

TRANSPARENCY ON TRANSMISSION TARIFFS

GAS YEAR 2021-2022

Information to be published pursuant to Article 30 of
Commission Regulation (EU) 2017/460

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Introduction

[Commission Regulation \(EU\) 2017/460](#) of 16 March 2017 establishes a network code defining the rules for harmonized structures for gas transmission tariffs ("Tariff Network Code"), including rules on the application of a reference price methodology, on the calculation of reserve prices for standardized capacity products and on the publication requirements, among others. The publication requirements are defined in Articles 29 and 30 of the Tariff Network Code.

Article 29 refers to the information to publish before the annual yearly capacity auction, and refers to standard capacity products for firm capacity and for interruptible capacity, covering information on reserve prices, multipliers, seasonal factors and evaluation of the probability of interruption. This information must be published no later than 30 days before the annual yearly capacity auction.

Article 30 refers to the information to publish before the tariff period, and refers to the information associated with the approval of transmission tariffs for natural gas, covering information on the determination of allowed revenues and tariffs. This information must be published no later than 30 days before the tariff period ¹.

This document ² presents the information required under article 30 of the Tariff Network Code. The information required under article 29 has been published in a separate document ³.

Legal notice

The information provided in this document aims to comply with the provisions of Article 29 of Commission Regulation (EU) 2017/460 of 16 March 2017, establishing a network code on harmonised transmission tariff structures for gas, not dispensing with the consultation of the [ERSE Directive n.º 12/2021](#), de 29 de June ⁴, which approves the tariffs and prices for natural gas for the gas year 2021-2022. In case of discrepancy, the information published by the [ERSE Directive n.º 12/2021](#) prevails over the information disclosed in this document.

¹ Starting with gas year 2019-2020, the tariff period begins on October 1st and lasts for one year.

² Available at [Transmission tariffs transparency](#) (ERSE's webpage).

³ Available at [Transmission tariffs transparency](#) (ERSE's webpage).

⁴ Only in Portuguese.

Art. 30 (1)(a) Technical parameters

Pursuant to Article 30(1)(a), it is necessary to publish the parameters used in the reference price methodology which relate to the technical characteristics of the transmission system. Such parameters include the technical capacities per network point, the forecasted capacities per network point, the structural representation of the network and other parameters relevant for the reference price methodology.

Technical capacity at the entry and exit points

Table 1 presents the entry and exit technical capacities of the transmission network for four different points.

Table 1 - Technical capacity by point of the transmission network, in GWh/day

	Entry	Exit
Interconnection point (Campo Maior)	134,00	55,00
Interconnection point (Valença do Minho)	10,00	25,00
LNG terminal	200,00	5,00
Underground storage	85,68	85,68

Some of the underlying assumptions need to be clarified:

- the two interconnection points (*Campo Maior* and *Valença do Minho*) are bidirectional, presenting positive technical capabilities in both directions;
- regarding the LNG terminal, although the gas flow is unidirectional, agents may, by means of a contract, place gas in the terminal through a reduction of the physical flow of gas leaving the terminal, implying that the terminal can function as an exit point as well;
- for underground storage the same technical capacity was assumed in both directions.

Forecasted capacity at entry and exit points

Table 2 presents the forecasted capacities⁵ used to determine the transmission tariffs for gas year 2021-2022. It should be noted that the last column indicates the type of capacity for the billing of the tariff for the use of the transmission system⁶.

Table 2 - Forecasted capacities by capacity type for gas year 2021-2022

	Point	Product	2021-2022	Unit	Type
Entry	VIP Iberico	Yearly	1 355 040	kWh/day	Contracted
		Quarterly	14 977 076	kWh/day	Contracted
		Monthly	1 607 780	kWh/day	Contracted
		Daily	8 772 829	kWh/day	Contracted
		Intraday	0	kWh/h	Contracted
	LNG terminal	Yearly	200 000 000	kWh/day	Contracted
		Quarterly	0	kWh/day	Contracted
		Monthly	0	kWh/day	Contracted
		Daily	0	kWh/day	Contracted
		Intraday	0	kWh/h	Contracted
	Underground Storage	Daily	7 530 606	kWh/day	Contracted
		Intraday	0	kWh/h	Contracted
	Gas producers	Used capacity at injection	0	kWh/day	Used
	Exit	VIP Iberico	Yearly	0	kWh/day
Quarterly			0	kWh/day	Contracted
Monthly			0	kWh/day	Contracted
Daily			2 414 103	kWh/day	Contracted
Intraday			0	kWh/h	Contracted
LNG terminal		Yearly	0	kWh/day	Contracted
		Quarterly	0	kWh/day	Contracted
		Monthly	0	kWh/day	Contracted
		Daily	0	kWh/day	Contracted
		Intraday	0	kWh/h	Contracted
Underground Storage		Daily	7 551 238	kWh/day	Contracted
		Intraday	0	kWh/h	Contracted
Distribution networks and HP Customers		Long Uses	177 607 300	kWh/day	Used
HP Customers		Annual Flexible Rate - Annual Base Capacity	99 006 437	kWh/day	Used
		Annual Flexible Rate - Additional Monthly Capacity (April to September)	1 375 626	kWh/day	Used
		Flexible Monthly Rate - Monthly Capacity (October to March)	23 164 114	kWh/day	Used
		Flexible Monthly Rate - Monthly Capacity (April to September)	20 643 838	kWh/day	Used
		Daily Flexible Rate - Daily Capacity (October to March)	0	kWh/day	Used
		Daily Flexible Rate - Daily Capacity (April to September)	0	kWh/day	Used

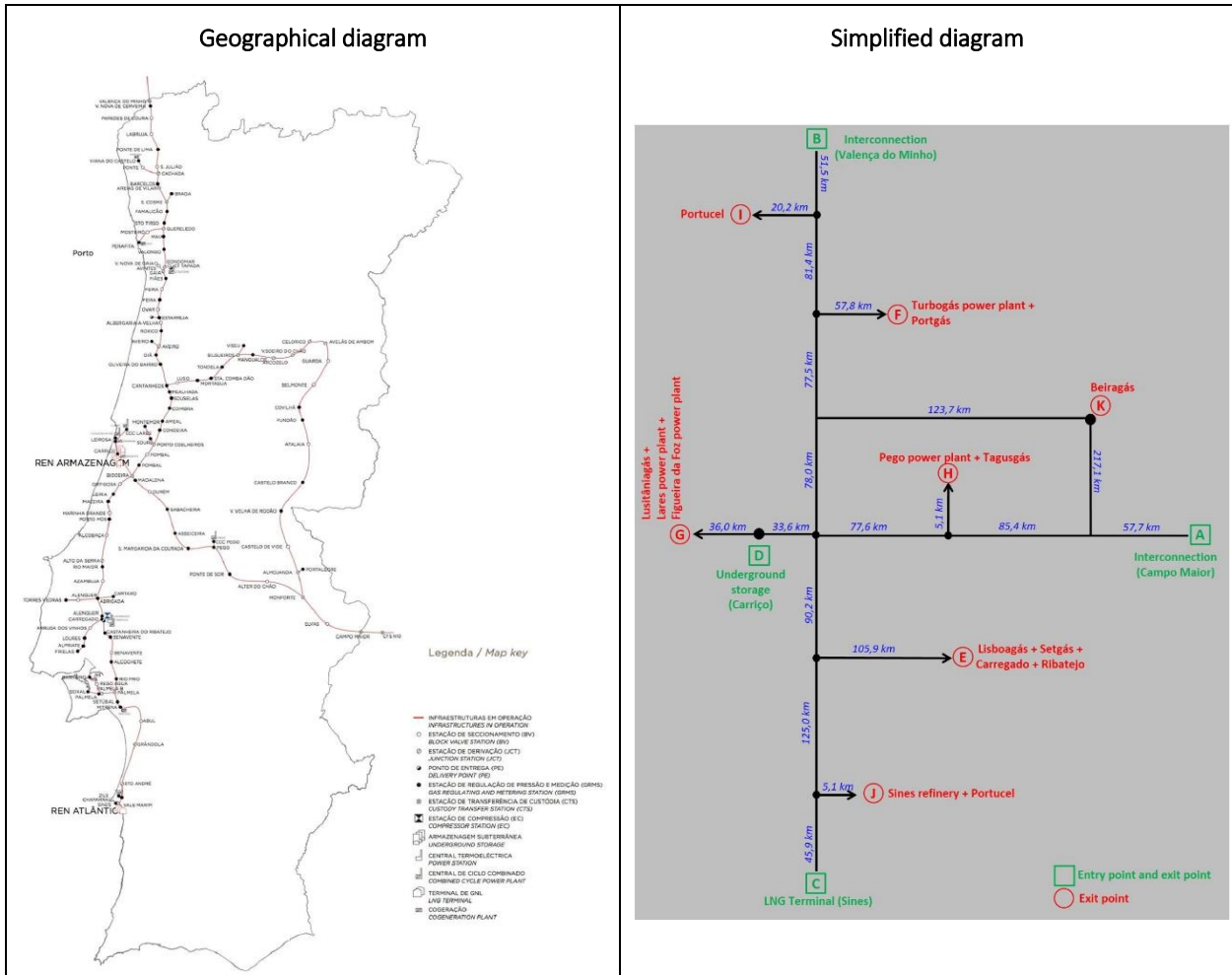
⁵ In the case of VIP Iberico, LNG terminal and Underground storage the values presented refer to products of firm capacity.

⁶ **Contracted Capacity** - Capacity value reserved by the market agent in capacity allocation processes, constituting a capacity utilization right with a binding payment, regardless of actual use, for various time horizons. **Capacity used** - Maximum daily energy, measured at the point of delivery of the transmission grid for a given horizon (usually for the horizon of the last twelve months, except for shorter products).

Structural representation of the transmission network

Table 3 presents a geographical⁷ and a simplified diagram of the transmission network, the latter being relevant for the application of the reference price methodology.

Table 3 - Geographical and simplified diagram of the transmission network



The simplified diagram is characterized by the fact that the various consumption points are grouped into seven clusters of exit points (called E to K). Table 4 summarizes the list of points identified in the simplified diagram, further classifying whether the points correspond to points of entry or exit from the transmission network.

⁷ For a more detailed representation of the national transmission network visit the TSO's [webpage](#).

Table 4 - Points of the transmission network in the simplified diagram

Point	Type of point	Entry	Exit
A - Campo Maior	Interconnection point	•	•
B - Valença do Minho	Interconnection point	•	•
C - LNG terminal (Sines)	LNG terminal	•	•
D - Underground storage (Carriço)	Storage	•	•
E - Lisboagás, Setgás, Carregado, Ribatejo	Consumption		•
F - Portgás, Outeiro power plant	Consumption		•
G - Lusitâniagás, Lares power plant, Figueira da Foz power plant	Consumption		•
H - Tagusgás, Pego power plant	Consumption		•
I - Portucel	Consumption		•
J - Sines Refinery, Portucel	Consumption		•
K - Beiragás	Consumption		•

Given the simplified diagram in Table 3 and the list of network points in Table 4, it is possible to determine the distance matrix that measures the distances between each entry point and each exit point (Table 5). It should be noted that according to the simplified diagram the four entry points (A - D) also represent exit points from the transmission network.

Table 5 – Distance matrix, in km

Distance matrix											
km	A	B	C	D	E	F	G	H	I	J	K
A	0,0	509,0	481,8	254,3	416,9	434,0	290,2	148,2	477,8	441,0	274,9
B	509,0	0,0	549,5	321,9	484,5	190,7	357,9	371,0	71,7	508,6	334,0
C	481,8	549,5	0,0	294,7	276,8	474,4	330,7	343,8	518,2	51,1	462,8
D	254,3	321,9	294,7	0,0	229,7	246,9	36,0	116,2	290,6	253,8	235,2

Note: Rows refer to the four entry points (A - D) and the columns refer to the eleven exit points (A - K).

Other parameters relevant for the reference price methodology

The reference price methodology uses two core concepts to define reference prices, namely the concepts of effective distance and effective capacity.

Firstly, the **effective distance**⁸ is equivalent to the distance between two points in the network, times a multiplicative factor that will be greater than 100% if the gas flow between these two points uses additional

⁸ Effective distance, measured in km, is given by $D_{ij}^e = D_{ij} \times v_{ij}$, where D_{ij} is distance, measured in km, between an entry point i and an exit point j , and where v_{ij} is the economic value factor, set by ERSE, for the route between an entry point i and an exit point j , in order to reflect the economic value of the transmission assets used.

network assets that are not measurable in terms of distance but in economic terms. This multiplicative factor is called the economic value factor.

In case of entry-exit combinations using GRMS⁹ the economic value factor is 131.6% to reflect the economic value of the GRMS.¹⁰ For entry-exit combinations that do not use GRMS the economic value factor is 100%.

Secondly, **effective capacity**¹¹ is equal to the forecasted capacity for each entry point and each exit point, times a multiplicative factor that measures network utilization at that point. For a point that presents permanently a capacity equal to the technical capacity, the multiplicative factor, called the physical utilization factor, will be equal to 100%. For points whose utilization is less than technical capacity, the physical utilization factor shall be less than 100% and shall be determined by the ratio of physical flows to technical capacity.¹²

Table 6 presents the physical utilization factor per network point, where the measure of physical flows used corresponds to the average value of daily natural gas flows in the 10% of the days with highest utilization for a period of 3 years.¹³

⁹ Entry-exit combinations using GRMS (gas regulation and metering stations) are all combinations that have High Pressure customers or distribution networks as their exit point.

¹⁰ The value of 131.6% results from the fact that GRMS represent on average 24% of investments in the national transmission network. Therefore, compared to the pipelines, which represent the remaining 76%, the use of GRMS represents an additional investment of 31.6% ($24\% \div 76\%$).

¹¹ Effective capacity, measured in kWh/d, is given by $K_p^e = K_p \times f_p$, where K_p is forecasted capacity, measured in kWh/d, at point p (entry point or exit point), and where f_p is the physical utilization factor, set by ERSE, at point p (entry point or exit point).

¹² For situations where the tariff structure provides the same price for a set of points, the physical utilization factor has been calculated for these sets of points, and not for each point individually. Thus, in the case of the VIP (points A and B) and in the case of consumption points (points E through K) a joint value was calculated.

¹³ Information was used for the period from March 1, 2016 to February 28, 2019 (10% of the days in 3 years equals a total of 109 days).

Table 6 - Physical utilization factor, by point of the transmission network

			Technical capacity	Physical flow	Physical utilization factor
			kWh/day	kWh/day	%
Entry	A	Campo Maior	134 000 000	121 162 499	90,4%
	B	Valença do Minho	10 000 000	9 041 978	90,4%
	C	LNG terminal (Sines)	200 000 000	178 819 192	89,4%
	D	Underground storage (Carricho)	85 680 000	42 207 941	49,3%
Exit	A	Campo Maior	55 000 000	3 684 374	6,7%
	B	Valença do Minho	25 000 000	1 674 716	6,7%
	C	LNG terminal (Sines)	5 000 000	0	0,0%
	D	Underground storage (Carricho)	85 680 000	24 083 404	28,1%
	E	Lisboagás, Setgás, Carregado, Ribatejo	99 517 590	58 579 525	58,9%
	F	Portgás, Outeiro power plant	119 032 194	70 066 501	58,9%
	G	Lusitâniagás, Lares power plant, Figueira da Foz power plant	103 283 677	60 796 374	58,9%
	H	Tagusgás, Pego power plant	50 785 037	29 893 844	58,9%
	I	Portucel	7 156 599	4 212 624	58,9%
	J	Sines Refinery, Portucel	44 610 181	26 259 108	58,9%
	K	Beiragás	5 294 723	3 116 659	58,9%

Art. 30 (1)(b)(i,ii) Allowed revenues

The allowed revenues of the transmission system operator for the gas year 2021-2022, and the percentage change from this figure compared to the previous gas year, are summarized in the table below.

<p>Art. 30 (1)(b)(i) Allowed or target revenue, or both, of the transmission system operator</p>	<p>29 749 247 € (revenues recovered)</p>
<p>Art. 30 (1)(b)(ii) Information related to changes in the revenue referred to in point (i) from one year to the next year</p>	<p>-1,5% (change of annual revenues recovered compared with gas year 2020/2021)</p>

Art. 30 (1)(b)(iii) Revenue parameters

This section refers to a number of parameters related to the determination of the allowed revenues of the transmission system operator. The structure of the information provided follows the recommendation¹⁴ of the Agency for the Cooperation of Energy Regulators (ACER) and is divided into the following topics:

1. Description of the revenue methodology.
2. Values of the parameters.
3. Values of costs and expenditures that are used for setting the allowed or target revenue.

In addition, more detailed information on depreciation of assets is included in two annexes (Table 7, Table 8).

¹⁴ Recommendation included in the implementation monitoring report concerning the Tariff Network Code, « [The internal gas market in Europe: The role of transmission tariffs](#) », ACER, April 2020, page 71.

TRANSPARENCY OF TRANSMISSION TARIFFS

Information to be published pursuant to Article 30 of Commission Regulation (EU) 2017/460

Art. 30 (1)(b)(iii)	
(1) A description of the methodology, including at least a description of:	
(a) The overall methodology, such as revenue-cap, hybrid, cost-plus or tariff benchmarking;	A price cap methodology is applied to operational expenditures, with a fixed part and a variable amount indexed to the evolution of physical variables. For CAPEX, a rate-of-return type methodology is applied. Allowed revenues are adjusted each two years, based on real audited
(b) The methodology to set the regulated asset base;	The regulated asset base consists of the average value of assets net of investment subsidies and amortizations and depreciations. The value of works in progress are not considered in the regulated asset base.
i. Methodologies to determine the initial (opening) value of the assets;	For the first regulatory period (2007) the RAB was re-evaluated by the government (ICR).
ii. Methodologies to re-evaluate the assets;	No revaluation of assets (ICR).
iii. Explanations of the evolution of the value of the assets;	Assets grow annually by the addition of new assets and the deduction of assets write-offs and subsidies.
(c) The methodology to set the cost of capital;	Gas TSO WACC is a pre-tax nominal. The calculation methodology for the cost of equity is the Capital Asset Pricing Model (CAPM) and the methodology for the cost of debt is the default spread. The WACC to be applied in the regulatory period 2020-2023 is indexed to the Portuguese 10 year bond benchmark and depends, in each year, on its evolution, with a cap (8,80%) and a floor (4,50%).
(d) The methodology to determine the TOTEX or, if applicable, OPEX and CAPEX;	For OPEX, a price cap methodology is applied, with a fixed part and a variable part indexed to the evolution of physical variables (used exit capacity based on the daily maximum over a 12 month period and an annual efficiency target of 3%). At the OPEX level, LNG transport costs by road are also considered. CAPEX is determined by the remuneration of the regulated assets base (WACC x RAB), plus amortizations and depreciation net of investment subsidies. Works in progress are not remunerated.
(e) The methodology to determine the efficiency of the cost, if applicable.	An analysis of the evolution of OPEX over the last few years is carried out to set parameters for the natural gas transport activity. Based on this evolution, the regulatory cost base is reviewed, which aims to share efficiency performance with consumers. Based on the analysis carried out, it is also assessed whether the efficiency targets imposed to the company in the previous regulatory period are in line with the level of costs achieved, and depending on the result, the efficiency factors may be reviewed. Finally, the relative efficiency position of the TSO vis-a-vis other European peers in terms is also assessed and monitored with the participation in a European benchmarking.

Art. 30 (1)(b)(iii)	
(2) The values of the parameters:	
(a) Cost of equity and cost of debt or weighted average cost of capital in percentages;	Weighted average cost of capital - 4,50%
(b) Depreciation periods in years;	Depreciation rates have remained stable since gas year 2018/2019 . See table below (Annex A with average rates of depreciation by type of asset).
(c) Efficiency targets in percentages;	3%
(d) Inflation indices;	2021: 1,3% 2022: 1,4%

Art. 30 (1)(b)(iii)	
(3) The values of costs and expenditures that are used for setting the allowed or target revenue in the local currency and in Euro	
(a) The regulated asset base per asset type;	541 270 656 € (net weighted average asset value)
(b) The depreciation per asset type;	See table below (Annex B with annual depreciation amounts by type of asset).
(c) The cost of capital;	52 085 519 €
(d) Operational expenditures.	18 259 060 €

Table 7 - Annex A: Average depreciation rate per asset type

Asset type	Average rate of depreciation
Industrial property	5,26%
Land and Natural Resources	2,52%
Buildings and Other Constructions	2,11%
Basic Equipment	2,82%
Transporte Equipment	12,13%
Tools and Utensils	6,49%
Office Equipment	3,87%
Other tangible fixed assets	1,68%

Table 8 - Annex B: Average annual depreciation value per asset type

Asset type	Average annual values of depreciation by assets type (gas year)
Industrial property	1 526 316 €
Land and Natural Resources	1 951 515 €
Buildings and Other Constructions	424 197 €
Basic Equipment	29 599 748 €
Transporte Equipment	382 158 €
Tools and Utensils	96 125 €
Office Equipment	314 534 €
Other tangible fixed assets	27 866 €

Art. 30 (1)(b)(iv,v) Transmission service revenue

The following table presents the value of transmission services revenue and various ratios that characterize the tariff structure.

Art. 30 (1)(b)(iv) Transmission services revenue	29 749 247 €
Art. 30 (1)(b)(v)(1) Capacity-commodity split, meaning the breakdown between the revenue from capacity-based transmission tariffs and the revenue from commodity-based transmission tariffs	100% / 0% Transmission tariffs are entirely capacity-based.
Art. 30 (1)(b)(v)(2) Entry-exit split, meaning the breakdown between the revenue from capacity-based transmission tariffs at all entry points and the revenue from capacity-based transmission tariffs at all exit points	28% / 72% Transmission tariffs are set in order to achieve an entry-exit split of 28/72.
Art. 30 (1)(b)(v)(3) Intra-system/cross-system split, meaning the breakdown between the revenue from intra-system network use at both entry points and exit points and the revenue from cross-system network use at both entry points and exit points calculated as set out in Article 5	0,7% / 99,3% The cross-system network use is very limited in the case of Portugal, where the interconnection points are mainly used for the import of natural gas.

Art. 30 (1)(b)(vi,vii) Reconciliation mechanism and auction premium

The following table characterizes the regulatory account reconciliation process and the use of the auction premium.

Art. 30 (1)(b)(vi)(1) Reconciliation of the regulatory account: the actually obtained revenue, the under- or over-recovery of the allowed revenue and the part thereof attributed to the regulatory account and, if applicable, sub-accounts within such regulatory account	In the last real year (2019) the amount of actually obtained revenues was 99 566 thousand euros. This means that in the year 2019 the billing was higher than the allowed revenues (an over-recovery of 12 868 thousand euros).
Art. 30 (1)(b)(vi)(2) Reconciliation of the regulatory account: the reconciliation period and the incentive mechanisms implemented	The reconciliation period is of 2 years. No incentive mechanisms are applied.
Art. 30 (1)(b)(vii) The intended use of the auction premium	Auction premium obtained are deducted to the TSO allowed revenues. Thus, auction premium return to gas consumers.

Art. 30 (1)(c) Transmission and non-transmission tariffs

The transmission tariffs for gas year 2021-2022 are in the following five tables:

- Prices for entry points from infrastructures in High Pressure¹⁵, distinguishing between firm capacity products (Table 9) and interruptible capacity products (Table 10).
- Prices for exit points to infrastructures in High Pressure, distinguishing between firm capacity products (Table 11) and interruptible capacity products (Table 12).
- Prices for entry points from gas producers (Table 13).
- Prices for the exit points to distribution networks, customers in High Pressure (HP) and facilities supplied by autonomous gas units (Table 14).

For an explanation of the impact of the transmission tariff on the final customer's invoice, it is recommended to consult the information in the annex (page 25).

¹⁵ High-pressure infrastructures are VIP Iberico, the LNG terminal at Sines and Underground storage at Carriço.

Table 9 - Prices of the tariff for the use of the transmission system for firm capacity products, by entry point

PRICES OF THE TRANSMISSION TARIFF: ENTRY POINTS	
Firm capacity products (daily horizon or higher)	
VIP Iberico	Contracted capacity
	EUR/(kWh/day)/day
Annual	0,00010143
Quarterly	0,00013186
Monthly	0,00015215
Daily	0,00020286
LNG Terminal	Contracted capacity
	EUR/(kWh/day)/day
Annual	0,00009342
Quarterly	0,00012145
Monthly	0,00014014
Daily	0,00018685
Underground storage	Contracted capacity
	EUR/(kWh/day)/day
Daily	0,00000000
PRICES OF THE TRANSMISSION TARIFF: ENTRY POINTS	
Firm capacity products (within-day horizon)	
VIP Iberico	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00022315
LNG Terminal	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00020553
Underground storage	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00000000

Table 10 - Prices of the tariff for the use of the transmission system for interruptible capacity products, by entry point

PRICES OF THE TRANSMISSION TARIFF: ENTRY POINTS	
Interruptible capacity products (daily horizon)	
VIP Iberico	Contracted capacity
	EUR/(kWh/day)/day
Daily	0,00018846
PRICES OF THE TRANSMISSION TARIFF: ENTRY POINTS	
Interruptible capacity products (within-day horizon)	
VIP Iberico	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00020731
LNG Terminal	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00015106
Underground storage	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00000000

Table 11 - Prices of the tariff for the use of the transmission system for firm capacity products, by exit point

PRICES OF THE TRANSMISSION TARIFF: EXIT POINTS	
Firm capacity products (daily horizon or higher)	
VIP Iberico	Contracted capacity
	EUR/(kWh/day)/day
Annual	0,00002222
Quarterly	0,00002888
Monthly	0,00003332
Daily	0,00004443
LNG Terminal	Contracted capacity
	EUR/(kWh/day)/day
Annual	0,00000000
Quarterly	0,00000000
Monthly	0,00000000
Daily	0,00000000
Underground storage	Contracted capacity
	EUR/(kWh/day)/day
Daily	0,00000000
PRICES OF THE TRANSMISSION TARIFF: EXIT POINTS	
Firm capacity products (within-day horizon)	
VIP Iberico	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00004887
LNG Terminal	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00000000
Underground storage	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00000000

Table 12 - Prices of the tariff for the use of the transmission system for interruptible capacity products, by exit point

PRICES OF THE TRANSMISSION TARIFF: EXIT POINTS	
Interruptible capacity products (daily horizon)	
VIP Iberico	Contracted capacity
	EUR/(kWh/day)/day
Daily	0,00004128
LNG Terminal	Contracted capacity
	EUR/(kWh/day)/day
Daily	0,00000000
PRICES OF THE TRANSMISSION TARIFF: EXIT POINTS	
Interruptible capacity products (within-day horizon)	
VIP Iberico	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00004540
LNG Terminal	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00000000
Underground storage	Contracted capacity
	EUR/(kWh/h)/h
Within-day	0,00000000

Table 13 - Prices of the tariff for the use of the transmission system, by entry point (gas producers)

TARIFF FOR THE USE OF THE TRANSMISSION NETWORK APPLIED BY THE TSO	
By entry point	
Gas producers (connected to the transmission network)	Used capacity at injection
	EUR/(kWh/day)/day
Gas injection	0,00002747

Table 14 - Prices of the tariff for the use of the transmission system, by exit point (distribution networks, customers in HP and facilities supplied by autonomous gas units)

TARIFF FOR THE USE OF THE TRANSMISSION NETWORK APPLIED BY THE TSO		
By exit point and tariff option		
Distribution networks and HP Customers		Used capacity
		EUR/(kWh/day)/day
Long uses		0,00017865
HP Customers	Annual base capacity	Monthly additional capacity (april to september)
	EUR/(kWh/day)/day	EUR/(kWh/day)/day
Flexible annual tariff	0,00017865	0,00026798
HP Customers	Monthly capacity (october to march)	Monthly capacity (april to september)
	EUR/(kWh/day)/day	EUR/(kWh/day)/day
Flexible monthly tariff	0,00053596	0,00026798
HP Customers	Daily capacity (october to march)	Daily capacity (april to september)
	EUR/(kWh/day)/day	EUR/(kWh/day)/day
Flexible daily tariff	0,00178654	0,00107193
Facilities supplied by UAG (customer-owned)		Commodity
		EUR/kWh
Commodity		0,000435

Neither energy-based¹⁶ transmission tariffs nor non-transmission tariffs for non-transmission services are applied in the terms referred to in Article 4(3) and Article 4(4), respectively.

For more information on how transmission tariffs are reflected in the bill of final customers, please check the annex at end of this document.

¹⁶ It should be noted that the price applicable to customer-owned UAG installations (autonomous gas units), although expressed in the EUR/kWh unit, results from a capacity-based price obtained using the reference price methodology, which is subsequently converted due to the impossibility of measuring a capacity concept for this type of consumer.

Art. 30 (2)(a) Tariff changes and trends

In addition to the tariffs for the use of the transmission system for gas year 2021-2022, Table 15 also shows the respective prices for the previous two gas years and the following gas year.

It should be clarified that the transmission tariffs for gas year 2022-2023 correspond to estimates assuming the same level of allowed revenue and demand as for gas year 2021-2022.

Table 16 shows the annual changes in transmission tariffs for gas years 2019-2020, 2020-2021, 2021-2022 and 2022-2023. The variations presented are explained by the following effects:

Gas year 2019-2020

- The variations in tariffs reflect the reduction of 21.2% in allowed revenues of the transmission system operator, mainly due to the intertemporal deferral of revenue deviations.
- At entry points, the following effects are highlighted:
 - For the LNG terminal the reduction is greater than for the VIP due to the reference price methodology introduced with gas year 2019-2020 (according to this methodology the gas introduced into the system through the VIP implies, in comparison, a greater use of the transmission network).
 - For underground storage there is a 100% reduction resulting from the application of a 100% discount. The application of this discount complies with the Tariff Network Code and is intended to make it easier for traders to be in balance through the use of the underground storage, taking advantage of the flexibility this infrastructure can provide to the system.
- At exit points, the following effects are highlighted:
 - The variation in exit point tariffs for customers connected to the transmission network and for distribution networks is -18.9%, due to the reduction in allowed revenues.

Gas year 2020-2021

- The variations in tariffs reflect the reduction of 58.8% in allowed revenues of the transmission system operator, mainly due to the intertemporal deferral of revenue deviations.
- At entry points, the following effects are highlighted:
 - At VIP Iberico and the LNG terminal the reduction is equal to 64.3%. The reduction is driven by the reduction in allowed revenues and the increase in forecasted demand.
 - For underground storage the percentage variation is not presented because the prices are zero.
- At exit points, the following effects are highlighted:
 - The variation in exit point tariffs is -51.0%, due to the reduction in allowed revenues.

Gas year 2021-2022

- The variations in tariffs reflect changes in the demand structure forecasted for gas year 2021-2022, with a reduction in the forecasted capacity for entry points, at the same time that an increase in the demand at exit points is forecasted. This change explains that the magnitude of variations is not aligned with the variation of the allowed revenues (-1.5%).
- At entry points, the following effects are highlighted:
 - At VIP Iberico and the LNG terminal the increase is equal to 7.0%. The increase is driven by the decrease in forecasted demand.
 - For underground storage the percentage variation is not presented because the prices are zero.
 - For gas producers the percentage variation is not presented as the price is published for the first time.
- At exit points, the following effects are highlighted:
 - The variation in the tariffs is -22.3%, is driven by the increase in forecasted demand.

Gas year 2022-2023

- The tariff variations presented for these gas years correspond to estimates that assume the same level of allowed revenue and demand as for gas year 2021-2022.
- Given these assumptions, the tariff variations are all nil.

At points with capacity booking¹⁷, Table 15 and Table 16 only present the evolution of the reserve prices for firm capacity products. The reserve prices for interruptible capacity products result from the following rules:

- **VIP Iberico**: in both directions an ex-ante discount is applied, pursuant to article 16 of the Tariff Network Code, resulting from a unitary adjustment factor ($A=1$) and a probability of interruption of 7,1% ($Pro=7,1\%$)¹⁸. Prices are presented in Table 10 and Table 12.
- **LNG terminal**: at the entry point to the transmission network an ex-ante discount of 26.5% is applied compared to the reserve price of the firm capacity product¹⁹; at the exit point from the transmission network the reserve price is identical to the reserve price of the firm capacity product²⁰.
- **Underground storage**: in both directions the reserve price is identical to the reserve price of the firm capacity product.²¹

¹⁷ VIP Iberico, LNG terminal and Underground storage.

¹⁸ Applicable to interruptible capacity products for the daily and the within-day timeframe.

¹⁹ Applicable to interruptible capacity products for the within-day timeframe.

²⁰ Applicable to interruptible capacity products for the daily and the within-day timeframe.

²¹ Applicable to interruptible capacity products for the within-day timeframe.

TRANSPARENCY OF TRANSMISSION TARIFFS

Information to be published pursuant to Article 30 of Commission Regulation (EU) 2017/460

Table 15 - Tariffs for the use of the transmission system, by gas year

	Point	Product	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	Unit
Entry	VIP Iberico	Yearly	0,1218	0,0969	0,0346	0,0370	0,0370	€/((kWh/day)/year)
		Quarterly	0,1583	0,1260	0,0450	0,0481	0,0481	€/((kWh/day)/year)
		Monthly	0,1827	0,1454	0,0519	0,0555	0,0555	€/((kWh/day)/year)
		Daily	0,2436	0,1938	0,0692	0,0740	0,0740	€/((kWh/day)/year)
		Intraday	6,4308	5,1168	1,8274	1,9548	1,9548	€/((kWh/h)/year)
	LNG terminal	Yearly	0,1218	0,0893	0,0319	0,0341	0,0341	€/((kWh/day)/year)
		Quarterly	0,1583	0,1160	0,0414	0,0443	0,0443	€/((kWh/day)/year)
		Monthly	0,1827	0,1339	0,0478	0,0511	0,0511	€/((kWh/day)/year)
		Daily	0,2436	0,1785	0,0638	0,0682	0,0682	€/((kWh/day)/year)
		Intraday	6,4308	4,7128	1,6831	1,8005	1,8005	€/((kWh/h)/year)
	Underground Storage	Daily	0,0034	0,0000	0,0000	0,0000	0,0000	€/((kWh/day)/year)
		Intraday	0,0902	0,0000	0,0000	0,0000	0,0000	€/((kWh/h)/year)
	Gas producers	Used capacity at injection	n/a	n/a	n/a	0,0100	0,0100	€/((kWh/day)/year)
	Exit	VIP Iberico	Yearly	0,0000	0,0213	0,0104	0,0081	0,0081
Quarterly			0,0000	0,0277	0,0136	0,0105	0,0105	€/((kWh/day)/year)
Monthly			0,0000	0,0319	0,0157	0,0122	0,0122	€/((kWh/day)/year)
Daily			0,0000	0,0426	0,0209	0,0162	0,0162	€/((kWh/day)/year)
Intraday			0,0000	1,1237	0,5509	0,4281	0,4281	€/((kWh/h)/year)
LNG terminal		Yearly	0,0000	0,0000	0,0000	0,0000	0,0000	€/((kWh/day)/year)
		Quarterly	0,0000	0,0000	0,0000	0,0000	0,0000	€/((kWh/day)/year)
		Monthly	0,0000	0,0000	0,0000	0,0000	0,0000	€/((kWh/day)/year)
		Daily	0,0000	0,0000	0,0000	0,0000	0,0000	€/((kWh/day)/year)
		Intraday	0,0000	0,0000	0,0000	0,0000	0,0000	€/((kWh/h)/year)
Underground Storage		Daily	0,0000	0,0000	0,0000	0,0000	0,0000	€/((kWh/day)/year)
		Intraday	0,0000	0,0000	0,0000	0,0000	0,0000	€/((kWh/h)/year)
Distribution networks and HP Customers		Long Uses	0,2110	0,1712	0,0839	0,0652	0,0652	€/((kWh/day)/year)
HP Customers		Annual Flexible Rate - Annual Base Capacity	0,2110	0,1712	0,0839	0,0652	0,0652	€/((kWh/day)/year)
		Annual Flexible Rate - Additional Monthly Capacity (April to September)	0,3165	0,2567	0,1259	0,0978	0,0978	€/((kWh/day)/year)
		Flexible Monthly Rate - Monthly Capacity (October to March)	0,6329	0,5135	0,2517	0,1956	0,1956	€/((kWh/day)/year)
		Flexible Monthly Rate - Monthly Capacity (April to September)	0,3165	0,2567	0,1259	0,0978	0,0978	€/((kWh/day)/year)
		Daily Flexible Rate - Daily Capacity (October to March)	2,1097	1,7115	0,8390	0,6521	0,6521	€/((kWh/day)/year)
		Daily Flexible Rate - Daily Capacity (April to September)	1,2658	1,0269	0,5034	0,3913	0,3913	€/((kWh/day)/year)

Note: Figures for gas year 2022-2023 correspond to estimates assuming the same level of allowed revenue and demand as for gas year 2021-2022.

TRANSPARENCY OF TRANSMISSION TARIFFS

Information to be published pursuant to Article 30 of Commission Regulation (EU) 2017/460

Table 16 - Annual variations in the tariffs for the use of the transmission system, by gas year

	Point	Product	2019-2020	2020-2021	2021-2022	2022-2023
Entry	VIP Iberico	Yearly	-20,4%	-64,3%	7,0%	0,0%
		Quarterly	-20,4%	-64,3%	7,0%	0,0%
		Monthly	-20,4%	-64,3%	7,0%	0,0%
		Daily	-20,4%	-64,3%	7,0%	0,0%
		Intraday	-20,4%	-64,3%	7,0%	0,0%
	LNG terminal	Yearly	-26,7%	-64,3%	7,0%	0,0%
		Quarterly	-26,7%	-64,3%	7,0%	0,0%
		Monthly	-26,7%	-64,3%	7,0%	0,0%
		Daily	-26,7%	-64,3%	7,0%	0,0%
		Intraday	-26,7%	-64,3%	7,0%	0,0%
	Underground Storage	Daily	-100,0%	-	-	-
		Intraday	-100,0%	-	-	-
	Gas producers	Used capacity at injection	-	-	-	0,0%
	Exit	VIP Iberico	Yearly	-	-51,0%	-22,3%
Quarterly			-	-51,0%	-22,3%	0,0%
Monthly			-	-51,0%	-22,3%	0,0%
Daily			-	-51,0%	-22,3%	0,0%
Intraday			-	-51,0%	-22,3%	0,0%
LNG terminal		Yearly	-	-	-	-
		Quarterly	-	-	-	-
		Monthly	-	-	-	-
		Daily	-	-	-	-
		Intraday	-	-	-	-
Underground Storage		Daily	-	-	-	-
		Intraday	-	-	-	-
Distribution networks and HP Customers		Long Uses	-18,9%	-51,0%	-22,3%	0,0%
HP Customers		Annual Flexible Rate - Annual Base Capacity	-18,9%	-51,0%	-22,3%	0,0%
		Annual Flexible Rate - Additional Monthly Capacity (April to September)	-18,9%	-51,0%	-22,3%	0,0%
		Flexible Monthly Rate - Monthly Capacity (October to March)	-18,9%	-51,0%	-22,3%	0,0%
		Flexible Monthly Rate - Monthly Capacity (April to September)	-18,9%	-51,0%	-22,3%	0,0%
		Daily Flexible Rate - Daily Capacity (October to March)	-18,9%	-51,0%	-22,3%	0,0%
		Daily Flexible Rate - Daily Capacity (April to September)	-18,9%	-51,0%	-22,3%	0,0%

Note: Figures for gas year 2022-2023 correspond to estimates assuming the same level of allowed revenue and demand as for gas year 2021-2022.

Art. 30 (2)(b) Simplified tariff model

In accordance with the Tariff Network Code, ERSE provides a simplified tariff model which allows users to consult the tariffs for the use of the transmission network in force for gas year 2021-2022 and to estimate their possible evolution until gas year 2022-2023.

For this purpose, the simplified tariff model allows the user to enter her estimates for the evolution of the transmission system operator's allowed revenues and for the evolution of forecasted capacity regarding the various capacity products.

The simplified tariff model can be found on the [ERSE](#) website.

Annex: Recovery of transmission tariffs in customer bills

The recovery of transmission tariffs in customer bills occurs in two ways. The value corresponding to the **exit from the transmission network** is fully reflected in the network access tariff, with prices being regulated and approved annually by ERSE.

The value corresponding to the **entry into the transmission network** is not reflected in the network access tariff and represents a cost of supply. That cost is paid by suppliers or market agents that book capacity at the entry points of the transmission network.

Gas supply is an activity that is only regulated for customers in the regulated market. For customers in a liberalized market, supply is a competitive activity, the cost of which depends on the supply strategy followed by the supplier. The supply strategy may consist of (i) the purchase of gas at VTP, the virtual trading point in Portugal, (ii) the introduction of gas in Portugal through VIP Iberico, the virtual point of interconnection between Portugal and Spain, (iii) the introduction of gas into Portugal through the Sines Terminal, which receives liquefied natural gas, among other strategies. Depending on the supply strategy, the market agents responsible for the supply bear different regulated tariffs for using the high-pressure infrastructures (Table 17).

Table 17 - Regulated tariffs at high pressure infrastructures to be supported by market agents, by supply strategy

Regulated tariffs at high pressure infrastructures	Supply strategy		
	VTP at MIBGAS	VIP Iberico	LNG Terminal
Tariff for the use of the transmission network	No.	Yes. For the service of entry from VIP Iberico.	Yes. For the service of entry from the LNG Terminal.
Tariff for the use of the LNG terminal for reception, storage and regasification	No.	No.	Yes. For the services of reception, storage and regasification at the LNG Terminal.
Tariff for the use of the underground storage	Not necessarily. It depends on the how the market agent manages the gas.	Not necessarily. It depends on the how the market agent manages the gas.	Not necessarily. It depends on the how the market agent manages the gas.

A market agent that acquires gas at the VTP in MIBGAS does not have to bear additional costs for the use of high-pressure infrastructures. In comparison, introducing gas into Portugal through VIP Iberico requires the payment of the transmission tariff, according to the price at the point of entry from VIP Iberico. In the case of introducing gas through the LNG Terminal, in addition to the transmission tariff, with the price applied at the point of entry from the LNG Terminal, the market agent also bears the tariff for the LNG Terminal.

Suppliers can recover the cost incurred for the use of the transmission network entry points in their customers' invoices, at variable prices to be chosen by each supplier, similarly to the costs of using the LNG Terminal, the underground storage or the supply of gas. The direct application of the prices approved by ERSE for the transmission tariff applied at entry points, which refer to booked capacity, to the used capacity of customers is not imposed by the ERSE's regulation, and any information transmitted to customers in the opposite direction is incorrect.

In compliance with the principles of transparency and objectivity in the commercial relationship with their customers, suppliers must inform their customers about the meaning of the values that constitute the gas bill.