

Publication of information according to Article 29 of Commission Regulation (EU) 2017/460 of 16 March 2017 establishing a network code on harmonised transmission tariff structures for gas

31 May 2022

Fluxys Belgium SA

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Introduction

In the framework of the implementation of the Network Code on Harmonised Transmission Tariff Structures for Gas ('NC TAR') Fluxys Belgium publishes hereby the information referred to in Article 29 of NC TAR.

The present publication is for the gas year beginning after the 2022 annual yearly capacity auction (i.e. gas year 2022-2023) based on the Fluxys Belgium 2020-2023 tariff proposal as approved by CREG in its decision (B)656G/40 of 7 May 2019.

Art. 29 (a) (i) – reserve prices for standard capacity products for firm capacity

The reserve prices applicable for standard capacity products for firm capacity for the 2022-2023 gas year are the 2022 calendar prices until 31 December 2022 included and the 2023 calendar prices as from 1 January 2023.

2022 applicable prices as approved by CREG can be found under the following link providing all Fluxys Belgium applicable 2022 tariffs and in annex 1 to this document.

Link to the 2022 tariffs page and to the downloadable 2022 tariff sheet on the Fluxys Belgium website: https://www.fluxys.com/fr/products-services/empowering-you/tariffs/tariff_fluxys-belgium-tra-2022-july

2023 applicable prices as approved by CREG can be found under the following link providing all Fluxys Belgium applicable 2023 tariffs and in annex 2 to this document.

Link to the 2023 tariffs page and to the downloadable 2023 tariff sheet on the Fluxys Belgium website: https://www.fluxys.com/en/products-services/empowering-you/tariffs/tariff_fluxys-belgium-tra-2023

Art. 29 (a) (ii) – multipliers and seasonal factors

The multipliers and seasonal factors applied to reserve prices for non-yearly standard capacity products are provided in the tariffs sheets under the links here above.

Art. 29 (a) (iii) – justification of the multipliers

The justification of the CREG for the level of the multipliers can be found in the CREG approval decision of the Fluxys Belgium tariff proposal (decision (B)656G/40 of 7 May 2019) which can be found under the following link. This decision was preceded by a consultation by CREG on this subject.

<https://www.creg.be/fr/publications/decision-b656g40>

The CREG decision not being available in English, a summary in English language is given hereunder. "CREG decided to set the level of multipliers at 1,45 for all types of products with a duration of less than one year so that the arithmetic mean of the products of seasonal factors and multipliers equals 1,498 which is less than 1,5 avoiding to apply the correction factor referred to in article 15, § 3, h) of NC TAR."

As requested by Art. 28 (3) of NC TAR the aspects listed in Art. 28 (3) (a) were duly taken into account when defining the level of the multipliers. This can be explained as follows:

- (i) The balance between facilitating short-term gas trade and providing long-term signals for efficient investment in the transmission system is reflected in the level of multipliers. The multipliers correspond to the medium range of the allowed levels for the multipliers (between 1 and 3) as per Art. 13 of NC TAR . No distinction is made between the very short term products and the medium term to facilitate short term trading but the gap with yearly product remains high enough to capture long-term signals for investments.
- (ii) The transmission services revenue considers the short term forecasted capacities as well including the respective multipliers.
- (iii) Only one value is used for the short term multiplier to avoid cross-subsidisation between network users. All network users benefit from the same advantage of no multiplier when subscribing yearly products.
- (iv) It is not expected the level of multipliers will influence the possible situations of physical and contractual congestion.
- (v) No negative impact is expected on cross-border flows.

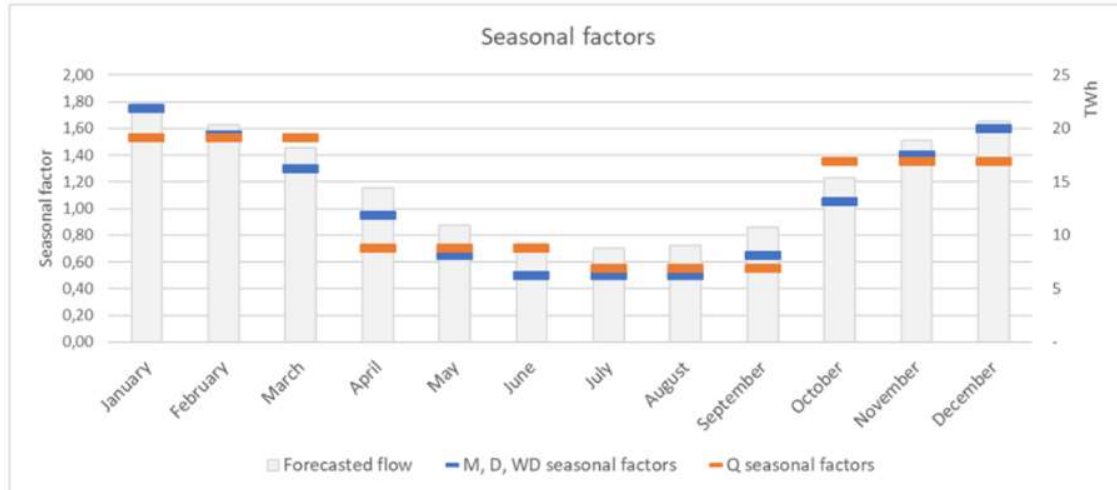
Art. 29 (a) (iv) – justification of the seasonal factors

The justification for the application of seasonal factors where they are applied can be found in the CREG approval decision of the Fluxys Belgium tariff proposal (decision (B)656G/40 of 7 May 2019) which can be found under the link [hereabove](#). This decision was preceded by a consultation by CREG on this subject.

The CREG decision not being available in English, a summary in English language is given hereunder.

“CREG decided that seasonal factors are applied for non-yearly entry capacities at interconnection points and for non-yearly capacities at domestic exit points. This reflects the seasonal pattern of the network usage (see graph hereafter). The seasonal factors are calculated in accordance with Article 15 of NC TAR based on the flows on relevant points. The same seasonal factors are applied to all products with a duration of 1 month or less. For quarterly products CREG decided to apply the average of the relevant months rounded to 2 decimals as provided in the table below. CREG decided to set the power factor at 1,4 meeting the requirements of Article 15 of the NC TAR.”

	January	February	March	April	May	June	July	August	September	October	November	December
Month/Day/ Within day	1,75	1,55	1,30	0,95	0,65	0,50	0,50	0,50	0,65	1,05	1,40	1,60
Quarterly	Q1 = 1,53			Q2 = 0,70			Q3 = 0,55			Q4 = 1,35		



As requested by Art. 28 (3) of NC TAR the aspects listed in Art. 28 (3) (b) were duly taken into account when defining the seasonal factors. This can be explained as follows:

- (i) The impact on facilitating the economic and efficient use of the infrastructure was taken into account by setting seasonal factors as close as possible to the seasonal pattern also taking into account the multipliers.
- (ii) As shown on the graph hereabove the seasonal factors reflect the actual use of the infrastructure hence the economic value of it over the year. Therefore they improve the cost-reflectivity of reserve price.

Art. 29 (b) (i) – reserve prices for standard capacity products for interruptible capacity

The reserve prices applicable for standard capacity products for interruptible capacity for the 2022-2023 gas year are the 2022 calendar prices until 31 December 2022 included and the 2023 calendar prices as from 1 January 2023.

2022 applicable prices can be found under the following link providing all Fluxys Belgium applicable 2022 tariffs and in annex 1 to this document.

Link to the 2022 tariffs page and to the downloadable 2022 tariff sheet on the Fluxys Belgium website: https://www.fluxys.com/fr/products-services/empowering-you/tariffs/tariff_fluxys-belgium-tra-2022-july

2023 applicable prices can be found under the following link providing all Fluxys Belgium applicable 2023 tariffs and in annex 2 to this document.

Link to the 2023 tariffs page and to the downloadable 2023 tariff sheet on the Fluxys Belgium website: https://www.fluxys.com/en/products-services/empowering-you/tariffs/tariff_fluxys-belgium-tra-2023

Art. 29 (b) (ii) – assessment of the probability of interruption

Fluxys Belgium offers interruptible capacity for all standard capacity products, on all CAM-points, both in entry & exit, according to the rules set out in CAM NC (Commission Regulation (EU) 2017/459). The amount of interruptible capacity offered is defined by a calculation of the probability that this interruptible capacity, when sold and used for 100%, would be interrupted.

All types of interruptible capacity products offered are listed in the price lists under the links provided hereabove.

All types of interruptible capacity products receive a 20% discount to the reserve price of the corresponding firm capacity product as decided by CREG in its decision (B)656G/40 of 7 May 2019. Backhaul products are considered as interruptible products with regard to the discount. The 20% discount results from a 10% interruption probability multiplied by an adjustment factor A of 2.

Although the future probability is hard to calculate, the historical data provide a distribution of the net allocations of the network users (2018 in the example below). The 10% interruption probability assumes that on each of these days the firm capacity is sold out and the sold interruptible capacity is used at 100%. In that case the total sold capacity exceeds the technical capacity during 10% of the time (see figure 2 for illustration).

Based on the max 10% interruption probability the quantity of interruptible capacity to be offered is calculated. This calculation of the probability is performed per interconnection point and direction where firm capacity is offered. The figure 1 below gives the level of interruptible capacity leading to a 10% historical interruption probability. But for reasons of clarity and simplicity, a single factor of interruptible capacity is applied considering the lowest value of the table below hence leading to a maximum probability of 10%. The resulting rate of offered interruptible capacity compared to the technical capacity amounts to a level of 50% for each interconnection point and direction (when firm capacity is sold out).

Historical data used for the calculations are provided in figures 3 to 8 hereafter.

	Entry (% of technical capacity)	Exit (% of technical capacity)
Eynatten 1	68%	107%
Eynatten 2	85%	50%
's Gravenvoeren	58%	/
IZT	50%	61%
Virtualys	187%	51%
Zandvliet H	101%	/
Zelzate 1	59%	55%
Minimum value	50%	50%

Figure 1 - Level of interruptible stock to achieve a 10% probability of interruption, based on 2018 data

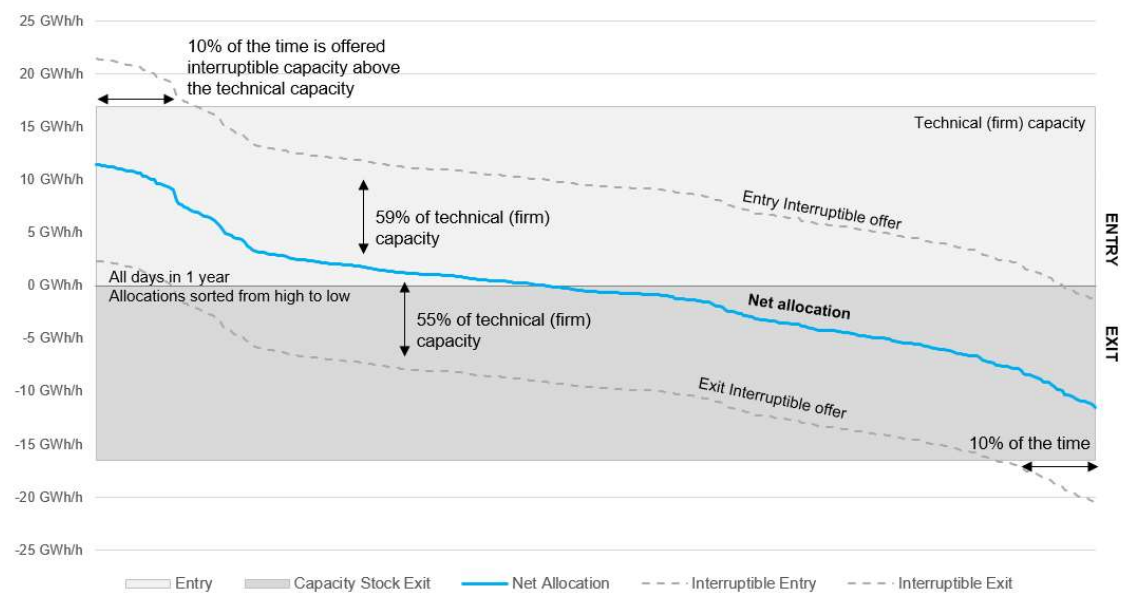


Figure 2 - Example for Zelzate 1 with historical data of 2018

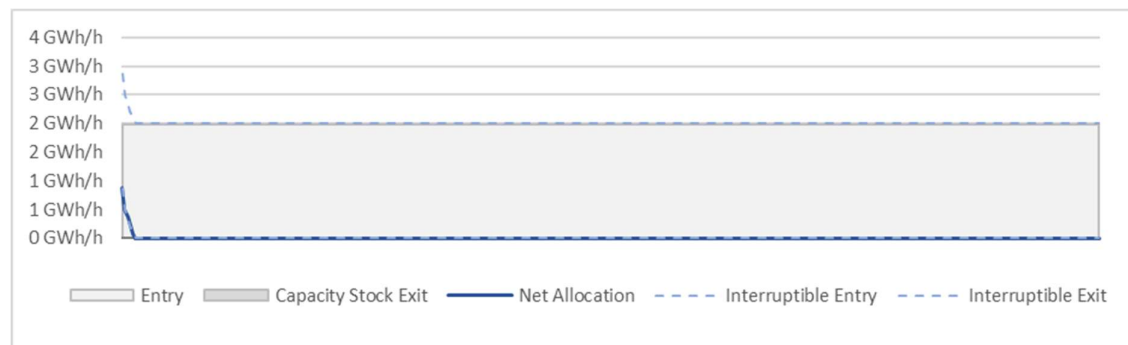


Figure 3 - Historical data Zandvliet H

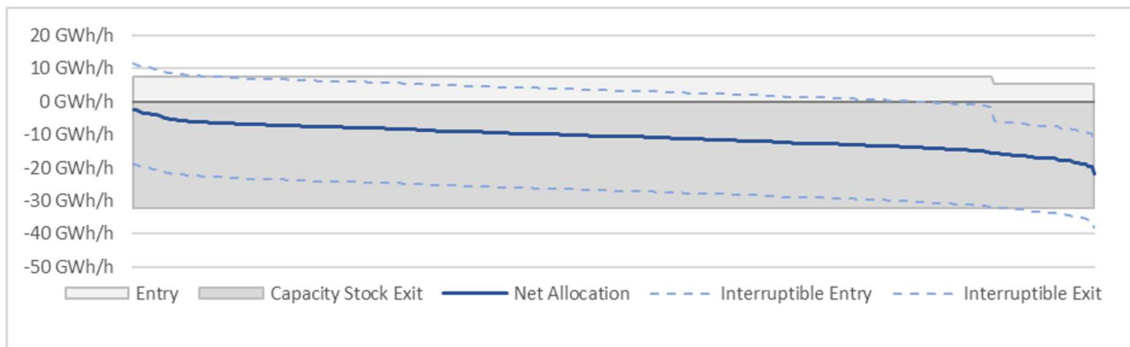


Figure 4 - Historical data Virtualys

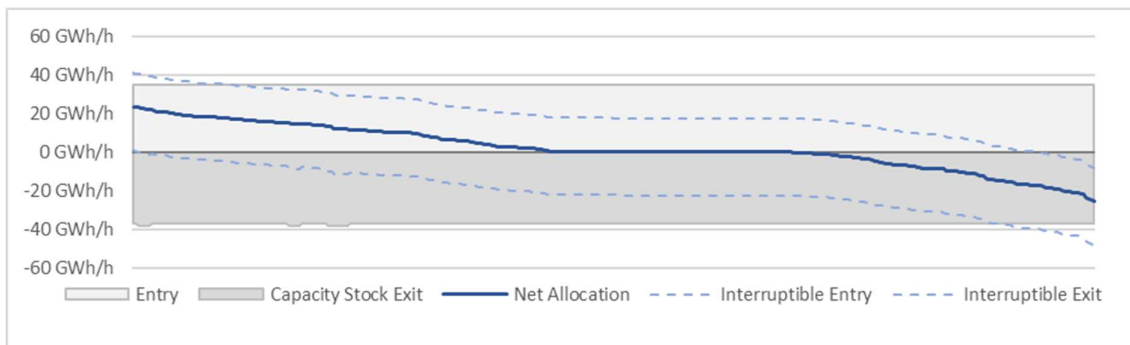


Figure 5 - Historical data IZT

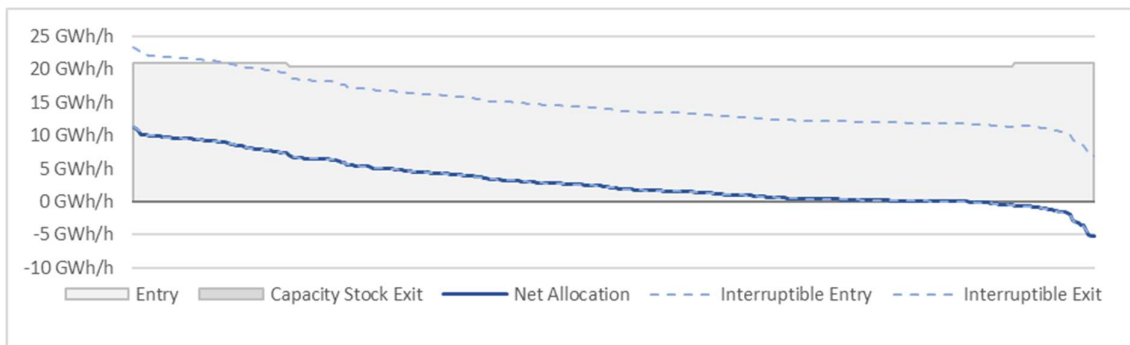


Figure 6 - Historical data 's Gravenvoeren

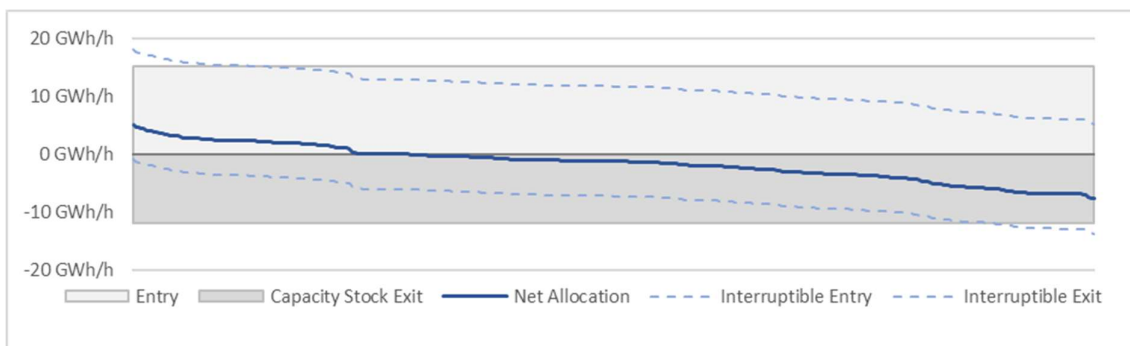


Figure 7 - Historical data Eynatten 2

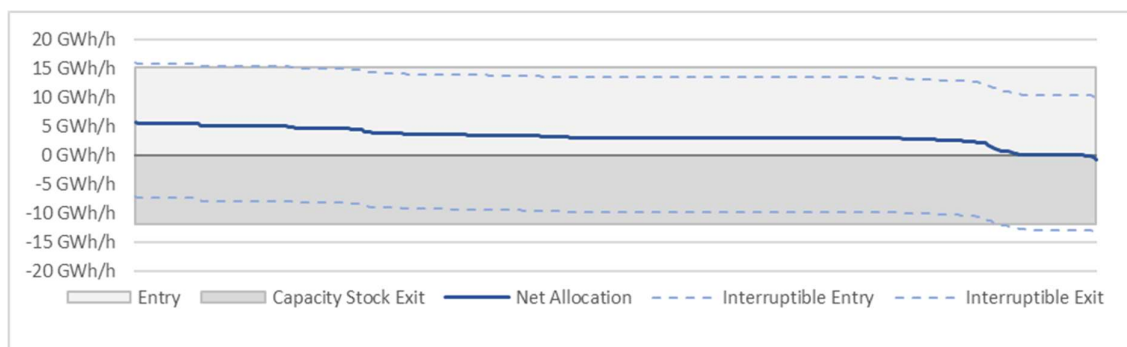


Figure 8 - Historical data Eynatten 1

Annex 1 – 2022 tariff sheet

Annex 2 – 2023 tariff sheet

Tariffs for transmission and non-transmission services of Fluxys Belgium SA for year 2022 as from 01/07/2022 (*)

Reserve prices for yearly capacity subscription						
Entry and Exit Services of Interconnection Points and Installation Points	Reserve price in €/kWh/h/year					
	Entry			Exit		
	Firm	Interruptible	Backhaul	Firm	Interruptible	Backhaul
Blaregnies L	-	-	0,627	1,281	1,024	-
Dunkirk LNG Terminal	0,707	0,566	-	-	-	-
Hilvarenbeek L	0,786	0,627	-	-	-	1,024
IZT	0,707	0,566	-	0,718	0,575	-
Loenhout	0,354	0,284	-	-	-	-
VIP BENE	0,707	0,566	-	0,863	0,690	-
VIP THE-ZTP	0,707	0,566	-	1,340	1,073	-
Virtualys	0,707	0,566	0,566	1,158	0,927	-
Zeebrugge	0,707	0,566	-	0,718	0,575	-
Zeebrugge LNG Terminal	0,707	0,566	-	-	-	0,575
ZPT	0,707	0,566	-	-	-	0,575

Shorthaul services at Interconnection Points		Reserve price in €/kWh/h/year
OCUC:		Firm
VIP BENE -> IZT/Zeebrugge		0,931
IZT/Zeebrugge -> VIP BENE		0,931
Dunkirk LNG Terminal/Virtualys -> IZT/Zeebrugge		1,069
VIP BENE -> VIP THE-ZTP		0,769
VIP THE-ZTP -> VIP BENE		0,769
Zee Platform Services:		Tariff in €/month
- for 2 interconnection points to the Zee Platform		5.823,70
- for 3 interconnection points to the Zee Platform		8.735,57
- for 4 interconnection points to the Zee Platform		11.647,42

Tariff in €/kWh/h/year			
Services at Domestic Points		Firm	Interruptible/Backhaul
Exit HP Service	H-grid	0,960	0,768
	L-grid	1,066	0,853
Entry Service	H-grid	0,707	0,566
	L-grid	0,786	0,627
PS	H-grid	0,566	0,452
	L-grid	0,627	0,502

Tariff in €/MWh allocated at the domestic exit point		
Odourisation Service	H-grid	0,0799
	L-grid	0,0887

		Capacity element (tariff in €/kWh/h/year)	Distance element (tariff in €/kWh/h/km/year)
Direct line Service	H-grid	0,327	0,027
	L-grid	0,377	0,032

Tariffs applicable for subscriptions of durations of less than 1 year

1. The tariff for a capacity reservation of a duration of less than 1 year and of one day or more than one day is proportional to the number of subscribed days (the applicable tariff for the subscribed duration is equal to the yearly tariff divided by the number of days in the year and multiplied by the number of subscribed days);
2. The tariff for a capacity reservation of less than 1 day is equal to the tariff for one year divided by the number of hours in the year (8760 or 8784 for leap years) and multiplied by the number of subscribed hours;
3. For reservations of entry service, exit service at end-user domestic points (Domestic Exit HP service and PS) and for direct line capacity for durations of less than 1 year, the proportional tariff (as calculated at point "1" or at point "2" here above) is multiplied by a multiplier of 1,45 (NYM) and multiplied by a seasonal coefficient which varies as follows:

	January	February	March	April	May	June	July	August	September	October	November	December
Monthly/Day/ 1000th day	1,75	1,55	1,30	0,95	0,65	0,50	0,50	0,50	0,65	1,05	1,40	1,60
Quarterly	Q1 = 1,53			Q2 = 0,70			Q3 = 0,55			Q4 = 1,35		

4. For reservations of exit services at end-user domestic points (Domestic Exit HP service and PS) for durations of less than one month, the obtained tariff at point "3" above is multiplied by a short term coefficient equal to 5.

Energy in Cash (Commodity fee)

Energy in Cash at entry Connection Points (except Zeebrugge, ZTP, H->L conversion, L->H conversion)	0,080%
Energy in Cash at exit Connection Points (except Zeebrugge, ZTP, H->L conversion, L->H conversion)	0,080%

The quantities of Energy in Cash will be invoiced to the Network User based on the allocations of that Network User in kWh, valorized at the reference price GP_A, as defined on Fluxys Belgium website. Fluxys Belgium reserves the right to correct that price reference in case it would no longer be representative for the gas purchase price of Fluxys Belgium.

ZTP Trading services

Monthly Fixed Fee for ZTP Trading Services	564,89	€/month
Variable Fee for ZTP Trading Services	0,00169	€/MWh
Shortfall Transfer Service Charge	0,179	€/kWh/h/year
Excess Transfer Service Charge	0,176	€/kWh/h/year

Quality Conversion Services

Quality Conversion Service H->L		
Peak Load - fixed term - tariff per bundle	1,569	€/bundle/year
(1 bundle = 1 kWh/h firm capacity + 0,13 kWh/h interruptible capacity)		
Peak Load - fixed term - tariff for firm capacity	1,421	€/kWh/h/year
Peak Load - fixed term - tariff for interruptible capacity	1,136	€/kWh/h/year
Peak Load - variable term (**)	1,482	€/MWh
Base Load	3,135	€/kWh/h/year
Seasonal Load	2,795	€/kWh/h/year
Quality Conversion Service L->H	1,187	€/kWh/h/year

Cross-Border Delivery Service

This service is charged at the cost price of Fluxys Belgium (this cost price is equal to the price of the "cross-border capacity" reservation at the adjacent TSO)

Ancillary services and other tariffs***EDP* = Electronic Data Platform**

Communication Service of measured data in Real-time	25.420,15	€/year/interconnection Point or Installation Point
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Tariff supplements

Tariff supplements linked with the utilisation of capacity and with the balancing rules are foreseen. These tariff supplements are described in the Access Code for Transmission.

<u>Discontinuance of unused capacity in case of congestion</u>	5.225,26	€/suppression
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Transfer of capacity service

Transfer of capacity (to be paid by the seller) - Transaction realised by Fluxys Belgium on behalf of	3,00%	% of regulated tariff
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Maximum buy-back price

The buy-back price of oversubscribed capacity (pursuant to Annex I of regulation (CE) no 715/2009) is limited to following cap:

- When the capacity to buy-back is auctionned daily as a bundled product : 125% of the total payable price of the bundled product of daily capacity, for the day for which capacity has to be bought back
- When the capacity to buy-back is not auctionned daily as bundled product: 300% of the payable price of daily entry or exit capacity of Fluxys Belgium

Tariff for "Extended OSA" flexibility, invoiced to adjacent operators

Service for « Extended OSA » Flexibility (invoiced at the adjacent operator)	0,256	€/kWh/year
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Notes:

(*) The CREG has approved on 07/05/2019 tariffs for year 2020 as well as the tariff adjustment formula which will be applied for 2021, 2022 and 2023. The adjustment is made of (1) the yearly indexation and (2) the adjustment based on the actual regulatory account evolution

(1) The indexation will be applied every year on the 1st of January through following formula: "tariffs of year 20xx" = "tariffs of year 2020 " multiplied by "consumer price index of the month of April of year (20xx-1)" divided by "consumer price index of the month of April of year 2019 ".

(2) At the same time the indexation is applied, the tariffs of year 20xx (and the remaining years until 2023) are corrected by the difference between the actual and budgeted regulatory accounts of year 20xx-2 spread over the remaining years until 2023 included.

The new tariffs calculated according to these formulas will be published yearly in the month of June of the year (20xx-1) at the latest and will be rounded to minimum three significant figures.

(**) This tariff may be updated depending on the costs of nitrogen procurement.

Fluxys Belgium SA Tariffs for transmission services for year 2023

Tariffs for transmission and non-transmission services of Fluxys Belgium SA for year 2023 (*)
Reserve prices for yearly capacity subscription

Entry and Exit Services at Interconnection Points and Installation Points	Reserve price in €/kWh/h/year					
	Entry			Exit		
	Firm	Interruptible	Backhaul	Firm	Interruptible	Backhaul
Blaregnies L	-	-	0,679	1,387	1,109	-
Dunkirk LNG Terminal	0,766	0,613	-	-	-	-
Hilvarenbeek L	0,851	0,679	-	-	-	1,109
IZT	0,766	0,613	-	0,778	0,623	-
Loenhout	0,383	0,308	-	-	-	-
VIP BENE	0,766	0,613	-	0,935	0,747	-
VIP THE-ZTP	0,766	0,613	-	1,451	1,162	-
Virtualys	0,766	0,613	0,613	1,254	1,004	-
Zeebrugge	0,766	0,613	-	0,778	0,623	-
Zeebrugge LNG Terminal	0,766	0,613	-	-	-	0,623
ZPT	0,766	0,613	-	-	-	0,623

Shorthaul services at Interconnection Points	Reserve price in €/kWh/h/year
OCUC:	Firm
VIP BENE -> IZT/Zeebrugge	1,008
IZT/Zeebrugge -> VIP BENE	1,008
Dunkirk LNG Terminal/Virtualys -> IZT/Zeebrugge	1,158
VIP BENE -> VIP THE-ZTP	0,833
VIP THE-ZTP -> VIP BENE	0,833
Zee Platform Services :	Tariff in €/month
- for 2 interconnection points to the Zee Platform	6.307,43
- for 3 interconnection points to the Zee Platform	9.461,17
- for 4 interconnection points to the Zee Platform	12.614,89

Tariff in €/kWh/h/year			
Services at Domestic Points		Firm	Interruptible/Backhaul
<u>Exit HP Service</u>	H-grid	1,040	0,831
	L-grid	1,154	0,924
<u>Entry Service</u>	H-grid	0,766	0,613
	L-grid	0,851	0,679
<u>PS</u>	H-grid	0,613	0,489
	L-grid	0,679	0,544

Tariff in €/MWh allocated at the domestic exit point		
<u>Odourisation Service</u>	H-grid	0,0865
	L-grid	0,0961

		Capacity element (tariff in €/kWh/h/year)	Distance element (tariff in €/kWh/h/km/year)
<u>Direct line Service</u>	H-grid	0,354	0,029
	L-grid	0,408	0,034

Tariffs applicable for subscriptions of durations of less than 1 year

1. The tariff for a capacity reservation of a duration of less than 1 year and of one day or more than one day is proportional to the number of subscribed days (the applicable tariff for the subscribed duration is equal to the yearly tariff divided by the number of days in the year and multiplied by the number of subscribed days);
2. The tariff for a capacity reservation of less than 1 day is equal to the tariff for one year divided by the number of hours in the year (8760 or 8784 for leap years) and multiplied by the number of subscribed hours;
3. For reservations of entry service, exit service at end-user domestic points (Domestic Exit HP service and PS) and for direct line capacity for durations of less than 1 year, the proportional tariff (as calculated at point 1" or at point 2" here above) is multiplied by a multiplier of 1,45 (NYM) and multiplied by a seasonal coefficient which varies as follows:

Month/Day/ Within day	January	February	March	April	May	June	July	August	September	October	November	December
Monthly	1,75	1,55	1,30	0,95	0,65	0,50	0,50	0,50	0,65	1,05	1,40	1,60
Quarterly	Q1 = 1,53			Q2 = 0,70			Q3 = 0,55			Q4 = 1,35		

4. For reservations of exit services at end-user domestic points (Domestic Exit HP service and PS) for durations of less than one month, the obtained tariff at point 3" above is multiplied by a short term coefficient equal to 5.

Energy in Cash (Commodity fee)

Energy in Cash at entry Connection Points (except Zeebrugge, ZTP, H->L conversion, L->H conversion)	0,080%
Energy in Cash at exit Connection Points (except Zeebrugge, ZTP, H->L conversion, L->H conversion)	0,080%

The quantities of Energy in Cash will be invoiced to the Network User based on the allocations of that Network User in kWh, valorized at the reference price GP_z, as defined on Fluxys Belgium website. Fluxys Belgium reserves the right to correct that price reference in case it would no longer be representative for the gas purchase price of Fluxys Belgium.

ZTP Trading services

Monthly Fixed Fee for ZTP Trading Services	611,82	€/month
Variable Fee for ZTP Trading Services	0,00183	€/MWh
Shortfall Transfer Service Charge	0,194	€/kWh/h/year
Excess Transfer Service Charge	0,191	€/kWh/h/year

Quality Conversion Services

Quality Conversion Service H->L		
Peak Load - fixed term - tariff per bundle	1,699	€/bundle/year
(1 bundle = 1 kWh/h firm capacity + 0,13 kWh/h interruptible capacity)		
Peak Load - fixed term - tariff for firm capacity	1,539	€/kWh/h/year
Peak Load - fixed term - tariff for interruptible capacity	1,230	€/kWh/h/year
Peak Load - variable term (**)	1,605	€/MWh
Base Load	3,395	€/kWh/h/year
Seasonal Load	3,027	€/kWh/h/year
Quality Conversion Service L->H	1,286	€/kWh/h/year

Cross-Border Delivery Service

This service is charged at the cost price of Fluxys Belgium (this cost price is equal to the price of the "cross-border capacity" reservation at the adjacent TSO)

Accessory services and other tariffs**"EDP" = Electronic Data Platform**

Communication Service of measured data in Real-time	27,531,62	€/year/Interconnection Point or Installation Point
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Tariff supplements

Tariff supplements linked with the utilisation of capacity and with the balancing rules are foreseen. These tariff supplements are described in the Access Code for Transmission.

Discontinuance of unused capacity in case of congestion	5,659,28	€/suppression
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Transfer of capacity service

Transfer of capacity (to be paid by the seller) - Transaction realised by Fluxys Belgium on behalf of	3,00%	% of regulated tariff
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Maximum buy-back price

- The buy-back price of oversubscribed capacity (pursuant to Annex I of regulation (CE) no 715/2009) is limited to following cap:
- When the capacity to buy-back is auctionned daily as a bundled product : 125% of the total payable price of the bundled product of daily capacity, for the day for which capacity has to be bought back
 - When the capacity to buy-back is not auctionned daily as bundled product: 300% of the payable price of daily entry or exit capacity of Fluxys Belgium

Tariff for "Extended OBA" flexibility, invoiced to adjacent operators

Service for « Extended OBA » Flexibility (Invoiced at the adjacent operator)	0,277	€/kWh/year
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Notes:

(*) The CREG has approved on 07/05/2019 tariffs for year 2020 as well as the tariff adjustment formula which will be applied for 2021, 2022 and 2023. The adjustment is made of (1) the yearly indexation and (2) the adjustment based on the actual regulatory account evolution

(1) The indexation will be applied every year on the 1st of January through following formula: "tariffs of year 20xx" = "tariffs of year 2020" multiplied by "consumer price index of the month of April of year (20xx-1)" divided by "consumer price index of the month of April of year 2019".

(2) At the same time the indexation is applied, the tariffs of year 20xx (and the remaining years until 2023) are corrected by the difference between the actual and budgeted regulatory accounts of year 20xx-2 spread over the remaining years until 2023 included. The new tariffs calculated according to these formulas will be published yearly in the month of June of the year (20xx-1) at the latest and will be rounded to minimum three significant figures.

(**) This tariff may be updated depending on the costs of nitrogen procurement.