ceegex
CENTRAL EASTERN EUROPEAN
GAS EXCHANGE

TECHNICAL REQUIREMENTS

ANNEX II

OF

CEEGEX MARKET RULES

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1. General Rules

1.1. Scope of the Technical Requirements

The Technical Requirements are set of rules applicable to technical conditions related to access and use of the Trading System of CEEGEX including parameters and prescriptions to ensure the technical conditions of the orderly trading and data reporting. Furthermore the Technical Requirements contain all rules referred to in CEEGEX Market Rules.

CEEGEX shall publish the Technical Requirements on its website.

1.2. Persons bound by the Technical Requirements and effective date

The present Technical Requirements are binding on CEEGEX and on persons bound by the CEEGEX Rules and Regulations.

The present Technical Requirements will become effective as defined in the Section 1.1.4.7 of CEEGEX Market Rules.

1.3. Definition

The definitions used in these Technical Requirements shall have the meaning as defined in the CEEGEX Market Rules.

2. GENERAL TECHNICAL REQUIREMENTS

CEEGEX is entitled to determine in the Technical Requirements the types of the technical accesses, which are required for using the different trading functions and related optional features.

2.1. DEFAULT SETUPS

CEEGEX offers different default setups for CEEGEX Members.

At present CEEGEX does not apply default setups.

2.2. ORDER SUBMISSION

For Orders sent to CEEGEX shall include:

- the Member's identification (identification of company and User);
- the Contract indicator;
- the Trading Account in which the Order is recorded;
- validity of the Order;
- the volume;
- the maximum or minimum price against which the Order may be executed;
- Order Type;
- direction of the Order – i.e. buy or sell Order

2.3. BASIC PARAMETERS AND PRE-TRADE CONTROLS

Basic parameters regarding the Orders:

- according to Annex III. Spot product list and specifications

CEEGEX carries out three types of pre-trade controls before the conclusions of Trades in all sessions of the trading, which are defined below:

- Price collars:
    1. Warning message is being sent at reaching the minimum sane Price of the Order (~~20~~ 55 EUR/MWh) and the maximum sane Price of the Order (~~80~~ 85 EUR/MWh).
    2. Warning message is being sent at 5% difference to the best bid and/or the best ask Orders, in case there are Orders in the Order Book (Price warning threshold).
- for every item size maximum order value: max quantity * Contract size * max price;
- maximum Order volume: max quantity * Contract size.

2.4. POST-TRADE CONTROLS

CEEGEX applies post-trade controls regarding every Trade resulting from Orders entered into the Trading Systems.

The post-trade controls may include the following controls:

- Examination of uncommon trading activities and market abuse suspicions and reporting them to the Supervisory Authority;
- Monitoring the concentration of trading activities;
- Post-trade control regarding the compliance of the trades with the CEEGEX Rules Regulations.

2.5. PUBLICATION OF MARKET DATA

CEEGEX shall make the following information available to the public on every Trading Day:

- Reference Price;
- volume weighted average Price;
- traded volume.

2.6. SIMULTANEOUS TRADING OF CONTRACTS

Currently simultaneous trading of Contracts is not available on CEEGEX.

2.7. DESIGNATIONS

2.7.1. DESIGNATION OF CLEARING HOUSE

KELER KSZF (registered under the Company Registration number 01-10-046985) has been designated by CEEGEX as the Clearing House of CEEGEX.

2.7.2. DESIGNATION OF THE TSO

FGSZ Natural Gas Transmission Private Company Limited by Shares (registered under the Company Registration number 14-10-300230) has been designated by CEEGEX as the TSO.

2.8. TECHNICAL TESTING

CEEGEX may require technical testing for access to the trading platform and/or to deliver changes or updates to the trading infrastructure or trading software.

CEEGEX communicates to the CEEGEX Members the eventual necessity of technical testing in a Market Notice.

2.9. MAXIMUM MESSAGE NUMBER

CEEGEX may define maximum message number in case of submission of Orders.

At present CEEGEX does not define the maximum message number.

3. IT REQUIREMENTS

3.1. ORDER ROUTING FACILITIES FOR ACCESS OF THE TRADING SYSTEM

CEEGEX Members can connect to CEEGEX markets and to the CEEGEX Trading System exclusively via an Order Routing Facility specified by CEEGEX, which is able to forward and accept an electronic Order.

CEEGEX Member shall use the following electronic order-transmission and reception system in order to access CEEGEX Markets:

- Order Routing Facility (application): Trayport Joule/Joule direct (provided and installed by Trayport Limited) or
- In addition to the above-mentioned electronic offer submission and reception system, CEEGEX Members are also entitled to use the CEEGEX Client: Global Vision Front End during the transitional period ending on September 30, 2025. The final deadline for the transition to the Trayport Joule/Joule Direct system is September 30, 2025. After this date — i.e., from October 1, 2025 — access to the CEEGEX Market will only be possible via the Trayport Joule/Joule Direct systems.

3.2. TECHNICAL CONNECTION TO THE TRADING SYSTEM

The CEEGEX Member must meet the requirements needed for the technical connection to CEEGEX Trading System.

CEEGEX provides the technical connection conditions for the CEEGEX member in case of the use of the aforementioned CEEGEX Client. The technical requirements, the attributes of the account and the connection settings are published on the sFTP server or are provided for the CEEGEX Member.

3.2.1. PASSWORD REQUIREMENTS FOR CONNECTING THE TRADING SYSTEM

The password requirements for the Trading System are defined based on whether Trayport GlobalVision Frond End or Trayport Joule/Joule is being used.

The password requirements are published on the sFTP server or are provided for the CEEGEX Member.

The CEEGEX Members and any other user with access to the Trading System (e.g., data vendors and info users) are required to change their passwords regularly, at least every 90 days, unless multi-factor authentication (MFA) is enabled. In that case, the 90-day password change is optional.

In case of the CEEGEX Member does not enable multi-factor authentication (MFA) and does not change its password in 90 days, CEEGEX shall automatically block the access to the Trading System, which will be unblocked as soon as the password has been changed.

In addition, CEEGEX suggests to the CEEGEX Members to establish an internal procedure considering password changes.

3.3. TECHNICAL CONNECTION TO THE CEEGEX SFTP SERVER

The CEEGEX Member must meet the technical requirements set by CEEGEX for the access of CEEGEX sFTP server, which are published on the sFTP server or are provided for the CEEGEX Member.

The port provided above must be allowed on the firewall of the computer running the client in order the gain access to the sFTP server.

One sFTP user can login from 10 instruments all at once.

3.3.1. SAFETY SETTINGS – SERVER FINGERPRINT

In order to create a safe sFTP connection, CEEGEX suggests that the CEEGEX Member validates the CEEGEX sFTP server fingerprint on first login. This requires a comparison of the fingerprint received on first login to fingerprint provided by CEEGEX.

The valid CEEGEX sFTP fingerprint is published on the sFTP server or is provided for the CEEGEX Member.

In case of changing the fingerprint the CEEGEX Members will be informed by CEEGEX.

3.3.2. SAFETY SETTINGS – ALGORYTHMS

When connecting to the CEEGEX sFTP server, the client and server applications agree in the background on which algorithms shall be used during the communication (so-called “SSH handshake”). If the client and the server cannot agree on which algorithms shall be used the connection will be unsuccessful.

If the connection is unsuccessful because of the SSH handshake process, the CEEGEX Member must clarify whether the sFTP client supports one of the algorithms supported by CEEGEX sFTP.

The supported algorithms are published on the sFTP server or are provided for the CEEGEX Members.

3.3.3. PASSWORD REQUIREMENTS FOR CONNECTING THE CEEGEX SFTP SERVER

CEEGEX determines the password requirements for joining CEEGEX sFTP server.

The password requirements are published on the CEEGEX sFTP server or are provided for the CEEGEX Members.

The CEEGEX Members are obliged to change their password related to the sFTP server in every 90 days regularly . The first modification must be made in 90 days after this regulation takes effect.

In case the CEEGEX Member does not change its password in 90 days, CEEGEX can block its access to the sFTP server which will be unblocked as soon as the password has been changed.

In addition, CEEGEX suggests to the CEEGEX Members to establish an internal procedure considering password changes.

3.4. TECHNICAL AND OPERATIONAL DOCUMENTS

CEEGEX provides the CEEGEX Members the technical and operational documents, guides, manuals necessary for the orderly use of the Trading System and the Order Routing Facility and any other documents needed to operate the technical facilities for accessing its services.

CEEGEX communicates to the CEEGEX Members the availability of these documents in a Market Notice.

3.5. HARDWARE AND SOFTWARE ENVIRONMENT

CEEGEX Member agrees to maintain a hardware and software environment that complies with the technical specifications.

The following hardware specification is necessary for client machines:

- 2.66 GHz processor with 4 cores;
- At least 4 GB RAM;
- The Microsoft Windows 8.1 or newer operating system
- .NET 4.8 framework
- Nvidia NVS 310 graphics card
- Antivirus application has to be installed.

3.6. TYPES OF THE TECHNICAL ACCESSES

CEEGEX is entitled to determine the types of the technical accesses which are required to use the different trading functions and possibilities: Only direct connection is allowed via internet.

3.7. ACCESS CONDITIONS FOR DATA VENDORS

CEEGEX may grant read only access for exchange data vendors if they fulfil all the conditions set forth is Sections 3.1. to 3.5. of these Technical Requirements.

4. EMERGENCY MEASURES

In case of natural gas supply emergencies and significant malfunctions of the natural gas system, CEEGEX may suspend partially or fully the operation of CEEGEX Market. In case of the suspension of the market, CEEGEX shall notify the CEEGEX Members about the following facts in a Market Notice, if relevant:

- Cause of the suspension;
- The beginning of the suspension;
- The possible end of the suspension;
- Affected Products and Contracts;
- Affected CEEGEX Members, if relevant;
- Restrictions regarding the trading activity, e.g. entering buy and/or sell Orders;
- Any eventual change in technical access.

In case of suspension of the trading right, during the period of the restrictions of the trading activity, the CEEGEX Member shall respect the prescriptions communicated in a Market Notice. Should the CEEGEX Member not respect these prescriptions, CEEGEX may apply sanctions as defined in the CEEGEX Market Rules in the Section 2.3.8.