

Natural Gas Market in Hungary 2008

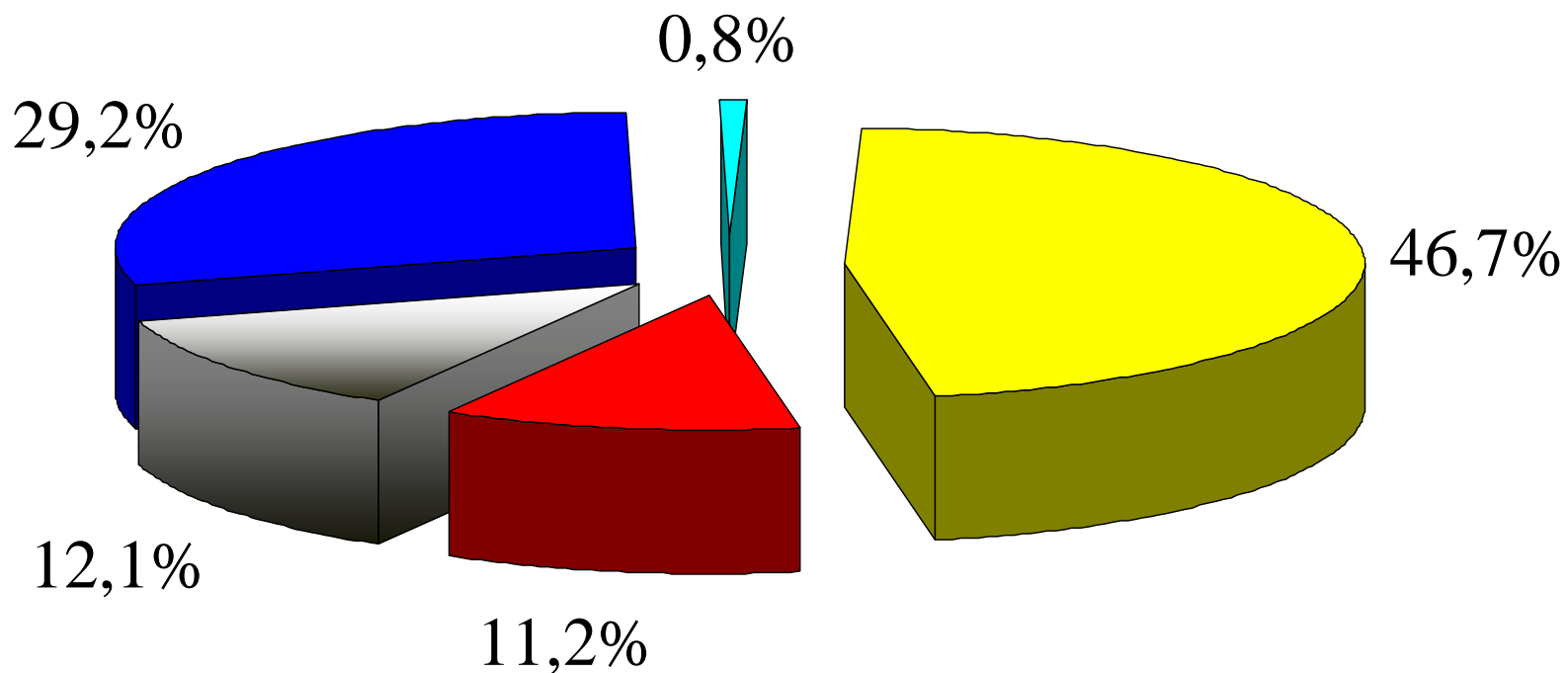


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Senior Leading Advisor

HUNGARIAN ENERGY OFFICE

Role of Natural Gas in Hungary

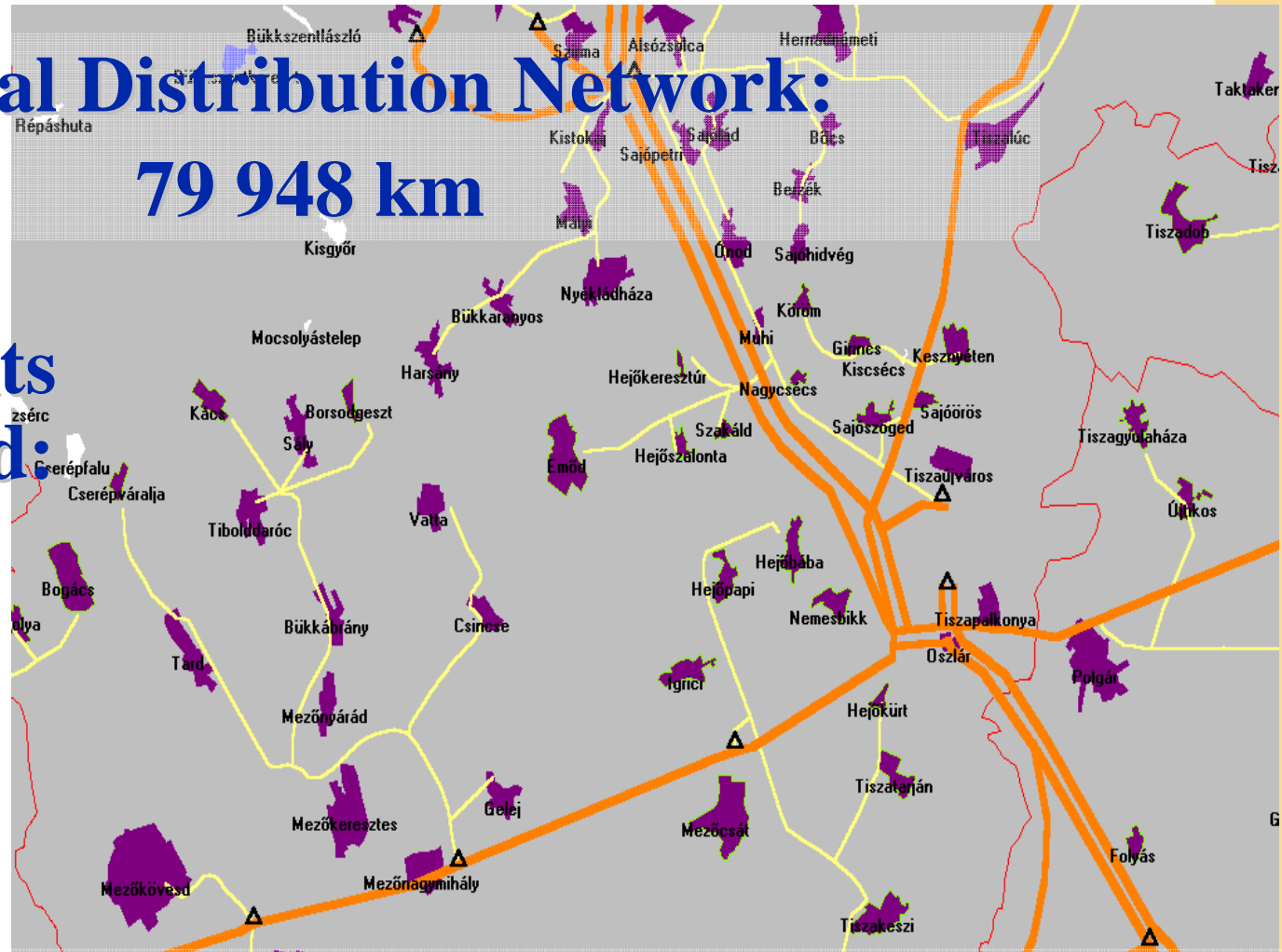


■ solid ■ crude oil and products ■ LPG ■ natural gas ■ primary electricity

Gas Distribution

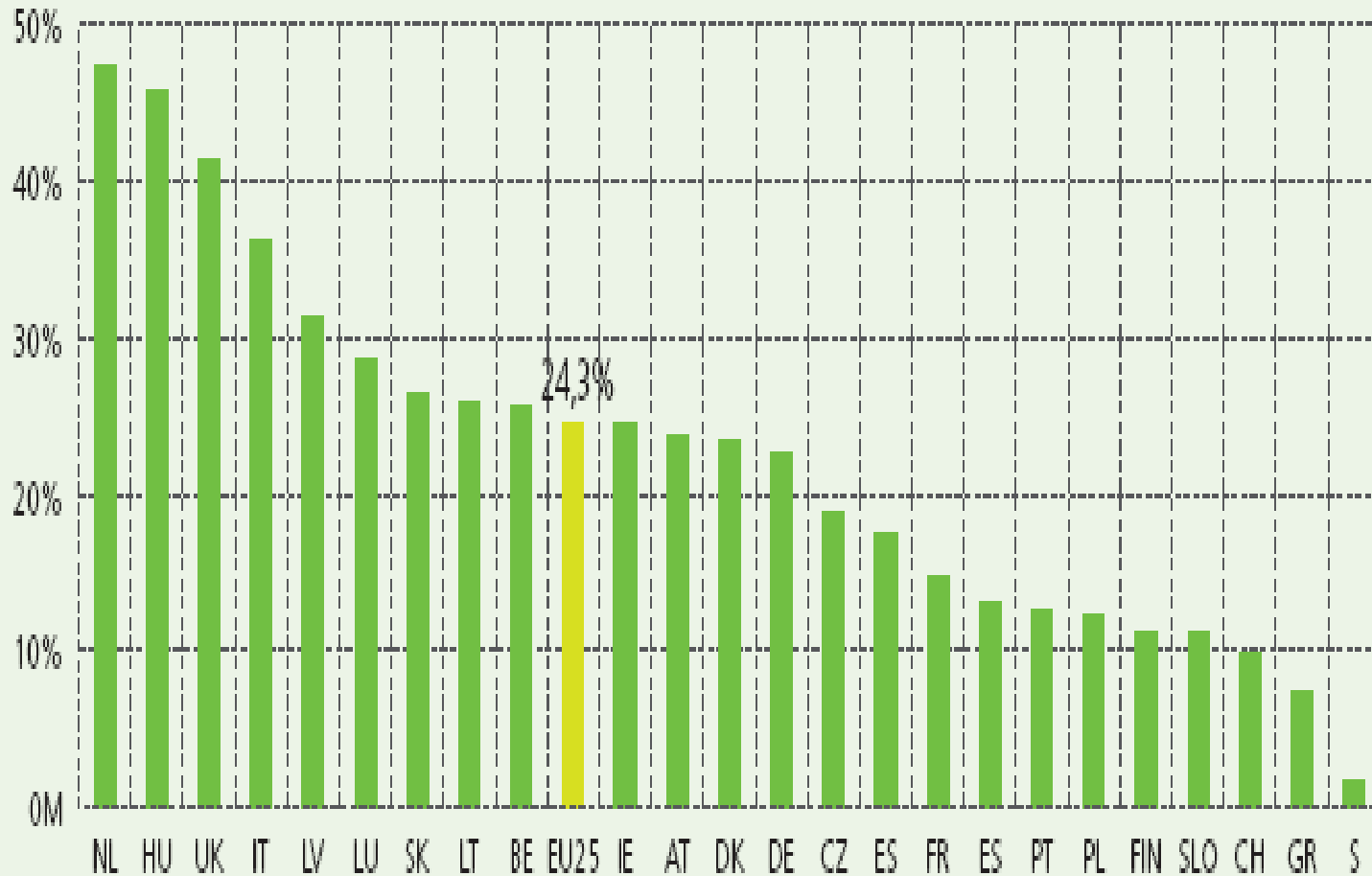
**National Distribution Network:
79 948 km**

**Settlements
Connected:
91,4 %**



Number of Settlements: 2882

Dependency on Gas in EU





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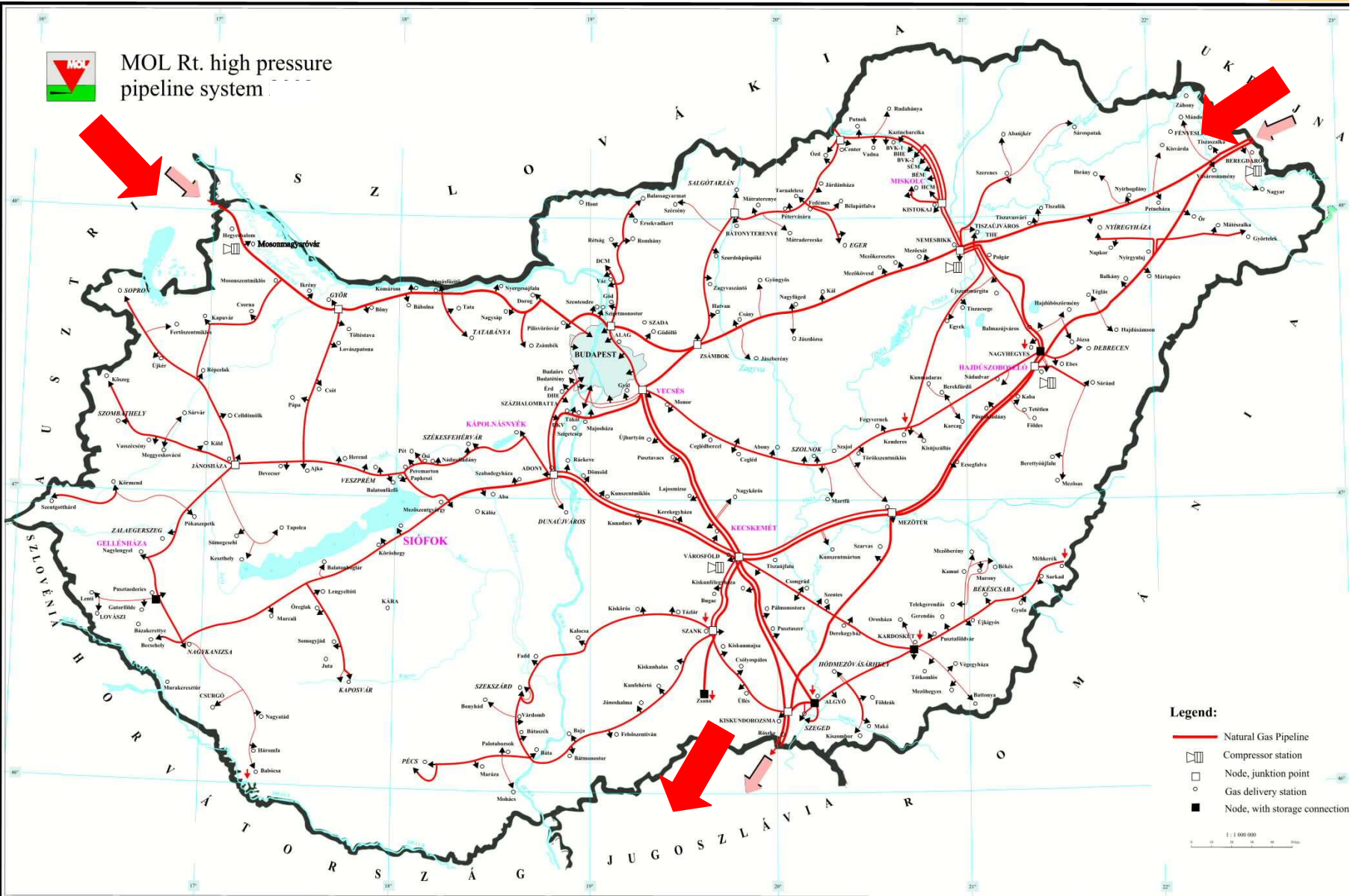
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Gas Transmission System

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MOL Rt. high pressure pipeline system



Legend:

- Natural Gas Pipeline
- Compressor station
- Node, junction point
- Gas delivery station
- Node, with storage connection

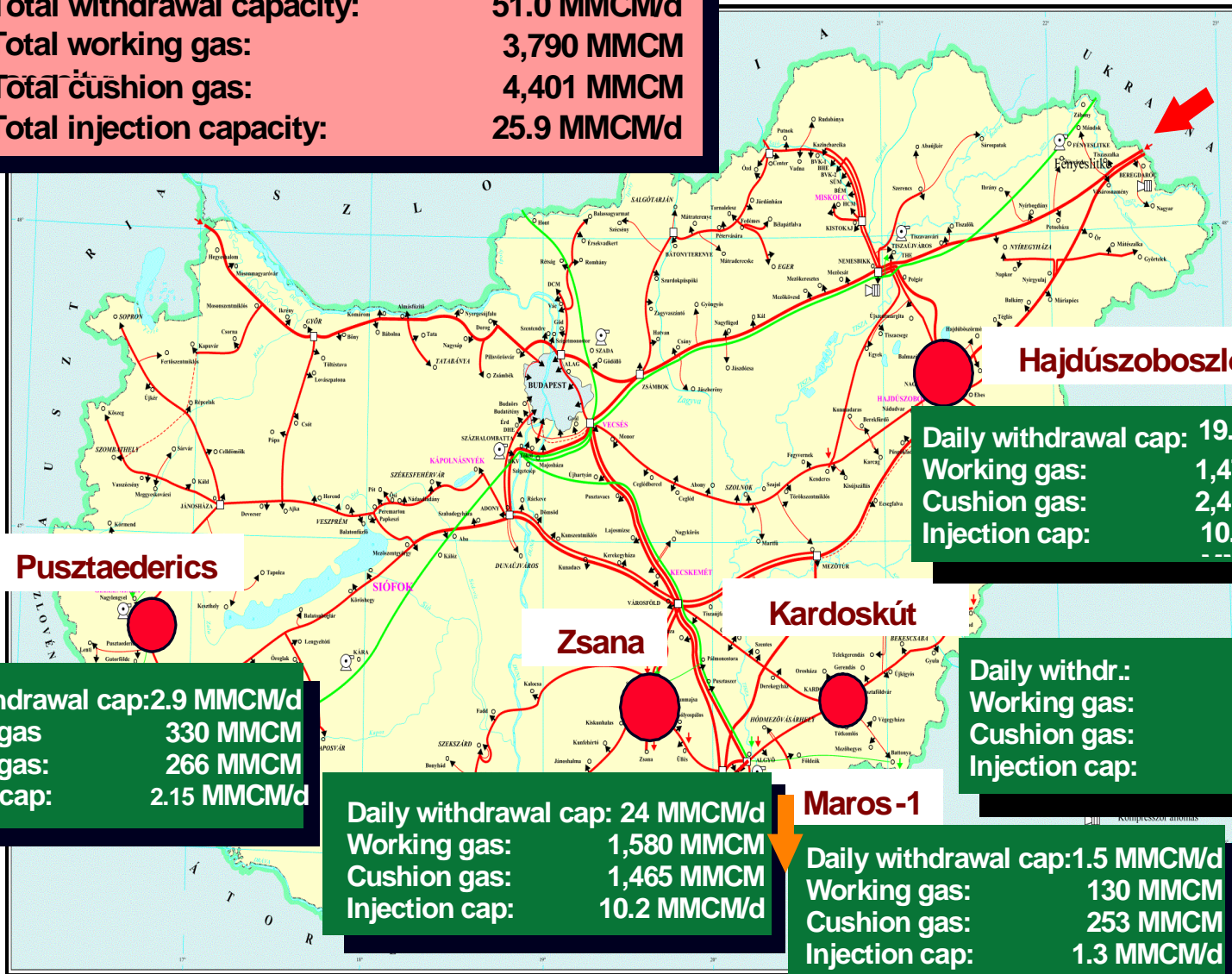
1 : 1 000 000



Underground Gas Storage Units

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Total withdrawal capacity: 51.0 MMCM/d
Total working gas: 3,790 MMCM
Total cushion gas: 4,401 MMCM
Total injection capacity: 25.9 MMCM/d



Hajdúszoboszló

Daily withdrawal cap: 19.7 MMCM/d
Working gas: 1,470 MMCM
Cushion gas: 2,410 MMCM
Injection cap: 10.3 MMCM/d

Pusztaderics

Daily withdrawal cap: 2.9 MMCM/d
Working gas: 330 MMCM
Cushion gas: 266 MMCM
Injection cap: 2.15 MMCM/d

Zsana

Daily withdrawal cap: 24 MMCM/d
Working gas: 1,580 MMCM
Cushion gas: 1,465 MMCM
Injection cap: 10.2 MMCM/d

Kardoskút

Daily withdr.: 2.9 MMCM/d
Working gas: 280 MMCM
Cushion gas: 260 MMCM
Injection cap: 2.9 MMCM/d

Maros-1

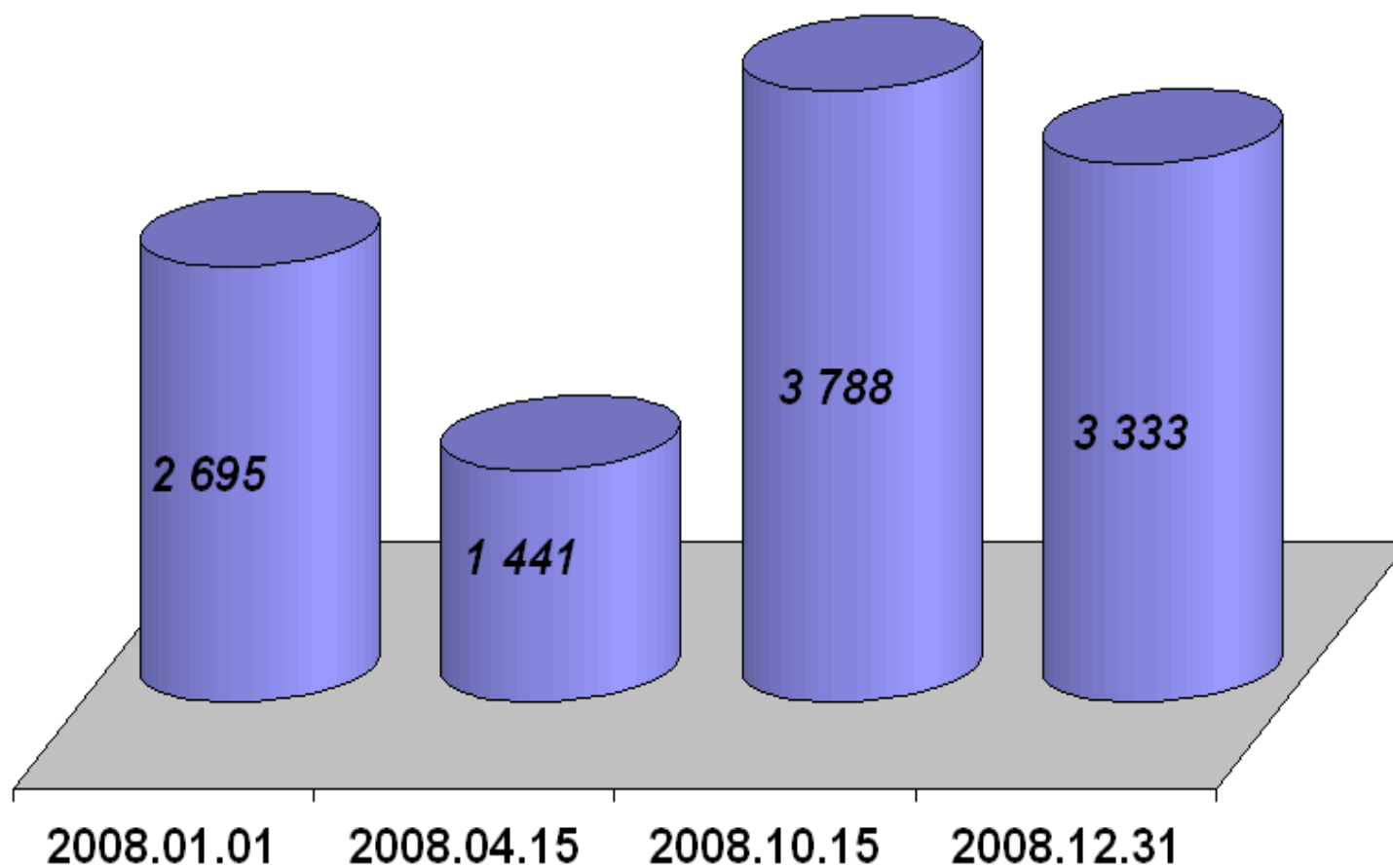
Daily withdrawal cap: 1.5 MMCM/d
Working gas: 130 MMCM
Cushion gas: 253 MMCM
Injection cap: 1.3 MMCM/d

Development in Gas Storage

Total UGS Capacities		2006	2008
Working gas capacity	BCM	3.5	3.79
Max. withdrawal capacity	MMcm/d	47,5	51.0

Working volume in UGS 2008

MMCM



Strategic Storage

Act 26 of 2006 on the security storage of natural gas

- Construction of a new strategic storage facility until 1 January 2010**
- Working gas capacity: 1.2 billion m³**
- Withdrawal capacity: 20 million m³/d (for 45 days)**
- Until 31 December 2009 present UGS spare capacities cannot be less than**
 - a) 150 million m³ from 1 October 2006 to 30 September 2007,**
 - b) 300 million m³ from 1 October 2007 to 31 December 2009.**

Strategic Storage

- **Possible replace with fuel oil**
- **Tender awarded to MOL Plc.**
- **Construction started in 2007**
- **Algyő gas-field, at the Szőreg-I layer in Southern Hungary**
- **48 new wells**
- **300 Million m³ is already injected**

Total Capacities of the Gas Network

[MMm³/day]

Domestic production	10,5
IMPORT HAG	12,1
Source: Western	3
Russian	6
IMPORT BEREKSZÁSZ	30
Source: Russian	25
other	5
UGS	51
TOTAL	103,1*



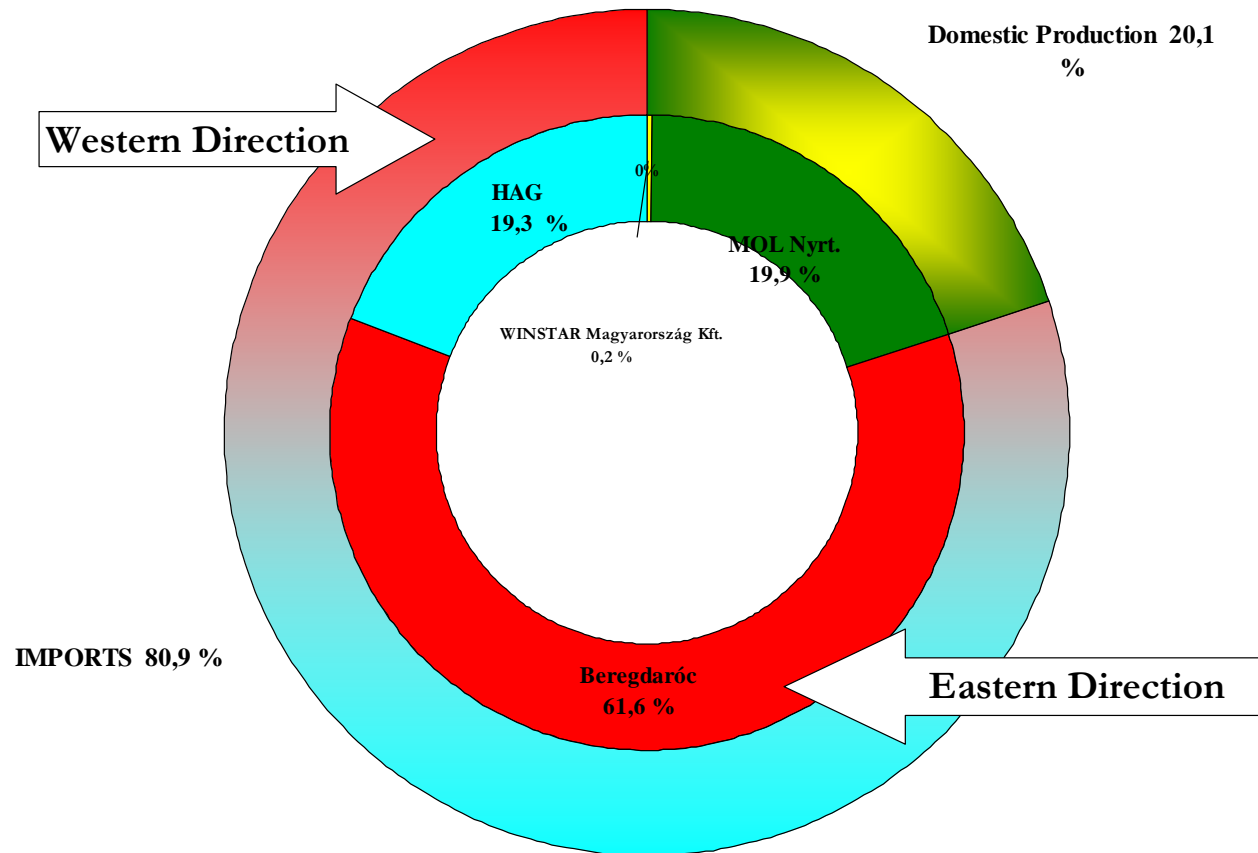
* Enough to cover winter daily consumption down to -15 °C daily average temperature (no need to interrupt)

Natural Gas Supply 2008


	BCM
Sources of Hungarian Supply	14.011
Domestic Production:	2.608
Imports (diversified):	11.403
Eastern Direction:	9.418
Western Direction :	1.985

Structure Of Gas Sources 2008

STRUCTURE OF SOURCES



Development of Gas Market

Year ends 	2004	2005	2006	2007	2008
Legal market opening %	67	67	67	100	100
Licensed Traders pcs	10	14	15	21	25
Eligible Customers registered pcs	23	52	200	786	3938
Share of free market %	6	9.6	9.7	20.6	29.8



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Thank you for your kind attention!

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