

23rd Session of UN Working Party on Gas

Natural Gas System in Hungary 2012

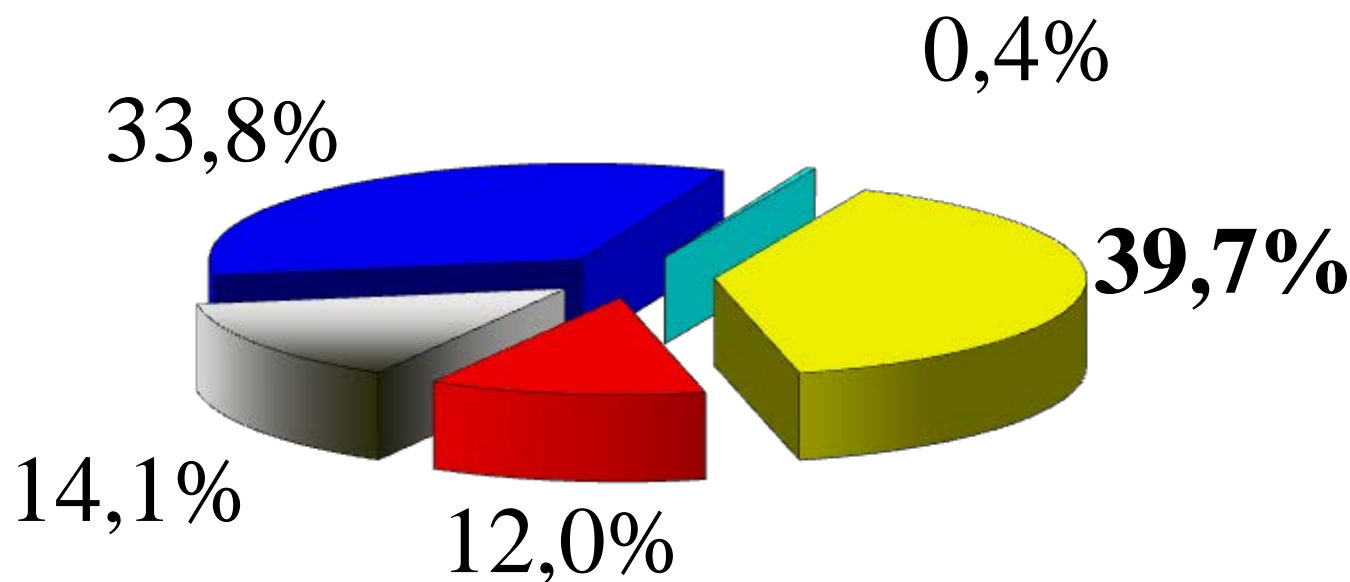


UNITED NATIONS
Geneva
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Senior Leading Advisor



Role of Natural Gas in Hungary



■ solid	■ crude oil and products
■ LPG	■ natural gas
■ primary electricity	

Natural Gas Supply 2012

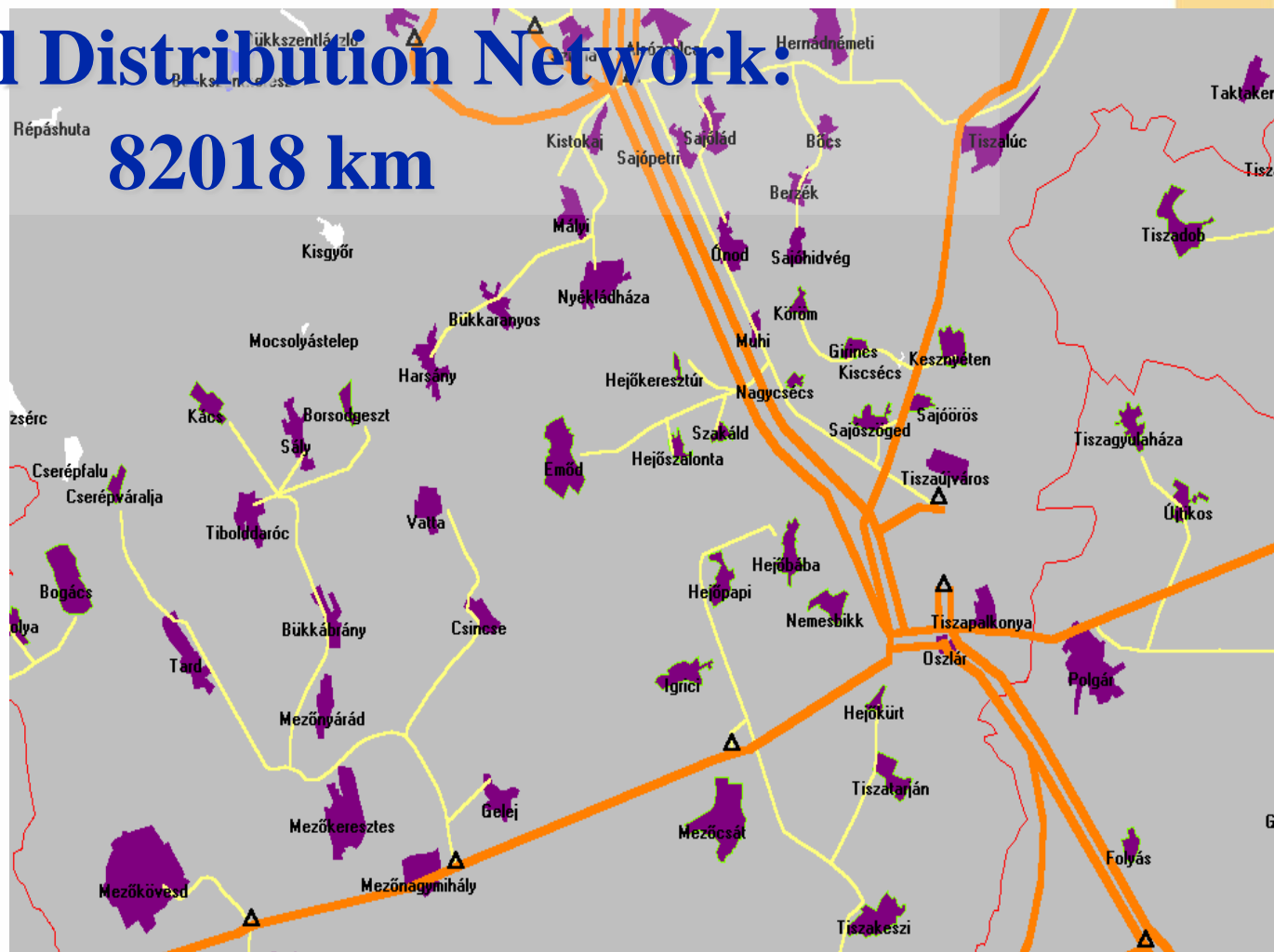
	BCM	%
Total Hungarian Supply:	10.24	100
Domestic Production:	2.07	20.2
Imports (diversified):	8.17	79.8
Eastern Direction:	3.57	34.9
Western Direction :	4.60	44.9

Gas Distribution

National Distribution Network:

82018 km

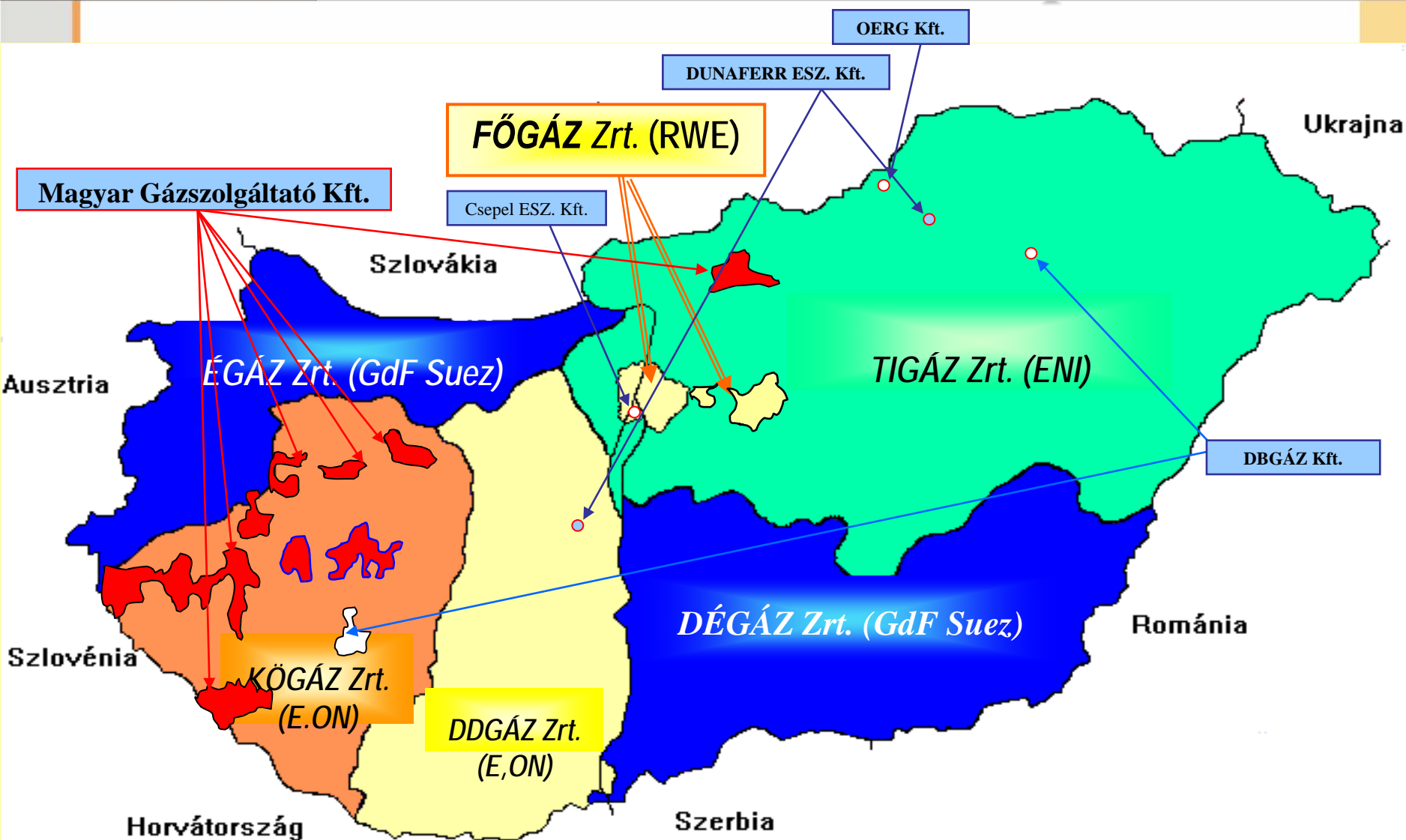
Settlements Connected: 92.3 %



Number of Settlements: 2917



Distribution Companies

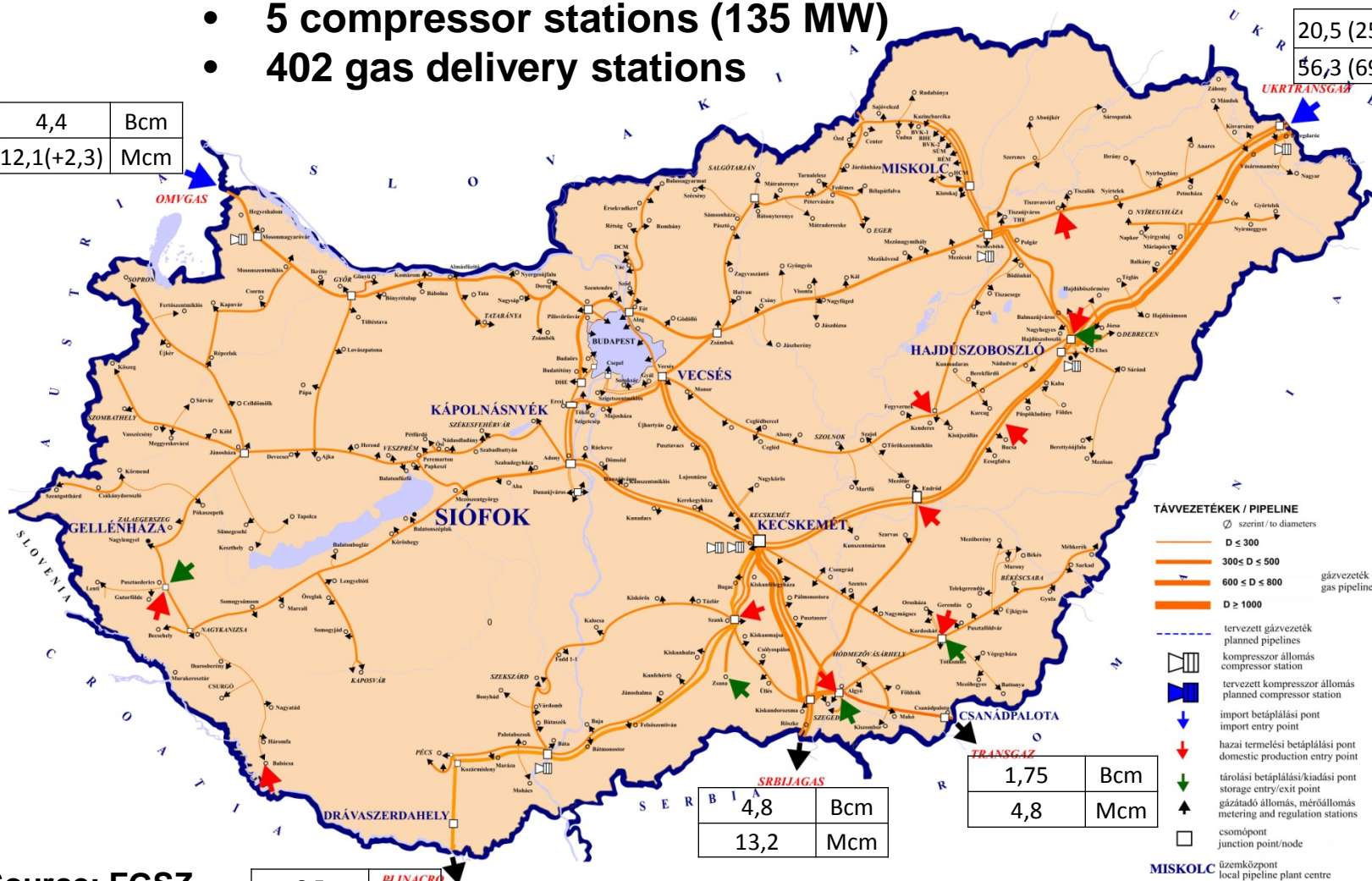


Existing transmission system

- Length: 5532 km
- 5 compressor stations (135 MW)
- 402 gas delivery stations

4,4	Bcm
12,1(+2,3)	Mcm

20,5 (25.3)	Bcm
56,3 (69.5)	Mcm



Source: FGSZ

6,5	Bcm
19,2	Mcm

4,8	Bcm
13,2	Mcm

1,75	Bcm
4,8	Mcm

Interconnection capacities

- **HAG (western import)** **12.1 Million m³/day (4.42 Bcm/year)**
- **Brotherhood (Russian import)** **56.3 Million m³/day (20.5 Bcm/year)**
+ 12 Million m³/day is booked for transit (4.38 Bcm/year)
to Serbia and Bosnia- Hercegovina
- **Romanian Interconnector (operated since July 2010)**
4.8 Million m³/day (1.75 Bcm/year)
→ 12.0 Million m³/day (4.4 Bcm/year)
Export in 2012: 453 Million m³
- **Croatian Interconnector (operated since March 2011)**
19.1 Million m³/ day (6.5 Bcm/year)
Export in 2012: 64 Million m³
- **Slovakian Interconnector (project just started)**
6 Million m³/ day (2.2 Bcm/year)
→ 14.4 Million m³/day (5.3 Bcm/year)

Strategic Storage

In accordance with the Act 26 of 2006 on the **Security Storage of Natural Gas**:

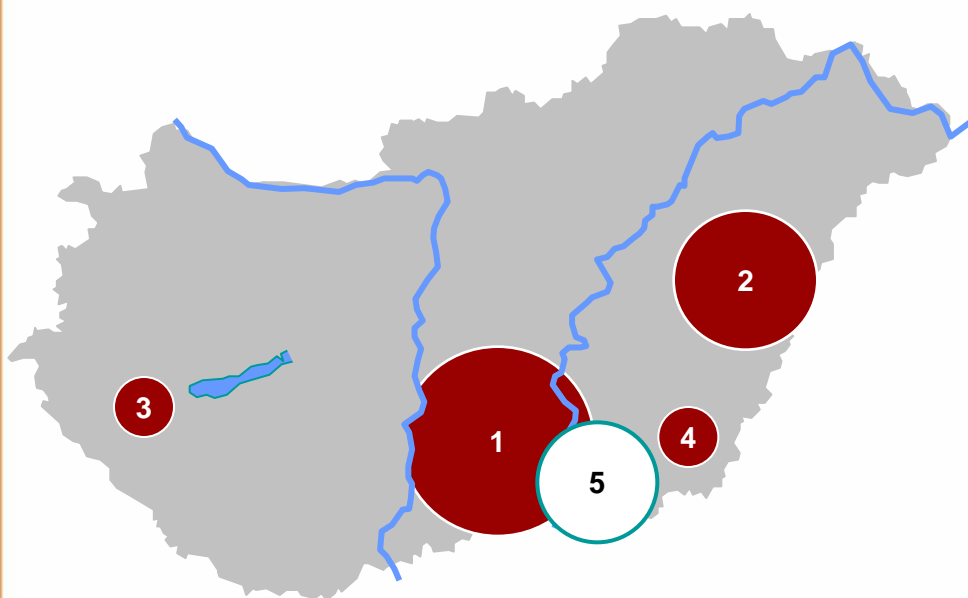
- A new strategic storage facility had been constructed until 1 January 2010 (Algyó gas-field, at the Szőreg-I layer in Southern Hungary)
- Working gas capacity: **1.2 Billion m³**
- Withdrawal capacity: **20 Million m³/d** (for min. 45 days)
- For the exclusive supply of household and communal consumers

In the same facility MOL had got a license and made a development for commercial storage with

- Working gas capacity: **700 Million m³**
- Withdrawal capacity: **5.0 Million m³/d**

Storage Capacities

Storage Capacities



● E.ON commercial storage units

○ Strategic (Security) storage unit

Storage Unit	Working gas capacities [MMm ³]	Peak withdrawal capacities [MMm ³ /d]
1 Zsana	2 170	28.0
2 Hajdúszoboszló	1 440	20.8
3 Puszttaederics	340	3.1
4 Kardoskút	280	3.2
5 Strategic UGS Szőreg-I.	1 200	20.0
Szőreg-I. commercial	700	5.0

TOTAL 6130 80.1

Total injection capacity: 45.9 MMm³/day

Total Capacities of the Gas Network [MMm³/day]

Domestic Production	10.5
IMPORT Western (HAG)	12.1
IMPORT Eastern (Brotherhood)	56.3
Romanian interconnector	4.8
Croatian interconnector	19.1
STORAGE	80.1
- Commercial UGS	60.1
- Strategic UGS	20.0
TOTAL	182.9*



* Enough to cover winter daily consumption down to -17 °C daily average temperature (no need to interrupt)

Thank you for your kind attention!

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