

## Contibution of the US in solving the supply security issues

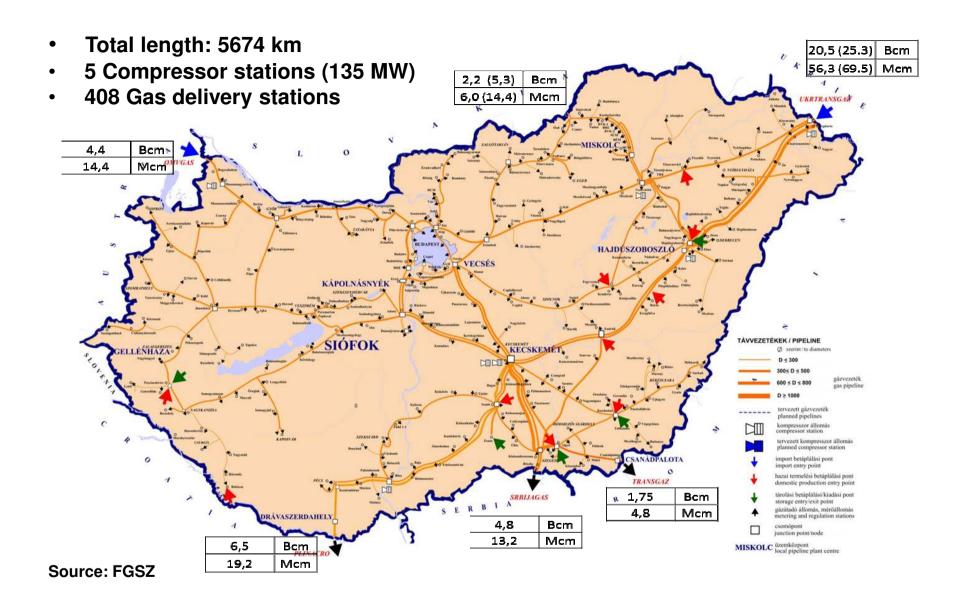
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SECURITY OF SUPPLY • AFFORDABILITY • QUALITY OF LIFE

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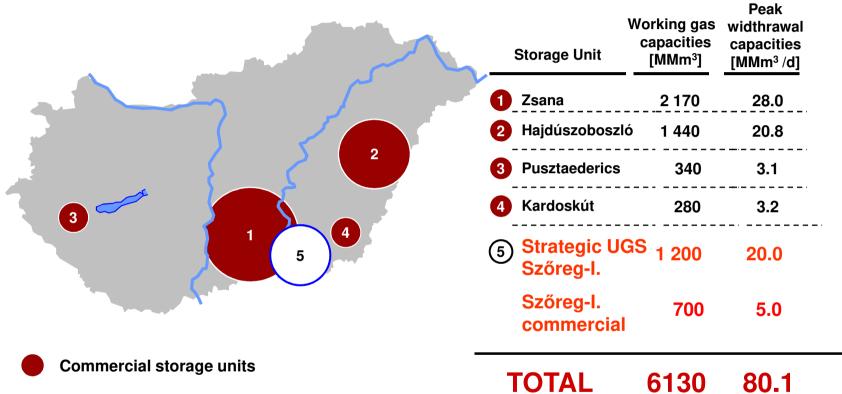
- Hungarian transmission, distribution system and storages
- Consumption
- The price regulation, Legal framework
- Tariff calculation
- Safety storage
- Obligatory storage







### **Storage Capacities**



Strategic (Security) storage unit

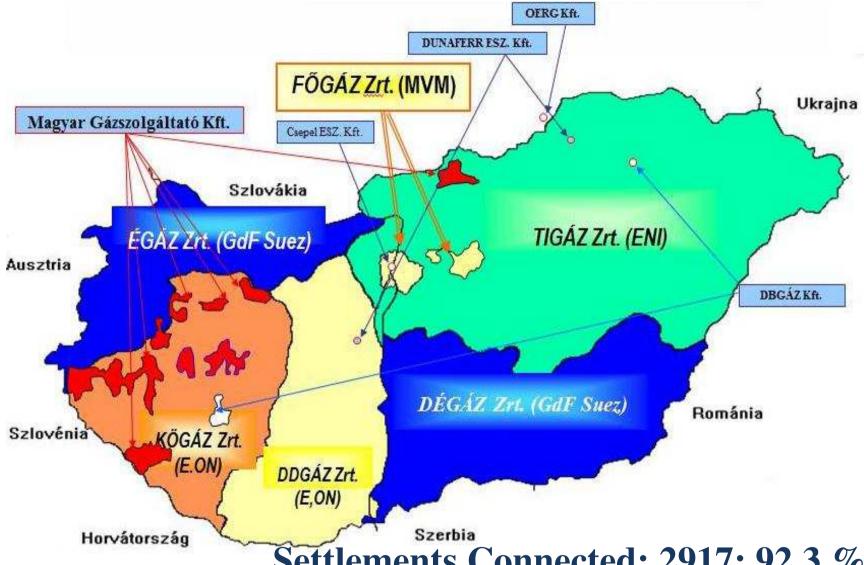
6130

Total injection capacity: 45.9 MMm<sup>3</sup>/day

Source: HEA



### Natural gas distributors

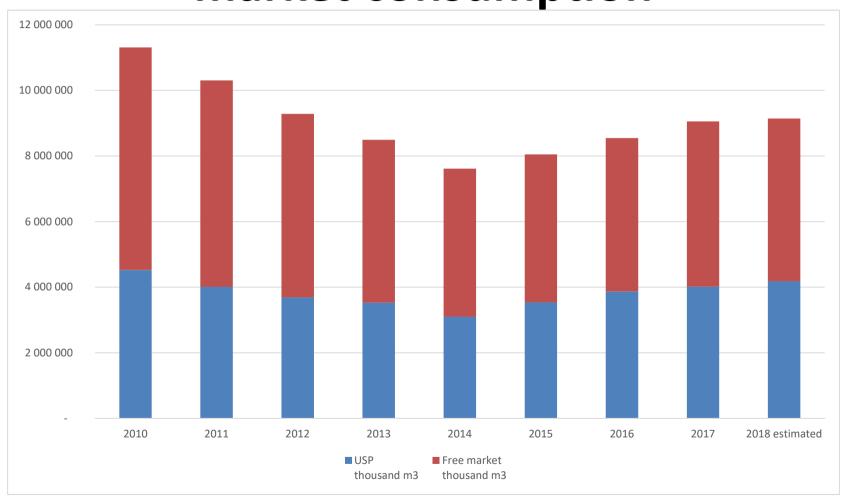


Settlements Connected: 2917; 92.3 %

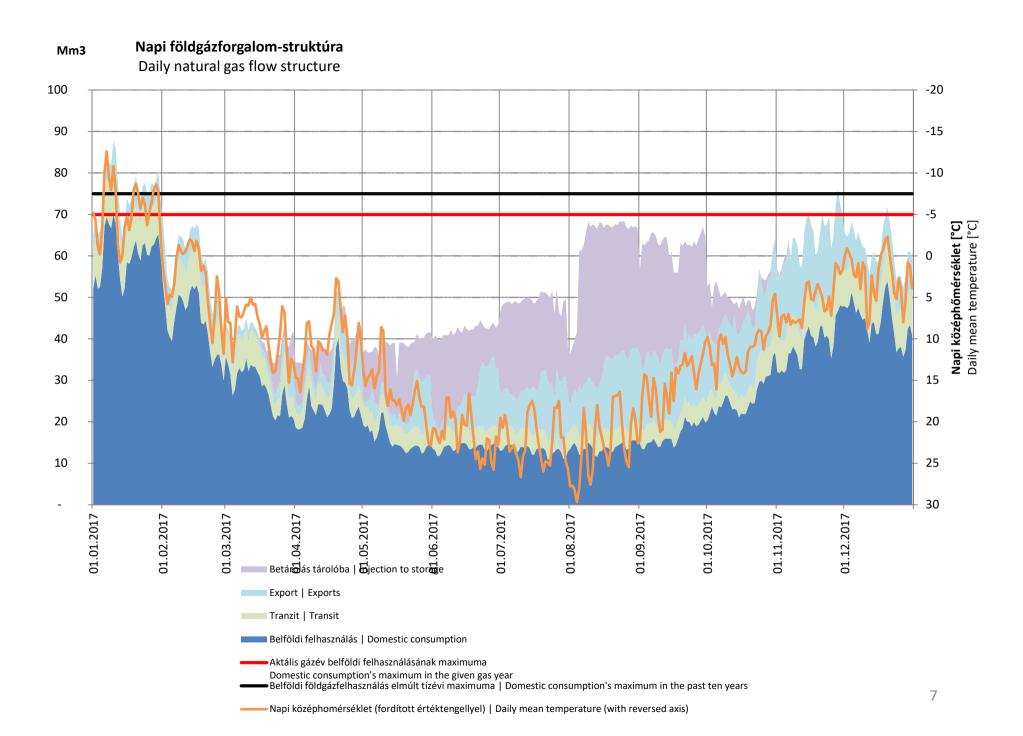
Distributor system length: 85896 km security of supply affordability quality of life



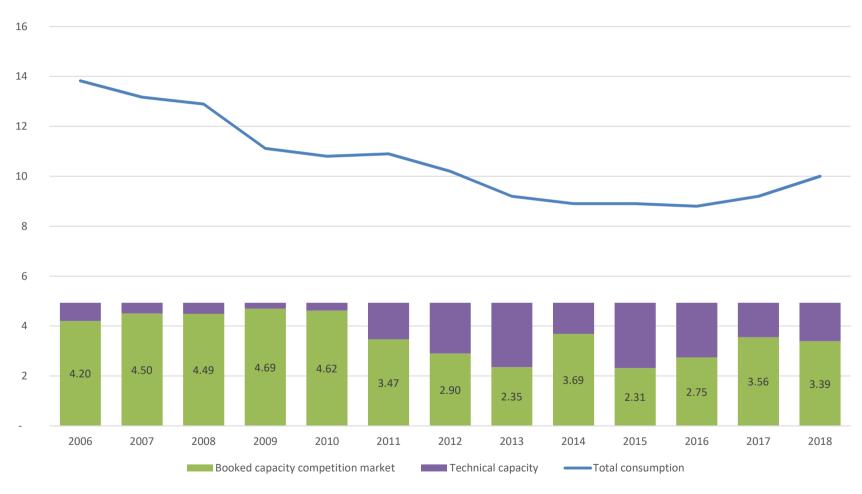
## The share of the USP and the free market consumption





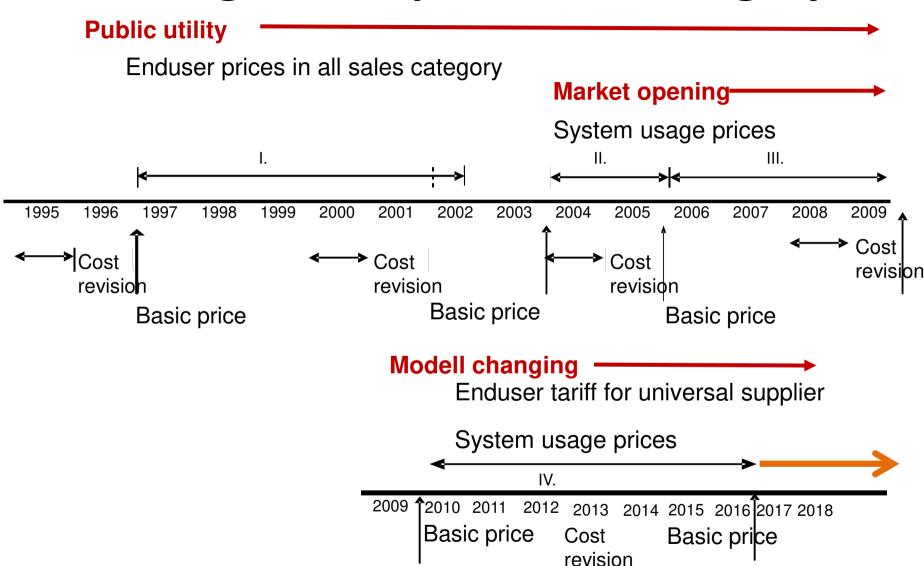


## Consumption and the commercial storage booked capacities





### Price regulation periods in Hungary





### **Legal Framework**

#### **Regulated prices**

Gas

- transmission, distribution and storage
- natural gas trade between the wholesaler and the universal supplier,
- End user price for universal supply (households, small consumers)
  - the cost of connection to the gas system
  - the cost of extra services that the consumers can ask for

#### Principle of price regulation

The regulated price shall include,

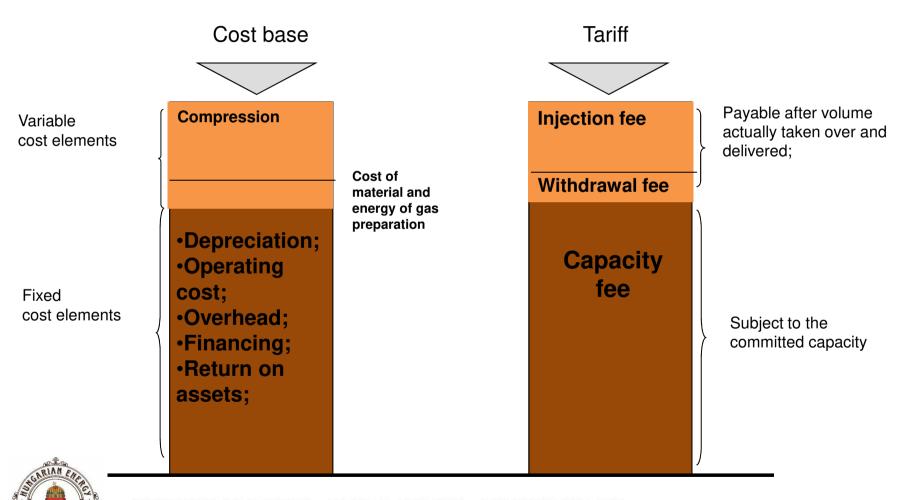
- the costs of the justified investments and
- the costs of the efficiently working licensees, as well as
- the **profit** necessary for long-term operation.

#### Who sets the tariffs

Tariffs and conditions of their application were set

- in a ministerial decree (on the basis of the recommendations of HEO) until 1st January 2012.
- From 1st January 2012 till 1st January 2013 **HEO sets the system usage tariffs in resolutions**
- From 1st January 2013 **HEO (HEA) sets the system usage tariffs in a Presidential decree**

## Relation between cost base and tariff in the case of storage



## Storage facility fee system

 The Storage facility capacity fee is calculated on the basis of the following formula :

$$TM = 0,1093 \times \left[ MAX \left( 1;133,33 \times \frac{B}{M};70,31 \times \frac{K}{M} \right) + \frac{133,33}{MIN \left( 133,33; \frac{M}{B} \right)} + \frac{70,31}{MIN \left( 70,31; \frac{M}{K} \right)} \right]$$

- TM: storage facility capacity fee (HUF/kWh/year)
- M: mobile tie up of the system user in the storage facility (kWh)
- B: the entry into storage capacity tie up the system user (kWh/day)
- K: the withdrawal from storage capacity tie up the system user (kWh/day)
- 133.33 is the number of days belonging to even entry into storage,
- 70.31 is the number of days belonging to even removal from storage,



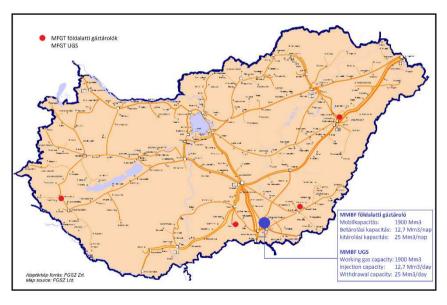


- Established in 1993 as Crude Oil and Oil Product Stockpiling Association
- 2006 Russian- Ukrainian Gas Crisis the scope of the association's activities are extended to include natural gas
- 2010 Commissioning of Underground Security Storage facility at Szőreg – HUSA holds a 48,99% ownership stake in the SSO

- Members (natural gas):
   Universal suppiers, Gas traders, Producers selling gas to end-users, End-users directly importing gas sources
- Duties: procurement of gas and oil stocks, the operation and commissioning of the necessary storage facilities
- Upkeep of HUSA and its security stocks is financed by membership contributions paid after unit of energy sold (e.g. in case of natural gas -292,13 Ft/MWh)
- Natural gas sold to households is exempt from the contribution since 2013







- Membership contributions are used to finance natural gas security stocks
- Strategic storage capacities and stocks: 1200 million m<sup>3</sup>
- The use of the strategic stocks is authorized in case of a gas crisis by the minister responsible for energy affairs
- The strategic stocks are used mainly to supply households
- Strategic stocks are also used to supply end-users in case of a gas supplier unexpectedly ceasing its operations until a supplier of last resort is appointed



## **Obligatory storage**

"The Universal Service Provider shall ensure the continuous natural gas supply of its contracted customers eligible for universal services in its service area for at least

- the level of the winter period with the highest heating degree days in its service area in the preceding 120 months and,
- the level of consumption at the daily mean temperature of -12 °C.
- In order to guarantee the aformentioned supply security level, the USP shall dispose contracted or optioned natural gas sources corresponding to the next gas year's consumption of its consumers by 31<sup>st</sup> of March every year. The USP shall dispose directly or indirectly of natural gas located in domestic storage by 1<sup>st</sup> October every year. The level of the stored natural gas stock must be at least 60% of the highest winter consumption in the service area in the last 120 months."



# THANK YOU FOR YOUR ATTENTION!

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Questions?

