



# **CEEGEX explained** for consumers

**Gas trading in short** 

10/08/2023

## **ABOUT NATURAL GAS**

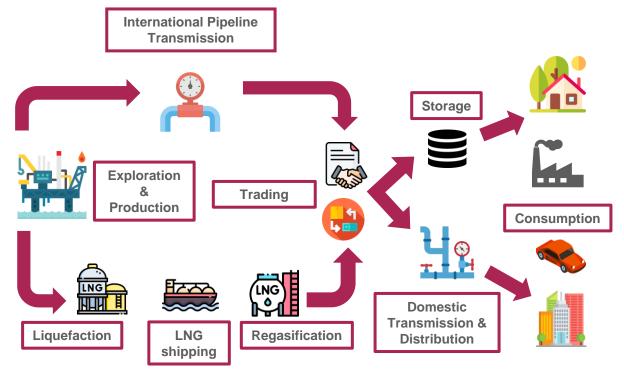
#### WHAT IS NATURAL GAS AND WHERE DOES IT COME FROM?

- >>> Fossil fuel in gaseous, colorless, odorless, flammable form
- >> Hydrocarbon, mostly consisting of methane (CH<sub>4</sub>)
- >>> Formed over millions of years from organic matter

#### SUPPLY CHAIN FOR NATURAL GAS

- >> Exploration (geological and seismic surveys) and production (onshore and offshore drilling)
- Processing (removing impurities, in case of LNG liquefaction and regasification)
- >> Transportation (via high-pressure pipelines or via special tanker ships as LNG)
- >> Trading on exchanges or bilaterally (OTC), occasionally international long-term contracts
- >> Storage (underground depleted gas reservoirs, salt caverns)
- Distribution and utilization (heating, cooking, power generation, industrial processes, LPG)

- >> Natural gas reservoirs are often found alongside oil deposits
- >> It can also be found in the form of shale gas, coal bed methane, less often methane hydrate and biogas
- >>> Possible to blend with biomethane of renewable origin





# **HUNGARY'S MAIN SUPPLY ROUTES**

#### **GAS IMPORT VIA PIPELINE**

- **Austria**: connection to Western Europe, formerly a significant Russian route via Ukraine, Slovakia and Austria.
- 2 Croatia LNG: closest liquefied natural gas terminal to Hungary, which can receive tankers from anywhere on the globe, even from America, Africa and Asia.
- Serbia TurkStream: for a few years now, gas has arrived in Europe from Russia via Turkey, and it has reached Hungary via the border with Serbia. In the future, gas originating from Azerbaijan or Turkey may also arrive via Bulgaria and Serbia.
- Romania: significant production, partly exported towards Hungary and even larger quantities may arrive in the future.
- **Ukraine:** in the past most of the Hungarian import volumes from Russia arrived via this route according to the long-term contracts between the two countries (partially replaced by TurkStream).
- **Slovakia:** occasional usage, its value may increase with recent infrastructure constructions, and Hungary may be supplied for example with Polish LNG in the future.





# **ABOUT GAS EXCHANGES**

\*The list of gas trading companies supplying consumers is available at: https://www.mekh.hu/engedelyesek-listaja

## WHAT ARE GAS EXCHANGES AND GAS HUBS?

- » Natural gas is typically bought and sold on exchanges by trading companies, the exchange itself only provides the platform for it.
- A gas hub means a physically well-connected country or region that serves as the delivery location of products, such as the Dutch Title Transfer Facility for natural gas (TTF) or the Hungarian Virtual Point (MGP).

## WHY ARE GAS EXCHANGES IMPORTANT?



- ✓ Anonym and non-discriminative trading via exchanges
- ✓ Deals are concluded at the best available prices based on supply and demand dynamics



- ✓ Transparent matching mechanisms increase market efficiency and competition
- ✓ Exchange price serves as an **important reference** to market participants



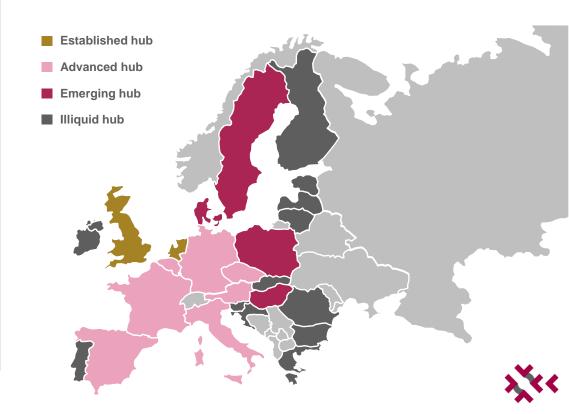
Partner risk is eliminated by involving a clearing house



- ✓ Exchanges provide a regulated framework, where energy policies can be integrated
- ✓ Consumers benefit from diversification (access to diverse sources), which enhances the security of supply
- ✓ Enables cross-border trading, which facilitates liquidity and market integration

## **CEEGEX**, THE HUNGARIAN GAS EXCHANGE

- >> 10 years of operation
- >> 48 members from 15 countries
- >> Traded volume is the quarter of the Hungarian gas consumption
- >> MGP was reclassified to emerging hub in 2021 by ACER



Disclaimer: This document contains analyst opinions, which don't necessarily represent the official views of CEEGEX.

# **OPERATION OF THE GAS EXCHANGE**

#### MAIN CHARACTERS

- >>> Gas exchange the platform
- Members companies admitted for trading
- >> Clearing house financial security
- Transmission System Operator (TSO) physical security



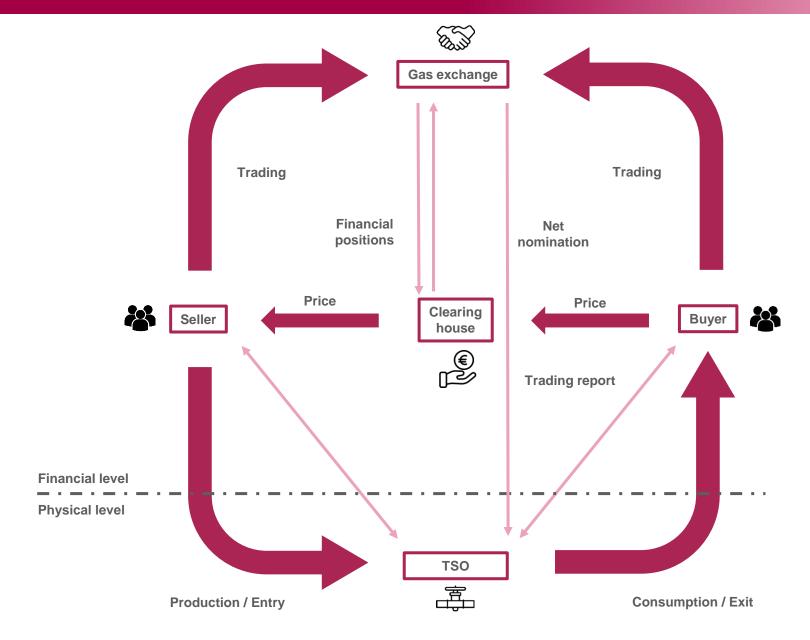
Each well-functioning gas exchange has a **clearing house** that manages the trading accounts and trading limits of the members as the EUR amounts are deposited via the clearing house.



The transmission system operator (TSO) ensures the physical delivery of natural gas, checks the quantities traded on the gas exchange and the correctness of the quantities fed into and withdrawn from the network.



**Members** can be wholesale traders, natural gas producers, network operators and even consumers. Every member has the right to buy and sell.





# **CEEREP, THE HUNGARIAN INDEX**

#### WHY ARE PRICE INDICES IMPORTANT?

- ✓ <u>Transparent:</u> widely available to the market participants
- ✓ <u>Compact:</u> one price summarizes an entire trading day
- ✓ Reliable: simple and objective calculation logic helps decision-making

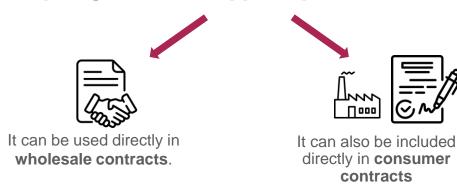


## WHAT IS CEEREP AND HOW IS IT CALCULATED?



- >> A price index reflecting market conditions in Hungary at the end of the day
  - >> The calculation is based on the orders and contracts on CEEGEX
  - >>> Follows **European best practices** (same parameters and algorithm)

## WHAT CAN CEEREP BE USED FOR?



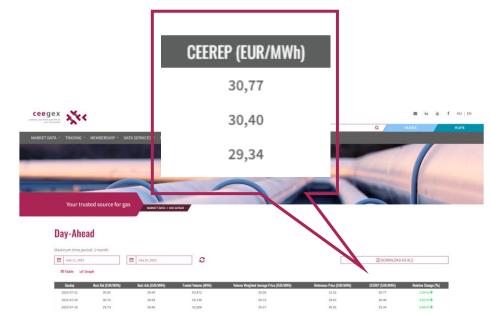
## WHERE IS **CEEREP** AVAILABLE?

It is published on CEEGEX website:

https://ceegex.hu/en/market-data/daily-data



Every weekday after 5:30 p.m.





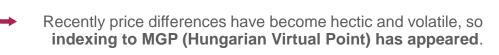
## HUNGARIAN INDEX IN HUNGARIAN CONTRACTS



Price indices traditionally available in Hungary:



Price differences between countries (local events also affect gas prices)

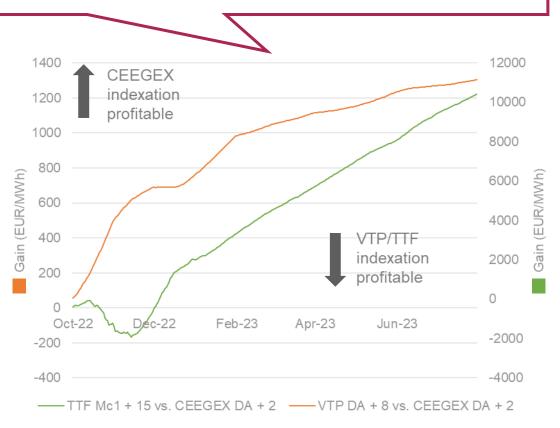


- ✓ enables pricing that reflects domestic supply and demand conditions
- ✓ it is more beneficial for both the consumer and the trader
- ✓ the contract price can be separated from factors influencing foreign prices

If a gas contract includes a spot index, then CEEGEX prices are the best solution in Hungary instead of spot TTF or VTP.

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Based on CEEGEX's internal analysis, in the first 10 months of '22/23 gas year the cost of a consumer was significantly more favorable with a contract linked to CEEGEX than with TTF or VTP indices.



CEEGEX encourages market participants to use the newly launched CEEREP index or the volume weighted average price (VWAP) in the bilateral contracts, especially towards consumers.