

# *Current state and modernisation of Ukrainian GTS*

*Brussels, June 2012*





## Parameters of Gas Transmission System

Parameters	Units	Total
<b>Length of gas pipelines, total</b>		<b>38.7</b>
including: - gas mains	1000 km	22.2
- pipeline branches		16.5
<b>Throughput capacity of GTS:</b>		
- input	BCM/year	288
- output		178
including European countries		142
<b>Number of compressor stations (compressor shops)</b>	item	<b>72(110)</b>
<b>Number of gas compressor units</b>	item	<b>702</b>
<b>Capacity of compressor stations</b>	MW	<b>5442.9</b>
<b>Number of underground gas storage facilities (UGSF)</b>	item	<b>12</b>
<b>Total working volume of UGSF</b>	bcm	<b>30,9</b>
<b>Number of gas distribution stations (GDS)</b>	item	<b>1455</b>

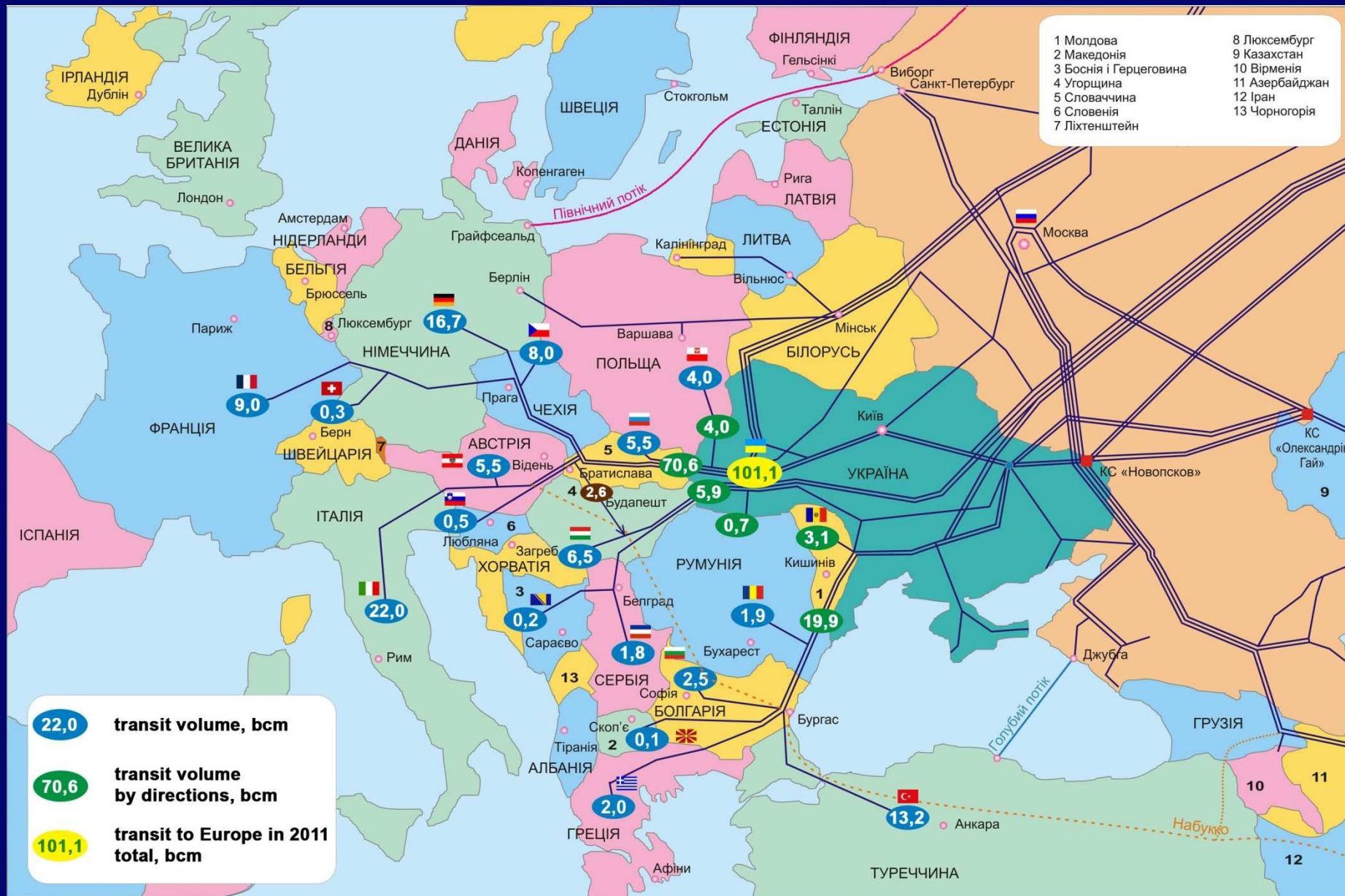


# Gas flows through Ukraine in 2009 – 2011 (Bcm)





# Role of Ukraine's GTS in European Gas Market





# Priority Modernisation Objects of Ukrainian GTS





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## Strategy of UGTS Modernisation and Reconstruction

### Purposes:

- Reliability increase
- Efficiency increase
- Gas transit routes profitability
- Reduction of environmental impact
- Reduction of gas delivery risk to European consumers via Ukraine

### Priority tasks:

- Maintenance of main transit pipelines and UGSF design parameters
- Implementation of up-to-day, environmentally effective technologies
- Implementation of up-to-day control methods of technical state
- On-line gas quantity and quality monitoring
- Alignment of UGTS with relevant European standards



## Basics of UGTS Priority Objects Modernisation and Reconstruction

Total investment expenditure required for modernisation and reconstruction of UGTS priority objects reached 5 313.9 USD Mio, including:

- |                                       |                 |
|---------------------------------------|-----------------|
| - Linear part                         | - 2 014 USD Mio |
| - Compressor stations                 | - 2 781 USD Mio |
| - Underground gas storage facilities  | - 455.3 USD Mio |
| - GMS at exit points of Ukrainian GTS | - 63.6 USD Mio  |

Modernisation and Reconstruction leads to:

- Gas pipelines design parameters maintenance
- Reliability growth in natural gas supply to domestic consumers
- Reduction of environmental impact
- Reduction of fuel gas volume

Calculation of initial expenses shows economical preeminence and benefits



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# Modernisation and Reconstruction of Urengoy-Pomary-Uzhgorod Gas Pipeline (1<sup>st</sup> stage)

- 1<sup>st</sup> stage of reconstruction:**
- deadline – 3 years
  - reconstruction of linear part (isolation replacement and pipeline relaying)
  - modernisation of telematics and communication systems
  - modernisation of two CS

**INVESTMENT COST – 538.9 USD Mio, including:**

- own funds – 230.3
- loan funds – 308.6



<i>Reconstruction of linear part</i>	<i>USD Mio</i>	<b>410.2</b>
<i>Reconstruction of CS</i>	<i>USD Mio</i>	<b>128.7</b>
<b>TOTAL</b>	<i>USD Mio</i>	<b>538.9</b>



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# Ukraine's Gas Supply Diversification Prospects

