

**AMENDMENT No. 1 TO GAS STORAGE SERVICES
TARIFF**

No. 1/2023

Warsaw, 2023

The Gas Storage Service Tariff No. 1/2023 established by Gas Storage Poland sp. z o. o. based in Dębogórze and approved by the President of the Energy Regulatory Office in the decision No. DRG.DRG-2.4212.22.2023.AG of 16 June 2023, published in the Industry Bulletin of the Energy Regulatory Office - Gaseous Fuels No. 72 (2736) of 16 June 2023, has been amended as follows:

1. Section 3 of the TABLE OF CONTENTS is amended to read as follows:

“3. TYPES OF SERVICES AND SPECIFICATIONS”

2. Section 2 entitled “DEFINITIONS” is amended to read as follows:

“2. DEFINITIONS

Unless the Tariff provides otherwise, the terms used in the Tariff shall have the following meanings:

Auction	procedure for allocating Storage Capacity through an auction procedure, as set forth in the Storage Code, resulting in the conclusion of a SSA;
Gross Calorific Value	Gross calorific value HSN [298.15 K, 101.325 kPa, V (273.15 K, 101.325.325kPa)] – the amount of heat that would be released as a result of complete combustion of a certain volume of Gaseous Fuel in air, assuming that the reaction takes place under a constant pressure of 101.325 kPa, all the products of combustion, except for water, are in gaseous state, the water formed in the process of combustion has condensed and all the products of combustion (both those in the gaseous state and the water in liquid state) are brought to the original temperature of the substrates, i.e. 298.15K;
Pressure	The pressure of Gaseous Fuel measured under static conditions as overpressure, being the difference between the absolute static pressure of Gaseous Fuel and the atmospheric pressure;
Gas Day	a period from 6:00 a.m. on a given day until 6:00 a.m. of the following day;

Additional Withdrawal Capacity	capacity for the withdrawal of Gaseous Fuel from a SF or GSF exceeding the Nominal Withdrawal Capacity, which arises as a result of the withdrawal of Gaseous Fuel with a Gross Calorific Value higher than the Reference Gross Calorific Value from the SF or GSF following to the injection of Gaseous Fuel with a Gross Calorific Value exceeding the Reference Gross Calorific Value, and to the mixing of the Gaseous Fuel in the SF or GSF;
Additional Injection Capacity	capacity for the injection of Gaseous Fuel to a SF or GSF, exceeding the Nominal Injection Capacity, which arises as a result of the injection of Gaseous Fuel with a Gross Calorific Value higher than the Reference Gross Calorific Value to the SF or GSF;
Additional Working Volume	working volume in excess of the Working Volume, which arises upon the injection of Gaseous Fuel with a Gross Calorific Value higher than the Reference Gross Calorific Value to a SF or GSF;
GSF Sanok	A Group of Storage Facilities comprising the Storage Facilities of: UGS Husów, UGS Strachocina, UGS Swarzędz and UGS Brzeźnica;
GSF Kawerna	A Group of Storage Facilities comprising the Storage Facilities of: CUGS Mogilno and CUGS Kosakowo;
Group of Storage Facilities	Storage Facilities grouped together so as to enable their combined operation as a group in terms of: <ul style="list-style-type: none"> • determination and offering of Storage Capacity by the SSO, • definition of combined withdrawal and injection curves, • existence of dedicated entry and exit points PWY_{OSM} and PWE_{OSM} provided for under the TNC;
Storage Facility (SF)	an installation used for the storage of Gaseous Fuel, including an underground natural gas storage facility and linepack capacity, owned and/or operated by an energy company,

including the part of the liquefied natural gas facility used for storage, excluding the part of the facility used for production operations and the plant used exclusively for the performance of the TSO's duties;

Storage Code

The Storage Code of the Storage System Operator, approved and implemented in accordance with the applicable provisions of the Energy Law Act;

Transmission Network Code (TNC)

The Transmission Network Code of Gas Transmission Operator GAZ-SYSTEM S.A. approved and implemented in accordance with the applicable provisions of the Energy Law Act;

Online Information Platform (OIP)

the SSO's web site for the publication of information;

Autumn Maintenance Downtime Period

a downtime period between the Injection Period and the Withdrawal Period, the starting and ending date of which is determined by the SSO subject to the principles set out in the Storage Code, during which neither injection of Gaseous Fuel to nor its withdrawal from a SF is possible;

CUGS

cavern underground gas storage (CUGS Mogilno or CUGS Kosakowo);

m³

a cubic metre of dry Gaseous Fuel under the reference conditions, i.e. absolute pressure of 101.325 kPa and temperature of 273.15 K;

Gas Month

a period from 6:00 am on the first day of a given month until 6:00 am of the first day of the following month;

Interconnection Physical Entry Points (MFPWE_{OSM})

interconnection physical points of entry to the Transmission System at interconnections with SF;

Interconnection Physical Exit Points (MFPWY_{OSM})

interconnection physical points of exit from the Transmission System at interconnections with SF;

Minimum Withdrawal Capacity	minimum value of Nominal Withdrawal Capacity;
Minimum Injection Capacity	minimum value of Nominal Injection Capacity;
Withdrawal Capacity	maximum value of Nominal Withdrawal Capacity;
Contracted Capacity	a maximum hourly quantity of gas expressed in energy units (MWh/h) which may be delivered for transmission at MFPWEOSM or MFPWYOSM, determined in accordance with the provisions of the Storage Code;
Injection Capacity	maximum value of Nominal Injection Capacity;
Nomination	a notification provided by a Storage Customer to the SSO stating the quantity of Gaseous Fuel which the SF or GSF will deliver, within a specified time frame, for injection into a SF or GSF, or which the Storage Customer will withdraw, within a specified time frame, from a SF or GSF;
Nominal Withdrawal Capacity	with respect to a SF or GSF, means the maximum quantity of Gaseous Fuel with the Reference Gross Calorific Value that can be withdrawn from such SF or GSF within one hour, expressed in MWh/h, which depends on the level of UGS filling and the Pressure at the point of entry to the Transmission System, whereas with respect to a given Storage Customer it means the maximum volume of Gaseous Fuel with the Reference Gross Calorific Value that the Storage Customer may withdraw from a SF or GSF within one hour, expressed in MWh/h, which depends on the level of UGS filling;
Nominal Injection Capacity	with respect to a SF or GSF, means the maximum quantity of Gaseous Fuel with the Reference Gross Calorific Value that can be delivered for injection to such SF or GSF within one hour, expressed in MWh/h, which depends on the level of UGS filling and the Pressure at the point of exit from the Transmission System, whereas with respect to a given Storage Customer it means the maximum quantity of Gaseous

	Fuel with the Reference Gross Calorific Value that the Storage Customer may deliver for injection to a SF or GSF within one hour, expressed in MWh/h, which depends on the level of UGS filling;
Withdrawal Period	period in a Storage Year between the Autumn and Spring Maintenance Downtime Periods during which Storage Customers may withdraw Gaseous Fuel from a SF or GSF, subject to the Reverse Storage Service and to the provisions of the Storage Code providing for the possibility of withdrawing Gaseous Fuel during the Injection Period, or injecting Gaseous Fuel during the Withdrawal Period;
Injection Period	period in a Storage Year between the Spring and Autumn Maintenance Downtime Periods during which Storage Customers may deliver Gaseous Fuel to the SSO for injection into a SF or GSF, subject to the Reverse Storage Service and to the provisions of the Storage Code providing for the possibility of withdrawing Gaseous Fuel during the Injection Period, or injecting Gaseous Fuel during the Withdrawal Period;
Storage System Operator (SSO)	the storage system operator referred to in Article 3(26) of the Energy Law Act, i.e. Gas Storage Poland sp. z o.o. with its registered office in Dębogórze;
Transmission System Operator (TSO)	Operator Gazociągów Przesyłowych GAZ – SYSTEM S.A. with its registered office in Warsaw;
Charge for Storage Service	a charge determined in accordance with the terms set out in sections 5 or 6 of the Tariff;
Bundled Unit	a portion of Working Volume together with the corresponding Withdrawal Capacity and Injection Capacity, which are offered jointly to Storage Customers by the SSO, where the specific values of and ratios between these parameters are set forth in section 3.3 of the Tariff;
Flexible Bundled Unit	a combination of Unbundled Storage Services offered according to a proportion predefined by the SSO, where the specific values of and ratios between the relevant parameters are set forth in the section 3.3 of the Tariff;

Gaseous Fuel	high-methane natural gas (class E) delivered for injection to or withdrawn from a SF or GSF and stored in a SF or GSF, which conforms to the quality requirements set out in the Storage Code;
UGS	underground gas storage facility;
Working Volume	with respect to a SF or GSF means the capacity of a SF or GSF, expressed in MWh, corresponding to the difference between their maximum capacity and the capacity required to store Gaseous Fuel which must remain in the SF or GSF to ensure its operating safety and the Minimum Withdrawal Capacity, whereas with respect to a Storage Customer it means a portion of the above-described capacity of a SF or GSF expressed in MWh, which is made available to such Storage Customer pursuant to a SSA;
Entry Points (PWE_{OSM})	points of entry to the Transmission System at an interconnection with a SF or GSF, i.e. entry points with undefined physical location for which the Transportation Ability Allocation is made (referred to in the Storage Code);
Exit Points (PWY_{OSM})	points of exit from the Transmission System at an interconnection with a SF or GSF, i.e. exit points with undefined physical location for which the Transportation Ability Allocation is made (referred to in the Storage Code);
Reduction of Offered Services	the separate allocation to the Storage Customer of Reduced Working Volume, or Reduced Injection Capacity in case when the Gross Calorific Value of Gaseous Fuel injected to a SF or GSF is lower than the Reference Gross Calorific Value, or of Reduced Withdrawal Capacity in case when the Gross Calorific Value of Gaseous Fuel withdrawn from a SF or GSF is lower than the Reference Gross Calorific Value;
Reference Gross Calorific Value	the Gross Calorific Value used for the specification of Storage Services in energy units, equal to 39.5 MJ/m^3 equivalent to 10.972 kWh/m^3);

Terms and Conditions of the Storage Services Platform (SSP Terms and Conditions)	the terms and conditions defining the rules for using the Storage Services Platform, in particular for concluding SSAs through the SSP, as posted on the SSO's website;
Re-nomination	a change made by a Storage Customer to its previously approved Nomination in accordance with the Storage Code;
Storage Year	the period from 06:00 hours on 15 April of the current year to 06:00 hours of 15 April of the following year;
Extension of Offered Services	the provision of Reduced Working Volume, or Reduced Injection Capacity offered separately to a Storage Customer in case when the Gross Calorific Value of Gaseous Fuel injected to a SF or GSF is lower than the Reference Gross Calorific Value, or of Additional Withdrawal Capacity, in case when the Gross Calorific Value of Gaseous Fuel withdrawn from a SF or GSF is higher than the Reference Gross Calorific Value;
Specifications	as applicable, the Specification of GSF Kawerna, the Specification of GSF Sanok or the Specification of the UGS Wierzchowice SF, as referred to in the Storage Code, which define the parameters and characteristics of a given GSF or SF, published on the SSO's website;
Transmission System	a high-pressure gas network excluding upstream pipelines and direct gas pipelines, for the operation of which the TSO is responsible;
Tariff	the present <i>Tariff for Gas Storage Services No. 1/2023</i> ;
TSO Tariff	the currently applicable <i>Tariff for Gas Transmission Services</i> of the TSO;
Gas Week	a period from 6:00 am on Monday of a given week until 6:00 am of Monday of the following week;

Storage Service	the service provided by the SSO to Storage Customers whereby the SSO offers a specific Storage Capacity for the following purposes: (i) injection of Gaseous Fuel into a SF or GSF, or (ii) use of the Working Volume of a SF or GSF by Storage Customers for the purpose of storing the injected Gaseous Fuel, or (iii) withdrawal of Gaseous Fuel from a SF or GSF;
Long-Term Storage Service	a Storage Service provided on the basis of a Long-Term Storage Services Agreement;
Day-Ahead Storage Service	an Unbundled Storage Service of a particular kind, which is simultaneously a Short-Term Storage Service and Firm Storage Service, provided to a Storage Customer pursuant to a Day-Ahead SSA, Long-Term SSA or Short-Term SSA concluded with the Storage Customer, offered for the next Gas Day;
Short-Term Storage Service	a Storage Service provided on the basis of a Short-Term Storage Services Agreement, with the exception of the Day-Ahead Storage Service which may be provided on the basis of a Day-Ahead SSA, Long-Term SSA or Short-Term SSA;
Monthly Storage Service	a Short-Term Storage Service provided on the basis of a Short-Term SSA , entered into for a term ranging from 1 to 11 consecutive Gas Months;
Firm Storage Service	a Storage Service whereby the SSO provides the Storage Customer with the capability to continuously inject Gaseous Fuel into and withdraw Gaseous Fuel from a SF or GSF in accordance with approved Nominations and Renominations and to the extent of the Injection Capacity and Withdrawal Capacity assigned to the Storage Customer, subject to the relevant provisions of the SSA and the Storage Code;
Interruptible Storage Service	a Storage Service whereby the SSO may interrupt or restrict the withdrawal or injection of Gaseous Fuel from or to a SF or GSF in cases and at time set out in a SSA or the Storage Code;

Reverse Storage Service	a Short-Term Storage Service consisting in an Interruptible Storage Service provided to a Storage Customer at the GSF Sanok) and the UGS Wierzchowice SF, in the form of a Bundled Unit or Flexible Bundled Unit, whereby the SSO offers the possibility to inject Gaseous Fuel during the Withdrawal Period and to withdraw Gaseous Fuel during the Injection Period by offsetting Nominations and Renominations for injection and withdrawal during the same period, subject to the provisions of the Storage Code providing for the possibility of withdrawing Gaseous Fuel by the Storage Customer during the Withdrawal Period and to withdraw Gaseous Fuel during the Injection Period, in the performance of the Reverse Storage Service;
Unbundled Storage Service	a Storage Service whereby the SSO offers the ordered Injection Capacity, Working Volume or Withdrawal Capacity on an unbundled basis in accordance with section 3.3. Of the Tariff;
Intraday Storage Service	an Unbundled Storage Service of a particular kind consisting in an Interruptible Storage Service provided as an additional service to Storage Customers on the basis of an approved Nomination or Renomination, offered in the current or the following Gas Day in case when unused Nominal Injection Capacity or unused Nominal Withdrawal Capacity becomes available;
Weekly Storage Service	a Short-Term Storage Service provided on the basis of a Short-Term SSA entered into for a term of 7, 14 or 21 consecutive Gas Days;
Storage Services Agreement (SSA)	the Gas Storage Services Agreement made between a Storage Customer and SSO in accordance with the Storage Code;
Long-Term SSA	a SSA entered into for a term of 1, 2, 3 or 4 consecutive Storage Years, and the in case of a GSF Kawerna for a term of either 1, 2, 3 or 4 consecutive Storage Years or a term of 12, 24 36 or 48 consecutive Gas Months, which do not correspond to Storage Years;

Short-Term SSA	a SSA entered into for a term shorter than 12 Gas Months, i.e. for a term ranging from 1 to 11 consecutive Gas Months, or for a term of 7, 14 or 21 consecutive Gas Days, or for 1 Gas Day;
Spring Maintenance Downtime Period	a downtime period between the Withdrawal Period and the injection Period, the starting and ending date of which is determined by the SSO subject to the principles set out in the Storage Code, during which neither injection of Gaseous Fuel to nor its withdrawal from a SF is possible;
Storage Capacity	a part of or the whole of the Injection Capacity, Working Volume or Withdrawal Capacity offered jointly or on an unbundled basis in accordance with the Specifications of a given GSF or SF;
Storage Customer	a natural person or legal person as well as an organizational entity without a legal personality but having legal capacity that uses Storage Services under a SSA; the TSO is also a Storage Customer to the extent that it uses a SF or GSF for other purposes than the performance of the TSO's tasks;
Reduced Withdrawal Capacity	capacity for the withdrawal of Gaseous Fuel from a SF or GSF falling short of the Nominal Withdrawal Capacity and resulting from the withdrawal of Gaseous Fuel with a Gross Calorific Value lower than the Reference Gross Calorific Value from the SF or GSF, due to the injection of Gaseous Fuel with a Gross Calorific Value lower than the Reference Gross Calorific Value to such SF or GSF and to the mixing of the Gaseous Fuel in the SF or GSF;
Reduced Injection Capacity	the capacity for the injection of Gaseous Fuel from the SF or GSF falling short of the Nominal Withdrawal Capacity and resulting from the injection of Gaseous Fuel with a Gross Calorific Value lower than the Reference Gross Calorific Value into the Storage SF or GSF;

**Reduced Working
Volume**

the Working Volume which results from the injection of Gaseous Fuel with a Gross Calorific Value lower than the Reference Gross Calorific Value to the Storage SF or GSF.”

3. Section 3 is amended to read as follows:

“3. TYPES OF SERVICES AND SPECIFICATIONS”

4. Section 3.3 is amended to read as follows:

“3.3 Specification of the Storage Capacity offered.”

5. Section 5.2 is amended to read as follows:

“5.2 RATES OF CHARGES

The rates of charges referred to in section 5 of the Tariff are laid down in the table below:

Tariff group	Rates of charges			
	S _P [PLN/month]	S _v [PLN/MWh/month]	S _{mz} [PLN/(MWh/h)/h]	S _{mo} [PLN/(MWh/h)/h]
GSF Kawerna				
GIM Kawerna 1p	884			
GIM Kawerna 1pe		1.46	2.50	1.85
GIM Kawerna 1r		2.92	5.00	3.70
GIM Kawerna 2p	873			
GIM Kawerna 2pe		1.44	2.17	1.39
GIM Kawerna 2r		2.88	4.34	2.78
UGS Wierzchowice				
MZW1p	676			
MZW1pe		1.12	3.01	1.71
MZW1r		2.24	6.02	3.42
MZW2p	245			
MZW2pe		0.40	0.90	0.89
MZW2r		0.80	1.80	1.78

Tariff group	Rates of charges			
	S _P [PLN/month]	S _v [PLN/MWh/month]	S _{mz} [PLN/(MWh/h)/h]	S _{mo} [PLN/(MWh/h)/h]
MZW Reverse 2p	116			
MZW Reverse 2pe		0.40	0.19	0.21
GSF Sanok				
GIM Sanok 1p	676			
GIM Sanok 1pe		1.12	2.87	1.79
GIM Sanok 1r		2.24	5.74	3.58
GIM Sanok 2p	243			
GIM Sanok 2pe		0.40	1.02	1.19
GIM Sanok 2r		0.80	2.04	2.38
GIM Sanok Reverse 1p	116			
GIM Sanok Reverse 1pe		0.40	0.19	0.21

S_p – rate of charge for ordered Bundled Unit
 S_v – rate of charge for ordered Working Volume
 S_{mz} – rate of charge for ordered Injection Capacity
 S_{mo} – rate of charge for ordered Withdrawal Capacity

“

6. Section 6.4.1 is amended to read as follows:

“6.4.1 The Charge for Storage Service provided in the form of Intraday Storage Service consists of the following:

- a) charge for used Injection Capacity under the Intraday Storage Service, or
- b) charge for used Withdrawal Capacity under the Intraday Storage Service,

and is calculated using one of the following formulas:

$$O_m = S_{mz} \times W_{mz} \times 0,5 \times \sum_{i=1}^n M_{z,i} \times T_i \quad \text{(for Intraday Storage Service consisting in the use of Injection Capacity),}$$

$$O_m = S_{mo} \times W_{mo} \times 0,5 \times \sum_{i=1}^n M_{o,i} \times T_i \quad \text{(for Intraday Storage Service consisting in the use of Withdrawal Capacity),}$$

where:

- O_m – Charge for Storage Service in [PLN];
- S_{mz} – the rate for the Injection Capacity applicable to Unbundled Storage Service for the tariff group GIM Kawerna 2r, GIM Sanok 2r or MZW2r (according to the classification of the Storage Customer) and specified in section 5.2 of the Tariff in [PLN/MWh/h] (for each hour of the settlement period);
- M_{zi} – the quantity of Gaseous Fuel in [MWh/h] nominated in the settlement period and delivered for injection to a Storage Facility or a Group of Storage Facilities, exceeding the Injection Capacity made available to a given Storage Customer or the injection capabilities specified in 3-day forecasts for each Gas Day, as referred to in the Storage Code, depending on which of these values (the Injection Capacity or the injection capabilities specified in the forecasts) is higher;
- W_{mz} – correction coefficient for the Injection Capacity specified in the table in clause 6.1.2 of the Tariff applicable for the Gas Month during which the Gas Days when the Intraday Storage Service is provided fall;
- S_{mo} – the rate for the Withdrawal Capacity applicable to Unbundled Storage Service for the tariff group GIM Kawerna 2r, GIM Sanok 2r or MZW2r (according to the classification of the Storage Customer) and specified in section 5.2 of the Tariff in [PLN/MWh/h] (for each hour of the settlement period);
- M_{oi} – the quantity of Gaseous Fuel in [MWh/h] nominated in the settlement period and delivered for withdrawal from a Storage Facility or a Group of Storage Facilities, exceeding the Withdrawal Capacity made available to a given Storage Customer or the withdrawal capabilities specified in 3-day forecasts for each Gas Day, as referred to in the Storage Code, depending on which of these values (the Withdrawal Capacity or the withdrawal capabilities specified in the forecasts) is higher;
- W_{mo} – correction coefficient for the Withdrawal Capacity specified in the table in clause 6.1.2 of the Tariff applicable for the Gas Month during which the Gas Days when the Intraday Storage Service is provided fall;
- T_i – number of hours in the settlement period in which the Storage Customer used the Intraday Storage Service.”