



Southern Corridor

GRIP

ANNEX C: DEMAND DATA





Note

Demand data in this Appendix refer to TSOs contributions sent to ENTSOG in August 2013 and their projections may have, in some cases, changed until the publication date.



Image courtesy of Snam Rete Gas



Daily Demand

High Daily Demand – Design Case 2013–2023 (in GWh/d)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	684	733	735	756	757	778	798	827	827	827	849
BULGARIA	177	187	194	218	224	236	242	247	256	257	257
CROATIA	74	74	74	74	81	100	101	101	102	103	104
CYPRUS	–	–	24	24	24	51	52	55	56	61	61
GREECE	245	218	244	268	290	298	309	307	315	322	328
HUNGARY	878	897	902	997	1,047	1,088	1,113	1,111	1,112	1,113	1,124
ITALY	4,982	5,034	5,056	5,036	4,996	5,028	5,007	5,030	5,036	5,012	4,975
ROMANIA	756	756	756	756	756	756	756	756	756	756	756
SLOVAKIA	406	400	431	447	448	448	448	448	448	448	448
SLOVENIA	65	66	67	69	81	90	92	102	104	106	106
TOTAL SC	8,267	8,365	8,482	8,645	8,704	8,873	8,918	8,983	9,012	9,004	9,008
TOTAL EUROPE	34,736	34,903	34,848	35,187	35,392	35,685	35,664	35,931	35,864	35,904	35,938

High Daily Demand – Uniform Risk 2013–2023 (in GWh/d)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	684	733	735	756	757	778	798	827	827	827	849
BULGARIA	177	187	194	218	224	236	242	247	256	257	257
CROATIA	74	74	74	74	81	100	101	101	102	103	104
CYPRUS	–	–	24	24	24	51	52	55	56	61	61
GREECE	245	218	244	268	290	298	309	307	315	322	328
HUNGARY	878	897	902	997	1,047	1,088	1,113	1,111	1,112	1,113	1,124
ITALY	4,940	4,992	5,014	4,995	4,955	4,987	4,967	4,991	4,998	4,974	4,939
ROMANIA	718	718	718	718	718	718	718	718	718	718	718
SLOVAKIA	406	400	431	447	448	448	448	448	448	448	448
SLOVENIA	62	63	64	66	78	87	89	98	100	102	102
TOTAL SC	8,184	8,282	8,399	8,563	8,623	8,791	8,837	8,902	8,932	8,925	8,929
TOTAL EUROPE	34,139	34,301	34,271	34,618	34,807	35,098	35,043	35,306	35,233	35,267	35,295

High Daily Demand – 14-Days Average 2013–2023 (in GWh/d)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	684	733	735	756	757	778	798	827	827	827	849
BULGARIA	150	157	163	181	186	196	201	204	213	214	215
CROATIA	74	74	74	74	81	100	101	101	102	103	104
CYPRUS	–	–	24	24	24	51	52	55	56	61	61
GREECE	206	189	193	213	232	238	245	246	252	257	261
HUNGARY	835	854	859	954	1,004	1,045	1,070	1,068	1,069	1,070	1,081
ITALY	4,613	4,662	4,685	4,669	4,637	4,668	4,656	4,683	4,697	4,680	4,651
ROMANIA	687	687	687	687	687	687	687	687	687	687	687
SLOVAKIA	361	356	384	398	399	399	399	399	399	399	399
SLOVENIA	55	56	57	67	70	78	80	90	91	93	93
TOTAL SC	7,665	7,769	7,860	8,023	8,078	8,239	8,289	8,360	8,393	8,390	8,401
TOTAL EUROPE	31,373	31,474	31,452	31,771	31,990	32,358	32,352	32,491	32,546	32,537	32,608

Average Daily Demand 2013–2023 (in GWh/d)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	273	275	276	283	299	321	336	348	348	347	346
BULGARIA	72	94	98	109	113	119	122	124	129	129	130
CROATIA	74	74	74	74	81	100	101	101	102	103	104
CYPRUS	-	-	16	16	16	34	35	36	37	41	41
GREECE	143	121	131	142	150	153	157	160	163	166	169
HUNGARY	299	302	308	337	373	400	433	435	436	436	436
ITALY	2,205	2,240	2,266	2,295	2,315	2,327	2,363	2,407	2,449	2,467	2,476
ROMANIA	395	395	395	395	395	395	395	395	395	395	395
SLOVAKIA	210	190	202	195	193	195	198	201	203	206	206
SLOVENIA	27	28	28	32	33	38	39	43	44	45	45
TOTAL SC	3,699	3,718	3,794	3,878	3,966	4,082	4,178	4,250	4,307	4,334	4,347
TOTAL EUROPE	13,774	13,861	13,974	14,158	14,398	14,753	14,854	14,931	14,915	14,921	14,909

Winter Average Daily Demand 2013–2023 (in GWh/d)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	378	381	382	392	414	444	466	482	482	481	480
BULGARIA	94	122	127	142	147	155	158	162	168	168	170
CROATIA	96	96	96	96	105	129	130	131	132	133	134
CYPRUS	-	-	21	21	21	44	45	47	49	53	53
GREECE	158	132	144	156	165	168	172	176	180	183	186
HUNGARY	434	437	446	489	540	579	627	630	632	632	632
ITALY	2,858	2,904	2,938	2,975	3,000	3,016	3,063	3,120	3,174	3,197	3,209
ROMANIA	543	543	543	543	543	543	543	543	543	543	543
SLOVAKIA	306	277	295	284	281	284	288	292	296	300	300
SLOVENIA	35	36	36	42	43	50	50	56	57	58	58
TOTAL SC	4,902	4,929	5,028	5,139	5,258	5,414	5,545	5,639	5,713	5,749	5,765
TOTAL EUROPE	17,952	18,053	18,190	18,423	18,730	19,171	19,306	19,411	19,393	19,397	19,376

Summer Average Daily Demand 2013–2023 (in GWh/d)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	168	170	170	174	184	198	207	215	214	214	213
BULGARIA	50	65	68	76	79	83	85	87	90	90	91
CROATIA	52	52	52	52	57	71	71	72	72	73	73
CYPRUS	-	-	11	11	11	24	24	25	26	29	29
GREECE	129	109	118	128	136	138	141	144	147	150	152
HUNGARY	166	167	170	187	206	221	240	241	241	241	241
ITALY	1,555	1,579	1,598	1,618	1,632	1,641	1,666	1,697	1,727	1,739	1,745
ROMANIA	246	246	246	246	246	246	246	246	246	246	246
SLOVAKIA	114	104	110	106	105	106	108	109	111	112	112
SLOVENIA	19	20	20	23	23	27	28	31	31	32	32
TOTAL SC	2,500	2,512	2,565	2,622	2,679	2,755	2,817	2,866	2,906	2,926	2,936
TOTAL EUROPE	9,613	9,678	9,768	9,904	10,073	10,342	10,412	10,462	10,456	10,470	10,462

Power Generation Peak Daily Demand 2013–2023 (in GWh/d)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	–	–	–	–	–	–	–	–	–	–	–
BULGARIA	36	38	39	54	54	57	59	64	67	67	67
CROATIA	18	18	18	18	24	43	43	43	43	43	43
CYPRUS	–	–	24	24	24	45	45	47	48	52	52
GREECE	152	117	129	137	141	145	149	153	157	161	166
HUNGARY	82	99	99	185	224	263	282	282	282	282	282
ITALY	1,174	1,192	1,211	1,211	1,233	1,248	1,291	1,343	1,403	1,433	1,451
ROMANIA	159	159	159	159	159	159	159	159	159	159	159
SLOVAKIA	46	50	59	83	88	88	88	88	88	88	88
SLOVENIA	6	6	6	6	15	22	22	30	30	30	30
TOTAL SC	1,674	1,679	1,744	1,877	1,962	2,069	2,137	2,209	2,277	2,315	2,338
TOTAL EUROPE	5,169	5,272	5,311	5,567	5,824	6,047	6,144	6,437	6,498	6,620	6,726

Residential Commercial Industrial Peak Daily Demand 2013–2023 (in GWh/d)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	684	733	735	756	757	778	798	827	827	827	849
BULGARIA	141	149	155	164	170	179	183	183	189	190	190
CROATIA	56	56	56	56	57	57	58	58	59	60	61
CYPRUS	–	–	–	–	–	6	7	8	8	9	9
GREECE	93	102	115	131	149	154	160	155	159	160	162
HUNGARY	796	798	803	812	823	825	831	829	830	831	842
ITALY	3,807	3,841	3,845	3,825	3,762	3,780	3,716	3,686	3,633	3,579	3,524
ROMANIA	597	597	597	597	597	597	597	597	597	597	597
SLOVAKIA	360	350	372	364	360	360	360	360	360	360	360
SLOVENIA	59	60	61	63	66	68	70	72	74	76	76
TOTAL SC	6,593	6,686	6,738	6,768	6,742	6,804	6,780	6,775	6,736	6,689	6,670
TOTAL EUROPE	29,567	29,631	29,537	29,620	29,568	29,638	29,520	29,494	29,367	29,283	29,213

Yearly Demand

Yearly Demand 2013–2023 (in TWh/y)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	99.7	100.5	100.6	103.3	109.0	117.1	122.7	127.1	126.9	126.6	126.4
BULGARIA	26.3	34.2	35.7	39.8	41.1	43.3	44.4	45.3	47.1	47.2	47.6
CROATIA	27.1	27.1	27.1	27.1	29.5	36.5	36.7	37.0	37.3	37.6	37.9
CYPRUS	–	–	5.8	5.8	5.8	11.7	11.8	12.3	12.6	13.8	13.8
GREECE	52.3	44.0	47.9	51.8	54.9	55.9	57.3	58.3	59.6	60.7	61.7
HUNGARY	109.2	110.2	112.4	113.1	117.1	127.7	136.6	137.2	137.8	137.7	137.7
ITALY	804.8	817.6	827.2	837.6	844.8	849.3	862.7	878.5	893.8	900.4	903.6
ROMANIA	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0
SLOVAKIA	47.2	42.9	46.6	41.9	40.5	40.6	40.7	40.7	40.8	40.9	41.0
SLOVENIA	9.9	10.1	10.3	11.8	12.0	14.0	14.2	15.8	16.0	16.2	16.2
TOTAL SC	1,320.5	1,330.4	1,357.6	1,376.3	1,398.8	1,440.1	1,471.1	1,496.3	1,516.0	1,525.1	1,529.9
TOTAL EUROPE	5,027.4	5,059.1	5,100.6	5,167.7	5,255.3	5,384.9	5,421.8	5,449.9	5,443.8	5,446.2	5,441.6

Power Generation Yearly Demand 2013–2023 (in TWh/y)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	–	–	–	–	–	–	–	–	–	–	–
BULGARIA	3.1	5.5	5.8	7.9	8.2	9.0	9.3	10.4	10.4	10.4	10.4
CROATIA	6.7	6.7	6.7	6.7	8.9	15.6	15.6	15.6	15.6	15.6	15.6
CYPRUS	–	–	5.8	5.8	5.8	10.9	11.0	11.4	11.6	12.8	12.8
GREECE	33.3	27.9	30.8	32.8	33.6	34.5	35.5	36.5	37.5	38.5	39.6
HUNGARY	9.0	10.3	10.3	10.3	12.0	23.0	29.6	31.8	31.8	31.8	31.8
ITALY	279.9	294.3	303.6	314.1	320.6	324.8	337.2	352.5	369.7	378.3	383.6
ROMANIA	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
SLOVAKIA	3.8	1.3	3.6	3.7	3.8	3.9	3.9	4.0	4.1	4.2	4.3
SLOVENIA	0.7	0.7	0.7	2.1	2.1	3.9	3.9	5.3	5.3	5.3	5.3
TOTAL SC	366.6	377.0	397.6	413.6	425.2	455.8	476.3	497.6	516.1	527.0	533.5
TOTAL EUROPE	1,134.1	1,167.1	1,210.6	1,265.8	1,347.8	1,463.7	1,501.5	1,537.3	1,546.8	1,566.6	1,577.4

Residential Commercial Industrial Yearly Demand 2013–2023 (in TWh/y)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	100.0	100.5	100.6	103.3	109.0	117.1	122.7	127.1	126.9	126.6	126.4
BULGARIA	23.2	28.7	29.9	32.0	33.0	34.3	35.1	35.0	36.7	36.8	37.3
CROATIA	20.4	20.4	20.4	20.4	20.6	20.9	21.1	21.4	21.7	22.0	22.3
CYPRUS	–	–	–	–	–	0.8	0.9	0.9	1.0	1.1	1.1
GREECE	19.0	16.1	17.1	19.0	21.3	21.4	21.8	21.8	22.1	22.1	22.1
HUNGARY	100.3	99.9	102.1	102.8	105.1	104.7	107.0	105.5	106.1	105.9	105.9
ITALY	525.0	523.3	523.6	523.5	524.2	524.6	525.4	526.0	524.1	522.1	520.0
ROMANIA	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8	113.8
SLOVAKIA	43.4	41.5	43.1	38.3	36.7	36.7	36.7	36.7	36.7	36.7	36.7
SLOVENIA	9.2	9.4	9.6	9.7	9.9	10.1	10.4	10.6	10.8	11.0	11.0
TOTAL SC	854.2	853.0	859.4	859.5	864.6	867.2	872.1	871.7	873.0	871.5	870.1
TOTAL EUROPE	3,893.3	3,892.0	3,890.0	3,901.9	3,907.5	3,921.1	3,920.3	3,912.6	3,897.0	3,879.6	3,864.2



Indigenous Production

Yearly Indigenous Production 2013–2023 (in TWh/y)											
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
AUSTRIA	17.6	17.1	16.3	15.4	14.5	13.8	13.4	13.0	12.6	12.2	12.2
BULGARIA	2.6	8.3	13.5	13.5	13.5	12.9	11.9	13.5	15.0	15.7	16.0
CROATIA	14.6	15.0	13.6	12.6	11.6	10.3	9.4	8.5	7.7	7.0	6.4
CYPRUS	-	-	-	-	-	13.0	112.5	113.2	113.8	214.3	214.3
GREECE	-	-	-	-	-	-	-	-	-	-	-
HUNGARY	17.7	16.8	16.4	15.6	14.1	12.6	10.4	8.2	7.2	6.1	6.1
ITALY	88.0	84.4	88.0	98.3	95.1	90.8	84.0	78.6	75.0	71.7	68.4
ROMANIA	105.4	102.7	100.0	98.4	96.8	95.0	79.5	77.5	74.9	72.3	72.3
SLOVAKIA	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
SLOVENIA	-	-	-	-	-	-	-	-	-	-	-
TOTAL SC	247.5	246.0	249.5	255.5	247.3	250.2	322.8	314.2	307.9	401.1	397.6
TOTAL EUROPE	1,422.6	1,458.2	1,482.3	1,501.6	1,477.2	1,473.2	1,530.5	1,492.2	1,456.0	1,482.4	1,402.6



Image courtesy of Edison



ENTSOG AISBL

Avenue de Cortenbergh 100
1000 Brussels, Belgium
Tel. +32 2 894 51 00

info@entsog.eu

www.entsog.eu