ENERGY BUSINESS MOTION





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CENTRAL EASTERN EUROPEAN GAS EXCHANGE

Foreword





Péter Tóth, CEO, HUPX Chairman of Supervisory Board, CEEGEX Chairman of Executive Board, HUDEX

Dear Reader,

I am delighted to present HUPX Group, the Hungarian Power Exchange (HUPX), the Central Eastern European Gas Exchange (CEEGEX) and the Hungarian Derivative Energy Exchange (HUDEX).

As an important part of the liberalization of the electricity market in Hungary, HUPX started operating as a subsidiary of MAVIR Ltd., in July 2010. Fulfilling its mission, it takes an appreciated, leading place in Hungary and the Balkan region.

In 2013 - within the framework of HUPX Group - an organized market for natural gas opened its platform. CEEGEX is keen on utilizing Hungary's unique geographical capabilities and its already existing and planned cross-border capacities while providing cooperation opportunities in the Central Eastern European region.

In January 2018, the first Hungarian financial energy exchange, HUDEX started its operations as the newest member of the Group. HUDEX is supporting the Group's primary objective to offer a trading platform for Hungarian electricity and gas futures products.

Transparent, standardized market mechanism and liberalized market operation serves the safety of domestic power and gas supply, the cost efficiency of trading and the upswing of developments, investments in the energy industry.

I sincerely hope that our achievements convince you and I will have the opportunity to welcome you join our markets.

HUPX GROUP

Intraday, Day-Ahead, Futures Power&Gas products are tradable within one company group, discounts available for being a member on all markets

Non-discriminative trading equal treatment, equal accessibility to information, anonymus trading

Indicative reference price - market transparency

Settlement services - managed counterparty risks, prompt completion

Utilization of market resources







ADVANTAGES OF HUPX GROUP

Market coupling - optimal utilization of cross border links

Simple administration (scheduling, invoicing)

Increasing liquidity

Well-known IT solution - compatibility with other exchanges

Central clearing bank ensures financial security for all transactions

REMIT reporting

HUPX POWER DAY-AHEAD MARKET

Market coupling, and the continuous development of the HUPX Day-ahead Market have increased the interest towards organized electricity trading in Hungary. This is visible in the continuously growing trading volumes.







WHAT DO WE OFFER?

Daily auction through the year Products: hourly and block Gate closure: 11:00 am CET Market coupling with Czech Republic, Slovakia and Romania

Liquid market with a high number of active trading participants

HUPX DAY-AHEAD MARKET MEMBERS



Number of members admitted by the end of August 2019

HUPX DAY-AHEAD MARKET MONTHLY VOLUMES SINCE LAUNCH



HUPX DAY-AHEAD MARKET TRADED VOLUMES



REGIONAL DAY-AHEAD MARKET AVERAGE HOURLY PRICES



Source: www.hupx.hu and ENTSOE

HUPX DAY-AHEAD MARKET TRADING PROCESS



HUPX POWER INTRADAY MARKET

HUPX Intraday Market provides more opportunities for its Members to reduce their need for imbalance energy, to optimize power generation closer in time to delivery and to manage forecast errors or unforeseen power plant outages.







ACHIEVEMENTS

AutoTRADER solutions available for intraday trading

HUPX introduced shorter lead time: 90 minutes

XBID project:

(Cross-Border Intraday Market) Hungary will join in the 2nd wave at the end of 2019, to provide higher liquidity to the market

HUPX INTRADAY MARKET MEMBERS





34 MEMBERS

Number of members admitted by the end of August 2019

HUPX INTRADAY MARKET TRADED VOLUMES



HUPX INTRADAY MARKET TRADING PROCESS

Non-stop trading

24/7, all year round With IT and operational support

Order book opening

IDM trading session opens D-1 at 15:45 with 96 base contracts and blocks

Gate closure time

90 minutes before physical delivery

Trading System

Deutsche Börse M7 trading platform Automated cross-product matching OTC (Over-the-counter) clearing registration

API - Application Programming Interface

Trading is possible through trading platform and API

XBID - Cross-Border Intraday Market Project

Contributing to the creation of the EU's internal energy market HUPX IDM compatible with the XBID project

Pre-trade financial limit

Limit set by the Clearing Members of the traders through ECC (European Commodity Clearing) Possibility of changing the available limit on a daily basis

Daily limit reset at 16:00 CET on ECC business days

Open positions accumulate on Weekends and Holidays until booking cut with financial settlement (next business day)

Financial settlement at 8:00 on ECC business days

HUPX DAY-AHEAD MARKET AND HUPX INTRADAY MARKET CLEARING AND SETTLEMENT

ECC ensures financial security for all transactions by acting as a central counterparty between buyers and sellers and by setting up guarantee mechanisms such as security requirements. This way counterparty risk is eliminated.

Energy trading companies become Non-clearing members of ECC and the Clearing Members, which are banks being responsible for account maintenance and settlements. Clearing rules are described in ECC Clearing Conditions.

ECC nominates all transactions to MAVIR, who is then responsible for the physical settlement.



CEEGEX

CEEGEX is keen on utilizing Hungary's unique geographical capabilities and cross-border capacities by establishing a liquid regional gas market.

Its objectives are to support efficient portfolio management, provide new supplementary sources and offer advanced risk management options on the Hungarian natural gas market.

What do we offer?

Physical Within-day and Dayahead Market Trading on Hungarian Virtual Point (MGP) and on locational points

Continuous trading session 24/7 Continuous bid-ask prices provided by market makers









ACHIEVEMENTS

Reaching 5.23 TWh record spot traded volume in August

Total traded volume of 2018 has been exceeded more than 2.5 times by August 2019

Increasing spot traded volumes: Total spot volume of 2017: 2 014 GWh Total spot volume of 2018: 8 405 GWh Total spot volume by Aug. 2019: 23 900 GWh

5 new members until August 2019

Introduction of pre-trade limit check

Extended tradability of spot gas products

CEEGEX MEMBERS





37 MEMBERS

2 MARKET MAKERS

Number of members admitted by the end of August 2019

CEEGEX TRADED VOLUMES



CEGH - CEEGEX DAY-AHEAD MARKET PRICES



Source: www.ceegex.hu and Thomson Reuters Eikon

DAILY OPERATION OF CEEGEX MARKETS



CLEARING AND SETTLEMENT ON CEEGEX MARKETS

KELER CCP ensures financial security for all transactions by acting as a central counterparty between buyers and sellers and by setting up guarantee mechanisms such as security requirements. This way counterparty risk is eliminated.

Energy trading companies become Clearing members of KELER CCP and they open their bank account at KELER to conduct the daily financial transactions.Clearing rules are described in KELER CCP General Business Rules.

CEEGEX nominates all transactions to FGSZ, who is then responsible for the physical settlement.



WHY JOIN HUDEX

Both Hungarian Power and Gas Futures contracts are available with one HUDEX membership

Membership available for Power Futures contracts for non-EU companies as well

Financial trading with optional physical delivery for Power Products

No transaction fee as an initiator on HUDEX power trading

Growing liquidity and market makers

Elimination of Counterparty Risk

Anonym Market





ACHIEVEMENTS

Two Market Makers on HUDEX Gas Segment: RWE and MFGK

New Market Maker on HUDEX Power Segment from June 2019

New financial short-term products available for trading on HUDEX power segment: Hungarian baseload day product, Hungarian baseload weekend product

New financial product coming on HUDEX gas segment from October 2019: BoM, Seasonal, Yearly products

STP (Straight Through Processing) for the clearing registration of OTC trades on Power Segment



HUDEX MEMBERS

POWER

GAS





37 MEMBERS

3 MARKET MAKERS

Number of members admitted by the end of August 2019

HUDEX TRADED VOLUMES - POWER SEGMENT



CLEARING SYSTEM- POWER SEGMENT

On HUDEX Power segment all transactions are centrally cleared by the European Commodity Clearing AG.

Financial settlement referenced to HUPX Day-Ahead Market index. HUDEX offers optional physical delivery (weekly and monthly contracts) through the HUPX Day-Ahead Market.

The clearing house of HUPX DAM is ECC AG who nominates the net positions to the Hungarian transmission system operator (MAVIR Zrt.) on behalf of HUPX.

Default physical delivery can be requested during the admission process.



HUPX DAM settlement cycle

HUDEX TRADED VOLUMES - GAS SEGMENT



CLEARING SYSTEM - GAS SEGMENT

On HUDEX Gas all transactions are centrally cleared by KELER CCP Ltd.

KELER CCP ensures financial security for all transactions by acting as a central counterparty between buyers and sellers, by setting up and operating a guarantee system through collateral requirements. Clearing rules and conditions are described in KELER CCP's GBRs.

The trade notifications emerging from the positions of the trading participants are sent by CEEGEX to TSO, FGSZ.



DATA REPORTING SERVICE OF HUPX AND CEEGEX UNDER REMIT*

A1 Entrust HUPX/CEEGEX to report their trades and data concluded on HUPX/CEEGEX

A2 Choose another RRM and download the data from the HUPX/CEEGEX SFTP folder

A3 The A2 agreement extended with additional liability, incurring however an annual fee

B Entrust HUPX/CEEGEX to report trades concluded on other venues than HUPX/CEEGEX

* Data reporting under REMIT for HUPX, CEEGEX and HUDEX Members is included in the membership fee

** HUDEX does not own RRM status, HUPX as RRM will provide data reporting services to HUDEX



DATA REPORTING OF HUDEX**

EMIR: Our CCPs (ECC and KELER) can provide reporting service under EMIR.

MAR related issues: Any detection of market abuse has to be reported to MNB

MIFID II: ESMA: Reference data reporting, Non-working days report, weekly position reporting (if necessary)

MIFID II: MNB (NCA of HUDEX): Daily position reporting, Transaction reporting, daily trading information, list of deals and list of orders

	HUPX		CEEGEX			
	ID	DAM	Flexible	Classic	Basic	HUDEX
Fixed Fees						
Entrance fee	0€	15 000 €	7 000 €	15 000 €	0€	0€
Annual fee ¹	0€	12 600 €	6 500 €	12 000 €	2 000 €	3 000 € ¹
System fee ³	8 000 €	6 600 €	10 000 €	10 000 €	10 000 €	9 000 € ²
Additional user	3 000 €	3 000 €	6 000 €	6 000 €	6 000 €	4 200 €
Additional portfolio	0€	2 000 €	0€	0€	0€	0€
Read only user	3 000 €	3 000 €	6 000 €	6 000 €	6 000 €	4 200 €
Transaction fees						
Transaction fee power products (Initiator)	0,10€	0,05€	-	-	-	0€
Transaction fee power products (Aggressor)	0,10€	0,05€	-	-	-	0,025€
Transaction fee for Virtual Trading Point Gas (*CEEGEX Next-Hour, Within Day, Day-ahead)	-	-	0,09€	0,01 €/ 0,01 €/ 0,005 €*	1,00€	0,003€
Transaction fee for Locational Point Gas	-	-	0,12€	0,04 €	1,00€	-
OTC transaction fee power and gas	0,10€	-	-	-	-	0,01€
Delivery fee for power products	-	-	-	-	-	0,02 €

1 If the member is admitted to HUDEX, 3000 € discount is applied to HUPX and CEEGEX annual fee

- 2 If the Member is admitted to CEEGEX, the Trading System Fee for HUDEX is 0 €
- 3 For HUDEX Members Trading System Fee includes: One (1) user for Trayport GlobalVision and for the physical delivery two (2) HUPX DAM ETS Delivery Portfolio (for weekly and monthly products)

HOW TO BECOME A MEMBER

Preconditions

- Electricity or gas trading license* / Investment Firm license (HUDEX) / Certification of competence (KYC)
- Balancing group Agreement with MAVIR for Power
- Network usage Framework contract with FGSZ for Gas
- Clearing Membership Agreement (ECC / KELER) and pledge of collaterals required by them
- HUPX / CEEGEX / HUDEX Trader Certificate**
- Trading system test (HUDEX)

*Or other license stated in the relevant Market Rules.

**For HUPX Spot, EPEX Spot trader exams are accepted.



HUPX/CEEGEX/HUDEX MEMBERSHIP



PROCESS

1) Submission of the documents

- Forms
- Supporting documents

2) Check & Approval

• The documents are checked by HUPX / CEEGEX / HUDEX and ECC / KELER

Approval as an Exchange
Member of HUPX / CEEGEX /
HUDEX

3) Admission

- Connections to the Trading System
- Go-live

Contact: membership@hupx.hu

CONTACT



HUPX / HUDEX / CEEGEX

Membership E-mail membership@hupx.hu Phone (+36) 1 304 3221

HUPX Market operations

IDM - Intraday Market E-mail idmarketops@hupx.hu Phone (+36) 1 304 1092

DAM - Day-ahead Market E-mail marketops@dam.hupx.hu Phone (+36) 1 304 1096



HUPX / HUDEX

Media E-mail media@hupx.hu Phone (+36) 1 304 3240

CEEGEX CENTRAL EASTERN EUROPEAN GAS EXCHANGE



CEEGEX

Media E-mail media@ceegex.hu Phone (+36) 1 304 3240

HUDEX Market operations

Power segment E-mail power@hudex.hu Phone (+36) 1 304 1091

Natural Gas segment E-mail gas@hudex.hu Phone (+36) 1 304 3241

CEEGEX Market operations

E-mail mo@ceegex.hu Phone (+36) 1 304-3241