
UNOFFICIAL TRANSLATION

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GOVERNMENT OF GREECE GAZETTE B 2724/02 July 2019

RAE Decision no. 566/2019

Approval of the Tariffs for the Use of the National Natural Gas System applying the provisions of par. 5 of article 88 of the Law 4001/2011 as in force

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1. Natural Gas Demand (par. 7 of Article 9 of Tariff Regulation)

The following Tables present the expected natural gas and LNG demand for the year 2020, which is used for the calculation of tariffs for the use of NNGS.

	Daily peak of Quantity delivered to each Entry (m^3/day/year)		**Daily peak of Quantity received by each Exit (m^3/day/year)**			**Daily peak of LNG Quantity regasified at the LNG Facility (m^3/day/year)**
Year	Sidirokastro - Kipi	Ag. Triada	North Zone	South Zone	Sidirokastro - Kipi (Exit Point Reverse flow)	LNG Facility
2020	12.500.000	9.200.000	6.348.387	20.037.657	100.000	9.200.000

	Sum of Quantities received by each Exit (m^3/year)
2020	4.949.109.802

2. Required Revenue (par. 2 of Article 3A of Tariff Regulation)

Required Revenue (€/Year)

Year	Transmission Activities	LNG Facility Activity	Total
2020	101.098.410	41.112.281	142.210.691

Required Revenue of Transmission Services (€/Year)			
Year	Required Revenue allocated to Entries	Required Revenue allocated to Exits	Total
2020	50.549.205	50.549.205	101.098.410

The Required Revenues of the Non-Transmission Activities and of the Additional LNG Activities are equal to zero for 2020.

3. Regulated Asset Base (par. 1 of Article 4 of Tariff Regulation)

Regulated Asset Base (€/Year)			
Year	Transmission Activities	LNG Facility Activity	Total
2020	523.736.570	260.501.347	784.237.916

The Regulated Asset Base of the Non-Transmission Activities and of the Additional LNG Activities are equal to zero for 2020.

4. Projected Regulated Assets' Depreciation (par. 3 of Article 7 of Tariff Regulation)

Projected Regulated Assets' Depreciation (€/Year)			
Year	Transmission Activities	LNG Facility Activity	Total
2020	26.253.408	10.120.982	36.374.390

The Regulated Assets' Depreciation of the Non-Transmission Activities and of the Additional LNG Activities are equal to zero for 2020.

5. Projected Regulated Operating Expenses (par. 7 of Article 7A of Tariff Regulation)

Projected Regulated Operating Expenses (€/Year)

Year	Transmission Activities	LNG Facility Activity	Total
2020	33.784.055	10.567.994	44.352.048

The Regulated Assets' Depreciation of the Non-Transmission Activities and of the Additional LNG Activities are equal to zero for 2020.

6. The LNG Facility Dispersion Percentage (SocLNG) (par.4 of Article 8 of Tariff Regulation)

It is defined equal to 50%.

7. Allowed Revenue of each Activity and of each Entry and Exit of the Transmission System (par. 5 of Article 8A of Tariff Regulation)

Allowed Revenue of each Activity (€/Year)				
Year	Transmission Activities	LNG Facility Activity	Dispersion of LNG Activity	Total
2020	101.098.410	20.556.141	20.556.141	142.210.691

Allowed Revenue of Transmission Activities allocated to Entries& Exits (€/Year)			
Year	Required Revenue allocated to Entries	Required Revenue allocated to Exits (part A)	Total
2020	50.549.205	50.549.205	101.098.410

Allowed Revenue allocated to Exits (€/Year)			
Year	Required Revenue allocated to Exits (part A)	Required Revenue allocated to Exits (part B)*	Total
2020	50.549.205	16.906.323	67.455.528

** It is equal to the amount of the Old Recoverable Difference which will be recovered in 2020.*

8. Old Recoverable Difference of the NNGS (par. 5 of Article 19B of the Tariff Regulation)

The following table presents the amount of Old Recoverable Difference to be recovered during each Year of the Regulatory Period 2019-2022 from the Exits (€/Year).

€	2016	2017	2018	2019	2020	2021	2022
Old Recoverable Difference 31.12	325.840.794	266.549.423	227.285.757	219.782.199	210.842.200	200.839.297	189.721.154
Amount to be recovered	0	-3.000.000	-23.600.000	-16.234.697	-16.906.323	-17.570.183	-18.258.118
Recoverable Difference 2017 added to Old Recoverable Difference	0	-67.873.098	-25.303.508	0	0	0	0

9. Coefficients for the calculation of the Transmission and LNG Facility tariffs (par. 10 of Article 11 of Tariff Regulation)

Tariff Coefficients for the year 2020:

The discount factor (c) is set equal to 30%.

A) COEFFICIENTS FOR THE RESERVED CAPACITY CHARGE, COEFFICIENT FOR THE DISPERSION OF LNG & COEFFICIENT FOR THE REGASIFICATION CAPACITY

A1) for the Transmission System for each Entry

2020	$MMSi_i$ (€/kWh GCV /Hour/Year)
Entry Sidirokastro - Kipi	6,2970141
Entry Ag. Triada	1,9531578

A2) for the Transmission System for each Exit

2020	$MMSi_j$ (€/kWh GCV /Hour/Year)	SDDY (€/kWh GCV /Hour/Year)	TOTAL (€/kWh GCV /Hour/Year)
Exit North Zone	3,9144732	1,6373589	5,5518321
Exit South Zone	4,4657693	1,6373590	6,1031283

A3) for the LNG Facility

2020	LCE (€/kWh GCV /Hour/Year)
LNG Facility	4,4683315

B) COEFFICIENTS FOR THE COMMODITY CHARGE

B1) for the Transmission System for each Exit

2020	TQEi$_j$ (€/kWh GCV)
Exit North Zone	0,0002991
Exit South Zone	0,0002991

10. Short-term multipliers B (par. 4 of Article 13 of Tariff Regulation)

A) SHORT TERM CHARGE MULTIPLIERS B FOR THE ENTRY "SIDIROKASTRO - KIPI"

Daily Product	Monthly Product	Quarterly Product	Yearly Product
2,9998	1,4791	1,3774	1

B) SHORT TERM MULTIPLIERS B FOR THE ENTRY "AGIA TRIADA" AND FOR THE BASIC ACTIVITY OF LNG FACILITY

Considering that in the Entry Agia Triada and in Revithoussa the booking profile is highly dependent of the days of gasification (18 days) and in order not to create instability in the market by increasing unexpectedly the short term multiplier two distinct equations are calculated according to the duration of the short-term contract:

1. For number of days 1≤d<18

The multiplier B is calculated based on the function $B_{(d)} = a \cdot e^{-bd}$, $(B_{d\geq 365} = 1)$ where a, b are constant parameters and d is the duration of the Short-term Application in Days for the use of the Entry "Agia Triada" or the use of the LNG Facility.

The parameters for the calculation of the multiplier B are:

a= 3,008886
b= 0,003018

2. For number of days 18≤d<365

The multiplier B is calculated based on the function $B_{(d)} = a \cdot e^{-bd}$, $(B_{d\geq 365} = 1)$ where a, b are constant parameters and d is the duration of the Short-term Application in Days for the use of the Entry "Agia Triada" or the use of the LNG Facility.

The parameters for the calculation of the multiplier B are:

a= 1,53188

b= 0,001168

The following table presents the values of the multiplier B, according to the number of Days of the Short-term Application.

d	B(d)	d	B(d)	d	B(d)	d	B(d)	d	B(d)	d	B(d)	d	B(d)
1	2,9998	61	1,4265	121	1,3300	181	1,2400	241	1,1560	301	1,0778	361	1,0049
2	2,9908	62	1,4249	122	1,3284	182	1,2385	242	1,1547	302	1,0765	362	1,0037
3	2,9818	63	1,4232	123	1,3269	183	1,2371	243	1,1534	303	1,0753	363	1,0025
4	2,9728	64	1,4215	124	1,3253	184	1,2356	244	1,1520	304	1,0740	364	1,0013
5	2,9638	65	1,4199	125	1,3238	185	1,2342	245	1,1507	305	1,0728	365	1,0000
6	2,9549	66	1,4182	126	1,3222	186	1,2328	246	1,1493	306	1,0715		
7	2,9460	67	1,4166	127	1,3207	187	1,2313	247	1,1480	307	1,0703		
8	2,9371	68	1,4149	128	1,3192	188	1,2299	248	1,1466	308	1,0690		
9	2,9283	69	1,4133	129	1,3176	189	1,2284	249	1,1453	309	1,0678		
10	2,9194	70	1,4116	130	1,3161	190	1,2270	250	1,1440	310	1,0665		
11	2,9106	71	1,4100	131	1,3145	191	1,2256	251	1,1426	311	1,0653		
12	2,9019	72	1,4083	132	1,3130	192	1,2241	252	1,1413	312	1,0640		
13	2,8931	73	1,4067	133	1,3115	193	1,2227	253	1,1400	313	1,0628		
14	2,8844	74	1,4050	134	1,3099	194	1,2213	254	1,1386	314	1,0616		
15	2,8757	75	1,4034	135	1,3084	195	1,2199	255	1,1373	315	1,0603		
16	2,8670	76	1,4018	136	1,3069	196	1,2184	256	1,1360	316	1,0591		
17	2,8584	77	1,4001	137	1,3054	197	1,2170	257	1,1346	317	1,0579		
18	1,5000	78	1,3985	138	1,3038	198	1,2156	258	1,1333	318	1,0566		
19	1,4983	79	1,3969	139	1,3023	199	1,2142	259	1,1320	319	1,0554		
20	1,4965	80	1,3952	140	1,3008	200	1,2128	260	1,1307	320	1,0542		
21	1,4948	81	1,3936	141	1,2993	201	1,2113	261	1,1294	321	1,0529		
22	1,4930	82	1,3920	142	1,2978	202	1,2099	262	1,1280	322	1,0517		
23	1,4913	83	1,3903	143	1,2962	203	1,2085	263	1,1267	323	1,0505		
24	1,4895	84	1,3887	144	1,2947	204	1,2071	264	1,1254	324	1,0492		
25	1,4878	85	1,3871	145	1,2932	205	1,2057	265	1,1241	325	1,0480		
26	1,4861	86	1,3855	146	1,2917	206	1,2043	266	1,1228	326	1,0468		
27	1,4843	87	1,3839	147	1,2902	207	1,2029	267	1,1215	327	1,0456		
28	1,4826	88	1,3822	148	1,2887	208	1,2015	268	1,1202	328	1,0443		
29	1,4809	89	1,3806	149	1,2872	209	1,2001	269	1,1189	329	1,0431		
30	1,4791	90	1,3790	150	1,2857	210	1,1987	270	1,1175	330	1,0419		
31	1,4774	91	1,3774	151	1,2842	211	1,1973	271	1,1162	331	1,0407		
32	1,4757	92	1,3758	152	1,2827	212	1,1959	272	1,1149	332	1,0395		
33	1,4740	93	1,3742	153	1,2812	213	1,1945	273	1,1136	333	1,0383		
34	1,4722	94	1,3726	154	1,2797	214	1,1931	274	1,1123	334	1,0371		
35	1,4705	95	1,3710	155	1,2782	215	1,1917	275	1,1110	335	1,0358		
36	1,4688	96	1,3694	156	1,2767	216	1,1903	276	1,1097	336	1,0346		
37	1,4671	97	1,3678	157	1,2752	217	1,1889	277	1,1084	337	1,0334		
38	1,4654	98	1,3662	158	1,2737	218	1,1875	278	1,1072	338	1,0322		
39	1,4637	99	1,3646	159	1,2722	219	1,1861	279	1,1059	339	1,0310		
40	1,4620	100	1,3630	160	1,2708	220	1,1848	280	1,1046	340	1,0298		
41	1,4603	101	1,3614	161	1,2693	221	1,1834	281	1,1033	341	1,0286		
42	1,4585	102	1,3598	162	1,2678	222	1,1820	282	1,1020	342	1,0274		
43	1,4568	103	1,3582	163	1,2663	223	1,1806	283	1,1007	343	1,0262		
44	1,4551	104	1,3567	164	1,2648	224	1,1792	284	1,0994	344	1,0250		
45	1,4534	105	1,3551	165	1,2634	225	1,1779	285	1,0981	345	1,0238		
46	1,4517	106	1,3535	166	1,2619	226	1,1765	286	1,0969	346	1,0226		
47	1,4501	107	1,3519	167	1,2604	227	1,1751	287	1,0956	347	1,0214		
48	1,4484	108	1,3503	168	1,2589	228	1,1737	288	1,0943	348	1,0202		
49	1,4467	109	1,3488	169	1,2575	229	1,1724	289	1,0930	349	1,0190		
50	1,4450	110	1,3472	170	1,2560	230	1,1710	290	1,0917	350	1,0179		
51	1,4433	111	1,3456	171	1,2545	231	1,1696	291	1,0905	351	1,0167		
52	1,4416	112	1,3440	172	1,2531	232	1,1683	292	1,0892	352	1,0155		
53	1,4399	113	1,3425	173	1,2516	233	1,1669	293	1,0879	353	1,0143		
54	1,4382	114	1,3409	174	1,2502	234	1,1655	294	1,0867	354	1,0131		
55	1,4366	115	1,3393	175	1,2487	235	1,1642	295	1,0854	355	1,0119		
56	1,4349	116	1,3378	176	1,2472	236	1,1628	296	1,0841	356	1,0107		
57	1,4332	117	1,3362	177	1,2458	237	1,1615	297	1,0829	357	1,0096		
58	1,4315	118	1,3347	178	1,2443	238	1,1601	298	1,0816	358	1,0084		
59	1,4299	119	1,3331	179	1,2429	239	1,1588	299	1,0803	359	1,0072		
60	1,4282	120	1,3315	180	1,2414	240	1,1574	300	1,0791	360	1,0060		

Γ) SHORT TERM MULTIPLIERS B FOR THE EXITS OF THE TRANSMISSION SYSTEM

The multiplier B is calculated based on the function $\mathrm{B}_{(d)} = a \cdot e^{-bd}$, $\left(\mathrm{B}_{d \geq 365} = 1 \right)$ where a, b are constant parameters and d is the duration of the Short-term Application in Days for the use of the Exits of Transmission System. Multipliers B are the same for the two Exits of the Transmission System.

The parameters for the calculation of the multiplier B are:

a= 3,329677
b= 0,003296

The following table presents the values of the multiplier B, according to the number of Days of the Short-term Application.

d	B(d)	d	B(d)	d	B(d)	d	B(d)	d	B(d)	d	B(d)	d	B(d)
1	3,3187	61	2,7232	121	2,2346	181	1,8336	241	1,5046	301	1,2346	361	1,0131
2	3,3078	62	2,7143	122	2,2272	182	1,8276	242	1,4997	302	1,2306	362	1,0153
3	3,2969	63	2,7053	123	2,2199	183	1,8216	243	1,4947	303	1,2265	363	1,0101
4	3,2861	64	2,6964	124	2,2126	184	1,8156	244	1,4898	304	1,2225	364	1,0050
5	3,2753	65	2,6876	125	2,2053	185	1,8096	245	1,4849	305	1,2185	365	1,0000
6	3,2645	66	2,6787	126	2,1981	186	1,8037	246	1,4800	306	1,2145		
7	3,2537	67	2,6699	127	2,1908	187	1,7977	247	1,4752	307	1,2105		
8	3,2430	68	2,6611	128	2,1836	188	1,7918	248	1,4703	308	1,2065		
9	3,2324	69	2,6524	129	2,1764	189	1,7859	249	1,4655	309	1,2025		
10	3,2217	70	2,6436	130	2,1693	190	1,7800	250	1,4606	310	1,1986		
11	3,2111	71	2,6349	131	2,1621	191	1,7742	251	1,4558	311	1,1946		
12	3,2006	72	2,6263	132	2,1550	192	1,7683	252	1,4510	312	1,1907		
13	3,1900	73	2,6176	133	2,1479	193	1,7625	253	1,4463	313	1,1868		
14	3,1795	74	2,6090	134	2,1409	194	1,7567	254	1,4415	314	1,1829		
15	3,1691	75	2,6004	135	2,1338	195	1,7509	255	1,4368	315	1,1790		
16	3,1586	76	2,5919	136	2,1268	196	1,7452	256	1,4320	316	1,1751		
17	3,1482	77	2,5833	137	2,1198	197	1,7394	257	1,4273	317	1,1712		
18	3,1379	78	2,5748	138	2,1128	198	1,7337	258	1,4226	318	1,1674		
19	3,1276	79	2,5664	139	2,1059	199	1,7280	259	1,4179	319	1,1635		
20	3,1173	80	2,5579	140	2,0989	200	1,7223	260	1,4133	320	1,1597		
21	3,1070	81	2,5495	141	2,0920	201	1,7167	261	1,4086	321	1,1559		
22	3,0968	82	2,5411	142	2,0852	202	1,7110	262	1,4040	322	1,1521		
23	3,0866	83	2,5328	143	2,0783	203	1,7054	263	1,3994	323	1,1483		
24	3,0764	84	2,5244	144	2,0715	204	1,6998	264	1,3948	324	1,1445		
25	3,0663	85	2,5161	145	2,0646	205	1,6942	265	1,3902	325	1,1407		
26	3,0562	86	2,5078	146	2,0578	206	1,6886	266	1,3856	326	1,1370		
27	3,0462	87	2,4996	147	2,0511	207	1,6830	267	1,3810	327	1,1332		
28	3,0361	88	2,4914	148	2,0443	208	1,6775	268	1,3765	328	1,1295		
29	3,0262	89	2,4832	149	2,0376	209	1,6720	269	1,3720	329	1,1258		
30	3,0162	90	2,4750	150	2,0309	210	1,6665	270	1,3675	330	1,1221		
31	3,0063	91	2,4668	151	2,0242	211	1,6610	271	1,3630	331	1,1184		
32	2,9964	92	2,4587	152	2,0175	212	1,6555	272	1,3585	332	1,1147		
33	2,9865	93	2,4506	153	2,0109	213	1,6501	273	1,3540	333	1,1111		
34	2,9767	94	2,4426	154	2,0043	214	1,6447	274	1,3496	334	1,1074		
35	2,9669	95	2,4345	155	1,9977	215	1,6392	275	1,3451	335	1,1038		
36	2,9571	96	2,4265	156	1,9911	216	1,6339	276	1,3407	336	1,1001		
37	2,9474	97	2,4185	157	1,9846	217	1,6285	277	1,3363	337	1,0965		
38	2,9377	98	2,4106	158	1,9780	218	1,6231	278	1,3319	338	1,0929		
39	2,9280	99	2,4026	159	1,9715	219	1,6178	279	1,3275	339	1,0893		
40	2,9184	100	2,3947	160	1,9650	220	1,6125	280	1,3231	340	1,0857		
41	2,9088	101	2,3869	161	1,9586	221	1,6071	281	1,3188	341	1,0821		
42	2,8992	102	2,3790	162	1,9521	222	1,6019	282	1,3144	342	1,0786		
43	2,8897	103	2,3712	163	1,9457	223	1,5966	283	1,3101	343	1,0750		
44	2,8802	104	2,3634	164	1,9393	224	1,5913	284	1,3058	344	1,0715		
45	2,8707	105	2,3556	165	1,9329	225	1,5861	285	1,3015	345	1,0680		
46	2,8613	106	2,3478	166	1,9266	226	1,5809	286	1,2972	346	1,0645		
47	2,8518	107	2,3401	167	1,9202	227	1,5757	287	1,2929	347	1,0609		
48	2,8425	108	2,3324	168	1,9139	228	1,5705	288	1,2887	348	1,0575		
49	2,8331	109	2,3247	169	1,9076	229	1,5653	289	1,2845	349	1,0540		
50	2,8238	110	2,3171	170	1,9013	230	1,5602	290	1,2802	350	1,0505		
51	2,8145	111	2,3095	171	1,8951	231	1,5550	291	1,2760	351	1,0471		
52	2,8052	112	2,3019	172	1,8888	232	1,5499	292	1,2718	352	1,0436		
53	2,7960	113	2,2943	173	1,8826	233	1,5448	293	1,2676	353	1,0402		
54	2,7868	114	2,2867	174	1,8764	234	1,5397	294	1,2635	354	1,0368		
55	2,7776	115	2,2792	175	1,8703	235	1,5347	295	1,2593	355	1,0333		
56	2,7685	116	2,2717	176	1,8641	236	1,5296	296	1,2552	356	1,0299		
57	2,7594	117	2,2642	177	1,8580	237	1,5246	297	1,2510	357	1,0265		
58	2,7503	118	2,2568	178	1,8519	238	1,5196	298	1,2469	358	1,0232		
59	2,7412	119	2,2494	179	1,8458	239	1,5146	299	1,2428	359	1,0198		
60	2,7322	120	2,2420	180	1,8397	240	1,5096	300	1,2387	360	1,0164		

11. Tariff for the use of an Exit to serve a New Costumer during the Trial Operation Period for 2020 (par. 3 of Article 16 of Tariff Regulation)

ΧΝΠi (€/KWh GCV)	**2020**
i = North Zone	0,00155730
i = South Zone	0,00155730

12. Percentage surcharge p % (par. 4 of Article 17 of Tariff Regulation)

It is defined equal to 20%.