

Gas supply security in Hungary

15. 02. 2024

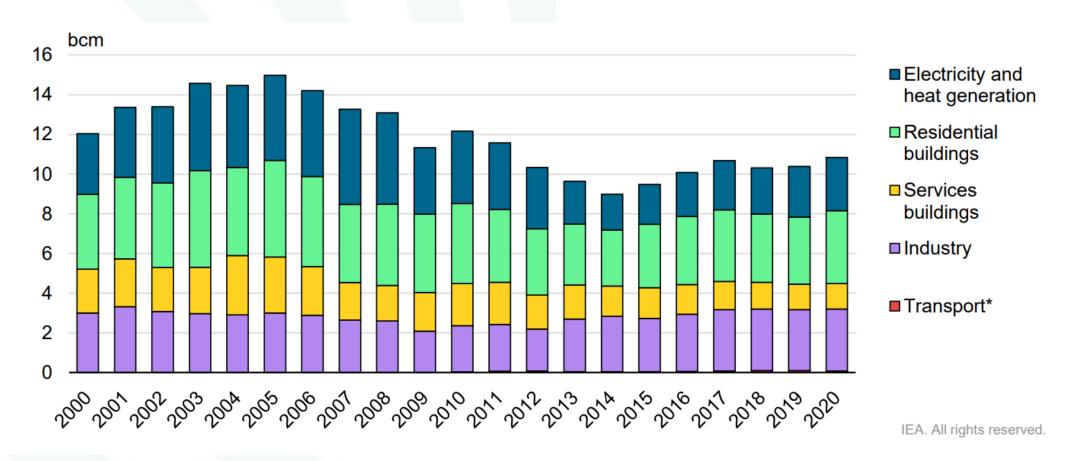
Hungarian Energy and Public Utility Regulatory Authority

Clean energy, sustainable environment

Natural gas consumption has sharply declined



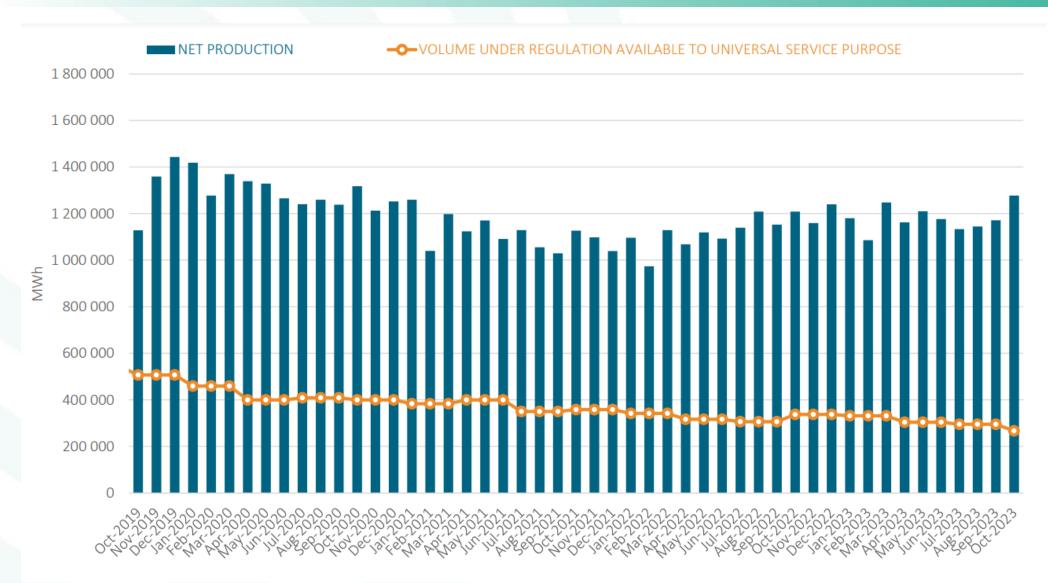
Natural gas comsumption by sector, 2000-2020



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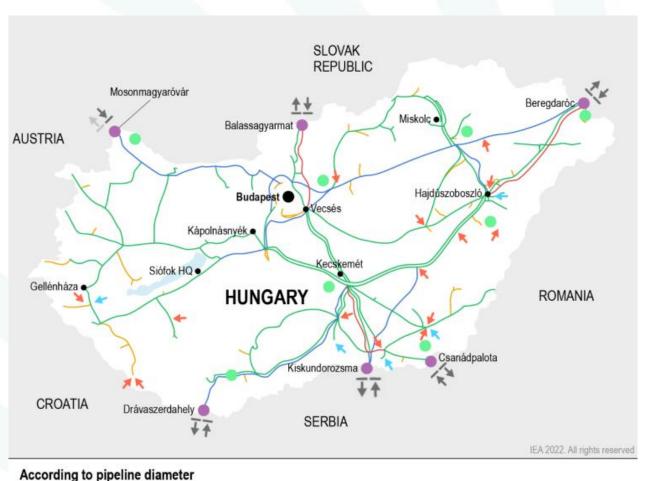
Domestic production is declining; lately new efforts to increase production





Well developed domestic gas infrastructure





- 5.889 km of high-pressure pipeline
- 400 gas delivery points
- Gas interconnections with all neighbours except Slovenia
- Distribution system: 84.917 km
- 11 regional DSOs

Domestic production inlet point 000 ≤ D gas pipeline

- 600 ≤ D ≤ 800 gas pipeline
- 300 ≤ 500 gas pipeline
- D ≤ 300 gas pipeline

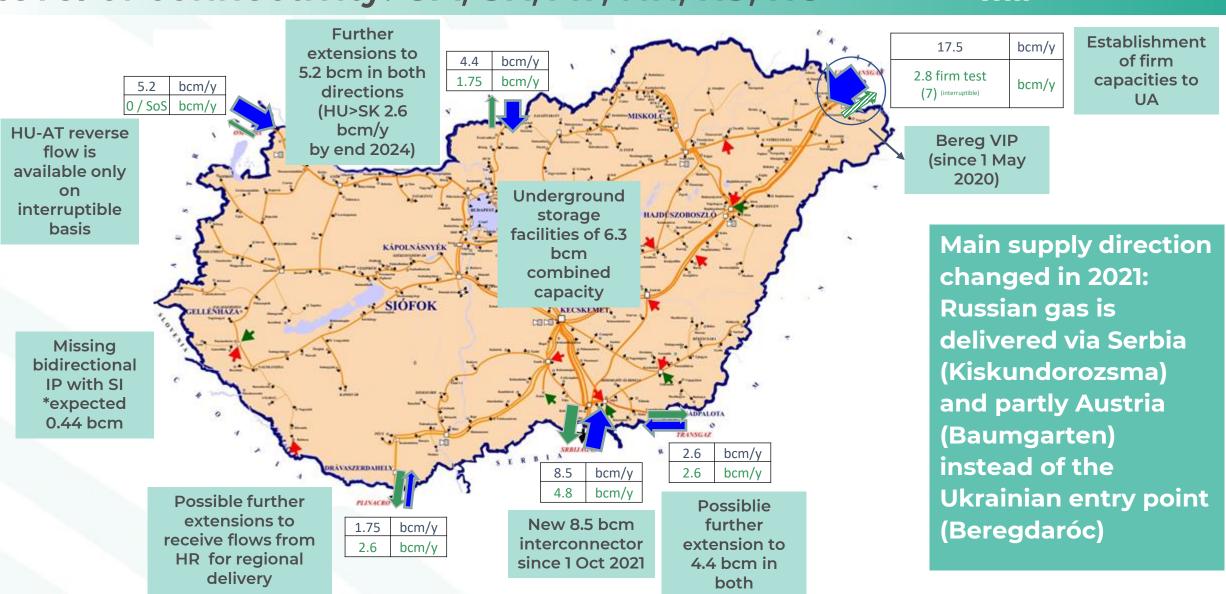
- Underground storage entry/exit point
- Virtual reverse flow

- Cross border entry point
- Cross border exit point
- Cross border point
- Compression station

Infrastructure developments resulted in high level of connectivity: UA, SK, AT, HR, RS, RO

Source: MEKH, EU Affairs Unit





directions

Current gas supply structure



- 15 year long gas supply contract with Gazprom, signed in 2021 by MVM CEEnergy: 4,5 bcm/year - to be supplied through the Serbian interconnection, Kiskundorozsma via TurkStream (3,5 bcm) and through Austria, Baumgarten (1 bcm)
- 7 year long contract signed in 2020 by MVM CEEnergy to reserve 1 bcm/year capacity in Krk LNG terminal (technical capacity 2,9 bcm)
- **0,1 bcm/year** gas from Azerbaijan, contracted by MVM CEEnergy, which could be increased based on long term contract to 1 or 2 bcm/year

Further efforts to increase supply security



Gas source diversification

- Black Sea resources HU-RU interconnection capacity? RO internal gas network?
- Azeri sources bottlenecks in the Southeast gas infrastructure; Solidarity Ring could be a solution
- Other LNG sources geographical distance manifests in transportation cost; significant cost disadvantage

Develop a national biogas/biomethane strategy

So far only limited focus on this energy source

Potential role of hydrogen

Limitations due to affordability

Increasing diversification: Solidarity Ring (STRING) project



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Objective:

 Transport Caspian/Azeri gas from TR-BG border towards RO, HU and SK (and beyond)

Description:

- The project builds on already existing infrastructure but certain pipeline capacities need to be increased
- April 2023, Sofia: MoU signed with SOCAR (Azerbaijan)

Participating gas TSOs:

- Bulgartransgaz
- Transgaz
- Eustream
- FGSZ



Source: FGSZ

Increasing diversification: Vertical Corridor



Objectives:

- Transport gas from South to North and vice versa
- Debottlenecking the route (Bulgaria, Romania)
- Supply Black Sea gas towards North
- More active use of Ukrainian storages

Description:

 January 2024: MoU signed in Athens

Participating gas operators:

- DESFA
- Gastrade S.A. (Greece)
- Bulgartransgaz
- Gas Interconnector Greece-Bulgaria (ICGB) AD (Bulgaria)
- Transgaz (Romania)
- FGSZ
- Eustream (Slovakia)
- Gas TSO of Ukraine
- Vestmoldtransgaz (Moldova)



Source: DESFA



Thank you for your attention!

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