

Overview of the capacity products offered by Open Grid Europe GmbH

Essen, 01 December 2021

Valid for gas transports as of 01 December 2021

Note: This is a summary of the currently offered capacity products by Open Grid Europe GmbH. Please note that this summary is only a non-binding information. The German version of the General Terms and Conditions for Entry/Exit Contracts (entry/exit system) currently published on our homepage shall be legally binding.

Contact:

Hotline for Shipper

Tel.: (+49) 0201/3642 12222

Fax: (+49) 0201/3642 8 12222

gastransport@oge.net

Overview of capacity products for shipper on the gas transmission system of Open Grid Europe GmbH

Open Grid Europe GmbH (OGE) offers gas shipper the following capacity products at their various booking points either by auction or according to the "First Committed – First Served" (FCFS) principle:

	Cross-border interconnection points	Virtual Interconnection points (VIPs)	Storage Facility Connection points*	Network connection points
Firm freely allocable capacity (firm FZK)	✓ (Auction)	✓ (Auction)	X	✓ (FCFS)
Interruptible freely allocable capacity (interruptible FZK)	✓**/*** (Auction)	✓**/*** (Auction)	✓*** (Auction)	✓ (FCFS)
Dynamically allocable capacity (DZK)	✓ (Auction)	✓ (Auction)	✓ (Auction)	✓ (FCFS)
Conditionally firm freely allocable capacity (bFZK)	X	✓ (Auction)	✓ (Auction)	X

* Capacities offered at storage facility connection points may vary depending on the number of connected market areas and additional contractual agreements. The specific conditions are stated in the respective product description.

** Monthly, quarterly and yearly capacity products are offered subordinately on an interruptible basis, i.e. if the firm capacity products were sold at an auction premium, were sold out, or were not offered.

*** If firm capacities are no longer available at certain CBPs, VIPs or storage facility connection points, OGE offers the possibility to book interruptible rest-of-day capacity via over-nomination.

Product name:

Firm / interruptible freely allocable capacity (FZK) at cross-border interconnection points (CBPs) and Virtual Interconnection Points (VIPs)

Point types:

Points where auctions are mandatory (CBPs/VIPs)

Marketing:

By auction on the PRISMA capacity booking platform or by over-nomination

Tariffs:

The product tariffs are provided on the current OGE price sheet.

Description:

Enables network use from the booked entry point to the virtual trading point (VTP) or from the VTP to the booked exit point.

Allocation requirements:

None

Balancing group inclusion:

The shipper may include capacities at entry or exit points into several balancing groups/sub-balancing accounts.

Nomination:

Initial nomination until 14:00 hours on the day preceding the delivery day. Day-ahead capacity may be nominated until 20:00 hours. Firm within-day capacity can be nominated 45 minutes after the end of the auction. The nominated value shall otherwise be zero. The nominations are allocated within a balancing group or sub-balancing account first to the firm and then to the interruptible capacity products.

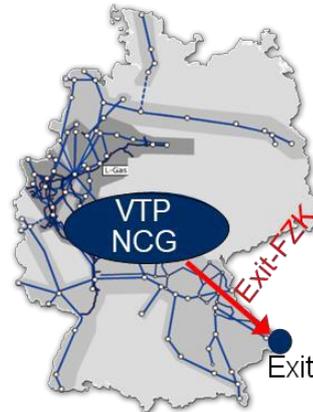
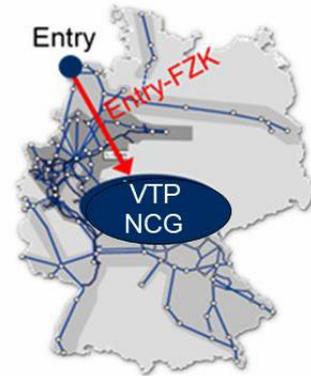
Renomination:

The nominating balancing group manager may replace his initial nomination by a renomination no later than two hours prior to the hour concerned. The possibility of a renomination is limited if the shipper has booked more than 10 % of the reported annual technical available capacity at the booking point on a firm basis:

- Renomination is permitted up to 90% of the capacity booked by the shipper at the booking point, subject to a minimum of 10% of the booked capacity.
- If the initial nomination is ≥ 80 % of the booked capacity, the nomination may be increased by no more than half of the area not nominated.
- If the initial nomination is ≤ 20 % of the booked capacity, the nomination may be reduced by no more than half of the hitherto nomination.
- The renomination restriction shall not apply for day-ahead and within-day capacities

Interruption:

The interruption of interruptible capacities must be announced by OGE with a lead time of at least three hours unless this is not possible for operational reasons. According to KASPAR (standardization of capacity products in the gas sector - BK7-18-052), interruptible capacities that exceed the renomination limits as described above are given the priority of rank 1. According to rank 2 interruptible FZK and subsequently according to rank 3 the interruptible parts of bFZK and DZK are interrupted. The order of all interruptions corresponds to the reverse booking order, starting with the most recently concluded contract. The interruptible capacities auctioned at the same time as well as the interruptible portions of bFZK and DZK will be reduced proportionally.



Product name:

Firm / interruptible freely allocable capacity (FZK) at exit points to end consumers

Point types:

Exit points to end consumers

Marketing:

By FCFS method on the PRISMA capacity booking platform.
Only one shipper is allowed to book the available capacities at one exit point to end consumers at the same time.

Fee:

The product tariffs are provided on the current OGE price sheet.

Description:

Enables network use from the virtual trading point to the booked network connection point to final consumer. Offered as firm and interruptible capacity.

Description:

Enables network use from the virtual trading point to the booked network connection point to final consumer. Offered as firm and interruptible capacity.

Allocation requirements:

None.

Balancing group inclusion:

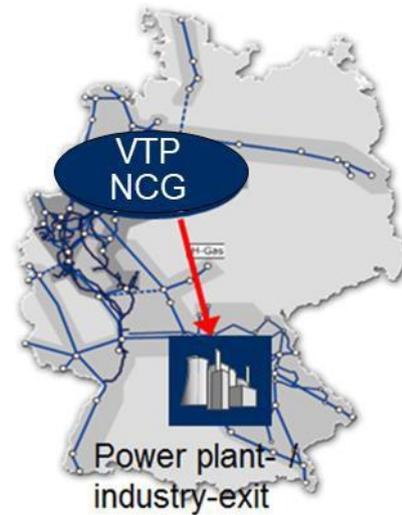
The shipper may include capacities at one exit point to end consumers only in one balancing group or one sub-balancing account simultaneously.

Nomination/re-nomination:

Nominations at grid connection points are not basically required, unless requested by OGE.

Interruption:

Interruptible capacities may be interrupted by OGE with at least three hours' notice unless it is not possible to give such notice due to operational reasons.



Product name:

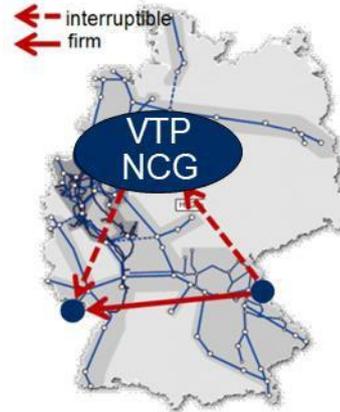
Dynamically allocable capacity (DZK) at cross-border inter-connection points (CBPs), Virtual Interconnection Points (VIPs) and storage facilities

Point types:

At cross-border interconnection points, Virtual Interconnection Points and storage facilities

Marketing:

The DZK/DZK1 marketed by OGE are auctioned at defined cross-border interconnection points, virtual interconnection points and storage connection points exclusively on the PRISMA platform. The validated network point combinations are not only marketed by OGE. The appropriate combination options and the transmission system operators responsible for the points are published separately on our website in the document "Capacity allocation restrictions and point-to-point connections for dynamically allocable capacities". Points that are not marketed by OGE are offered by the TSOs responsible for marketing on the capacity booking platforms they use.



Tariffs:

The product tariffs are provided on the current OGE price sheet.

Description:

DZK enables network use on a firm basis within the framework of the published point combinations in compliance with the insertion to balancing groups and usage rules described below:

Balancing group inclusion:

DZK at points requiring nomination are included in FZK balancing groups. The booked DZK capacity can be used on a firm basis if the corresponding entry and exit capacities at the above-mentioned network points are included in the same balancing group and if the nomination at the booked entry point corresponds to the nomination at the booked exit point.

Nomination:

Initial nomination until 14:00 hours on the day preceding the delivery day. Day-ahead capacity may be nominated until 20:00 hours. Firm within-day capacity can be nominated 45 minutes after the end of the auction. The nominated value shall otherwise be zero. The nominations are allocated within a balancing group or sub-balancing account first to the firm and then to the interruptible capacity products

Re-nomination:

The nominating balancing group manager may replace his initial nomination by a renomination no later than two hours prior to the hour concerned. The possibility of a renomination is limited if the shipper has booked more than 10 % of the reported annual technical available capacity at the booking point on a firm basis:

- Renomination is permitted up to 90% of the capacity booked by the shipper at the booking point, subject to a minimum of 10% of the booked capacity.
- If the initial nomination is ≥ 80 % of the booked capacity, the nomination may be increased by no more than half of the area not nominated.
- If the initial nomination is ≤ 20 % of the booked capacity, the nomination may be reduced by no more than half of the hitherto nomination.

The renomination restriction shall not apply for day-ahead and within-day capacities.

Interruption:

The interruption of interruptible capacities must be announced by OGE with a lead time of at least three hours unless this is not possible for operational reasons. According to KASPAR (standardization of capacity products in the gas sector - BK7-18-052), interruptible capacities that exceed the renomination limits as described above are given the priority of rank 1. According to rank 2 interruptible FZK and subsequently according to rank 3 the interruptible parts of bFZK and DZK are interrupted. The order of all interruptions corresponds to the reverse booking order, starting with the most recently concluded contract. The interruptible capacities auctioned at the same time as well as the interruptible portions of bFZK and DZK will be reduced proportionally.

Product name:

DZK (dynamically allocable capacity) at exit point that do not require nomination

Point types:

Network connection points (NAP) - also to power plants to be newly connected in accordance with § 39 of the German Gas Network Access Ordinance (GasNZV) and to system-relevant existing power plants due to case-by-case decisions

Marketing:

DZK at defined exit points that do not require nomination are offered via FCFS. The possible point combinations are part of this document.

Tariffs:

The product tariffs are provided on the current OGE price sheet.

Description:

DZK (dynamically allocable capacity) at exit points that do not require nomination enables network use on a firm basis from a previously defined entry point which requires nomination (CBP, VIP or storage connection point). The supply of the exit point that does not require nomination via the VTP is possible until the network operator issues an allocation limitation.

Balancing group inclusion:

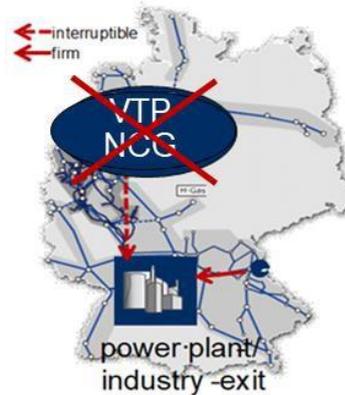
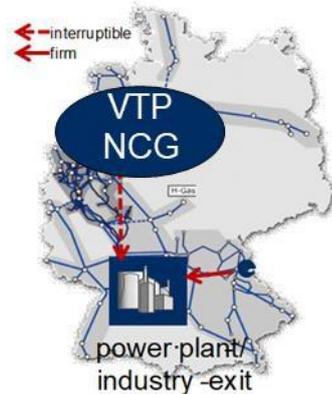
DZK at exit points that do not require nomination must be included in DZK-R balancing groups.

Publication of allocation limitation:

An allocation limitation for DZK at grid connection points that do not require nomination is pronounced with a lead time of at least 4 hours and always lasts until the end of the gas day. When the allocation limitation becomes effective, OGE checks whether the corresponding combination entry points have been inserted into the DZK-R balancing group/sub-balancing account. In addition, OGE checks whether the nominations at the entry balancing point correspond to the quantities predicted at the exit point that does not require nomination. For the supply of network connection points with DZK, OGE requires the transmission of forecast data in the form of a technical offtake notice (TAM) based on the NOMINT EDIG@s-message (Edigas XML 5.1). This TAM can be adjusted for the future for the next full hour, so that changing forecast values can be sent to the TSO promptly in accordance with the gas industry due diligence. As long as a tolerable difference between the forecast values of the hourly exit capacities (or flat load profile) and the nominated hourly entry capacities is maintained until the end of the gas day the balancing groups will not be separated. Any change in values through renomination leads to a new tolerance check. If the tolerable difference is no longer maintained, OGE instructs the Market Area Manager (MGV) to separate the balancing group with a lead time of 1 hour.

Current DZK - point combinations offered for the supply of power plants:

- Entry VIP Germany-CH - Exit Karlsruhe-Rheinhafen 1
- Entry Haiming 2 7F, Entry Speicher Bierwang, Entry Speicher Breitbrunn - Exit Vohburg, Paarstraße 2
- Entry Speicher Epe H – Exit Dorsten, Fürst-Leopold-Allee



Product name:

Conditionally firm freely allocable capacity (bFZK) at storage connection points

Point types:

Storage connection points

Marketing:

By auction on the PRISMA platform.

Interruptible capacities (uFZK) at storage connection points are marketed on a subordinate basis, i.e. only after the capacities of the bFZK category have been sold in full. bFZK and uFZK are offered on a discounted basis and at storage connection points with access to the market area of a neighboring country additionally or exclusively on a non-discounted basis (bFZKunrab/uFZKunrab)

Tariff:

The product tariffs are provided on the current OGE price sheet.

Description:

Under certain temperature conditions, conditionally firm freely allocable capacities are, in principle, both firm and freely allocable within the whole market area and have access to the Virtual Trading Point of THE. This product allows network use from the booked storage entry point to the virtual trading point (VTP) or from the VTP to the booked storage exit point. The temperature ranges described in more detail below define whether and to what extent the bFZK can be used on a firm basis.

Entry capacities:

If the previous day's forecast for the daily average temperature (considering the defined weighting according to the following tables) for the north or south storage connection points is below Zero degrees Celsius, the bFZK can completely be used on a firm basis. In a temperature range of 0°C to 8°C, 57 % of the bFZK can be used on a firm basis. If the daily average temperature is ≥ 8 °C the whole bFZK becomes interruptible.

Exit capacities:

If the previous day's forecast for the daily average temperature (considering the defined weighting according to the following tables) for the north or south storage connection points is below 10°C, the bFZK becomes completely interruptible. In a temperature range of 10°C to 16°C, 22 % of the bFZK capacity can be used on a firm basis. If the daily average temperature is ≥ 16 °C the bFZK capacity can completely be used on a firm basis.

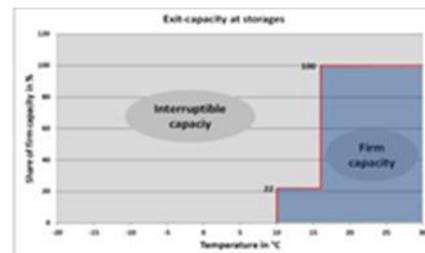
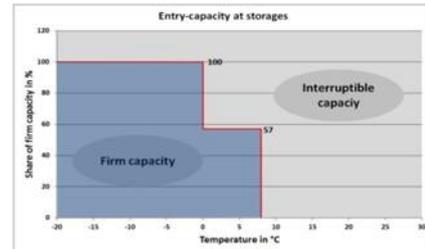
For the following storages the published daily average temperature is calculated proportionally based on the following measured values:

South storage facilities:

Haiming 2 7F, Speicher Bierwang, Speicher Breitbrunn, Speicher Haiming 3-Haidach, Zone MND GSG

North storage facilities:

Etzel (Speicher Crystal), Bitzenlander Weg 10, Etzel (Speicher ESE), Bitzenlander Weg 3, Friedeburg-Etzel, Bitzenlander Weg 2, Friedeburg-Etzel, Schienenstrang, EGL, Speicher Epe H, Speicher Epe L, Speicher Gronau-Epe H1, Speicher Gronau-Epe L1, Speicher Gronau-Epe L2



Meteorological stations south storages	Share in %
Harburg/Ries	16
München Erding FJS Flg.	26
Nürnberg	13
Rheinstetten	24
Stuttgart-Echterdingen Flg.	21

Meteorological stations north storages	Share in %
Bremen Flg.	4
Hamburg-Fuhlsbüttel Flg.	9
Hannover-Langenhagen Flg.	35
Münster/Osnabrück Greven Flg.	35
Schleswig	17



Balancing group inclusion:

The shipper may include capacities at entry or exit points into several balancing groups/ sub-balancing accounts. Undiscounted bFZK or uFZK may only be included into specially marked balancing groups/ sub-balancing accounts for undiscounted capacities. Discounted bFZK and uFZK may only be included in standard balancing groups/sub-balancing accounts which are not specially marked for undiscounted capacities.

Nomination/Re-nomination:

Nomination of balancing groups or sub-balancing accounts with day- ahead capacities shall be made from 18:30 hours. The nominations are first allocated to the firm and then to the interruptible capacity products. Any re-nomination of an initial nomination must be made with at least two hours' notice before the full hour.

Interruptions:

Interruptible capacities may be interrupted by OGE with at least three hours' notice unless it is not possible to give such notice due to operational reasons. The order of priority of the interruption corresponds to the reverse booking order, starting with the most recently concluded contract.

Note:

The forecast temperatures will be published the day before no later than 13:00 hours at the corresponding points in the web publications on our website. Based on the temperature forecasts available, the shipper can see whether and to what extent the capacity is firm or interruptible.

Product name:

Conditionally firm freely allocable capacity (bFZK) at defined Virtual Interconnection Points (VIPs)

Point types:

Defined VIPs.

Marketing:

By auction on the PRISMA capacity booking platform

Tariff:

The product tariffs are provided in the current OGE price sheet

Description:

At the following VIPs, firm freely allocable capacities are offered exclusively on a temperature-dependent basis. Under the temperature conditions described below, these capacities are basically firm and freely allocable in the entire market area and have access to the virtual trading point of THE.

Temperature conditions for VIPs Oberkappel und Waidhaus:

If the previous day's forecast for the daily average temperature at the metrological station in Essen is greater than zero degrees Celsius, the bFZK capacity becomes interruptible.

Temperature conditions for VIP Belgium-NCG und VIP TTF NCG-H:

If the previous day's forecast for the daily average temperature at the metrological station in Essen is less than zero degrees Celsius, the bFZK capacity can completely be used on a firm basis. In a temperature range between 0°C and < 8°C, 46.67% of the bFZK can be used on a firm basis and from a temperature of $\geq 8^\circ\text{C}$ the bFZK capacity becomes interruptible.

Nomination/Re-nomination:

Nomination of balancing groups or sub-balancing accounts with day-ahead capacities shall be made from 18:30 hours. The nominations are first allocated to the firm and then to the interruptible capacity products. Any re-nomination of an initial nomination must be made within at least two hours' notice before the full hour.

Interruptions:

Interruptible capacities may be interrupted by OGE with at least three hours' notice unless it is not possible to give such notice due to operational reasons. The order of priority of the interruption corresponds to the reverse booking order, starting with the most recently concluded contract.

Note:

The forecast temperatures will be published the day before no later than 13:00 hours at the corresponding points in the web publications on our website. Based on the temperature forecasts available, the shipper can see whether and to what extent the capacity is firm or interruptible.

