

12:15-14:00 Session V: SE Europe's Expanding Natural Gas Market-Challenges and Opportunities





European Gas Pipeline System





 Unlike the situation in the western European countries, there is no extensive highpressure gas pipeline network in the Balkan Peninsula



Balkan Gas Pipeline System





- Interconnections between the countries are poor (mostly unidirectional) or even nonexistent
- The Republic of Serbia has one entry point (Hungary) and one exit point (Bosnia and
- 3 Herzegovina)

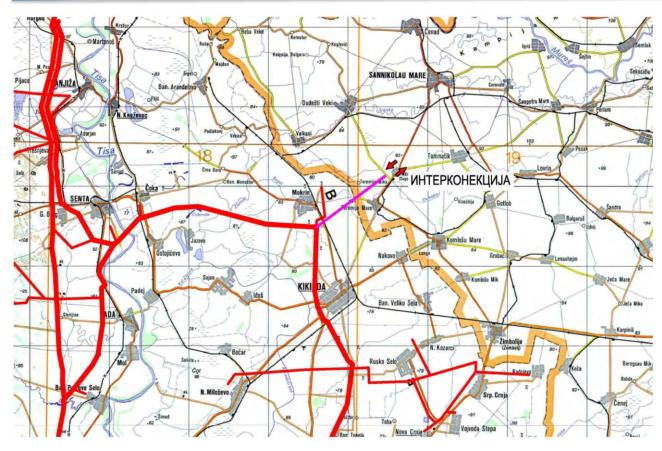
Interconnection with Croatia (Futog – Sotin)



- Technical data:
- Total length through Serbia is 58 km
- Diameter DN600
- Capacity 1,5 bcm
- Estimated value of the section through Serbia EUR 37,8 mio
- Potential connection to the LNG terminal Krk and Italy (Algerian gas)
- Potential connection to the Baumgarten Gas Hub
- Small capacity of the Croatian system



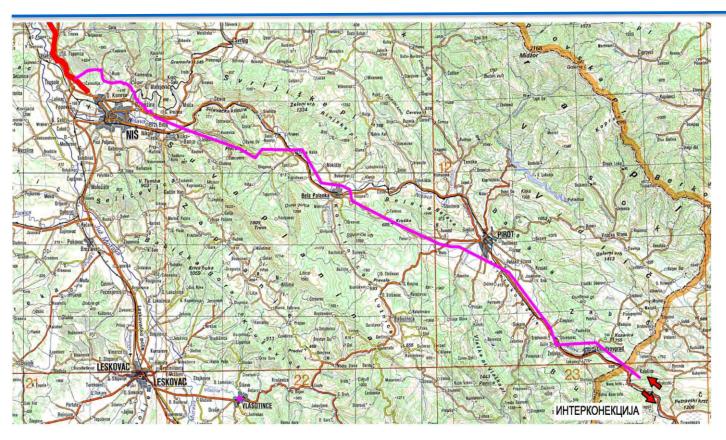
Interconnection with Romania (Mokrin - Arad)



- Technical data:
- Total length through Serbia is 6 km
- Total length through Romania74 km
- Diameter DN500
- Capacity 1 bcm
- Estimated value of the section through Serbia EUR 6 mio



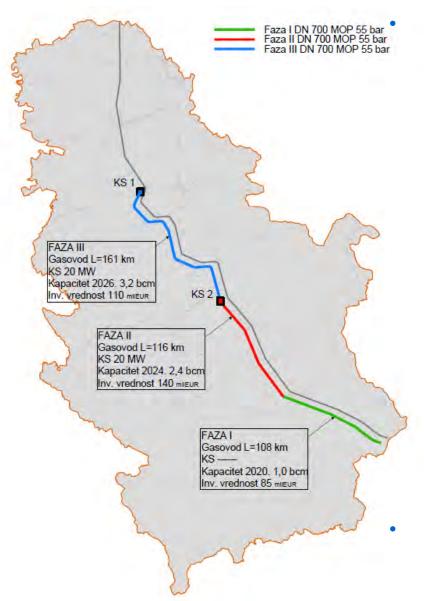
Interconnection with Bulgaria (Niš – Sofia)



- Technical data:
- Total length through Serbia is 108 km
- Total length through Bulgaria 63 km
- Diameter DN700
- Capacity 1,8 3.3 bcm
- Estimated value of the section through Serbia about EUR 85 (293) mio
- Preparation of the Spatial Plan for Special Purpose Zone is in progress



Interconnection with Bulgaria (Niš – Sofia) Stages 2 and 3



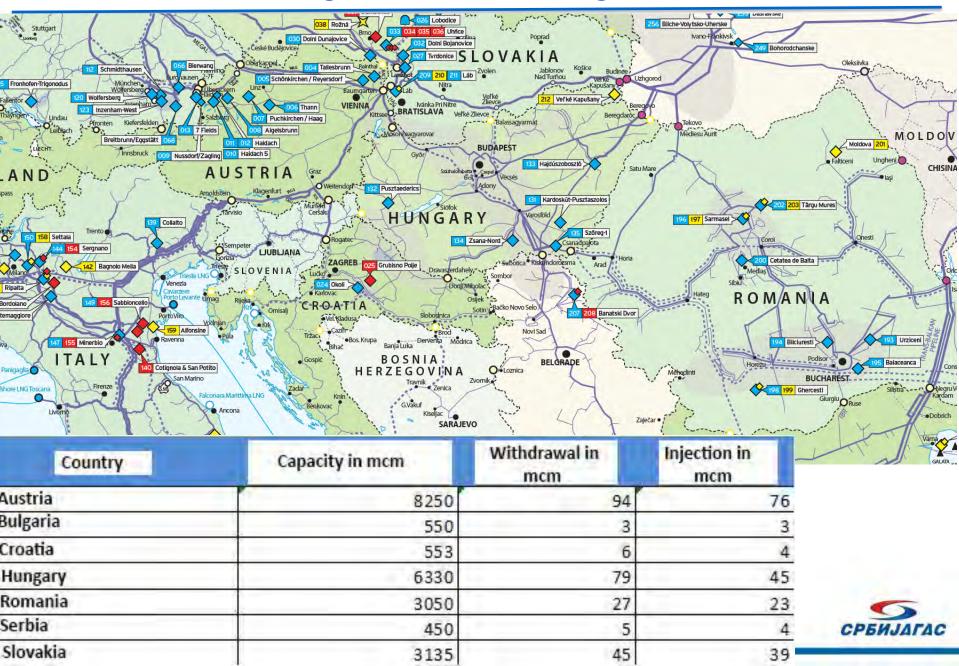
Necessary development of the transmission system in order to reach its full capacity:

- Stage 2
 - Pipeline V.Orašje-Niš in the length of 161 km
 - CS Batajnica power level 20MW
 - Estimated value of the stage 2 is EUR 115,7 mio
 - Capacity after completion of the stage 2 is 1,6 bcm from Serbia to Bulgaria and 1,8 bcm from Bulgaria to Serbia
- Stage 3
 - Pipeline Batajnica-V.Orašje in the length of 116 km
 - CS Batocina power level 20MW
 - Estimated value of the stage 3 is EUR 91,7 mio
 - Capacity after completion of the stage 3 is 2,7 bcm from Serbia to Bulgaria and 3,2 bcm from Bulgaria to Serbia

Total funding required for the development of the transmission system amouts to EUR 208 mio



Storage Facilities in the Region – 2016



Potential Storage Facilities

Current status UGS Banatski Dvor

- * Withdrawal 5 mio m3/day
- * Injection 2,9 mcm/day
- * Capacity 450 mcm

Stage 2 **UGS Banatski Dvor**

- * Withdrawal up to 10 mio m3/day
- * Injection up to 5 mio m3/day
 - * Capacity up to 1 bcm
 - * Investment value EUR 65 mio

Stage 1 UGS Itebej

- * Current gas production by NIS Gazprom njeft from the field G3 (not water-driven)
- * Injection 3 mcm/day
- * Withdrawal up to 5 mcm/day
- * Capacity up to 500 mcm (total can be up to 1 bcm)
- * Total investment in stage 1 UGS up to EUR 70 mio

UGS Tilva

- * Depleted gas field in the vicinity of Pancevo used by NIS
- * Peak supply of large consumers in Pancevo and Belgrade
- * Drowned gas field
- * Possible capacity 200-500 mcm
- * Withdrawal up to 5 mcm/day
- * Total investment: including construction of the bidirectional gas pipeline cca EUR 55 mio including required quantities of cushion gas of 150 mcm EUR 90 mio

Gas pipeline UGS B.Dvor – UGS Itebej – Pancevo – Beograd

- * Connecting gas storage facilities with the largest gas consumers
- * Optimization of the gas pipeline system and storage facility operation
- * Gas pipeline capacity up to 13 mcm
- * Investment value EUR 55 mio



Thank you for your attention

