



GAS TRANSMISSION TARIFFS YEAR 2019 1st JANUARY 2019 – 31st DECEMBER 2019

Gas transmission tariffs have been calculated according to the provisions of the Delibera 575/2017/R/GAS published on 3rd August 2017 by the Authority for Electricity Gas and Water.

Gas transmission tariff for firm service on annual basis

The gas transmission tariff T for firm service on annual basis is defined by the following formula:

$$T = (K_e * C_{Pe}) + (K_u * C_{Pu}) + (K_r * C_{Rr}) + (V * CV);$$

where:

- K_e is the capacity booked by the user at entry point e of the national transmission network, expressed in Sm^3/d ;
- C_{Pe} is the capacity charge for the national transmission service related to the capacity booked at entry point e of the national transmission network, expressed in Euro/y/ Sm^3/d ;
- K_u is the capacity booked by the user at exit point u of the national transmission network, expressed in Sm^3/d ;
- C_{Pu} is the capacity charge for the national transmission service related to the capacity booked at exit point u of the national transmission network, expressed in Euro/y/ Sm^3/d ;
- K_r is the capacity booked by the user at redelivery point r of the regional transmission network, expressed in Sm^3/d ;
- C_{Rr} is the national capacity charge for the regional transmission service related to the capacity booked at redelivery point r of the regional transmission network, expressed in Euro/y/ Sm^3/d ;
- V is the gas quantity injected into the network, expressed in m^3 ;
- CV is the commodity charge, expressed in Euro/ m^3 .

The capacity charges C_{Pe} , C_{Pu} , C_{Rr} are applied to booked capacity independently from its actual utilization, while the commodity charges CV is applied to the actual gas quantities injected into the network in each of the entry point of the national transmission network, excluding entry points interconnected with storage systems.

Gas transmission tariff for interruptible transmission service

According to the comma 11.1 of the Annex A of Delibera 575/2017/R/GAS (“RTTG”), the interruptible transmission service is made available at entry points interconnected with foreign pipelines and it’s subjected to the following charge reductions, defined on the base of cost economies associated to this type of service.

For the Thermal Year 2018-2019 interruptible service will have the following characteristics:

- a 15% reduction of the C_{Pe} charge applies to interruptible capacity;
- the charge for the interruptible transmission service at the entry point of Vittorio Veneto, to be paid for the whole contractual period, is subject to a 15% reduction and the service is referred to an



interruption in absence of a net exit physical flow at the redelivery point of Vittorio Veneto (REMI 34569001).

The capacity charges CPU and CRr and the commodity charges CV are the same applied to firm capacity.

The table below shows the characteristics of the interruptible service on the basis of which the charges are applied and paid for the whole contractual period.

Characteristics of the interruptible transmission service

		Punti di ENTRATA			
		MAZARA DEL VALLO GELA TARVISIO GORIZIA		PASSO GRIES	
Periodo di conferimento della capacità		Interr. Totale (Tmax)	Interr. Parz. (T1max)	Interr. Totale (Tmax)	Interr. Parz. (T1max)
ANNUALE		37	28	29	26
	Durata max interr. (Dmax)	15		15	
	Preavviso (Pmin)	ore 16.00 (G-3) (*)		ore 16.00 (G-3) (*)	
TRIMESTRALE	Trimestre Ottobre-Dicembre	23	20	15	13
	Trimestre Gennaio-Marzo	14	19	20	13
	Trimestre Aprile-Giugno	13	9	3	1
	Trimestre Luglio-Settembre	32	11	3	1
	Durata max interr. (Dmax)	15		15	
Preavviso (Pmin)	ore 16.00 (G-3) (*)		ore 16.00 (G-3) (*)		
MENSILE	Ottobre	16	4	3	6
	Novembre	10	7	5	4
	Dicembre	5	8	10	3
	Gennaio	5	8	10	3
	Febbraio	1	12	10	3
	Marzo	12	8	4	5
	Aprile	4	3	2	2
	Maggio	7	5	2	0
	Giugno	7	5	2	0
	Luglio	7	5	2	0
	Agosto	20	7	2	0
	Settembre	7	5	2	2
	Durata max interr. (Dmax)	15		15	
Preavviso (Pmin)	ore 16.00 (G-3) (*)		ore 16.00 (G-3) (*)		

(**) Ore 16.00 del terzo Giorno Gas precedente a quello d'inizio dell'interruzione



Gas transmission tariff for firm capacity on infra-annual basis

According to the comma 10.1 of RTTG, a firm transmission service is made available at entry points interconnected with foreign pipelines and with regasification terminals on semi-annual, quarterly and monthly basis. The related charges are determined by applying the coefficients shown in the following table to the CPe capacity charges proportioned on Daily basis.

Multiplicative coefficients of the charge CPe	
Yearly	1
Six-month	1,1
Quarterly	1,2
Monthly	1,3
Daily	1,5



The gas transmission tariffs for year 2019, as approved with Delibera 306/2018/R/GAS of the Authority for Electricity Gas and Water, are listed in the following tables:

TARIFE TRASPORTO E DISPACCIAMENTO 1 GENNAIO 2019 - 31 DICEMBRE 2019

Tabella 1.1 Corrispettivi unitari di capacità di rete nazionale

Cp_e	EURO/a/Smc/g		EURO/a/Smc/g
Mazara del Vallo	3,797131	Carassai	0,252999
Gela	3,454935	Cellino	0,252999
Passo Gries	0,690045	Grottammare	0,252999
Tarvisio	1,146643	Montecosaro	0,252999
Gorizia	0,798560	Pineto	0,252999
GNL Panigaglia	0,285901	S. Giorgio M.	0,252999
GNL Cavarzere	0,578877	Capparuccia	0,252999
GNL OLT Livorno	0,349267	San Benedetto T.	0,252999
Hub Stocaggio	0,189256	Settefinestre/Passatempo	0,252999
Casteggio	0,092522	Fonte Filippo	0,344684
Caviaga	0,092522	Larino	0,344684
Fornovo	0,092522	Pontinia	0,344684
Montello	0,092522	Anzio	0,344684
Ovanengo	0,092522	Ortona	0,344684
Piadena Ovest	0,092522	Poggiofiorito	0,344684
Pontetidone	0,092522	Cupello	0,344684
Quarto	0,092522	Reggente	0,344684
Rivolta d'Adda	0,092522	S. Stefano M.	0,344684
Sarmato	0,092522	Candela	0,670955
Soresina	0,092522	Lucera	0,670955
Trecate	0,092522	Roseto/T. Vulgano	0,670955
Casalborsetti	0,131684	Venosa	0,670955
Collato	0,131684	Torrente Tona	0,670955
Bagnacavallo	0,131684	Calderasi/Monteverdese	1,328570
Formignana	0,131684	Metaponto	1,328570
Medicina	0,131684	Monte Alpi	1,328570
Montenevoso	0,131684	Guardia Perticara	1,328570
Muzza	0,131684	Garaguso	1,328570
Nervesa Della Battaglia	0,131684	Pisticci A.P./ B.P.	1,328570
Ravenna Mare	0,131684	Sinni (Polcoro)	1,328570
Ravenna Mare Lido Adriano	0,131684	Crotone	1,709427
Sant'Agata Bolognese	0,131684	Hera Lacinia	1,709427
Santeramo	0,131684	Rende	1,709427
Spilamberto B.P.	0,131684	Bronte	3,196717
Vittorio V. (S. Antonio)	0,131684	Comiso	3,196717
Rubicone	0,092522	Gagliano	3,196717
Falconara	0,233335	Mazara/Lippone	3,196717
Fano	0,233335	Noto	3,196717

CP_u	EURO/a/Smc/g		EURO/a/Smc/g
NOC - Nord Occidentale	2,281723	Bizzarone	3,598777
NOR - Nord Orientale	1,787898	Gorizia	1,891253
CEN - Centrale	2,281723	Rep. San Marino	3,645859
SOR - Centro-sud Orientale	2,148134	Passo Gries	2,107685
SOC - Centro-sud Occidentale	1,787898	Tarvisio	0,845674
MER - Meridionale	1,654308	Hub Stocaggio	0,619650

Tabella 1.2 Corrispettivo unitario di capacità di rete regionale unico a livello nazionale

CR_r unico	EURO/a/Smc/g
CR _r	1,285825
CR ^D	CR _r /2+D/15*CR _r /2 dove 0<D<15

Tabella 1.3 Corrispettivo unitario variabile

CV	EURO/Smc
CV	0,003388



The percentages to cover own use gas, network gas losses and unaccounted for gas for year 2019, as approved with Delibera 306/2018/R/GAS of the Authority for Electricity Gas and Water, are listed in the following table:

**PERCENTAGES TO COVER OWN USE GAS,
1ST JANUARY 2019 - 31ST DECEMBER 2019**

Table 1.4 - Percentages to cover own use gas

γ_{Fuel}^*	
Entry Point	0,511173%

** percentages applied to energy injected at the entry point of the national transmission network, not including entry points interconnected with the storage system.*

Table 1.5 - Percentages to cover network gas losses and unaccounted for gas

	γ_{GNC}^*	γ_{PE}^*
Redelivery point	0,106325%	0,093629%

** percentages applied to energy withdrawal at the redelivery points of the regional transmission network.*



**TARIFF FOR METERING SERVICE
YEAR 2019
1st JANUARY 2019 – 31st DECEMBER 2019**

The tariff for metering service has been calculated according to the provisions of the Delibera 575/2017/R/GAS published on 3rd August 2017 by the Authority for Electricity Gas and Water.

Tariffs for Metering Service for year 2019

The tariff for metering service TM for gas transmission service on annual basis is defined by the following formula:

$$TM = K_r * CM^T;$$

where:

- K_r is the capacity booked by the user at redelivery point r of the regional transmission network, expressed in Sm^3/d ;
- CM^T is the transitory charge for metering service, according to the comma 25 of the Delibera 575/2017/R/GAS, for the year 2019, related to the capacity booked at redelivery point r of the regional transmission network, expressed in Euro/y/ Sm^3/d ;

The transitory charge CM^T for year 2019, as approved with Delibera 306/2018/R/GAS of the Authority for Electricity Gas and Water, is listed in the following table:

**GAS METERING TARIFF
1st JANUARY 2019 - 31st DECEMBER 2019**

Table 1.6 Transitory charge for metering service

CM^T	EURO/a/Smc/g
CM^T	0,085511



NUMERICAL MODEL

A shipper has to supply a customer in Milan, with a consumption equal to 2,7 million cubic meter (38,1 MJ/Sm³). The quantities are delivered at the entry point of Tarvisio and re-delivered at the Redelivery point of Milan. For this scope the shipper shall ask the following booking capacities:

- Entry point of Tarvisio = 8.000 Sm³/d
- Entry point of Hub storage = 2.000 Sm³/d
- Exit point = 10.000 Sm³/d
- Exit point of Hub storage = 1.000 Sm³/d
- Redelivery point of Milan = 10.000 Sm³/d

The charge for transportation capacity is calculated as shown in the following example:

Capacity charges for the national transmission network (see tab1.1)

see Database Municipalities - Withdrawal Areas

Entry Point	TARVISIO	HUB Storage:		Exit point (homogeneous area)	NOR - Nord Orientale	HUB Storage:		Rate CAPACITY RRG
Capacity booked	Sm ³ /d	8.000	2.000	Capacity booked	Sm ³ /d	10.000	1.000	Euro
CPe	Euro/y/Sm ³ /d	1,146643	0,189256	CPu	Euro/y/Sm ³ /d	1,787898	0,619650	28.050,286
Charge	Euro	9.173,144	378,512	Charge	Euro	17.878,980	619,650	

Capacity charges for the regional transmission network (see tab1.2)

Redelivery Point	MILAN		Rate CAPACITY RRG
Distance from RRG	km	>15	Euro
Capacity booked	Sm ³ /d	10.000	12.858,250
CRr	Euro/y/Sm ³ /d	1,285825	
Charge	Euro	12.858,250	

Unit Commodity Charge (see tab1.3)

VOLUME			Rate Commodity
Volume per year	m ³	2.700.000	Euro
Amount to cover			9.082,679
AC+Pe+GNC	m ³	19.162	
	m ³	2.680.838	
CV	Euro/m ³	0,003388	
Charge	Euro	9.082,679	

Transmission charges del. 575/2017/R/GAS and del. 306/2018/R/GAS

TOTAL
Euro
49.991,215

Metering Charge

Redelivery Point	MILAN		Rate metering
Booking capacity	Sm ³ /d	10.000	Euro
CM ¹	Euro/y/Sm ³ /d	0,085511	855,110
	Euro	855,110	

Transmission charges and Metering Charge del. 575/2013/R/GAS and del. 306/2018/R/GAS

TOTAL
Euro
50.846,325



Own use gas, network gas losses and unaccounted for gas

OWN USE GAS		
Energy injected	GJ	102.870
Percentage at Entry - Tarv	%	0,511173
Own use gas rate	GJ	526

Network gas losses		
Energy withdrawal	GJ	102.140
Percentage	%	0,093629
Network gas losses rate	GJ	96

GNC		
Energy withdrawal	GJ	102.140
Percentage	%	0,106325
GNC rate	GJ	109

Own use gas rate
GJ
526

+

Network gas losses rate
GJ
96

+

GNC rate
GJ
109

=

TOTALE
GJ
730