



**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 Regulatory Authority for Energy, Networks and the Environment (ARERA)

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 service on non-yearly capacity

According to the Article 10 of the RTTG, in the case of non-yearly capacity as defined in the Snam Rete Gas Network Code, the related CPe capacity charge is re-proportioned on a daily basis and the multipliers set out in Table 4 attached to the RTTG and shown below are applied¹.

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

¹ For Thermoelectric Redelivery Points the level of multipliers are defined in the Resolution no. 512/2017/R/gas of the ARERA.



The gas transmission tariffs for year 2019, as approved with Delibera 306/2018/R/GAS of the ARERA, 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	#PDE		EURO/a/Smc/g
35718401	Mazara del Vallo	3,797131	35725001	Carassai	0,252999
50029701	Gela	3,454935	35725101	Cellino	0,252999
35718200	Passo Gries	0,690045	35726000	Grottammare	0,252999
35718301	Tarvisio	1,146643	35728501	Montecosaro	0,252999
50020901	Gorizia	0,798560	35726700	Pineto	0,252999
35717701	GNL Panigaglia	0,285901	35728100	S. Giorgio M.	0,252999
50081701	GNL Cavarzere	0,578877	50108301	Capparuccia	0,252999
50102201	GNL OLT Livorno	0,349267	35727301	San Benedetto T.	0,252999
STEDG_WTH	Hub Stocaggio	0,189256	35729801	Settefinestre/ Passatemp	0,252999
STENI_WTH	Hub Stocaggio	0,189256	50013201	Fonte Filippo	0,344684
35720401	Casteggio	0,092522	35167700	Larino	0,344684
35723401	Caviaga	0,092522	50141101	Pontinia	0,344684
35724301	Fornovo	0,092522	50141901	Anzio	0,344684
50136901	Montello	0,092522	50045101	Ortona	0,344684
35721401	Ovanengo	0,092522	35728901	Poggiofiorito	0,344684
35721601	Piadena Ovest	0,092522	50121001	Cupello	0,344684
35721701	Pontetidone	0,092522	35727100	Reggente	0,344684
50013101	Quarto	0,092522	35728001	S. Stefano M.	0,344684
50070201	Rivolta d'Adda	0,092522	35724901	Candela	0,670955
50142501	Sarmato	0,092522	50140901	Lucera	0,670955
35722801	Soresina	0,092522	35727201	Roseto/T. Vulgano	0,670955
35723701	Trecate	0,092522	50142601	Venosa	0,670955
35720301	Casalborsetti	0,131684	35727701	Torrente Tona	0,670955
50081801	Collalto	0,131684	35729901	Calderasi/ Monteverdese	1,328570
50138901	Bagnacavallo	0,131684	35728601	Metaponto	1,328570
50141301	Formignana	0,131684	35852201	Monte Alpi	1,328570
50071201	Medicina	0,131684	50117701	Guardia Perticara	1,328570
35724101	Montenevoso	0,131684	50126001	Garaguso	1,328570
35801601	Muzza	0,131684	35728400	Pisticci A.P./ B.P.	1,328570
50127101	Nervesa Della Battaglia	0,131684	35729701	Sinni (Policoro)	1,328570
35721901	Ravenna Mare	0,131684	35725201	Crotone	1,709427
50086901	Ravenna Mare Lido Adria	0,131684	35726101	Hera Lacinia	1,709427
50139301	Sant'Agata Bolognese	0,131684	50141501	Rende	1,709427
35722401	Santeramo	0,131684	35730101	Bronte	3,196717
35722901	Spilamberto B.P.	0,131684	50081901	Comiso	3,196717
35814801	Vittorio V. (S. Antonio)	0,131684	35730201	Gagliano	3,196717
35722201	Rubicone	0,092522	35730301	Mazara/Lippone	3,196717
35725401	Falconara	0,233335	50001301	Noto	3,196717
35725601	Fano	0,233335			

CP_u		EURO/a/Smc/g	#PDU		EURO/a/Smc/g
#PDU			35718701	Bizzarone	3,598777
NOC	Nord Occidentale	2,281723	35718901	Gorizia	1,891253
NOR	Nord Orientale	1,787898	34640200	Rep. San Marino	3,645859
CEN	Centrale	2,281723	50039801	Passo Gries	2,107685
SOR	Centro-sud Orientale	2,148134	50039901	Tarvisio	0,845674
SOC	Centro-sud Occidentale	1,787898	STEDG_INU	Hub Stocaggio	0,619650
MER	Meridionale	1,654308	STENI_INU	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 _r ^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 ARERA, 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 Regulatory Authority for Energy, Networks and the Environment (ARERA).

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 ARERA, 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.
Capacity booked	Sm ³ /d	8.000	2.000
CPe	Euro/Sm ³ /d	1,146643	0,189256
Charge	Euro	9.173,144	378,512

Exit point (homogeneous area)		NOR - Nord Orientale	HUB Storage.
Capacity booked	Sm ³ /d	10.000	1.000
CPu	Euro/Sm ³ /d	1,787898	0,619650
Charge	Euro	17.878,980	619,650

Rate CAPACITY RRG
Euro
28.050,286

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

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

(see database Redelivery points)

Rate CAPACITY RRG
Euro
12.858,250

Unit Commodity Charge (see tab1.3)

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

Rate Commodity
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
Booking capacity	Sm ³ /d	10.000
CM ¹	Euro/Sm ³ /d	0,085511
	Euro	855,110

Rate metering
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