Price Sheet of Open Grid Europe GmbH
for entry and exit contracts as well as internal orders
in accordance with Cooperation Agreement X.2
in the NetConnect Germany GmbH & Co. KG market area

Essen, 25 September 2019

Valid for gas shipments from 1 January 2020

The English translation of this Price Sheet is nonbinding and for convenience only.

It may not be used for interpretation of the binding German version,
published on the website of Open Grid Europe GmbH:

https://www.oge.net

„Netzzugangsbedingungen/Entgelte 2019/2020“

1. Capacity fees

With the REGENT-NCG-decision of the Federal Network Agency coming into force the network fees for the entry and exit points that are published in this price sheet (see ANNEX 1) are determined from now on as a stamp uniformly for the NetConnect Germany GmbH & Co. KG market area. This proceeding is the result of the requirements of the Network Code Tariff, the EU Regulation establishing a network code on harmonized transmission tariff structures for gas [(EU) 2017/460, NC TAR], which came into force in 2017. The Federal Network Agency implements these requirements in both German market areas by the decisions REGENT-NCG (BK9-18/610-NCG) [respectively REGENT-GP (BK9-18/611-GP)], MARGIT (BK9-18/612), BEATE 2.0 (BK9-18/608) and AMELIE (BK9-18/607) which were published on 29 March 2019.

The NCG-wide network fees that are published in this price sheet and the fee components for the biogas levy and the market area conversion levy are demand charges expressed in €/(kWh/h)/a. While the network fees are rounded to 2 digits after the decimal point, the biogas levy and the market area conversion levy are published with 4 digits after the decimal point. The fee component for metering point operation which is determined separately by Open Grid Europe GmbH is expressed in €/d and is independent of the level of the capacity booking.

In accordance with the decisions MARGIT and BEATE 2.0, Open Grid Europe GmbH uses multipliers for the conversion of annual demand charges into demand charges for capacity products with terms of less than one year (within-day, daily, monthly and quarterly products) for all entry and exit points. The multiplier for a within-day product is 2.0 (contract term of up to one day), the multiplier for a daily product is 1.4 (contract term of 1 to 27 days), the multiplier for a monthly product is 1.25 (contract term of 28 to 89 days) and the multiplier for a quarterly product is 1.1 (contract term of 90 to 364 days). The multipliers are applicable to network fees for firm, interruptible and other capacity products at all entry and exit points.[1] The only exception are internal orders.

For the calculation of the network fees for capacity products with terms of less than one year the annual demand charges are divided by 366 and multiplied by the contract term in days in the case of

[1] In the event of a contract change for capacities already booked or if capacities are withdrawn, the previously determined multiplier remains in place unchanged, even if the original product were to fall into a different category after the change or withdrawal. There is no subsequent recognition of amounts; the use of the multiplier is determined by the product booked at the time the contract was concluded. For the capacity product booked anew after the change or capacity withdrawal (“New Product“), on the other hand, a multiplier chosen in accordance with the contract term of the New Product shall be used. In this case, too, the multiplier is applied according to which product was booked when the contract was concluded. This provision applies to all scenarios; it therefore affects in particular the return of capacity, the trading on secondary market of parts of the capacity rights, the conversion and the (partial) termination of capacity.

a booking period of one day or more respectively the annual demand charges are divided by 8784 and multiplied by the contract term in hours in the case of a within-day booking period.

The ANNEX 1 provides an overview of the network fees for entry points/zones and exit points/zones each with a standard network fee, **without** taking account of the multipliers for published network fees in accordance with the MARGIT and BEATE 2.0 decision. A list of the entry and exit points that can be booked/ordered internally is published separately in addition to this Price Sheet on the Open Grid Europe GmbH website.

2. Fee for storage facilities

Under section 2 of the REGENT-NCG-decision all fees for capacities at storage facilities have to be reduced by granting a 75 % discount on the fee determined in accordance with the Gas Network Charges Ordinance (GasNEV), if and in so far as a storage facility that is connected to more than one transmission and distribution network is not used as an alternative to an interconnection point. Before granting such a discount the transmission system operator must ask for proof from the storage facility operator that the facility cannot be used to compete with an interconnection point at the following booking points:

- Etzel (Speicher Crystal), Bitzenlander Weg 10
- Etzel (Speicher ESE), Bitzenlander Weg 3
- Friedeburg-Etzel, Bitzenlander Weg 2
- Friedeburg-Etzel, Schienenstrang, EGL
- Haiming 2 7F
- Speicher Gronau-Epe L2

For storage facilities that are connected to more than one transmission and distribution network and that are used as an alternative to an interconnection point Open Grid Europe GmbH is obligated to offer a fee without a discount and one with a discount.

If the storage operator does not furnish appropriate proof, Open Grid Europe GmbH will only offer a fee without a discount at these network points.

If a discounted capacity shall subsequently be withdrawn to an adjacent market area, no corresponding bookings of real capacities are required according to the REGENT-decision. Instead of such bookings, on application from the Shipper the transmission system operator concerned may also issue an invoice for the corresponding tariffs. The shipper shall inform the transmission system operator with a lead time

of 5 working days stating the capacity and duration of the rebooking request. The duration of the rebooking request is at least one gas day. Further information on the rebooking procedure can be found in our supplementary terms and conditions.

The fees for firm freely allocable capacity (fFZK), interruptible freely allocable capacity (uFZK), dynamically allocable capacity (DZK) and conditionally firm freely allocable capacity with temperature dependence (bFZK) are provided in the table below:

	Storage facilities providing access **to one market area** (expressed in % of the network fee that would be charged for firm freely allocable capacity bookings)	Storage facilities providing access **to more than one market area** (expressed in % of the network fee that would be charged for firm freely allocable capacity bookings)	
	Fee with discount	**Fee with discount**	**Fee without discount**
fFZK	**25 %**	**25 %**	**100 %**
DZK/ bFZK	**22,5 %**	**22,5 %**	**90 %**
uK	Point-specific interruption factor (79 %, 87 %, 88 %, 89 % or 90 %) * 25 % = **19,75 %, 21,75 %, 22 %, 22.25 % or 22,5%**	Point-specific interruption factor (79 %, 87 %, 88 %, 89 % or 90 %) * 25 % = **19,75 %, 21,75 %, 22 %, 22,25 % or 22,5 %**	Point-specific interruption factor (79 %, 87 %, 88 %, 89 % or 90 %) * 100 % = **79 %, 87 %, 88 %, 89 % or 90 %**

3. Biogas levy in accordance with Section 20b of the Gas Network Charges Ordinance

The Germany-wide biogas levy according to Section 20b of the Gas Network Charges Ordinance (GasNEV) is charged by Open Grid Europe GmbH at all relevant exit points (end users, downstream network operators) in addition to the network fees. According to Section 7 (7a) of the Cooperation Agreement X.2 (KoV X.2), exit capacities at storage facilities, border crossing points and crossing points between market areas are exempt from the biogas levy. The BEATE 2.0 provisions do not apply in the case of the biogas levy. For the calculation of the biogas levy for capacity products with terms of less

than one year the annual demand charge of the biogas levy is divided by 366 and multiplied by the contract term in days in the case of a booking period of one day or more respectively the annual demand charge of the biogas levy is divided by 8784 and multiplied by the contract term in hours in the case of a within-day booking period.

Details of the biogas levy charged across Germany can be found in the ANNEX 1.

4. Market area conversion levy

The market area conversion levy, which is applied across all networks in Germany, is charged by Open Grid Europe GmbH at all exit points except for interconnection points and storage facilities according to Section 5 REGENT-NCG decision in addition to the network fees. The provisions of the BEATE 2.0 decision referred to in Section 1 hereinabove do not apply in the case of the market area conversion levy. For the calculation of the market area conversion levy for capacity products with terms of less than one year the annual demand charge of the market area conversion levy is divided by 366 and multiplied by the contract term in days in the case of a booking period of one day or more respectively the annual demand charge of the market area conversion levy is divided by 8784 and multiplied by the contract term in hours in the case of a within-day booking period.

Details of the market area conversion levy charged across Germany can be found in the ANNEX 1.

5. Fee for interruptible capacity

According to Section 4 of the MARGIT-decision the network fee for interruptible capacity at interconnection points must be calculated by multiplying the network fee for firm capacity by the difference between 100% and the level of an ex-ante discount applicable at every interconnection point for the respective standard product in accordance with ANNEX 2 of the MARGIT-decision.

According to the provisions of the BEATE 2.0 decision, the network fee for interruptible capacity at non-interconnection points must come with a point-specific discount regardless of the duration of the product on the fee that would be applicable to bookings of firm capacity at the relevant network point. The discount level is calculated on the basis of the actual interruptions that occurred during the last three gas business years. According to Rz. 61 of the paper stating the reasons for the BEATE 2.0 decision, the maximum interruptible capacities that were actually interrupted are determined in proportion to the marketed interruptible capacities during the above period under review. The discount determined with this quotient is rounded up to the next full percentage figure, and a safety allowance of 10 percentage

points is added. This analysis is done annually at Open Grid Europe GmbH as part of the regular fee determination process. For 2020 all entry and exit points receive a 10 % discount on the standard network fee in accordance with the BEATE 2.0 decision, which gives a fee for interruptible capacity of 90 % of the fee that would be charged for the booking of firm capacity at the relevant network point. The foregoing does not apply to the following entry and exit points:

- Entry
  - 87 % of the fee for firm capacities:
    Haiming 2 7F; Zone MND GSG
  - 88 % of the fee for firm capacities:
    Friedeburg-Etzel, Schienenstrang, EGL; Speicher Breitbrunn
  - 89 % of the fee for firm capacities:
    Etzel (Speicher ESE), Bitzenlander Weg 3; Friedeburg-Etzel, Bitzenlander Weg 2; Speicher Bierwang; Speicher Epe H; Speicher Gronau-Epe H1

- Exit
  - 79 % of the fee for firm capacities:
    Speicher Breitbrunn
  - 87 % of the fee for firm capacities:
    Speicher Bierwang
  - 88 % of the fee for firm capacities:
    Haiming 2 7F

The network fee for interruptible capacity at storage facility entry and exit points is determined on the basis of the product calculated by multiplying the storage fee determined in Section 2 with the interruption factor derived in this section for each specific network point.

The fees for metering point operation, the biogas levy and the market area conversion levy are not reduced.

6. Fees for capacities subject to allocation restrictions

The network fee for capacities subject to allocation restrictions is 90 % of the network fee which would be payable for the booking of firm freely allocable capacity.

7. Fees for dynamically allocable capacities

The network fee for dynamically allocable capacities is 90 % of the network fee which would be payable for the booking of firm freely allocable capacity. The fees for metering point operation, the biogas levy and the market area conversion levy are not reduced.

8. Fees for conditionally firm freely allocable capacity (bFZK) for the VIPs Oberkappel, Waidhaus NCG, Belgium-NCG and TTF-NCG-H

The network fee for conditionally firm freely allocable capacity (bFZK) for the VIPs Oberkappel, Waidhaus NCG, Belgium-NCG and TTF-NCG-H (the introduction of the last-mentioned VIP will be in the course of the year 2020) is 99 % of the network fee which would be payable for the booking of firm freely allocable capacity.

9. Fee for metering point operation

The fee for metering point operation which is determined separately by Open Grid Europe GmbH according to Section 15 (7) of the Gas Network Charges Ordinance (GasNEV) in conjunction with Section 21(b) of Energy Industry Act (EnWG) und Section 7 of REGENT-NCG decision is charged at the network connection points for which Open Grid Europe GmbH assumes the relevant market role. The fee for metering point operation includes metering services and is determined on the basis of a uniform fee for each bookable point plus a fee for each gas meter assigned to the bookable point. Consequently, the fee for metering point operation is calculated as follows:

$$Fee\ for\ metering\ point\ operation = fee\ for\ bookable\ point + (fee\ per\ gas\ meter * number\ of\ gas\ meters)$$

The fee per gas meter and the fee per bookable point are detailed in the ANNEX 1. A topical status of the points for which Open Grid Europe GmbH fulfils the market role of metering point operation is published in the currently list of bookable points on the Open Grid Europe GmbH website. The multipliers described in Section 1 according to BEATE 2.0 decision do not apply to the fee for metering point operation.

10. Fee for capacity overruns in accordance with Section 18 (6) of KoV X.2 and contractual penalties in accordance with Section 18 (7) of KoV X.2 and Section 6 of the Supplementary Terms and Conditions of Open Grid Europe GmbH governing internal orders for downstream network operators

If the internal order in accordance with Section 18 (6) of KoV X.2 is exceeded, each hourly value of the overrun is multiplied by the published annual demand charge for firm capacities in accordance with the ANNEX 1 divided by 8784. Each capacity overrun will be charged on an hourly basis, including the biogas levy and the market area conversion levy.

If the internal order in accordance with Section 18 (7) sentence 1 of KoV X.2 and in accordance with Section 6 (1) of Supplementary Terms and Conditions of Open Grid Europe GmbH governing internal orders for downstream network operators is exceeded, a contractual penalty amounting to four times the value of the annual demand charge for firm capacities applicable at the relevant point divided by 8784 will additionally be charged for each hour in which a capacity overrun occurs.

In the event of a culpable failure to implement the reported shutdown potential in accordance with Section 18 (7) sentence 3 of KoV X.2 and in accordance with Section 6 (2) of the Supplementary Terms and Conditions of Open Grid Europe GmbH governing internal orders for downstream network operators, a contractual penalty in the amount of four times the value of the annual demand charge for firm capacities applicable to the relevant point divided by 8784 multiplied by each hourly value of the requested but not implemented shutdown potential will be charged.

11. Fee for capacity overruns and unrealised interruptions in accordance with Section 29 (3), Section 30 of the General Terms and Conditions for Entry and Exit Contracts

The network fee for a capacity overrun is four times the published annual demand charge for firm capacities for the relevant network point divided by 8784 for each capacity overrun on an hourly basis.

If Open Grid Europe calls on the shipper to reduce its capacity use at an exit point to end users in accordance with Section 29 (3) of the Entry and Exit Contract, and the shipper fails to make the requested reduction or does not make such a reduction in time, the shipper has to pay Open Grid Europe a contractual penalty. Said contractual penalty amounts to four times the value of the published annual demand charge for the relevant network point divided by 8784 for each hourly value of the requested but not implemented reduction potential.

12. Taxes

The fees stated are net fees and do not include any taxes payable such as value added tax, which must be paid by the customer at the ruling rate in addition to the fees.

Fees charged by Open Grid Europe GmbH in the NetConnect Germany GmbH & Co. KG market area

valid from 1 January 2020, 06:00 a.m.

	Designation	Fee
1.	**Network fee for firm freely allocable capacities with a term of one gas year** (**without** taking account of the multipliers for network fees in accordance with MARGIT decision BK9-18/612 respectively BEATE 2.0 decision BK9-18/608)	
	Entry	
	Entry fee	4.07 EUR/(kWh/h)/a
	Exit	
	Exit fee	4.07 EUR/(kWh/h)/a
	Additional fees to be charged:	
2.	**Fee for metering point operation**[1]	
	- **Fee per gas meter**	1.03 EUR/d
	- **Fee per bookable point**	5.67 EUR/d
3.	**Biogas levy**[2]	0.6350 EUR/(kWh/h)/a
4.	**Market area conversion levy**[3]	0.5790 EUR/(kWh/h)/a

[1] The fee for metering point operation is charged at the network connection points for which Open Grid Europe GmbH assumes the relevant market role.

[2] Charged at all relevant exit points (end users, downstream network operators) in addition to the exit fees.

[3] Charged at all exit points except for interconnection points an storage facilities in addition to the exit fees.

Net Connect Germany							
			$D_{i\,ex\text{-}ante}$				
Flussrichtung am Netzkopplungspunkt Flow direction at connection point	Name des angrenzenden Marktgebietes Name of adjacent market area	Gasqualität Gas quality	untertägige Kapazität within-day capacity	Tageskapazität daily capacity	Monatskapazität monthly capacity	Quartalskapazität quarterly capacity	Jahreskapazität yearly capacity
Entry	Czech Balancing Zone	H-Gas	11%	11%	11%	10%	10%
Exit	Czech Balancing Zone	H-Gas	10%	10%	10%	10%	10%
Entry	Austrian Balancing Zone	H-Gas	10%	10%	10%	10%	10%
Exit	Austrian Balancing Zone	H-Gas	12%	11%	11%	11%	11%
Entry	Voralberg	H-Gas	10%	10%	10%	10%	10%
Exit	Voralberg	H-Gas	10%	10%	10%	10%	10%
Entry	VIP Kiefersfelden-Pfronten	H-Gas	10%	10%	10%	10%	10%
Exit	VIP Kiefersfelden-Pfronten	H-Gas	10%	10%	10%	10%	10%
Entry	Belgian and Luxembourg Balancing Zone	H-Gas	10%	10%	10%	10%	10%
Exit	Belgian and Luxembourg Balancing Zone	H-Gas	10%	10%	10%	10%	10%
Entry	Dutch Balancing Zone	H-Gas	10%	10%	10%	10%	10%
Exit	Dutch Balancing Zone	H-Gas	10%	10%	10%	10%	10%
Entry	Dutch Balancing Zone	L-Gas	11%	11%	11%	11%	11%
Exit	Dutch Balancing Zone	L-Gas	10%	10%	10%	10%	10%
Entry	Danish Balancing Zone	H-Gas	11%	11%	10%	10%	10%
Exit	Danish Balancing Zone	H-Gas	10%	10%	10%	10%	10%
Entry	GASPOOL Balancing Zone	H-Gas	11%	11%	11%	10%	10%
Exit	GASPOOL Balancing Zone	H-Gas	10%	10%	10%	10%	10%
Entry	GASPOOL Balancing Zone	L-Gas	10%	10%	10%	10%	10%
Exit	GASPOOL Balancing Zone	L-Gas	10%	10%	10%	10%	10%
Entry	Norwegen	H-Gas	11%	11%	10%	10%	10%
Exit	Norwegen	H-Gas	10%	10%	10%	10%	10%
Entry	RC Thayngen-Fallentor	H-Gas	10%	10%	10%	10%	10%
Exit	RC Thayngen-Fallentor	H-Gas	10%	10%	10%	10%	10%
Entry	RC Basel	H-Gas	10%	10%	10%	10%	10%
Exit	RC Basel	H-Gas	10%	10%	10%	10%	10%
Entry	Wallbach	H-Gas	10%	10%	10%	10%	10%
Exit	Wallbach	H-Gas	11%	11%	11%	10%	10%
Entry	PEG North	H-Gas	10%	10%	10%	10%	10%
Exit	PEG North	H-Gas	11%	11%	10%	10%	10%