Overview of the capacity products offered by Open Grid Europe GmbH

Essen, 01 October 2020
Valid for gas transports as of 01 October 2020

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.

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Basic requirements for the use of capacities in the transmission system of Open Grid Europe GmbH

For the use of capacity products within Open Grid Europe’s transmission system, the following preconditions have to be met:

- Registration as a shipper for Open Grid Europe at the primary and secondary capacity booking platform
- PRISMA.
- Conclusion of an entry or exit contract.
- Implementation of a balancing group contract.
- Inclusion of the booked entry or exit point into a balancing group or a sub-balancing account.
- Nomination of the entry or exit gas quantity, if a nomination is required.

List of abbreviations:

bFZK Conditionally firm freely allocable capacity
BZK Restricted allocable capacity
DZK Dynamically allocable capacity
FCFS First Committed - First Served
FZK Freely allocable capacity
BCP Cross-border interconnection point
NCG Net Connect Germany GmbH & Co. KG
MACP Market area interconnection point
OGE Open Grid Europe GmbH
PRISMA Primary and secondary capacity booking platform (PRISMA European Capacity Platform GmbH)
uFZK Interruptible freely allocable capacity
VIP Virtual interconnection Point
VTP Virtual trading point
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:

<table>
<thead>
<tr>
<th>Capacity Product</th>
<th>Cross-border/Market area interconnection points</th>
<th>Virtual Interconnection Points (VIPs)</th>
<th>Storage Facility Connection Points*</th>
<th>Network connection points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firm freely allocable capacity (firm FZK)</td>
<td>✓ (Auction)</td>
<td>✓ (Auction)</td>
<td>X</td>
<td>✓ (FCFS)</td>
</tr>
<tr>
<td>Interruptible freely allocable capacity (interruptible FZK)</td>
<td>✓** (Auction)</td>
<td>✓ (Auction)</td>
<td>✓** (Auction)</td>
<td>✓ (FCFS)</td>
</tr>
<tr>
<td>Dynamically allocable capacity (DZK)</td>
<td>✓ (Auction)</td>
<td>✓ (Auction)</td>
<td>✓ (Auction)</td>
<td>✓ (FCFS)</td>
</tr>
<tr>
<td>Conditionally freely allocable capacity (bFZK)</td>
<td>X</td>
<td>✓ (Auction)</td>
<td>✓ (Auction)</td>
<td>X</td>
</tr>
</tbody>
</table>

* 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.

** If firm day-ahead or rest-of-day capacity is no longer available at a certain BCP/MACP, VIPs or bFZK capacity at a storage facility interconnection point, OGE offers the possibility to book interruptible rest-of-day capacity via over-nomination.
**Product name:**
Firm / interruptible freely allocable capacity (FZK) at border and market area interconnection points (BCPs/MACPs) and Virtual Interconnection Points (VIPs).

**Point types:**
Points where auctions are mandatory (BCPs/MACPs/VIPs).

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

**Allocation requirements:**
None.

**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:**
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. Interruption of interruptible capacity at an entry or exit point shall be affected in the chronological order of the respective entry/exit contract concluded, starting with the most recently concluded contract. Simultaneously auctioned interruptible capacities will be interrupted on pro rata basis.

**Marketing:**
By auction on the PRISMA capacity booking platform.

**Tariffs:**
The product tariffs are provided on the current OGE price sheet.
**Product name:**
Firm / interruptible freely allocable capacity (FZK) at exit points to end consumers.

**Point types:**
Exit points to end consumers.

**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.

**Inclusion:**
The shipper may include capacities at exit points 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.

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

**Fee:**
The product tariffs are provided on the current OGE price sheet.
**Product name:**
Dynamically allocable capacity (DZK) at border and market area interconnection points (BCPs/MACPs), Virtual Interconnection Points (VIPs), storage facilities or exit points to end consumers.

**Description:**
Enables indirectly use of the NCG VTP on an interruptible basis by linking the DZK balancing group with an invoicing balancing group. In addition, network use on a firm basis of the booked capacity from an entry point to a predetermined associated exit point or from an exit point to a predetermined associated entry point is possible. Use is only possible if capacities have been booked at the afore-mentioned predetermined associated entry and exit network points and if the capacities have been inserted into a separate DZK balancing group.

**Inclusion:**
This product must be included into a separate DZK balancing group. Capacity bookings of any type can only be included in a DZK balancing group if the relevant point combinations have been verified by Open Grid Europe. All validated network point combinations are published in this product data sheet. The desired combination of points must initially be assigned to each DZK balancing group in the OGE’s contract data management system (VMS) before initial use. Each point combination requires a separate balancing group. If a point combination only contains points which require nomination, they are included in a DZK-N balancing group. If the combination of points includes a point that does not require nomination (NAP), the inclusion must be made in a DZK-R balancing group. The provisions for DZK balancing groups in accordance with the General Terms and Conditions of NCG (market area manager) apply to all types of capacity included. DZK balancing groups for non-discounted capacities are also offered by NCG.

**Point types:**
At border and market area interconnection points (BCPs/MACPs), Virtual Interconnection Points (VIPs), storage facilities and predetermined exit points to end consumers related to new power plants according to § 39 of the German Gas Network Access Ordinance (GasNZV), system-relevant power plants or due to case-by-case decisions.

**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 re-nomination no later than two hours prior to the hour concerned. The possibility of a re-nomination 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.
Pronouncement of allocation limitation:
An allocation limitation is only published for DZK-R Balancing groups in which points that do not require nomination have been inserted with a lead time of at least 4 hours. When the allocation limitation is pronounced, OGE informs the market area manager NCG, who removes the link to the invoicing balancing group and the DZK balancing group will become an invoicing balancing group itself. Furthermore, OGE informs the shipper and the DZK balancing group manager. For its part, NCG informs the DZK balancing group manager and the balancing group manager of the previously linked FZK invoicing balancing account. If the allocation limitation was pronounced, the capacity can only be used on a firm basis if nominated equally from entry point to exit point. A pronounced allocation limitation always lasts until the end of the current gas day.

Interruption:
DZK is a firm capacity.
The indirect use of the VTP may be limited in the case of the pronounced allocation limitation. In the case that the pronounced allocation limitation is not respected, OGE reserves the right to reduce/interrupt the entry or exit flows to the extent that no hourly differences occur between those entry or exit flows.

Marketing:
At specific network points like border and market area interconnection points (BCPs/MACPs), Virtual Interconnection Points (VIPs), and storage facilities, dynamically allocable capacity (DZK) will be marketed in auctions or on FCFS basis at exit points to end-consumer on the PRISMA capacity booking platform. The permitted transportation path combinations are published in this document. The initial configuration of the point combination is carried out by the shipper in OGE’s contract management system (VMS).

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

Note for the use of DZK capacity for power plants:
Exit points to end consumers do not require nomination. When supplying exit points to end consumers with DZK capacity, OGE recommends to assign this exit point to the RLMoT allocation group. During this points’ general supply via the VTP, OGE will comply with a 4 hours’ lead time for the pronouncement of the allocation limitations to ensure the shipper the possibility to acquire rest-of-day capacities on the predetermined, associated entry point for this exit point. If congestion occurs, this exit point has to be supplied by the predetermined associated entry point.

If congestion occurs, the shipper must ensure that the required exit quantity is made available at the predetermined, associated entry point at the same time to ensure a firm transport of the booked capacities. If the booked and nominated quantities at the entry point are higher than the offtake quantities at the RLM exit point, the positive imbalances can be balanced due to the still linked FZK balancing group during the pronounced allocation limitation.
Current DZK - point combinations offered for transit:

- Kienbaum, Steinitz ↔ Oude Statenzijl
- Kienbaum, Steinitz ↔ VIP-TTF-NCG-H
- Vitzeroda MÜP ↔ VIP Belgium-NCG (winter period: 01.10. - 01.04.)
- Vitzeroda MÜP ↔ Oude Statenzijl (summer period: 01.04. – 01.10.)
- Vitzeroda MÜP ↔ VIP-TTF-NCG-H (summer period: 01.04. – 01.10.)
- VIP Waidhaus NCG ↔ VIP France – Germany
- VIP Waidhaus NCG ↔ VIP Oberkappel
- VIP Oberkappel ↔ VIP France – Germany
- VIP Belgium-NCG ↔ Bocholtz IP (Fluxys TENP),
- VIP Belgium-NCG ↔ VIP-TTF-NCG-H
- VIP Belgium-NCG ↔ Wallbach IP (Fluxys TENP),
- VIP Belgium-NCG ↔ VIP Germany-CH
- Bocholtz IP (Fluxys TENP) ↔ VIP Germany-CH
- VIP-TTF-NCG-H ↔ VIP Germany-CH

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

With the merger of market areas from October 1, 2021 (but no later than April 1, 2022) to Trading Hub Europe, the following DZK point combinations are offered for transit:

- Mallnow ↔ VIP-TTF-NCG-H
- Mallnow ↔ VIP Belgium-NCG (winter period: 01.10. - 01.04.)
- VIP Waidhaus NCG ↔ VIP France – Germany
- VIP Waidhaus NCG ↔ VIP Oberkappel
- VIP Oberkappel ↔ VIP France – Germany
- VIP Belgium-NCG ↔ VIP-TTF-NCG-H
- VIP Belgium-NCG ↔ VIP Germany-CH
- VIP-TTF-NCG-H ↔ VIP Germany-CH

It should be noted that corresponding DZK capacities at IP Mallnow are offered by GASCADE Gastransport GmbH.

After merger of market areas, DZK point combinations still available on 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 / Interruptible freely allocable capacity at storage facilities (bFZK/uFZK).

Point types:
Defined storage connection points.

Description:
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. bFZK defines a temperature range within which the marketed capacities are firm, and outside which they are interruptible, as shown in the diagrams below. uFZK is a capacity offer on an interruptible basis. bFZK and uFZK are offered on a discounted basis and at storages with access to more than one market area or the market area of a neighbouring country additionally or exclusively on a non-discounted basis (bFZKunrab/uFZKunrab).

Inclusion and allocation requirements:
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 interruption sequence will be the reverse of the booking sequence, starting with the contract concluded last.

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.

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

Note
The temperature ranges and forecast temperatures are published in our Dashboard on the OGE website. With the temperature forecasts available, the shipper will know on the preceding day at 12:00 hours – in time before the initial nomination – if and to what extent the capacity will be firm or interruptible. The shippers may initiate the conversion of interruptible capacity contracts into bFZK during the bFZK booking process on PRISMA.
**Product name:**
Conditionally firm freely allocable capacity (bFZK) at Virtual Interconnection Points (VIPs).

**Point types:**
Defined Virtual Interconnection Points

**Description:**
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 NCG. If there is a physical gas flow via Gernsheim and Rimpar to the north, and if the previous day's forecast for the daily average temperature measured at the meteorological station Essen is above Zero degrees Celsius, the bFZK capacity becomes interruptible.

**Nomination/Renomination:**
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 interruption sequence will be the reverse of the booking sequence, starting with the contract concluded last.

**Marketing:**
By auction on the PRISMA capacity booking platform.

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

**Note:**
In the OGE dashboard you will find the forecast temperatures which are published at 12 hours on the preceding day. In addition, an Urgent Market Message (UMM) is published when both product conditions occur.
Product name:
Restricted allocable capacity (BZK).

Point types:
Border and market area interconnection points (BCPs and MACPs).

Description:
Enables network use of the booked entry point up to a defined exit point, or network use of the booked exit point from a defined entry point. The use of the virtual trading point is excluded.

Allocation requirements:
Point-to-point relationship.

Inclusion:
The BZK must be included into a separate BZK balancing account. Inclusion of this product and any change to the inclusion must be made with 5 working days' notice.

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.

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:
BZK is a firm capacity.

Tariff:
The product tariff is provided on the current OGE price sheet.