

Storage Specification Interruptible Storage Capacity Jemgum 22/23

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hereinafter referred to as "**astora**"

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Article 1 Introduction

1. This **Storage Specification** completes the **Storage Services Agreement** and defines all the details required to enable **astora** to provide **Storage Services** in the Jemgum **Storage Location** based on any **Storage Services Agreement** be concluded for unbundled interruptible Working Gas Volume via PRISMA Capacity Platform.
2. For storage of **Gas** the **General Terms and Conditions for Storage Access**, the definitions for the storage of **Gas** contained in the **General Terms and Conditions for Storage Access** and the conditions of the **Storage Services Agreement** shall apply, unless this storage specification contains different arrangements. The terms used in the singular also include the plural and vice versa, assuming this has not been expressly agreed otherwise or is obvious from the respective situation.
3. This **Storage Specification** forms an integral part of the **Storage Services Agreement**. For this product the **General Terms and Conditions for Storage Access** shall apply with the exclusion of part four, part five and part six.

The product described hereinafter represents a special product according to **astora's General Terms and Conditions for Storage Access**, Article 3, section 2 and is only offered by **astora** under certain commercial conditions.

Article 2 Storage Services

1. Name of product: WGV (interruptible)
Storage Location: Jemgum
 Kind of product: Unbundled **Working Gas Volume** interruptible
 Allocation: First-come-first-served
 Term: According to **Storage Customer's** offer via PRISMA and **astora's** corresponding confirmation.
 Capacity: According to **Storage Customer's** offer via PRISMA and **astora's** corresponding confirmation offer.
2. The herein described **Storage Services** are unbundled.

The additional booking of **Injection and Withdrawal Capacity** falls within **Storage Customer's** sole responsibility, whereas **astora** warrants to offer **Injection Capacity** (firm or interruptible) for the period 1st April 2022 to 1st November 2022 and **Withdrawal Capacity** (firm or interruptible) on PRISMA

for the period 1st November 2022 to 1st April 2023, at a price of 0.0024 €/kWh/h/d (0.10 €/MWh).

Withdrawal Capacity before 1st November 2022, and **Injection Capacity** after 1st November 2022 is provided at a price of 0.0096 €/kWh/h/d (0.40 €/MWh).

The aforementioned prices will be reduced if and to the extent that the **Storage Customer's** nominations contribute to reduce the overall injection and/or withdrawal nominations at the Storage Location. The net prices shall be calculated by the following formulas:

$$1. \text{ Net price Injection Cap.} = 0.4 \text{ €/MWh} - \left(\frac{\sum_{t_0}^{t_n} \text{withdrawal reduction on Storage Location level}}{\sum_{t_0}^{t_n} \text{discountable booking}} \right) * 0.4 \text{ €/MWh}$$

$$2. \text{ Net price Withdrawal Cap.} = 0.4 \text{ €/MWh} - \left(\frac{\sum_{t_0}^{t_n} \text{injection reduction on Storage Location level}}{\sum_{t_0}^{t_n} \text{discountable booking}} \right) * 0.4 \text{ €/MWh}$$

where applies that $0 < \text{withdrawal/injection reduction} \leq 1$ and t_0 shall be the first hour of the **Start Date** and t_n shall be the last hour of the **End Day** of the contract for which the special discount applies. The withdrawal/injection reduction relates to allocated values. To calculate the reduction, the published allocation (on **astora** homepage) is compared to the value that would have resulted without the customer nomination.

Article 3 (Pre-) Booking Requirements

1. The minimum booking period for interruptible **Working Gas Volume** is
 - a) 90 **Gas Days**, if the party has no existing bundled **Storage Services** booked with astora in the **Storage Location** Jemgum.
 - b) 30 **Gas Days**, if there are bundled **Storage Services** with astora in place in the **Storage Location** Jemgum [in order to promote late withdrawal/early injection].
2. The lead time between booking date and **Start Day** of the **Storage Services Agreement** must at least amount to
 - a) two working days, if there is no existing communication connection between the **Storage Customer** and **astora** and if the **Storage Portal** is used as main communication path.
 - b) two working days, if there is an existing communication path, as ASX or via **Storage Portal**, or if a former connection can be reactivated within two working days. In case of doubts this can be requested at astora prior to booking this product.

Article 4 Operational Handling of Interruptible Working Gas Volume

1. The **Storage Customer** is entitled to use its interruptible **Working Gas Volume** up to an overall storage level of 92% in the contracted **Storage Location** Relevant is the end-of-day level published by astora daily for "d-1"

on <https://www.astora.de/en/transparency/dynamic-data/astora-storage-facilities>. If the storage level reaches 92% astora will interrupt **Storage Customer's** interruptible capacity and the **Storage Customer** is no longer entitled to any **Working Gas Volume** under this agreement until the overall storage level is less than 92%. **astora** checks the **Storage Level** on a daily basis at 09:00 a.m. CET. If the **Storage Level** ("d-1", end-of-day) exceeds 87% astora will notify the **Storage Customer** via e-mail. If the **Storage Level** ("d-1", end-of-day) exceeds 92% **astora** will submit a "Call for immediate Clearing" on day "d" via e-mail to **Storage Customer**.

2. The **Storage Customer** is therefore obliged to perform one of the following measures, once the overall storage level reaches 92%:
 - a) Nominate gas quantities towards astora and one of the relevant **Neighbouring Network Operator**, starting with the first hour of the following gas day. The daily quantity thus nominated must be at least 33% of the volume booked by the **Storage Customer** on an interruptible basis on d+1, 06:00. The **Storage Customer** is responsible to book the necessary transport capacity with the **Neighbouring Network Operator** to perform its duties towards astora. In case capacities are interrupted either from **astora** or the network operator, the aforementioned obligations of the **Storage Customer** are suspended until the end of such interruption. The rate is to be maintained for the following gas days as long as the storage level does not fall below 92%.
 - b) A (delivering) transfer of gas-in-store in the **Storage Facility** in accordance with article 21 of the **General Terms and Condition for Storage Access** at a level that meets the criteria under a.).
 - c) A purchase of firm **Working Gas Volume** in the **Storage Facility** either on primary or secondary (in accordance with article 20 of the **General Terms and Condition for Storage Access**) market that covers the contracted interruptible **Working Gas Volume**, provided that firm **Working Gas Volume** is available in the **Storage Location**, whereas such firm **Working Gas Volume** at no point substitutes the interruptible **Working Gas Volumes** booked hereunder.
3. **Storage Customer's** interruptible capacities will be available again once the published overall **Storage Level** is less than 92%.
4. In case it is evident that **Storage Customer** has not taken any reasonable endeavors to clear the interrupted **Working Gas Volume**, **astora** will submit a "Clearing Reminder" via e-mail to the **Storage Customer**. Subsequently, the **Storage Customer's** withdrawal is monitored on a continuous basis.
5. If **Storage Customer** has not undertaken any reasonable endeavor to clear its interruptible **Working Gas Volume** astora has the right to terminate this

Storage Services Agreement with immediate effect via e-mail to the **Storage Customer**.

6. **Storage Customer's** obligation to clear its **Working Gas Volume** according to this Art. 3 No. 1 is deemed to be fulfilled, if **Storage Customer** places a nomination for withdrawal once the **Working Gas Volume** has been interrupted pursuant to Art. 3 No. 1 and astora interrupts the respective withdrawal nomination.
7. In case of a termination according to this Article 3 No. 5 astora is entitled to sell the gas quantities that **Storage Customer** failed to withdraw according to this article 3 in order to minimize its damages, whereas 50% of the sale proceeds are considered to be astora's typical damage without further proof of actual damage ("penalty sale"). astora will pay to the **Storage Customer** 50% of the price for which astora sold the gas quantities according in line with the penalty sale.

Article 5 Storage Services Fee

The **Storage Services Fee** is fixed and is determined by **Storage Customer's** offer for the specific product via PRISMA and **astora's** corresponding booking confirmation. The **Storage Customer** shall be obliged to pay the **Storage Services Fee** for the **Storage Capacities** made available by **astora** independent of the use.

Article 6 Invoicing and Payment

The fixed **Storage Services Fee** according to article 5 shall be invoiced to **Storage Customer** in total before the **Start Day** of the **Storage Period** and shall be paid by **Storage Customer** before the **Start Date** of the Storage Contract.

Article 7 Relation to Existing Storage Services Agreements

1. A combination of Storage Products under this **Storage Specification** at the **Storage Location** is only admissible, if the **Storage Services Agreements** to be combined all feature a fixed fee. **Storage Services Agreements** with a fixed fee cannot be combined with any **Storage Services** booked in line with this **Storage Specification**.
2. For transfers of gas according to Article 21 **General Terms and Conditions for Storage Access** from **Storage Customer's** accounts with a fixed fee only to such accounts with variable fee, an additional transfer fee equal to the variable fee which the receiving party has to pay will be charged to the receiving **Storage Customer**.

Article 8 Injection and Withdrawal Curves

1. **Storage Services** under this *Storage Specification* as well as **Injection** and **Withdrawal Capacity** booked via PRISMA in order to use the Storage Services operationally are not restricted by any **Injection and Withdrawal Curves**.
2. In case **Storage Services** under this **Storage Specification** are combined with other **Storage Services** the **Injection and Withdrawal Curve** restrictions as stipulated for the respective other **Storage Services Agreement** continue to be applicable for the respective other product.

Article 9 Exceeding of Storage Capacities

For nominations exceeding the booked **Storage Capacities**, the **Fee for Exceeding the Storage Capacities** applies.

The **Fee for Exceeding the Storage Capacities** will be calculated daily by using the **Tariff for Exceeding the Storage Capacities** on the basis of the maximum hourly volume which exceeds 100% of the **Storage Capacities** per **Storage Day**.

The **Tariff for Exceeding the Storage Capacities** shall be:

- a) **Injection rate:** 2.8 ct/(kWh/h)/d
- b) **Withdrawal rate:** 3.9 ct/(kWh/h)/d

Article 10 Operations

1. In the Jemgum **Storage Location** the time required to process a **Renomination** shall be thirty (30) minutes for the **Delivery Point** to the **Natural Gas Network** of GTS, two (2) hours for the **Delivery Point** to the **Natural Gas Network** of GASCADE.

Please note the published conditions of GTS for renominations submitted with less than two hours lead time under: <https://www.gasunietransportservices.nl/en/network-operations/operational-handling/reduction-of-lead-time-nominations>

2. Contrary to article 3, para 1, of the **Operating Agreement** (Annex to the General Terms and Conditions for Storage Access), **Storage Customer** shall use the **Storage Portal** as primary communication path. In case of a technical shortfall, nominations shall be submitted via e-mail to operations@astora.de. This does not apply, if
 - a. an ASX-communication between the parties already exists or can be easily reactivated. In this case the **Storage Customer** is entitled to use the existing communication path; or

- b. **Storage Customer** holds valid **Storage Services Agreements** with **astora** that were concluded within the last storage year and the current storage year before/in which **Storage Customer** booked the interruptible working gas volume via PRISMA with a total contract value of €50,000. In this case the parties take best efforts to setup an ASX-communication without any additional costs for **Storage Customer**. If the setup takes longer than the **Start Day** of the **Storage Services Agreement** for interruptible **Working Gas Volume**, **Storage Customer** provisionally uses the Storage portal as main communication path until the ASX-communication is set up; or
- c. Storage Customer separately books an ASX-communication from **astora** for a price of €2,000. Such booking can be requested from astora via e-mail.

Article 11 Delivery Points

1. The **Points of Withdrawal and Injection** shall correspond to the points at which the Jemgum **Storage Location** is connected to the **Neighbouring Natural Gas Networks**. The **Neighbouring Natural Gas Networks** of the Jemgum **Storage Location** are the natural gas networks operated by GASCADE Gastransport GmbH, Kassel (D) (GASCADE) and Gas Transport Services B. V., Groningen (NL) (GTS).
2. **Delivery Point** to GASCADE is defined as: „Jemgum I“; Netzpunkt-ID: 1BMA (allocation procedure: declaratory).
3. **Delivery Point** to GTS is defined as: „Oude Statenzijl (astora Jemgum)“; Netzpunkt-ID: 301391 (allocation procedure: declaratory).

Article 12 Natural Gas Quality Specifications

For the Jemgum **Storage Facility** the quality parameters published by the **Neighbouring Network Operators** shall apply at the **Delivery Points** listed under Article 11, No 2 and 3.

Annex Provisions for REGENT

Preamble

For **Storage Services Agreements** concluded at the **Storage Location** Jemgum (hereinafter referred to as "**Storage**") the implementation of No. 2 and 3 of the operative part of the Federal Network Agency's decision concerning the periodic decision-making regarding the reference price methodology and the other points listed in Article 26 (1) Regulation (EC) No 2017/460 regarding all transmission system operators (determinations BK9-19/610 of 11.09.2020, hereinafter referred to as "**REGENT 2021**") apply.

According to section 2 of the operative part of **REGENT 2021**, network operators are obliged to offer a discounted network tariff at entry and exit points at storage facilities if and to the extent that a storage facility is not used as an alternative to grid connection point.

The network operator must have the storage operator prove the non-usability of the storage facility with discounted capacities as an alternative to a grid connection point in accordance with section 2 of the operative part of **REGENT 2021**.

With effect from 01.10.2021 **REGENT 2021** replaces the decision of the Federal Network Agency dated 29.03.2019, ref. no. BK9-18/610-NCG and BK9-18/611-GP (hereinafter referred to as **REGENT**) due to the merger of the previous market areas Net Connect Germany and GASPOOL into the joint market area "Trading Hub Europe" (hereinafter referred to as "**THE**") with effect from 01.10.2021.

Therefore, **astora** and **Storage Customer agree** on the following:

Section1 Installation of discount and non-discounted accounts in the **Storage** by **astora**

1. **astora** undertakes to keep a separate account for each **Storage Customer** to which the working gas quantities are booked which are
 - a. injected and withdrawn from the **Storage** using exit or injection capacity of the network operator at the storage connection point, which is priced with a discounted tariff in accordance with the provisions of section 2 sentence 1 of the operative part of **REGENT 2021** (hereinafter referred to as "**discounted capacity**") (hereinafter referred to as "**discount account THE**"),
 - b. injected into and withdrawn from the **Storage** using exit or entry capacity of the network operator at the storage connection point which is not priced with a discounted tariff according to the provisions of Number 2 Sentence 1 of the operative part of **REGENT 2021** (hereinafter referred to as "**non-discounted capacity**") (hereinafter referred to as "**non-discounted account THE**"), and

- c. injected into and withdrawn from the **Storage** using exit or entry capacity of the network operator of the connected market of the neighbouring country at the storage connection point (hereinafter referred to as "**GTS capacities**") (hereinafter referred to as "**non-discounted account TTF**").

The provisions of section 2 number 2 lit. d) and e) remain unaffected.

2. **astora** shall initially ensure that a reclassification of gas volumes

a. between the **discount account THE** and a **non-discount account THE** as well as

b. between the **discount account THE** and a **non-discount account TTF** is not possible in either direction.

Section 2 Entry of exit and entry capacities into balancing groups/sub-balancing accounts and allocation of working gas quantities to discounted and non-discounted accounts in the storage facility

1. In accordance with **REGENT 2021**, the network operator shall ensure that a transport customer

a. can only place **discounted capacity** into a balancing group/sub-balancing account without a special designation for non-discounted capacity (hereinafter referred to as "**B_{discounted}**"),

b. can only place **undiscounted capacity** into a specially marked balancing group/sub-balancing account for non-discounted capacity (hereinafter referred to as "**B_{non-discounted}**"), and

c. can place **GTS capacities** in a balancing group/sub-balancing account of Gas Transport Services B.V., Groningen (NL) (hereinafter referred to as "**B_{non-discounted TTF}**").

2. **astora** shall initially ensure that working gas quantities under the **Storage Service Agreements** concluded between the **Contractual Counter Party** which are

a. are injected from a **B_{discounted}** are exclusively allocated to a **discount account THE**,

b. are injected from a **B_{non-discounted}**, are exclusively allocated to a **non-discounted account THE**,

c. are injected from a **B_{non-discounted TTF}**, are exclusively assigned to a **non-discounted account TTF**,

d. are withdrawn from a non-discounted account,

- i. are either transferred to a **B_{non-discounted}**
 - ii. or be transferred to a **B_{non-discounted} TTF**,
 - iii. or, if the injected working gas quantities can be proven to have been transferred back to the **THE** market area from which the working gas quantity in question was originally injected, to a **B_{discounted}**, and
- e. are withdrawn from a **discount account THE**, are either transferred to a **B_{discounted}** or, if the injected working gas quantities can be proven to be withdrawn again into the market area **THE** from which the working gas quantity in question was originally injected, are transferred to a **B_{non-discounted}**.

The working gas quantities are allocated to the respective accounts of the **Storage Customer** by means of different balancing group codes. The **Storage Customer** shall inform **astora** of the balancing group codes to be used by the **Storage Customer** no later than five (5) calendar days before the start of the **Storage Service Agreement**.

3. If the **Storage Customer** and the network operator have agreed on invoicing in accordance with recital 558 of **REGENT 2021**, the **Storage Customer** shall be responsible to submit the written information of the respective network operator to **astora** in a timely manner. In this case, a transfer from the **discount account THE** to the **non-discounted account THE** or from the **non-discounted account TTF** to the **discount account THE** may be performed in deviation from section 1 number 2, sentence 1.

If an allocation or transfer of the working gas quantities cannot take place in accordance with number 2, **astora** will reduce the nominations concerned to zero in the context of matching and communicate this to the network operators.