

Rules on the performance of commercial operations in IP CSANADPALOTA According to the Interconnection Agreement (IA) concluded FGSZ and TRANSGAZ

1. Background information

- These Rules agreed between the two neighbouring gas transmission operators shall be applied for the performance of the capacity booking contracts concluded between Transgaz, FGSZ and the Network Users **both for the direction Hungary-Romania (HU > RO) and for the direction Romania-Hungary (RO > HU), as of 02.12.2015**
- The IA concluded between TRANSGAZ and FGSZ incorporates the provisions of Regulation (EU) no. 312/2014 and of Regulation (EU) no. 703/2015 on the operation of interconnection points located at the border between two EU Member States
- **The data** necessary for the conduct of daily processes between **the Network Users** and **Transgaz** and respectively **between Transgaz** and **FGSZ shall be exchanged only in kWh/h(n)** based on the Gross Calorific Value (GCV) and the reference conditions (25°C /0°C)
- **Gas day** refers to the period during 05:00 UTC and 05:00 UTC of the next day for winter time and to the period starting with 04:00 UTC and 04:00 UTC of the next day for daylight saving time.
- The hourly timescale under this document correspond to UTC (the Coordinated Universal Time) according to the Interconnection Agreement concluded between FGSZ and Transgaz.
- For commercial purposes at IP Csanadpalota, the **conversion factors pursuant to ISO 13443/2000** are used.

2. Capacity booking

- **As of 02.12.2015 (starting with the date of IA's effectiveness), the capacities booked at IP Csanadpalota based on gas transmission contracts** concluded between Transgaz and the Network Users by that date and not related to the Regional Booking Platform (RBP) are converted to kWh/h (n) under reference conditions (25°C /0°C) and subject hereof.
- **When determining capacity in kWh/h (n) under reference conditions (25°C /0°C)** the following formula is used for the conversion from **MWh/day (s)** to the reference conditions (15°C/15°C):

$$\text{Capacity [kWh}_{(25^{\circ}\text{C}/0^{\circ}\text{C})}] / \text{h} = (\text{Capacity [MWh}_{(15^{\circ}\text{C}/15^{\circ}\text{C})}] / \text{day}) / 24 * (0.9476 / 0.9486) * 1000$$

- **Capacities booked by means of the RBP** are converted by Transgaz from kWh/h (n) under reference conditions (25°C /0°C) to MWh/day under reference conditions (15°C/15°C) and are loaded onto the GMOIS platform, by means of the following formula:

$$\text{Capacity [MWh}_{(15^{\circ}\text{C}/15^{\circ}\text{C})}] / \text{day} = (\text{Capacity [kWh}_{(25^{\circ}\text{C}/0^{\circ}\text{C})}] / \text{h} * 24) / 1000 * (0.9486 / 0.9476)$$

3. Gross Calorific Value (GCV)

- **Transgaz publishes on its website the GCV for each gas day**, determined under reference conditions (25°C /0°C) and under reference conditions (15°C/15°C),
- **The daily conversion of energy from kWh (n) (25°C /0°C) to MWh under reference conditions (15°C/15°C)** is based on the following formula:

$$\text{Energy [MWh}_{(15^{\circ}\text{C}/15^{\circ}\text{C})}] / \text{day} = (\text{Energy [kWh}_{(25^{\circ}\text{C}/0^{\circ}\text{C})}] / \text{day}) / 1000 * 0.9486 / 0.9476$$

- **The Gross Calorific Value related to gas day D-1 is posted daily, by 10:00 UTC of gas day D**, on Transgaz' website at the following address:

<http://www.transgaz.ro/en/informa%C8%9Bii-clien%C8%9Bi/gross-calorific-values>

4. Nomination, Re-nomination

- Nomination/Re-nomination at IP Csanadpalota is separately performed in relation to:
 - **Unilateral** nomination/re-nomination (**UN**) when the Network User's delivery request refers to the **bundled booked capacity** and
 - **Bilateral** nomination/re-nomination (**BN**)
 - The **bilateral** Nomination/Re-nomination (**BN**), when the delivery sent by the NU is related to the **unbundled booked capacity**;
- **TRANSGAZ communicates detailed information** related to the transmittal and the templates used for nomination/re-nomination, by e-mail (or by fax if the internet network is interrupted) to the contact persons indicated by the NU upon the transmission contract conclusion or to the persons indicated by the NU in this respect.
- **When the NU determines the nomination/re-nomination for the gas day D**, the **GCV is used related to the day D-3, expressed in kWh/m³(n)**, published by TRANSGAZ in the gas day **D-2 until 10:00 UTC**.

4.1. Unilateral Nomination/re-nomination (UN)

- **The NU send to FGSZ, the unilateral nomination related to the bundled capacities booked** in the IP Csanadpalota, split by hours, in energy units kWh/h (n) (25°C /0°C), daily until **13:30 UTC**.
- **FGSZ sends the confirmed nominations to TRANSGAZ until 14:00 UTC**.

- **TRANSGAZ** sends to the NU the unilateral nominations confirmed by FGSZ until **14:15 UTC**.
- The NU introduces the unilateral nominations confirmed by FGSZ in GMOIS, in MWh/day (15°C/15°C), using the conversion formula:

$$\text{Nom/Re (NU) [MWh}_{(15^{\circ}\text{C}/15^{\circ}\text{C})}\text{]/ day} = (\text{Nom/Re (NU) [kWh}_{(25^{\circ}\text{C}/0^{\circ}\text{C})}\text{]/ day}) / 1000 * (0.9486 / 0.9476)$$

- **The NU may send the unilateral re-nominations between 15:00 UTC (D-1) and 02:00 UTC (D)**. The correlation and confirmation process lasts for maximum two hours and it may start at any fix hour in the given timespan.
- The metering units and the conversion formulas used for the unilateral re-nomination are identical to the ones used in the unilateral nomination process and the data flow undergoes the same process, except for the deadlines:
 - The NU sends to FGSZ the unilateral re-nomination (*for example*, at 15:15 UTC);
 - FGSZ confirms the unilateral re-nomination to TRANSGAZ (at 17:00 UTC);
 - TRANSGAZ communicates to the NU the confirmed re-nomination (17:15 UTC);
 - The NU converts the unilateral re-nomination, according to the formula used for the conversion of the NU and introduces it in GMOIS.

4.2. The bilateral nomination/renomination (NB)

- **For the unbundled booked capacity, the NU send to TRANSGAZ, the bilateral nominations/renominations (NB) converted in the reference conditions (25°C /0°C), using the following conversion formula:**

$$\text{Nom/Re (NB) [kWh}_{(25^{\circ}\text{C}/0^{\circ}\text{C})}\text{]/ day} = (\text{Nom/Re (NB) [MWh}_{(15^{\circ}\text{C}/15^{\circ}\text{C})}\text{]/ day}) * (0,9476/0,9486) * 1000$$

- **The NU send to TRANSGAZ until 13:00 UTC**, of the gas day D-1 the bilateral nomination for the day D split by hours, expressed in kWh/day (n) under the reference conditions (25°C /0°C).
- **FGSZ sends to TRANSGAZ, until 14:00 UTC** of the gas day D-1 the confirmed bilateral nominations for the gas day D.
- **The NU may perform bilateral renominations between 15:00 UTC (D-1) and 02:00 UTC (D)**.
- The hours provided for the transmittal/confirmation of the bilateral nominations/renominations, are identical to the ones provided for the unilateral nominations/renominations.

5. Matching

- The matching process is applied exclusively to bilateral nominations and it is achieved by FGSZ by adjustment applying the „lesser rule principle” after the deadline for their transmittal (**13:30 UTC**). TRANSGAZ receives the result of the correlation (**14:00 UTC**) and communicates it to the NU (**14:15 UTC**).
- Subsequent to every bilateral renomination cycle, FGSZ correlates the renominations received by adjustments applying the „lesser rule principle”. The correlated renomination is communicated to TRANSGAZ within maximum two hours from the receipt of the renomination.
- TRANSGAZ communicates to the NU the result of the correlation, after each renomination.
- The last correlated renomination sent by FGSZ to TRANSGAZ represents a firm commitment for gas transmission for the gas day D.

6. Metering

- **In the situation of the physical flow**, in the Hungaria – Romania direction (HU > RO) or the Romania–Hungaria direction (RO > HU), the **metering of the quality and quantity of the gas transmitted is performed in the Csanádpalota Metering Station by means of the equipments owned, controlled and operated by FGSZ.**

7. Allocation

- **The Allocation** of the daily quantities received and/or delivered by the NU **is performed at the level of the confirmed nominations/renominations.** The metering unit for the allocation performed by FGSZ is kWh/h(n) under the reference conditions (25°C /0°C).
- TRANSGAZ converts the allocation in MWh (15°C/15°C) rounded to three decimals and introduces it into the GMOIS platform until **09:00 UTC**, using the energy conversion formula in section 3.

8. Additional information:

- **The NU will send to the e-mail addresses of the persons from the Commercial Balancing and Imbalances Calculation Department**, which they will receive after the conclusion of the transmission contract (or by fax, if the internet network is not functional) **the bilateral nominations and renominations related to the unbundled booked capacity.**
- TRANSGAZ and the NU, if appropriate, are responsible for the correct conversion from a reference state to another of the parameters used during the performance of the commercial processes.