267	11679	9178	11328	11802
10992	11830	9557	9991	11740	11280	11495	10280	9933	9770	8807	9087

SWITZERLAND | GWh

Physical exchanges in interconnected operation ¹

MM_YY	Export (t)				Import (+)				Balance				
	CH→A	CH→D	CH→F	CH→I	A→CH	D→CH	F→CH	I→CH	CH_UCTE_EXP	CH_III_EXP			
I.98	16	418	51	1677	232	1105	1098	0	2162	0	2435	273	0
II.98	28	411	60	1476	151	932	987	0	1975	0	2070	95	0
III.98	35	411	50	1932	164	1153	1097	0	2428	0	2414	-14	0
IV.98	5	324	36	1944	282	1056	818	0	2309	0	2156	-153	0
V.98	17	520	12	2020	216	643	810	7	2569	0	1676	-893	0
VI.98	43	602	11	1843	161	474	616	1	2499	0	1252	-1247	0
VII.98	27	483	163	2046	195	676	513	1	2719	0	1385	-1334	0
VIII.98	5	490	240	1401	331	871	415	1	2136	0	1618	-518	0
IX.98	8	415	142	1950	270	749	536	0	2515	0	1555	-960	0
X.98	15	417	36	1672	252	756	804	0	2140	0	1812	-328	0
XI.98	3	408	83	1652	364	775	695	0	2146	0	1834	-312	0
XII.98	1	360	123	1854	437	1124	783	0	2338	0	2344	6	0
1998	203	5259	1007	21467	3055	10314	9172	10	27936	0	22551	-5385	0
I.02	11	133	234	2336	509	2016	1121	0	2714	0	3646	932	0
II.02	22	104	103	2128	476	1585	1134	1	2357	0	3196	839	0
III.02	1	192	21	2142	422	1188	1229	2	2356	0	2841	485	0
IV.02	4	270	20	2127	454	1055	1052	0	2421	0	2561	140	0
V.02	15	497	45	2198	310	592	775	1	2755	0	1678	-1077	0
VI.02	15	416	46	2149	208	540	594	1	2626	0	1343	-1283	0
VII.02	81	378	237	2382	142	760	625	2	3078	0	1529	-1549	0
VIII.02	52	423	116	1622	255	497	618	1	2213	0	1371	-842	0
IX.02	17	447	106	1975	394	692	769	0	2545	0	1855	-690	0
X.02	23	257	44	2082	360	1176	1019	2	2406	0	2557	151	0
XI.02	24	361	31	1803	214	723	897	10	2219	0	1844	-375	0
XII.02	18	358	91	2094	432	1035	1114	2	2561	0	2583	22	0
2002	283	3836	1094	25038	4176	11859	10947	22	30251	0	27004	-3247	0
I.03	8	273	118	2273	453	1132	1154	0	2672	0	2739	67	0
II.03	11	252	120	2111	330	1110	1167	1	2494	0	2608	114	0
III.03	27	283	46	2328	376	1426	1402	9	2684	0	3213	529	0
IV.03	6	324	71	2311	431	1322	1065	0	2712	0	2818	106	0
V.03	46	576	49	2046	220	456	796	1	2717	0	1473	-1244	0
VI.03	78	247	233	2209	226	787	605	0	2767	0	1618	-1149	0
VII.03	90	463	187	2467	171	758	631	2	3207	0	1562	-1645	0
VIII.03	37	191	249	1951	287	1045	598	1	2428	0	1931	-497	0
IX.03	22	178	91	2217	421	1086	776	0	2508	0	2283	-225	0
X.03	10	107	156	2202	469	1280	848	0	2475	0	2597	122	0
XI.03	21	109	51	1909	273	1394	1293	0	2090	0	2960	870	0
XII.03	15	125	92	1915	405	1552	1357	0	2147	0	3314	1167	0
2003	371	3128	1463	25939	4062	13348	11692	14	30901	0	29116	-1785	0

¹These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

MM_YY	Export (-)					Import (+)					Balance			
	CZ→A	CZ→D	CZ→PL	CZ→SK	CZ_UCTE_EXP	CZ_III_EXP	A→CZ	D→CZ	PL→CZ	SK→CZ	CZ_UCTE_IMP	CZ_III_IMP	CZ_UCTE_SLD	CZ_III_SLD
I.98	255	230	7	345	485	352	1	60	680	75	61	755	-424	403
II.98	211	253	10	410	464	420	26	51	673	55	77	728	-387	308
III.98	229	384	21	271	292	292	4	33	549	64	37	613	-576	321
IV.98	211	308	10	219	519	229	2	15	476	89	17	565	-502	336
V.98	259	289	10	322	548	332	0	28	557	69	28	626	-520	294
VI.98	188	323	0	236	511	236	5	11	420	84	16	504	-495	268
VII.98	222	342	3	329	564	332	3	38	512	72	41	584	-523	252
VIII.98	281	381	7	221	662	228	5	41	484	69	46	553	-616	325
IX.98	172	668	3	184	840	187	7	5	598	72	12	670	-828	483
X.98	263	589	7	138	852	145	3	5	654	93	8	747	-844	602
XI.98	186	547	18	169	733	187	9	10	695	103	19	798	-714	611
XII.98	273	488	10	245	761	255	2	39	780	93	41	873	-720	618
1998	2750	4802	106	3089	7552	3195	67	336	7078	938	403	8016	-7149	4821
I.02	605	728	1	365	1699	0	0	104	989	69	1162	0	-537	0
II.02	497	929	4	330	1760	0	0	9	756	28	793	0	-967	0
III.02	508	926	9	339	1782	0	0	0	741	34	775	0	-1007	0
IV.02	478	731	8	300	1517	0	0	0	611	35	646	0	-871	0
V.02	488	687	8	406	1589	0	0	1	570	22	593	0	-996	0
VI.02	514	582	6	379	1481	0	0	1	562	36	599	0	-882	0
VII.02	727	522	19	591	1859	0	0	75	548	48	671	0	-1188	0
VIII.02	516	784	11	467	1778	0	0	4	461	116	493	0	-1285	0
IX.02	485	1032	5	453	1975	0	0	0	732	40	772	0	-1203	0
X.02	425	1133	6	307	1871	0	0	0	861	116	977	0	-894	0
XI.02	330	1417	5	157	1909	0	1	0	753	220	974	0	-935	0
XII.02	368	1086	5	213	1672	0	2	0	858	181	1041	0	-631	0
2002	5941	10557	87	4307	20892	0	3	194	8442	857	9496	0	-11396	0
I.03	452	1231	5	308	1996	0	1	1	856	85	943	0	-1053	0
II.03	391	1008	4	318	1721	0	0	0	812	91	903	0	-818	0
III.03	489	1011	5	524	2029	0	1	2	803	20	826	0	-1203	0
IV.03	636	971	2	514	2123	0	0	4	790	41	835	0	-1288	0
V.03	622	1148	15	353	2138	0	0	0	541	36	577	0	-1561	0
VI.03	692	880	7	431	2010	0	0	0	535	36	571	0	-1439	0
VII.03	742	982	2	787	2513	0	0	3	797	42	842	0	-1671	0
VIII.03	694	867	2	539	2102	0	0	20	594	52	666	0	-1436	0
IX.03	723	1014	2	574	2313	0	0	0	820	1	821	0	-1492	0
X.03	738	1227	7	432	2404	0	0	1	960	25	986	0	-1418	0
XI.03	649	1312	4	489	2454	0	0	0	921	74	995	0	-1459	0
XII.03	800	1143	2	550	2495	0	0	21	1059	38	1118	0	-1377	0
2003	7628	12794	57	5819	26298	0	2	52	9488	541	10083	0	-16215	0

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

CZECH REPUBLIC

Monthly values / Operation

			I-XII	
			1998	2002
Thermal conventional net production	GWh	Σ	45847	49978
			2002	50509
			2003	
Thermal nuclear net production	GWh	Σ	12352	17584
			2002	24368
			2003	
Hydraulic net production	GWh	Σ	2065	2834
			2002	1787
			2003	
Total net electrical energy production	GWh	Σ	1998 ²	60264
			2002 ²	70396
			2003 ²	76664
Total physical import / export balance ¹	GWh	Σ	1998	-2461
			2002	-11393
			2003	-16218
Consumption of pumps	GWh	Σ	1998	654
			2002	481
			2003	553
National electrical consumption	GWh	Σ	1998	57149
			2002	58522
			2003	59893
National electrical consumption as percentage of total values	%Ø pond.		1998	100
			2002	100
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	-
			2002	-
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	8155
			2003	8344
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	9103
			2003	9412
Peak load on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	9763
			2003	9748
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	9359
			2002	10869
			2003	11444

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

CZECH REPUBLIC

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
4384	4063	4347	3815	3401	3335	3190	3100	3635	3990	4206	4381
4436	4326	4770	4578	3688	3374	3472	3596	3725	4399	4552	5062
4947	4757	5118	4462	3549	3347	3273	3866	3653	4475	4622	4440
1223	1117	1229	783	928	772	903	1018	910	1089	1133	1247
1857	1436	1248	859	1462	1480	1670	1541	1728	1520	1545	1238
1964	1524	1406	1635	2242	2209	2493	1717	2192	2198	2200	2588
171	137	173	164	132	131	154	146	178	181	296	202
268	297	383	264	193	147	166	288	174	196	242	216
258	196	224	163	156	94	106	116	104	117	115	138
5778	5317	5749	4762	4461	4238	4247	4264	4723	5260	5635	5830
6561	6059	6401	5701	5343	5001	5308	5425	5627	6115	6339	6516
7169	6477	6748	6260	5947	5650	5872	5699	5949	6790	6937	7166
-22	-129	-254	-164	-224	-226	-364	-292	-343	-237	-104	-102
-538	-967	-1007	-871	-996	-878	-1188	-1285	-1203	-894	-935	-631
-1054	-818	-1203	-1287	-1561	-1440	-1672	-1437	-1492	-1417	-1459	-1378
46	23	29	30	49	72	74	80	78	76	45	52
39	25	33	31	35	31	44	63	42	39	46	53
49	42	48	46	37	23	29	52	51	53	56	67
5710	5165	5466	4568	4188	3940	3809	3892	4302	4947	5486	5676
5984	5067	5361	4799	4312	4092	4076	4077	4382	5182	5358	5832
6066	5617	5497	4927	4349	4187	4171	4210	4406	5320	5422	5721
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
8155	7040	6642	6715	5581	5400	5188	5127	5591	6339	6642	7751
7941	8344	7152	6585	5698	5483	5417	5345	5623	6529	7091	7653
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
9086	8435	7961	7536	6836	6813	6687	6653	7122	8010	8239	9103
9229	9412	7937	7550	7167	6997	7032	6894	7217	7827	8544	8935
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
9407	8677	8245	7741	6987	6977	6835	6856	7320	8165	9161	9763
9748	9646	8564	7690	7271	7115	7032	7067	7275	8349	9247	9584
9359	8857	9258	7875	7565	7423	7181	7840	8614	8251	8937	9124
10623	10869	10122	8730	8834	8805	8786	8820	9430	9644	10511	10090
11043	10632	10059	9777	9410	9407	9318	8587	9256	10056	10954	11444

HUNGARY

Monthly values / Operation

			I-XII	
			1998	2002
Thermal conventional net production	GWh	Σ	1998	20897
			2002	19619
			2003	20956
Thermal nuclear net production	GWh	Σ	1998	13122
			2002	13124
			2003	10362
Hydraulic net production	GWh	Σ	1998	150
			2002	189
			2003	162
Total net electrical energy production	GWh	Σ	1998 ²	34169
			2002 ²	32932
			2003 ²	31480
Total physical import / export balance ¹	GWh	Σ	1998	741
			2002	4258
			2003	6938
Consumption of pumps	GWh	Σ	1998	0
			2002	0
			2003	0
National electrical consumption	GWh	Σ	1998	34910
			2002	37190
			2003	38418
National electrical consumption as percentage of total values	%Ø pond.		1998	100
			2002	100
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	-
			2002	-
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	4402
			2003	4373
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	5697
			2003	5477
Peak load on the 3 rd Wednesday	MW max.		1998	5585
			2002	5875
			2003	5887
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	5496
			2002	5179
			2003	5012

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

HUNGARY

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1827	1674	2059	1855	1551	1524	1641	1519	1540	1667	1973	2067
1882	1639	1767	1695	1516	1549	1507	1346	1482	1597	1760	1879
2024	1904	1665	1653	1627	1698	1797	1809	1580	1815	1609	1775
1262	1150	1016	816	947	910	890	1040	1239	1295	1258	1299
1308	1179	1117	882	925	931	912	1073	1024	1276	1238	1259
1237	928	1201	898	757	747	622	581	725	738	944	984
13	15	16	8	14	15	4	19	20	8	3	15
17	2	5	22	23	20	17	20	14	20	10	19
10	14	14	15	20	11	12	10	8	15	15	18
3102	2839	3091	2679	2512	2449	2535	2578	2799	2970	3234	3381
3207	2820	2889	2599	2464	2500	2436	2439	2520	2893	3008	3157
3271	2846	2880	2566	2404	2456	2431	2400	2313	2568	2568	2777
127	66	61	98	177	136	153	36	-50	20	-8	-75
270	229	311	376	415	390	590	446	467	344	221	199
235	395	466	484	594	597	668	719	698	735	744	603
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
3229	2905	3152	2777	2689	2585	2688	2614	2749	2990	3226	3306
3477	3049	3200	2975	2879	2890	3026	2885	2987	3237	3229	3356
3506	3241	3346	3050	2998	3053	3099	3119	3011	3303	3312	3380
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4402	4024	3853	3757	3508	3694	3725	2900	3634	3801	3759	4162
4357	4373	4042	3815	3553	3699	3623	3615	3676	4011	4142	4253
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5697	5232	5015	4813	4724	5050	5065	4573	4825	5198	5132	5355
5442	5477	5122	4907	4929	5079	5074	4004	4994	5135	5248	5337
5451	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	5585
5875	5536	5618	5083	4819	5094	5110	4648	5248	5477	5581	5826
5852	5846	5585	5122	4962	5221	5296	4340	5283	5595	5887	5862
5026	4618	4731	4167	4176	4250	4442	4404	4765	4776	5211	5496
5179	4777	4453	4052	4034	4222	4139	3872	4112	4621	4639	5050
5012	5012	4346	4143	3901	4094	4145	3198	3751	4001	4019	4285

HUNGARY

Physical exchanges in interconnected operation ¹

MM_YY	Export (-)										Import (+)										Balance	
	H→A	H→HR	H→SCG	H→SK	H→WEST_UA	H→RO	H_UCTE_EXP	H_III_EXP	A→H	HR→H	SCG→H	SK→H	RO→H	WEST_UA→H	H_UCTE_IMP	H_III_IMP	H_UCTE_SLD	H_III_SLD				
I.98	58	23	120	1	0	0	201	1	23	0	184	0	0	23	184	-178	183					
II.98	46	19	105	3	0	0	170	3	23	0	129	0	0	23	129	-147	126					
III.98	98	14	32	42	0	0	144	42	5	0	158	0	0	5	158	-139	116					
IV.98	122	22	9	8	0	0	153	8	2	0	165	0	0	2	165	-151	157					
V.98	95	60	0	6	0	0	155	6	7	0	180	0	0	7	180	-148	174					
VI.98	52	33	7	7	0	0	129	7	10	0	166	0	0	10	166	-82	159					
VII.98	77	39	13	3	0	0	136	3	6	0	204	0	0	6	204	-123	201					
VIII.98	75	36	25	6	0	0	117	6	7	0	117	0	0	7	117	-129	111					
IX.98	220	32	69	2	0	0	321	2	2	0	175	0	0	2	175	-319	173					
X.98	126	45	82	4	0	0	253	4	11	0	226	0	0	11	226	-242	222					
XI.98	121	35	106	1	0	0	262	1	9	0	214	0	0	9	214	-253	213					
XII.98	185	58	123	0	0	0	366	0	1	0	225	0	0	1	225	-365	225					
1998	1275	416	691	83	0	0	2382	83	106	0	2143	0	0	106	2143	-2276	2060					
I.02	54	690	201	0	0	0	945	0	17	0	958	0	240	975	240	30	240					
II.02	29	639	187	0	0	0	855	0	25	0	860	0	199	885	199	30	199					
III.02	18	533	189	0	0	18	740	18	56	0	772	0	241	828	241	88	223					
IV.02	38	441	134	0	0	25	613	25	26	0	780	0	208	806	208	193	183					
V.02	20	370	141	0	0	24	531	24	73	0	831	0	66	904	66	373	42					
VI.02	60	281	114	0	0	12	455	12	50	0	668	0	139	718	139	263	127					
VII.02	98	384	146	0	0	24	628	24	49	0	851	0	342	900	342	272	318					
VIII.02	122	259	153	0	6	23	534	29	36	1	740	0	232	777	232	243	203					
IX.02	67	366	143	0	0	24	576	24	62	0	716	0	289	778	289	202	265					
X.02	104	506	141	0	4	27	751	31	41	0	734	0	351	775	351	24	320					
XI.02	134	413	193	0	7	3	740	10	37	0	619	0	315	656	315	-84	305					
XII.02	124	442	205	0	3	10	771	13	20	0	636	0	327	656	327	-115	314					
2002	868	5324	1947	0	20	190	8139	210	492	1	9165	0	2949	9658	2949	1519	2739					
I.03	79	533	177	0	3	31	820	3	21	0	697	0	340	718	340	-102	337					
II.03	21	467	183	0	1	30	701	1	27	0	716	0	354	743	354	42	353					
III.03	25	534	77	0	2	29	665	2	35	0	745	0	353	780	353	115	351					
IV.03	81	513	12	0	1	26	632	1	11	0	741	0	364	752	364	120	363					
V.03	97	463	0	0	2	0	560	2	23	0	766	0	367	789	367	229	365					
VI.03	68	435	0	0	3	0	503	3	17	1	763	0	322	781	322	278	319					
VII.03	67	414	0	0	7	0	481	7	16	0	843	0	296	859	296	378	289					
VIII.03	64	424	7	0	0	0	495	4	21	0	726	0	467	747	467	252	467					
IX.03	11	458	6	0	4	0	475	4	55	0	772	0	350	827	350	352	346					
X.03	6	533	0	0	0	0	539	0	192	0	613	0	469	805	469	266	469					
XI.03	43	502	0	0	0	0	545	0	38	0	804	0	449	842	449	297	449					
XII.03	76	566	60	0	0	0	702	0	12	0	862	0	430	874	430	172	430					
2003	638	5842	522	0	23	116	7118	23	468	1	9048	0	4561	9517	4561	2399	4538					

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

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Physical exchanges in interconnected operation ¹

Values as of 15.7.2004 / Edition September 2004

MM_YY	Export (-)										Import (+)										Balance	
	PL→D	PL→CZ	PL→SK	PL→S	PL→BY	PL→WEST_UA	PL_UCTE_EXP	PL_III_EXP	D→PL	CZ→PL	SK→PL	S→PL	BY→PL	WEST_UA→PL	PL_UCTE_IMP	PL_III_IMP	PL_UCTE_SLD	PL_III_SLD				
I.98	57	680	0	0	0	0	57	680	369	7	0	0	0	89	369	96	312	-584				
II.98	92	673	0	0	0	92	673	387	10	0	0	0	82	387	92	295	-581					
III.98	64	549	0	0	0	64	549	378	21	0	0	0	93	378	114	314	-435					
IV.98	23	476	0	0	0	23	476	293	10	0	0	0	55	293	65	270	-411					
V.98	20	557	0	0	0	20	557	287	10	0	0	0	57	287	67	267	-490					
VI.98	24	420	0	0	0	24	420	178	0	0	0	0	53	178	53	154	-367					
VII.98	12	512	0	0	0	12	512	233	3	0	0	0	55	233	58	221	-454					
VIII.98	5	484	11	0	0	5	495	268	7	0	0	0	60	268	67	263	-428					
IX.98	65	598	119	0	0	65	717	174	3	1	0	0	25	174	29	109	-688					
X.98	22	654	148	0	0	22	802	191	7	0	0	0	63	191	70	169	-732					
XI.98	46	695	106	0	0	46	801	146	18	1	0	0	81	146	100	100	-701					
XII.98	73	780	116	0	0	73	896	115	10	0	0	0	89	115	99	42	-797					
1998	503	7078	500	0	0	503	7578	3019	106	2	0	0	802	3019	910	2516	-6668					
I.02	49	989	237	0	0	49	1275	133	1	0	144	131	52	134	327	-1141	327					
II.02	48	756	201	0	0	48	1005	94	4	0	153	111	45	98	309	-907	309					
III.02	29	741	212	0	0	29	982	184	9	0	159	123	42	193	324	-789	324					
IV.02	23	611	178	0	0	23	812	185	8	0	47	71	39	193	157	-619	157					
V.02	27	570	145	0	0	27	742	162	8	0	66	42	38	170	146	-572	146					
VI.02	67	562	198	0	0	67	827	135	6	0	154	45	41	141	240	-686	240					
VII.02	4	548	308	0	0	4	860	320	19	0	142	43	39	339	224	-521	224					
VIII.02	70	461	150	0	0	70	681	137	11	0	133	41	58	148	232	-533	232					
IX.02	99	732	135	0	0	99	966	116	5	0	93	42	0	121	135	-845	135					
X.02	53	861	206	0	0	53	1120	140	6	0	32	57	45	146	134	-974	134					
XI.02	78	753	160	0	0	78	991	94	5	0	0	46	101	99	147	-892	147					
XII.02	58	858	163	196	0	58	1079	172	5	0	0	47	89	177	136	-902	-60					
2002	605	8442	2293	196	0	605	11340	1872	87	0	1123	799	589	1959	2511	-9381	2315					
I.03	34	856	247	311	0	34	1137	236	5	0	0	95	113	241	208	-896	-103					
II.03	43	812	153	284	0	43	1008	169	4	0	0	114	90	173	204	-835	-80					
III.03	47	803	129	255	0	47	979	196	5	0	0	112	77	201	189	-778	-66					
IV.03	17	790	231	240	0	17	1038	286	2	0	0	111	61	288	172	-750	-68					
V.03	16	541	175	153	0	16	732	179	15	0	0	110	69	194	179	-538	26					
VI.03	31	535	195	67	0	31	761	238	7	0	0	102	52	245	154	-516	87					
VII.03	31	797	140	129	0	31	968	227	2	0	7	72	91	229	170	-739	41					
VIII.03	8	594	259	261	0	8	861	246	2	0	0	84	50	248	134	-613	-127					
IX.03	7	820	252	152	0	7	1079	207	2	0	0	98	75	209	173	-870	21					
X.03	32	960	299	266	0	32	1291	189	7	0	0	99	76	196	175	-1095	-91					
XI.03	16	921	311	265	0	16	1248	191	4	0	0	114	68	195	182	-1053	-83					
XII.03	3	1059	338	259	0	3	1400	397	2	0	0	114	109	399	223	-1001	-36					
2003	285	9488	2729	2642	0	285	12502	2761	57	0	7	1225	931	2818	2163	-9684	-479					

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

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Monthly values / Operation

			I-XII	
Thermal conventional net production ³	GWh	Σ	1998	138421
			2002	139511
			2003	147605
Thermal nuclear net production ³	GWh	Σ	1998	0
			2002	0
			2003	0
Hydraulic net production ³	GWh	Σ	1998	4203
			2002	3722
			2003	3145
Total net electrical energy production ³	GWh	Σ	1998 ²	142624
			2002 ²	143233
			2003 ²	150750
Total physical import / export balance ¹	GWh	Σ	1998	-3474
			2002	-7072
			2003	-10160
Consumption of pumps	GWh	Σ	1998	2806
			2002	2247
			2003	2280
National electrical consumption	GWh	Σ	1998	136344
			2002	133914
			2003	138310
National electrical consumption as percentage of total values	%Ø pond.		1998	100
			2002	100
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	-
			2002	-
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	17628
			2003	17174
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	20847
			2003	20456
Peak load on the 3 rd Wednesday	MW max.		1998	21823
			2002	22627
			2003	22139
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	22104
			2002	22828
			2003	22285

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

³Gross values

Monthly values / Operation

POLAND

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
13266	11893	12501	10684	10092	9480	9842	9887	10806	12521	13305	14144
13781	11425	12126	10935	10089	9877	10097	10099	11075	12871	12704	14432
14338	12972	13054	11764	10685	10244	11060	11064	11417	13597	13395	14015
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0
409	363	400	364	354	341	330	253	296	364	372	357
329	391	416	346	277	305	243	253	254	302	337	269
308	259	342	356	304	236	210	223	193	222	233	259
13675	12256	12901	11048	10446	9821	10172	10140	11102	12885	13677	14501
14110	11816	12542	11281	10366	10182	10340	10352	11329	13173	13041	14701
14646	13231	13396	12120	10989	10480	11270	11287	11610	13819	13628	14274
-215	-235	-72	-77	-165	-157	-174	-116	-518	-505	-545	-695
-814	-599	-466	-463	-426	-447	-296	-301	-710	-841	-746	-963
-998	-915	-843	-823	-512	-428	-698	-739	-850	-1187	-1136	-1031
262	222	230	172	211	235	209	190	262	268	265	280
217	171	195	201	179	172	160	157	197	191	195	212
219	185	195	187	130	181	179	215	185	195	194	215
13198	11799	12599	10799	10070	9429	9789	9834	10322	12112	12867	13526
13079	11046	11881	10617	9761	9563	9884	9894	10422	12141	12100	13526
13429	12131	12358	11110	10347	9871	10393	10333	10575	12437	12298	13028
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
17524	15433	15129	14464	13129	13400	13165	12117	13809	15388	15862	17628
16804	17174	15789	14957	13177	13414	13269	13783	13817	15322	16394	16723
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
20462	18737	17740	16831	15445	15802	15462	15388	16718	18340	19105	20847
20301	20456	18353	17496	16821	16046	16217	16484	16858	18725	19663	20299
21183	20726	20481	18733	16012	15379	15266	16023	18211	20017	21823	21707
21738	20033	19432	18070	16030	16157	15898	16164	18329	19803	20913	22627
21394	21313	20028	18510	16833	16298	16435	16796	18387	20165	21307	22139
20639	20053	19252	17615	16476	15860	15961	12735	18346	19923	21528	22104
22462	20691	19504	18492	16857	17423	16753	16710	18607	20256	21101	22828
22283	22285	20274	19326	18011	17313	17844	18548	18670	20716	21654	22116

SLOVAK REPUBLIC

Monthly values / Operation

			I-XII	
			1998	
Thermal conventional net production	GWh	Σ	1998	9157
			2002	8730
			2003	8898
Thermal nuclear net production	GWh	Σ	1998	10491
			2002	16543
			2003	16466
Hydraulic net production	GWh	Σ	1998	4561
			2002	5300
			2003	3536
Total net electrical energy production	GWh	Σ	1998 ²	24209
			2002 ²	30573
			2003 ²	28900
Total physical import / export balance ¹	GWh	Σ	1998	2249
			2002	-4158
			2003	-2254
Consumption of pumps	GWh	Σ	1998	306
			2002	277
			2003	262
National electrical consumption	GWh	Σ	1998	26152
			2002	26138
			2003	26384
National electrical consumption as percentage of total values	%Ø pond.		1998	100
			2002	100
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	-
			2002	-
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	3543
			2003	3648
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	4025
			2003	4007
Peak load on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	4174
			2003	4194
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	3749
			2002	4586
			2003	4672

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

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I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
857	821	991	716	680	613	574	650	714	697	825	1019
942	745	776	784	664	620	567	483	575	793	831	950
899	879	883	755	614	542	592	649	540	796	843	906
1048	799	860	822	711	726	762	814	762	1022	1038	1127
1667	1356	1354	1303	1198	1044	1222	1238	1359	1597	1525	1680
1545	1604	1341	1148	1267	1248	1099	1278	1271	1404	1616	1645
375	299	389	399	376	355	362	248	337	476	561	384
405	506	523	437	399	414	369	457	331	416	575	468
500	329	389	355	410	330	246	171	178	265	179	184
2280	1919	2240	1937	1767	1694	1698	1712	1813	2195	2424	2530
3014	2607	2653	2524	2261	2078	2158	2178	2265	2806	2931	3098
2944	2812	2613	2258	2291	2120	1937	2098	1989	2465	2638	2735
314	419	282	170	227	177	178	128	101	54	77	122
-410	-337	-308	-417	-306	-162	-195	-245	-247	-455	-568	-508
-323	-437	-199	-138	-358	-222	22	-139	-13	-52	-231	-164
27	22	20	20	17	22	27	27	29	35	37	23
28	31	24	17	13	20	17	26	28	29	26	18
18	8	13	12	17	15	23	31	30	31	30	34
2567	2316	2502	2087	1977	1849	1849	1813	1885	2214	2464	2629
2576	2239	2321	2090	1942	1896	1946	1907	1990	2322	2337	2572
2603	2367	2401	2108	1916	1883	1936	1928	1946	2382	2377	2537
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
100	100	100	100	100	100	100	100	100	100	100	100
-	-	-	-	-	-	-	-	-	-	-	-
1,39	1,73	1,15	0,75	0,85	1,00	1,27	1,57	0,96	1,58	1,69	1,35
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3539	3240	3081	2937	2493	2568	2532	2413	2694	3025	3010	3543
3581	3648	3211	2863	2622	2576	2537	2437	2583	3060	3221	3461
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4025	3829	3526	3307	3000	3137	3080	2980	3257	3693	3641	3984
3925	4007	3681	3270	3234	3090	3059	3075	3178	3609	3726	3928
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4158	4000	3837	3500	3139	3209	3160	3072	3411	3825	3877	4174
3984	4166	3833	3456	3278	3136	3191	3141	3380	3832	3953	4194
3370	2955	3340	3066	2506	2674	2618	2692	3010	3295	3749	3706
4586	4360	3896	3928	3431	3390	3162	3516	3426	4357	4357	4558
4672	4578	3758	3367	3687	3380	3039	3363	3246	3621	3938	4066

SLOVAK REPUBLIC | GWh

Physical exchanges in interconnected operation ¹

MM_YY	Export (-)						Import (+)						Balance	
	SK→CZ	SK→H	SK→PL	SK→WEST_UA	SK_UCTE_EXP	SK_III_EXP	CZ→SK	H→SK	PL→SK	WEST_UA→SK	SK_UCTE_IMP	SK_III_IMP	SK_UCTE_SLD	SK_III_SLD
I.98	75	184	0	0	0	259	345	1	0	227	0	573	0	314
II.98	55	129	0	0	0	184	410	3	0	190	0	603	0	419
III.98	64	158	0	0	0	222	271	42	0	192	0	505	0	283
IV.98	89	165	0	0	0	254	219	8	0	197	0	424	0	170
V.98	69	180	0	0	0	249	322	6	0	149	0	477	0	228
VI.98	84	166	0	0	0	250	236	7	0	185	0	428	0	178
VII.98	72	204	0	0	0	276	329	3	0	122	0	454	0	178
VIII.98	69	117	0	1	0	187	221	6	11	77	0	315	0	128
IX.98	72	175	1	2	0	250	184	2	119	47	0	352	0	102
X.98	93	226	0	1	0	320	138	4	148	83	0	373	0	53
XI.98	103	214	1	0	0	318	169	1	106	120	0	396	0	78
XII.98	93	225	0	1	0	319	245	0	116	81	0	442	0	123
1998	938	2143	2	5	0	3088	3089	83	500	1670	0	5342	0	2254
I.02	69	968	0	10	1027	10	365	0	237	25	602	25	-425	15
II.02	28	860	0	3	888	3	330	0	201	23	531	23	-357	20
III.02	34	772	0	65	806	65	339	0	212	13	551	13	-255	-52
IV.02	35	780	0	86	815	86	300	0	178	6	478	6	-337	-80
V.02	22	831	0	11	853	11	406	0	145	8	551	8	-302	-3
VI.02	36	668	0	41	704	41	379	0	198	6	577	6	-127	-35
VII.02	48	851	0	199	899	199	591	0	308	4	899	4	0	-195
VIII.02	28	740	0	97	768	97	467	0	150	4	617	4	-151	-93
IX.02	40	716	0	83	756	83	453	0	135	4	588	4	-168	-79
X.02	116	734	0	125	850	125	307	0	206	0	513	0	-337	-125
XI.02	220	619	0	52	839	52	157	0	160	1	317	1	-522	-51
XII.02	181	636	0	72	817	72	213	0	163	0	376	0	-441	-72
2002	857	9165	0	844	10022	844	4307	0	2293	94	6600	94	-3422	-750
I.03	85	697	0	99	782	99	308	0	247	5	555	5	-227	-94
II.03	91	716	0	106	807	106	318	0	153	5	471	5	-336	-101
III.03	20	745	0	91	765	91	524	0	129	4	653	4	-112	-87
IV.03	41	741	0	107	782	107	514	0	231	6	745	6	-37	-101
V.03	36	766	0	87	802	87	353	0	175	4	528	4	-274	-83
VI.03	36	763	0	54	799	54	431	0	195	4	626	4	-173	-50
VII.03	42	843	0	44	885	44	787	0	140	23	927	23	42	-21
VIII.03	52	726	0	163	778	163	539	0	259	4	798	4	20	-159
IX.03	1	772	0	69	773	69	574	0	252	4	826	4	53	-65
X.03	25	613	0	151	638	151	432	0	299	5	731	5	93	-146
XI.03	74	804	0	160	878	160	489	0	311	5	800	5	-78	-155
XII.03	38	862	0	159	900	159	550	0	338	6	888	6	-12	-153
2003	541	9048	0	1290	9589	1290	5819	0	2729	75	8548	75	-1041	-1215

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

ROMANIA | GWh

Physical exchanges in interconnected operation ¹

MM_YY	Export (-)							Import (+)							Balance	
	RO→BG	RO→H	RO→MD	RO→SCG	RO→WEST_UA	RO_UCTE_EXP	RO_III_EXP	BG→RO	H→RO	MD→RO	SCG→RO	WEST_UA→RO	RO_UCTE_IMP	RO_III_IMP	RO_UCTE_SLD	RO_III_SLD
I.98	n.a.	0	n.a.	75	n.a.	75	n.a.	n.a.	0	n.a.	6	n.a.	6	n.a.	-69	n.a.
II.98	n.a.	0	n.a.	38	n.a.	38	n.a.	n.a.	0	n.a.	7	n.a.	0	n.a.	-38	n.a.
III.98	n.a.	0	n.a.	20	n.a.	20	n.a.	n.a.	0	n.a.	17	n.a.	0	n.a.	-20	n.a.
IV.98	n.a.	0	n.a.	4	n.a.	4	n.a.	n.a.	0	n.a.	73	n.a.	0	n.a.	-4	n.a.
V.98	n.a.	0	n.a.	1	n.a.	1	n.a.	n.a.	0	n.a.	120	n.a.	0	n.a.	-1	n.a.
VI.98	n.a.	0	n.a.	2	n.a.	2	n.a.	n.a.	0	n.a.	84	n.a.	0	n.a.	-2	n.a.
VII.98	n.a.	0	n.a.	1	n.a.	1	n.a.	n.a.	0	n.a.	117	n.a.	0	n.a.	-1	n.a.
VIII.98	n.a.	0	n.a.	3	n.a.	3	n.a.	n.a.	0	n.a.	71	n.a.	0	n.a.	-3	n.a.
IX.98	n.a.	0	n.a.	3	n.a.	3	n.a.	n.a.	0	n.a.	77	n.a.	0	n.a.	-3	n.a.
X.98	n.a.	0	n.a.	18	n.a.	18	n.a.	n.a.	0	n.a.	39	n.a.	0	n.a.	-18	n.a.
XI.98	n.a.	0	n.a.	2	n.a.	2	n.a.	n.a.	0	n.a.	64	n.a.	0	n.a.	-2	n.a.
XII.98	n.a.	0	n.a.	89	n.a.	89	n.a.	n.a.	0	n.a.	10	n.a.	0	n.a.	-89	n.a.
1998	n.a.	0	n.a.	256	n.a.	256	n.a.	n.a.	0	n.a.	685	n.a.	6	n.a.	-250	n.a.
I.02	n.a.	0	n.a.	358	n.a.	358	n.a.	n.a.	0	n.a.	0	n.a.	0	n.a.	-358	n.a.
II.02	n.a.	0	n.a.	90	n.a.	90	n.a.	n.a.	0	n.a.	1	n.a.	1	n.a.	-89	n.a.
III.02	n.a.	0	n.a.	37	n.a.	37	n.a.	n.a.	18	n.a.	22	n.a.	40	n.a.	3	n.a.
IV.02	n.a.	0	n.a.	43	n.a.	43	n.a.	n.a.	25	n.a.	26	n.a.	51	n.a.	8	n.a.
V.02	n.a.	0	n.a.	51	n.a.	51	n.a.	n.a.	24	n.a.	6	n.a.	30	n.a.	-21	n.a.
VI.02	n.a.	0	n.a.	33	n.a.	33	n.a.	n.a.	12	n.a.	8	n.a.	20	n.a.	-13	n.a.
VII.02	n.a.	0	n.a.	81	n.a.	81	n.a.	n.a.	24	n.a.	4	n.a.	28	n.a.	-53	n.a.
VIII.02	n.a.	0	n.a.	86	n.a.	86	n.a.	n.a.	23	n.a.	3	n.a.	26	n.a.	-60	n.a.
IX.02	n.a.	0	n.a.	59	n.a.	59	n.a.	n.a.	24	n.a.	17	n.a.	41	n.a.	-18	n.a.
X.02	n.a.	0	n.a.	148	n.a.	148	n.a.	n.a.	27	n.a.	6	n.a.	33	n.a.	-115	n.a.
XI.02	n.a.	0	n.a.	145	n.a.	145	n.a.	n.a.	3	n.a.	0	n.a.	3	n.a.	-142	n.a.
XII.02	n.a.	0	n.a.	184	n.a.	184	n.a.	n.a.	10	n.a.	0	n.a.	10	n.a.	-174	n.a.
2002	n.a.	0	n.a.	1315	n.a.	1315	n.a.	n.a.	190	n.a.	93	n.a.	283	n.a.	-1032	n.a.
I.03	177	0	0	156	0	333	0	5	31	0	2	0	38	0	-295	0
II.03	175	0	0	106	0	281	0	4	30	0	1	0	35	0	-246	0
III.03	181	0	0	79	0	260	0	7	29	0	7	0	43	0	-217	0
IV.03	56	0	0	56	0	112	0	4	26	0	9	0	39	0	-73	0
V.03	193	0	0	100	0	293	0	13	0	0	5	0	18	0	-275	0
VI.03	28	0	0	214	0	242	0	55	0	0	0	0	55	0	-187	0
VII.03	81	0	0	176	0	257	0	40	0	0	0	0	40	0	-217	0
VIII.03	47	0	0	228	0	275	0	97	0	0	0	0	97	0	-178	0
IX.03	20	0	0	126	0	146	0	191	0	29	3	0	194	29	48	29
X.03	5	0	0	98	0	103	0	122	0	21	2	0	124	21	21	21
XI.03	77	0	0	229	0	306	0	102	0	30	0	0	102	30	-204	30
XII.03	51	0	0	284	0	335	0	49	0	40	0	0	49	40	-286	40
2003	1091	0	0	1852	0	2943	0	689	116	120	29	0	834	120	-2109	120

¹These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

ROMANIA

Monthly values / Operation

			I-XII	
			1998	n.a.
Thermal conventional net production	GWh	Σ	2002	n.a.
			2003	33952
Thermal nuclear net production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	4564
Hydraulic net production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	13009
Total net electrical energy production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003 ²	51525
Total physical import / export balance ¹	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	-2085
Consumption of pumps	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	0
National electrical consumption	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	49440
National electrical consumption as percentage of total values	%Ø pond.		1998	n.a.
			2002	n.a.
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	n.a.
			2002	n.a.
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	5764
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	7135
Peak load on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	7542
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	n.a.
			2002	n.a.
			2003	7135

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

ROMANIA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3025	2926	2897	2199	2252	2898	2921	2786	2803	2811	3127	3307
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
491	445	467	472	249	0	438	347	168	522	475	490
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1330	1152	1335	1560	1599	1145	853	721	576	889	937	912
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4846	4523	4699	4231	4100	4043	4212	3854	3547	4222	4539	4709
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-295	-248	-217	-176	-275	-188	-217	-166	77	42	-174	-248
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4551	4275	4482	4055	3825	3855	3995	3688	3624	4264	4365	4461
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
100	100	100	100	100	100	100	100	100	100	100	100
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5746	5764	5583	4859	4805	4898	4742	4336	4539	5006	5306	5692
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7006	7135	6793	5859	5836	6027	5802	5697	5512	6253	6702	7000
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7265	7339	7168	5984	5962	6228	6010	5697	5885	6860	7109	7542
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
7006	7135	6793	5859	5836	6027	5802	5679	5512	6253	6702	7000

BULGARIA

Monthly values / Operation

			I-XII	
			1998	n.a.
Thermal conventional net production	GWh	Σ	2002	n.a.
			2003	22195
Thermal nuclear net production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	17257
Hydraulic net production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	3262
Total net electrical energy production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003 ²	42714
Total physical import / export balance ¹	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	-5538
Consumption of pumps	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	482
National electrical consumption	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	36694
National electrical consumption as percentage of total values	%Ø pond.		1998	n.a.
			2002	n.a.
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	n.a.
			2002	n.a.
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	5325
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	6058
Peak load on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	6595
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	n.a.
			2002	n.a.
			2003	6626

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

BULGARIA

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2063	1957	2021	1647	1043	1107	1604	1612	1988	2207	2442	2504
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1891	1732	1860	1379	1098	1223	1293	1382	1135	1188	1203	1873
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
403	373	271	265	362	326	214	206	177	199	215	251
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4357	4062	4152	3291	2503	2656	3111	3200	3300	3594	3860	4628
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-402	-258	-470	-252	-87	-295	-557	-643	-756	-575	-575	-668
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
56	34	39	39	41	19	30	39	45	51	46	43
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3899	3770	3643	3000	2375	2342	2524	2518	2499	2968	3239	3917
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
100	100	100	100	100	100	100	100	100	100	100	100
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5325	5321	4608	3740	2876	2893	3019	3006	3106	3248	4046	4678
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5789	6058	5024	4170	3354	3492	3522	3613	3620	4041	4572	5327
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6226	6595	5817	4718	3851	3972	3927	3943	4375	4944	5285	5999
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6491	6626	5782	4634	3573	3879	4275	4600	4633	4685	5442	6268

Physical exchanges in interconnected operation ¹

MM_YY	Export (-)					Import (+)					Balance			
	BG→GR	BG→RO	BG→SCG	BG→TR	BG_UCTE_EXP	BG_III_EXP	GR→RO	RO→BG	SCG→RO	TR→BG	BG_UCTE_IMP	BG_III_IMP	BG_UCTE_SLD	BG_III_SLD
I.98	135	n.a.	0	n.a.	135	0	0	n.a.	99	n.a.	99	n.a.	-36	n.a.
II.98	33	n.a.	1	n.a.	34	1	7	n.a.	54	n.a.	61	n.a.	27	n.a.
III.98	133	n.a.	2	n.a.	135	2	1	n.a.	45	n.a.	46	n.a.	-89	n.a.
IV.98	122	n.a.	18	n.a.	140	18	4	n.a.	13	n.a.	17	n.a.	-123	n.a.
V.98	117	n.a.	31	n.a.	148	31	1	n.a.	9	n.a.	10	n.a.	-138	n.a.
VI.98	144	n.a.	34	n.a.	178	34	0	n.a.	6	n.a.	6	n.a.	-172	n.a.
VII.98	183	n.a.	47	n.a.	230	47	1	n.a.	4	n.a.	5	n.a.	-225	n.a.
VIII.98	59	n.a.	14	n.a.	73	14	0	n.a.	37	n.a.	37	n.a.	-36	n.a.
IX.98	50	n.a.	18	n.a.	68	18	4	n.a.	33	n.a.	37	n.a.	-31	n.a.
X.98	59	n.a.	11	n.a.	70	11	5	n.a.	27	n.a.	32	n.a.	-38	n.a.
XI.98	41	n.a.	13	n.a.	54	13	4	n.a.	36	n.a.	40	n.a.	-14	n.a.
XII.98	10	n.a.	0	n.a.	10	0	24	n.a.	100	n.a.	124	n.a.	114	n.a.
1998	1086	n.a.	189	n.a.	1275	189	51	n.a.	463	n.a.	514	n.a.	-761	n.a.
I.02	269	n.a.	0	n.a.	269	0	365	n.a.	227	n.a.	592	n.a.	323	n.a.
II.02	312	n.a.	0	n.a.	312	0	330	n.a.	140	n.a.	470	n.a.	158	n.a.
III.02	273	n.a.	10	n.a.	283	10	339	n.a.	52	n.a.	391	n.a.	108	n.a.
IV.02	160	n.a.	20	n.a.	180	20	300	n.a.	38	n.a.	338	n.a.	158	n.a.
V.02	257	n.a.	15	n.a.	272	15	406	n.a.	23	n.a.	429	n.a.	157	n.a.
VI.02	262	n.a.	17	n.a.	279	17	379	n.a.	35	n.a.	414	n.a.	135	n.a.
VII.02	281	n.a.	1	n.a.	282	1	591	n.a.	77	n.a.	668	n.a.	386	n.a.
VIII.02	285	n.a.	2	n.a.	287	2	467	n.a.	61	n.a.	528	n.a.	241	n.a.
IX.02	343	n.a.	0	n.a.	343	0	453	n.a.	238	n.a.	691	n.a.	348	n.a.
X.02	304	n.a.	1	n.a.	305	1	307	n.a.	149	n.a.	456	n.a.	151	n.a.
XI.02	303	n.a.	0	n.a.	303	0	157	n.a.	147	n.a.	304	n.a.	1	n.a.
XII.02	263	n.a.	0	n.a.	263	0	213	n.a.	188	n.a.	401	n.a.	138	n.a.
2002	3312	n.a.	66	n.a.	3378	66	4307	n.a.	1375	n.a.	5682	n.a.	2304	n.a.
I.03	157	5	99	315	261	315	308	177	1	0	486	0	225	-315
II.03	129	4	64	234	197	234	318	175	1	0	494	0	297	-234
III.03	204	7	57	360	268	380	524	181	3	0	708	0	440	-380
IV.03	166	4	45	207	215	207	514	56	16	0	586	0	371	-207
V.03	281	13	16	0	310	0	353	193	32	0	578	0	268	0
VI.03	289	55	13	0	357	0	431	28	36	0	495	0	138	0
VII.03	399	40	195	0	634	0	787	81	2	0	870	0	236	0
VIII.03	389	97	199	0	685	0	539	47	0	0	586	0	-99	0
IX.03	358	191	223	0	772	0	574	20	0	0	594	0	-178	0
X.03	233	122	216	0	571	0	432	5	0	0	437	0	-134	0
XI.03	315	102	226	0	643	0	489	77	0	0	566	0	-77	0
XII.03	382	49	283	0	714	0	550	51	0	0	601	0	-113	0
2003	3302	689	1636	1136	5627	1136	5819	1091	91	0	7001	0	1374	-1136

¹These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

MM_YY	Export (+)				Import (+)				Balance					
	WEST_UA→H	WEST_UA→PL	WEST_UA→RO	WEST_UA→SK	W_UA_UCTE_EXP	WEST_UA_III_EXP	H→WEST_UA	PL→WEST_UA	RO→WEST_UA	SK→WEST_UA	W_UA_UCTE_IMP	WEST_UA_III_IMP	W_UA_UCTE_SLD	WEST_UA_III_SLD
I.98	0	89	n.a.	227	0	316	0	0	n.a.	0	0	0	0	-316
II.98	0	82	n.a.	190	0	272	0	0	n.a.	0	0	0	0	-272
III.98	0	93	n.a.	192	0	285	0	0	n.a.	0	0	0	0	-285
IV.98	0	55	n.a.	197	0	252	0	0	n.a.	0	0	0	0	-252
V.98	0	57	n.a.	149	0	206	0	0	n.a.	0	0	0	0	-206
VI.98	0	53	n.a.	185	0	238	0	0	n.a.	0	0	0	0	-238
VII.98	0	55	n.a.	122	0	177	0	0	n.a.	0	0	0	0	-177
VIII.98	0	60	n.a.	77	0	137	0	0	n.a.	1	0	1	0	-136
IX.98	0	25	n.a.	47	0	72	0	0	n.a.	2	0	2	0	-70
X.98	0	63	n.a.	83	0	146	0	0	n.a.	1	0	1	0	-145
XI.98	0	81	n.a.	120	0	201	0	0	n.a.	0	0	0	0	-201
XII.98	0	89	n.a.	81	0	170	0	0	n.a.	1	0	1	0	-169
1998	0	802	n.a.	1670	0	2472	0	0	n.a.	5	0	5	0	-2467
I.02	240	52	n.a.	25	317	n.a.	0	0	n.a.	10	10	n.a.	-307	n.a.
II.02	199	45	n.a.	23	267	n.a.	0	0	n.a.	3	3	n.a.	-264	n.a.
III.02	241	42	n.a.	13	296	n.a.	0	0	n.a.	65	65	n.a.	-231	n.a.
IV.02	208	39	n.a.	6	253	n.a.	0	0	n.a.	86	86	n.a.	-167	n.a.
V.02	66	38	n.a.	8	112	n.a.	0	0	n.a.	11	11	n.a.	-101	n.a.
VI.02	139	41	n.a.	6	186	n.a.	0	0	n.a.	41	41	n.a.	-145	n.a.
VII.02	342	39	n.a.	4	385	n.a.	0	0	n.a.	199	199	n.a.	-186	n.a.
VIII.02	232	58	n.a.	4	294	n.a.	6	0	n.a.	97	103	n.a.	-191	n.a.
IX.02	289	0	n.a.	4	293	n.a.	0	0	n.a.	83	83	n.a.	-210	n.a.
X.02	351	45	n.a.	0	396	n.a.	4	0	n.a.	125	129	n.a.	-267	n.a.
XI.02	315	101	n.a.	1	417	n.a.	7	0	n.a.	52	59	n.a.	-358	n.a.
XII.02	327	89	n.a.	0	416	n.a.	3	0	n.a.	72	75	n.a.	-341	n.a.
2002	2949	589	n.a.	94	3632	n.a.	20	0	n.a.	844	864	n.a.	-2768	n.a.
I.03	340	113	0	5	458	0	3	0	0	99	102	0	-356	0
II.03	354	90	0	5	449	0	1	0	0	106	107	0	-342	0
III.03	353	77	0	4	434	0	2	0	0	91	93	0	-341	0
IV.03	364	61	0	6	431	0	1	0	0	107	108	0	-323	0
V.03	367	69	0	4	440	0	2	0	0	87	89	0	-351	0
VI.03	322	52	0	4	378	0	3	0	0	54	57	0	-321	0
VII.03	296	91	0	23	410	0	7	0	0	44	51	0	-359	0
VIII.03	467	50	0	4	521	0	0	0	0	163	163	0	-358	0
IX.03	350	75	0	4	429	0	4	0	0	69	73	0	-356	0
X.03	469	76	0	5	550	0	0	0	0	151	151	0	-399	0
XI.03	449	68	0	5	522	0	0	0	0	160	160	0	-362	0
XII.03	430	109	0	6	545	0	0	0	0	159	159	0	-386	0
2003	4561	931	0	75	5567	0	23	0	0	1290	1313	0	-4254	0

¹ These physical energy flows were measured on the cross-frontier transmission lines (>110 kV). These values may differ from the official statistics and the total physical balance in the table "Monthly values: Operation".

				I-XII
Thermal conventional net production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	7308
Thermal nuclear net production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	0
Hydraulic net production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	97
Total net electrical energy production	GWh	Σ	1998	n.a.
			2002	n.a.
			2003 ²	7405
Total physical import / export balance ¹	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	-3271
Consumption of pumps	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	0
National electrical consumption	GWh	Σ	1998	n.a.
			2002	n.a.
			2003	4134
National electrical consumption as percentage of total values	%Ø pond.		1998	n.a.
			2002	n.a.
			2003	100
Energy capability factor (hydro power)	Ø pond.		1998	n.a.
			2002	n.a.
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	706
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	841
Peak load on the 3 rd Wednesday	MW max.		1998	n.a.
			2002	n.a.
			2003	943
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	n.a.
			2002	n.a.
			2003	1226

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

WEST UKRAINE

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
711	674	664	580	483	514	531	565	558	671	656	701
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5	3	9	17	14	3	6	2	2	15	16	5
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
716	677	673	597	497	517	537	567	560	686	672	706
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-238	-247	-261	-258	-277	-267	-266	-303	-277	-317	-289	-271
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
0	0	0	0	0	0	0	0	0	0	0	0
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
478	430	412	339	220	250	271	264	283	369	383	435
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
100	100	100	100	100	100	100	100	100	100	100	100
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
-	-	-	-	-	-	-	-	-	-	-	-
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
706	675	590	522	302	386	390	395	403	523	557	588
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
841	791	698	593	430	487	502	496	490	599	734	718
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
943	918	816	731	493	505	546	596	642	775	813	851
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1226	1216	1123	975	888	859	912	958	949	1080	1183	1182

			I-XII	
Thermal conventional net production	GWh	Σ	1998	1057667
			2002	1187292
			2003	1302229
Thermal nuclear net production	GWh	Σ	1998	689498
			2002	757757
			2003	787354
Hydraulic net production	GWh	Σ	1998	284380
			2002	276144
			2003	307300
Total net electrical energy production	GWh	Σ	1998 ²	2031545
			2002 ²	2221193
			2003 ²	2396883
Total physical import / export balance ¹	GWh	Σ	1998	-979
			2002	-2933
			2003	-8795
Consumption of pumps	GWh	Σ	1998	32619
			2002	42703
			2003	44187
National electrical consumption	GWh	Σ	1998	1997947
			2002	2175557
			2003	2343901
National electrical consumption as percentage of total values	%Ø pond.		1998	-
			2002	-
			2003	-
Energy capability factor (hydro power)	Ø pond.		1998	-
			2002	-
			2003	-
Consumption load at 3:00 a.m. on the 3 rd Wednesday	MW max.		1998	186580
			2002	241218
			2003	273901
Consumption load at 11:00 a.m. on the 3 rd Wednesday	MW max.		1998	259832
			2002	329492
			2003	356987
Peak load on the 3 rd Wednesday	MW max.		1998	265320
			2002	341063
			2003	360698
Power produced in parallel operation on the 3 rd Wednesday at 11:00 a.m.	MW max.		1998	313933
			2002	344439
			2003	369182

¹Terminology 2.15, see also note Physical energy exchange in interconnected operation

²Including deliveries from industry

Monthly values / Operation

UCTE ³

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
92732	87343	97825	84089	76364	77188	84064	78375	84848	90293	98802	105744
119766	102461	106470	97788	90288	87735	93003	85754	95271	102414	101886	104456
117484	112665	112041	101734	95453	98520	106695	103180	107161	116131	114063	117102
67596	61084	61508	55588	53487	50077	52515	50329	53680	59154	60573	63907
72960	62904	64044	61352	60305	58000	60953	56905	58484	65313	65794	70743
74546	67156	67442	63956	60564	58558	62384	58707	60734	67290	69785	76232
27746	21278	20605	24017	27328	27851	24562	20152	21411	24219	23821	21390
19001	17717	21611	20129	25746	26199	23447	21942	20308	22858	26495	30691
36580	30194	28627	25215	29847	27112	23368	19710	17146	21326	22401	25774
188074	169705	179938	163694	157179	155116	161141	148856	159939	173666	183196	191041
211727	183082	192125	179269	176339	171934	177403	164601	174063	190585	194175	205890
228610	210015	208110	190905	185864	184190	192447	181597	185041	204747	206249	219108
-298	-537	-456	-454	-411	-269	538	1007	334	-280	-306	153
710	-52	-432	-294	-832	-135	738	50	578	-540	-1181	-1543
-1701	-808	-1278	-899	-1213	26	-180	-1082	-107	-95	-506	-952
2634	2088	2260	2362	2698	2835	3171	2919	3144	2964	2736	2808
3830	3338	3263	3371	3634	3725	3652	3457	3562	3688	3507	3676
3557	3049	3617	3338	3613	3728	3859	4128	3682	3707	3832	4077
185142	167080	177222	160878	154070	152012	158508	146944	157129	170422	180154	188386
208607	179692	188430	175604	171873	168074	174489	161194	171079	186357	189487	200671
223352	206158	203215	186668	181038	180488	188408	176387	181252	200945	201911	214079
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
184861	175336	171847	169635	146520	148780	146884	143296	153937	163328	186580	180239
241218	233504	211056	206731	191704	198646	195971	178384	192808	204988	225330	238104
260165	273901	236641	214294	204133	212538	215162	197772	205058	217609	230590	255135
259832	244355	241922	246259	222299	228206	229217	214740	232286	242545	253376	257554
327861	315375	292155	293900	276059	291752	282633	258870	283118	295852	309416	329492
351877	356987	312866	300766	300665	307318	306667	277350	298178	310515	325452	343511
261632	244474	241976	246259	222800	229201	230311	216079	232630	242545	263750	265320
334563	320550	292700	293900	277551	294360	284950	260926	284388	295852	321896	341063
360237	360698	317946	300766	302006	310961	309440	282399	300269	311918	339678	359627
313933	294425	294126	291960	265387	270977	267793	251993	279989	289301	308851	311539
336156	323817	304966	306072	290714	304983	292672	267962	294482	303822	327283	344439
361688	369182	328144	313953	313936	319125	318336	288670	309542	320391	338850	356894

³ West Ukraine is not part of UCTE

		IMPORTING COUNTRIES											
		Year	B	D	E	F	GR	I	SLO	HR	BIH	FYROM	SCG
EXPORTING COUNTRIES	B	1998				1445							
		2002				526							
		2003				872							
	D	1998				404							
		2002				47							
		2003				152							
	E	1998				757							
		2002				226							
		2003				602							
	F	1998	4475	12698	5187			16586					
		2002	11501	18818	9062			19025					
		2003	9400	20227	6389			18025					
	GR	1998						0				23	
		2002						495				50	
		2003						1133				153	
	I	1998				453	0		435				
		2002				463	352		80				
		2003				434	28		43				
	SLO	1998						1941		1153			
		2002						5231		3032			
		2003						4548		1876			
	HR	1998							0		310		2
		2002							3868		1583		15
		2003							3665		1290		0
	BIH	1998								793			n.a.
		2002								634			2654
	2003								1054			1961	
FYROM	1998					1412						n.a.	
	2002					949						n.a.	
	2003					838						5	
SCG	1998								62	n.a.	n.a.		
	2002								0	688	n.a.		
	2003								86	792	1624		
L	1998	0	923										
	2002	2032	883										
	2003	1959	834										
NL	1998	3216	1493										
	2002	3037	1450										
	2003	3212	601										
A	1998		3954				1632	2057					
	2002		4270				1788	3246					
	2003		3333				1664	3066					
P	1998			3719									
	2002			3429									
	2003			3107									
CH	1998		5259		1007		21467						
	2002		3836		1094		25038						
	2003		3128		1463		25939						
CZ	1998		4802										
	2002		10557										
	2003		12794										
H	1998							416				691	
	2002							5324				1947	
	2003							5842				522	
PL	1998		503										
	2002		605										
	2003		285										
SK	1998												
	2002												
	2003												
RO	1998											256	
	2002											1315	
	2003											1852	
BG	1998					1086						189	
	2002					3312						66	
	2003					3302						1636	
WEST_UA	1998												
	2002												
	2003												
III	1998		12540	1	32	1097			416			2093	
	2002		5798	12	741	3321			0			2731	
	2003		4556	0	2975	51			0			264	
UCTE	1998	7691	24327	8906	4066	1412	41626	2492	2008	310	23	2	
	2002	16570	40419	12491	2356	1301	51577	7194	8990	2271	50	4616	
	2003	14571	41202	9496	3523	4168	51309	6774	8858	2082	1777	5976	
Total Import	1998	7691	36867	8907	4098	2509	41626	2492	2424	n.a.	n.a.	2095	
	2002	16570	46217	12503	3097	4622	51577	7194	8990	2271	50	7347	
	2003	14571	45758	9496	6498	4219	51309	6774	8858	2082	1777	6240	
Balance UCTE	1998	1251	-10627	4260	-44052	1389	40728	-648	1696	n.a.	n.a.	-60	
	2002	7501	-863	7057	-66997	756	50660	-1254	3523	-1017	n.a.	3928	
	2003	6318	-5011	3124	-62210	2881	50790	151	3902	-933	934	3354	
Balance Total	1998	1251	-1745	3560	-56618	1620	40728	-648	2112	n.a.	n.a.	1172	
	2002	7501	688	5740	-75766	2914	50660	-1254	3523	-1017	n.a.	4432	
	2003	6318	-8065	1667	-64536	2156	50790	151	3902	-933	934	3153	

Annual physical electricity exchange in interconnected operation (GWh)

UCTE

L	NL	A	P	CH	CZ	H	PL	SK	RO	BG	WEST UA	UCTE	III	Total Export
1871	3124											6440		6440
1725	6818											9069		9069
1602	5779											8253		8253
4450	13621	6165		10314	336		3019					34954	3658	38612
4815	14037	8458		11859	194		1872					41282	4247	45529
4956	15038	9906		13348	52		2761					46213	7610	53823
			3889									4646	701	5347
			5208									5434	1329	6763
			5770									6372	1457	7829
				9172								48118	12598	60716
				10947								69353	9510	78863
				11692								65733	5301	71034
										51		23	866	889
										0		545	1163	1708
										1		1287	776	2063
	0			10								898		898
	0			22								917		917
	0			14								519		519
	46											3140		3140
	185											8448		8448
	199											6623		6623
						0						312		312
						1						5467		5467
						1						4956		4956
												793		793
												3288		3288
												3015		3015
												1412		1412
												949		949
												843		843
						0			685	189		62	1135	1197
						0			93	66		688	1282	1970
						0			29	91		2622	465	3087
												923		923
												2915		2915
												2793		2793
												4709		4709
												4487		4487
												3813		3813
				3055	67	106						10698	173	10871
				4176	3	492						13975		13975
				4062	2	468						12595		12595
												3719		3719
												3429		3429
												3107		3107
	203											27936		27936
	283											30251		30251
	371											30901		30901
		2750					106	3089				7552	3195	10747
		5941					87	4307				20892		20892
		7628					57	5819				26298		26298
		1275						83		0		2382	83	2465
		868						0	190	20		8139	210	8349
		638						0	116	23		7118	23	7141
												503	7578	8081
												11340	196	11536
												12502	2642	15144
												0		
												5	3088	3088
												10022	844	10866
												9589	1290	10879
												256	n.a.	n.a.
												1315	n.a.	n.a.
												2943	0	2943
												1275	189	1464
												3378	66	3444
												5627	1136	6763
												0	n.a.	n.a.
												3632	n.a.	n.a.
												5567	0	5567
												20204	n.a.	n.a.
												18157	n.a.	n.a.
												14765	0	14765
6321	16745	6414	3889	22551	403	106	3019	0	685	240	0	148783	4453	153236
6540	20855	15735	5208	27004	9496	9658	1959	6600	283	66	864	250890	1213	252103
6558	20817	18742	5770	29116	10083	9517	2818	8548	834	1183	1313	147665	1313	16078
6321	16745	10439	3889	22551	8419	2249	3929	5342	685	n.a.	n.a.	168987		
6540	20855	15735	5208	27004	9496	12607	4470	6694	283	n.a.	n.a.	269047		
6558	20817	18742	5770	29116	10083	14078	4981	8623	954	1183	1313	278487		
5398	12036	-4284	170	-5385	-7149	9658	2516	0	n.a.	n.a.	n.a.			
3625	16368	1760	1779	-3247	-11396	1519	-9381	-3422	n.a.	n.a.	n.a.			
3765	17004	18742	2663	-1785	-16215	2399	-9684	-1041	-2109	-4444	-4254			
5398	12036	-432	170	-5385	-2328	-216	-4152	2254	n.a.	n.a.				
3625	16368	1760	1779	-3247	-11396	4258	-7066	-4172	n.a.	n.a.				
3765	17004	6147	2663	-1785	-16215	6937	-10163	-2256	-1989	-5580				