THE BULGARIAN NATURAL GAS SECTOR AND NEW GAS INFRASTRUCTURE

Rosen Simitchiev Independent Energy Expert

4th South East Europe Energy Dialogue ,June 3-4, 2010, Thessaloniki, Greece



BEGINNING OF NATURAL GAS ACTIVITIES IN BULGARIA



- ➤ 1963 Start up of natural gas use in Bulgaria
- ➤ 1974 Start up of gas transmission and supply in Bulgaria
- **▶1987 Start up of gas transit to neighboring countries**

MAIN DRIVERS IN BULGARIAN GAS SECTOR

Bulgarian Gas Transmission Network (Includes National and Transit Networks)

- High pressure gas pipelines > 2 700 km
- Compressor stations 9 (installed capacity – 264 MW)
- National Gas Transmission Network with length of >1 700 km (3 compressor stations with total capacity 49 MW)
- > Capacity of the national gas transportation network ~7 bcm/year
- Transit gas network with length 945 km (6 compressor stations with total capacity 214 MW)
- Contracted capacity of the transit gas pipelines – 17.8 bcm/year, however the overall capacity is slightly bigger.

Natural Gas Volumes:

- **▶Indigenous production: 2008 -** 0.22 bcm (6.5%) 2009 - 0.02 bcm
- > Consumption: 2008 3.4 bcm; 2009 -2.5 bcm
- ➤ Gas import dependence: 2008 93.5 % 2009 - 99 %
- **≻Transit:** 2008 16.7 bcm; 2009 12.3 bcm

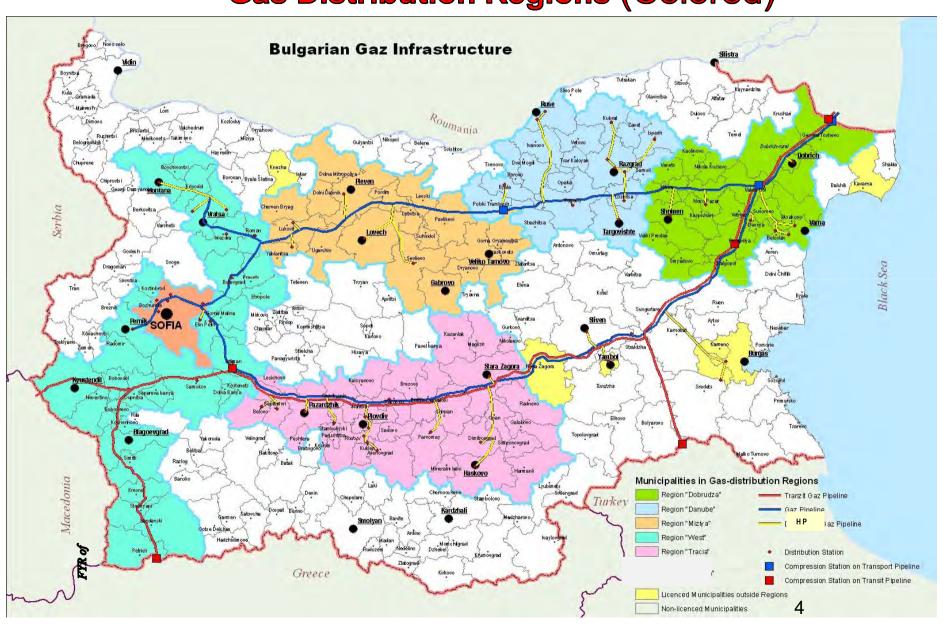
Energy Balance Share

- Gas in the energy mix: 11% (2007)
 Gas in the mix of electricity production: 4 % (2007)
- Gas in the mix of heat production: 49.9 % (2007)
- Gas in the mix of electricity and heat production: 10.5% (2007)

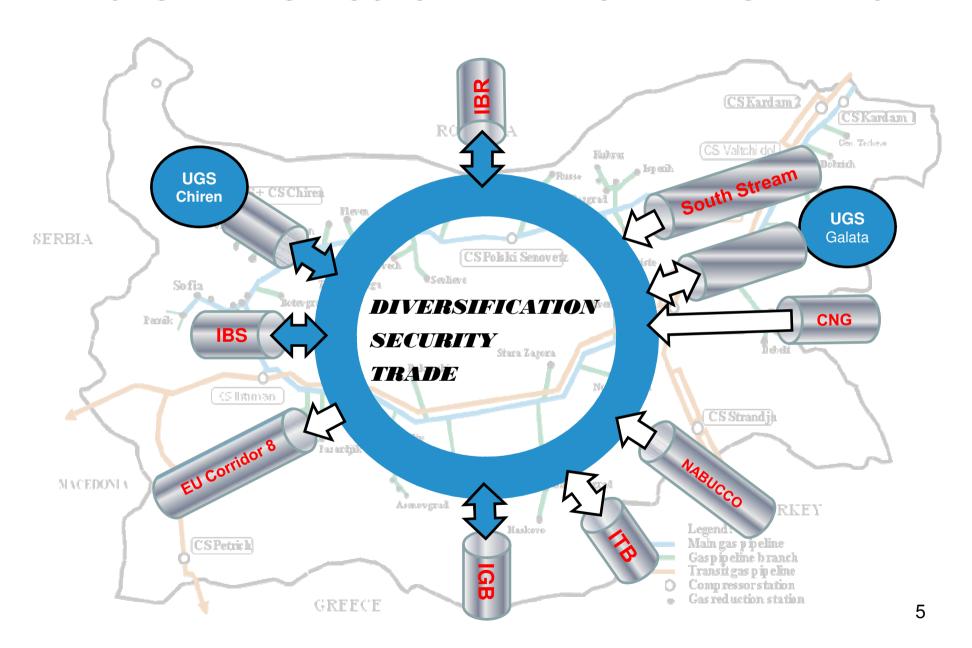
UGS "Chiren" (incl. compressor station with capacity 9 MW):

- ➤ Working gas capacity 0.65 bcm (planned to be increased to **0.85 bcm**)
- Max. daily withdrawal capacity 4.3 mcm (planned to be increased to 10 mcm/day).

BULGARIAN GAS TRANSMISSION NETWORK Gas Distribution Regions (Colored)

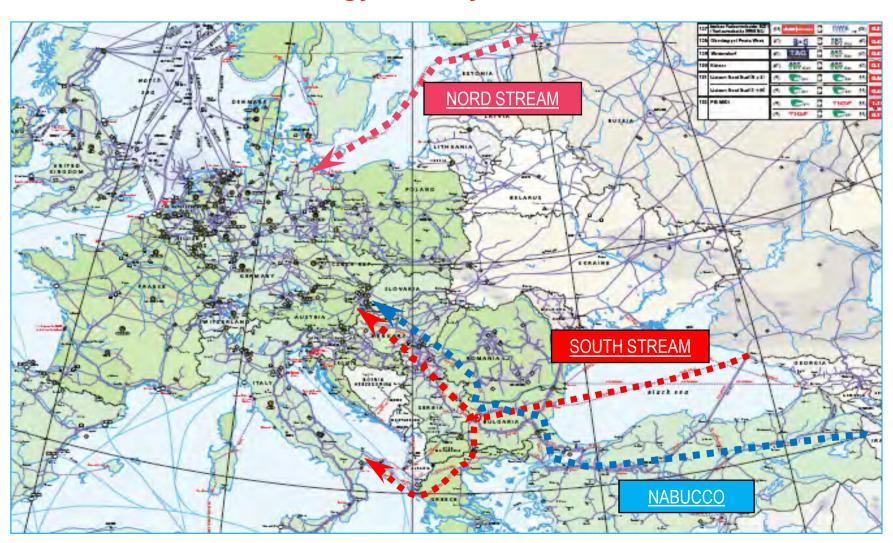


GAS INFRASTRUCTURE DEVELOPMENT STRATEGY



3 MAJOR NEW PIPELINE PROJECTS IN EUROPE

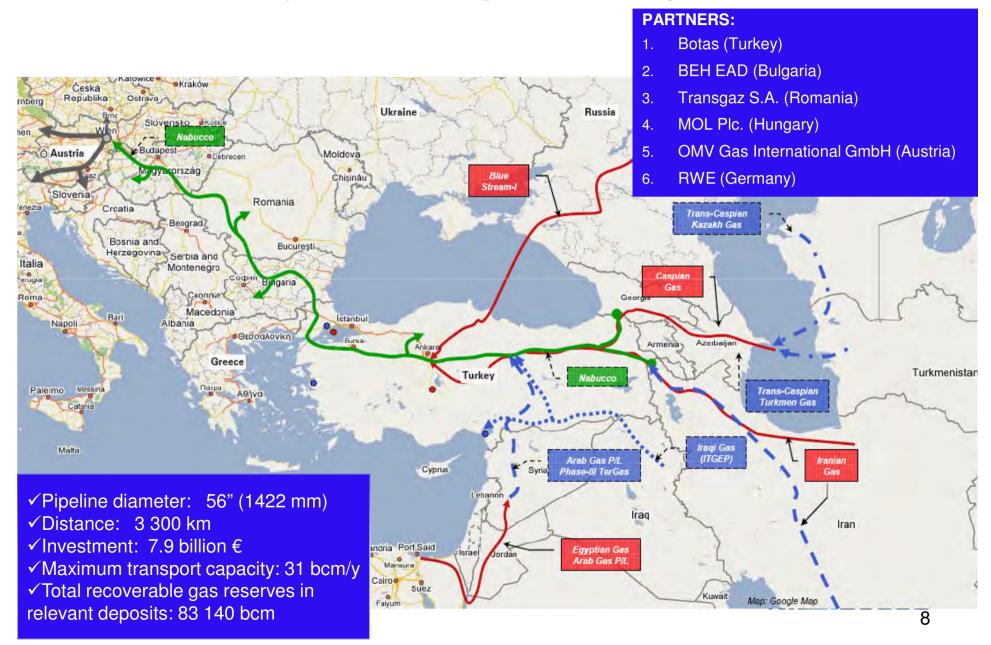
SEE and Black Sea Regions – Key Regions for the energy security of the EU



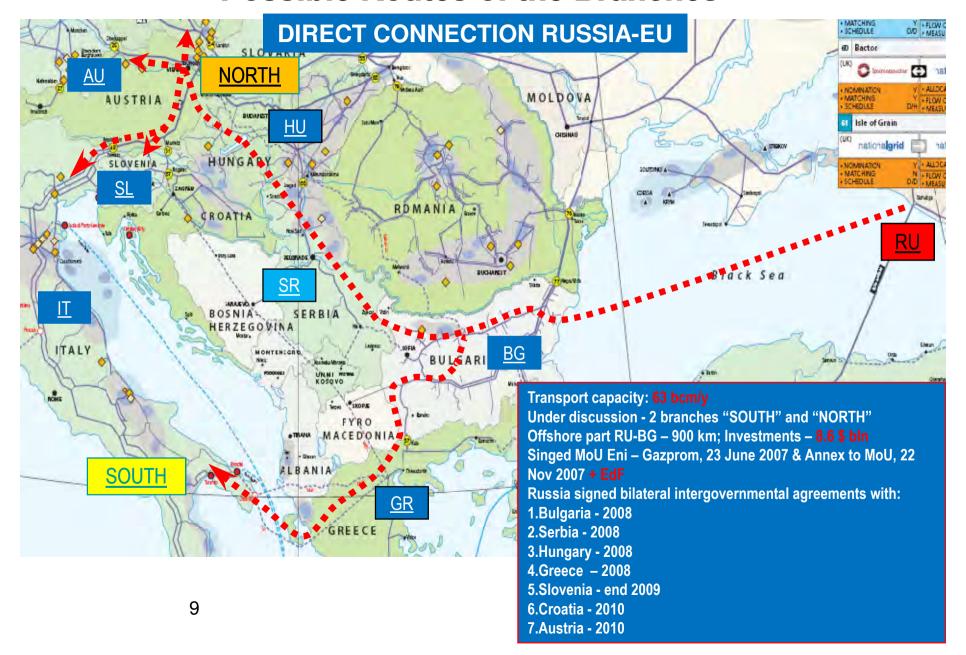
GAS PROJECTS FOR DIVERSIFICATION OF SOURCES & ROUTES

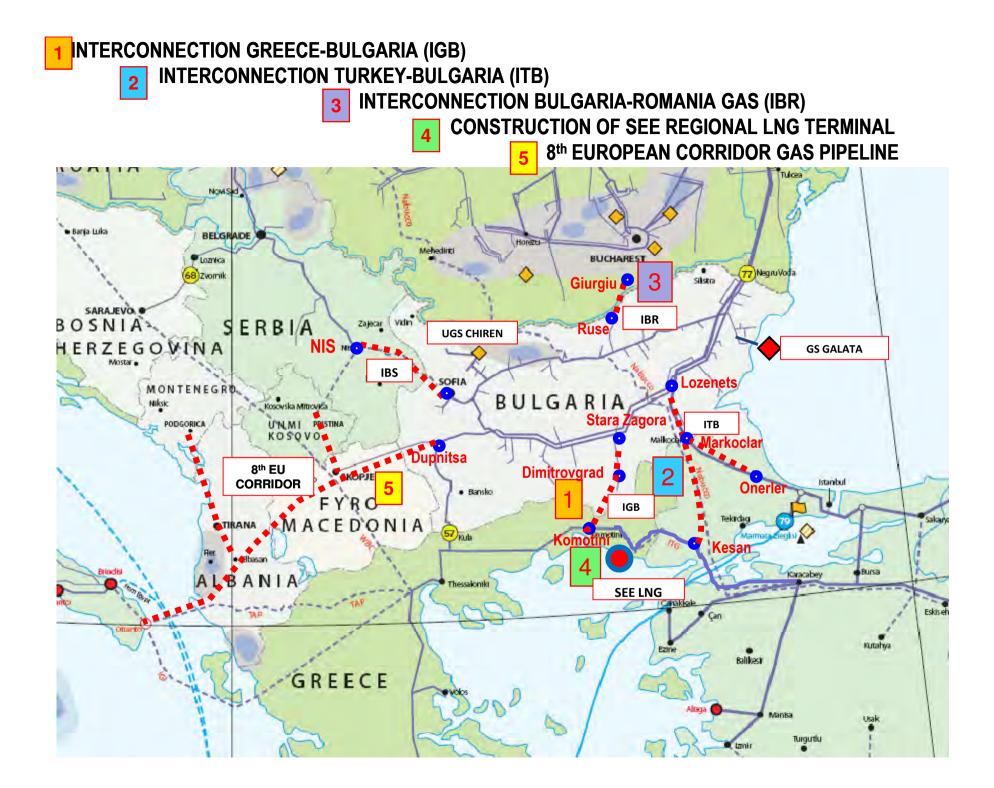
- 1. NABUCCO
- 2. South Stream
- Interconnection Greece Bulgaria IGB (Komotini GR– Dimitrovgrad BG - Stara Zagora BG);
- Interconnection Turkey Bulgaria ITB (Malkoclar TR -Lozenetz BG);
- 5. Interconnection Bulgaria Romania IBR (Russe-Giurgiu);
- 6. Interconnection Bulgaria Serbia IBS (Sofia Nish);
- Regional SEE LNG re-gasification terminal (Greek North Aegean Coast);
- 8. 8th European Corridor Gas Pipeline (Bulgaria FYR of Macedonia Albania Italy with possible branches to Kosovo and Montenegro)

NABUCCO Gas Project of the Highest Priority of the EU



"SOUTH STREAM" PROJECT Possible Routes of the Branches





Interconnection Greece - Bulgaria IGB



Thank you for your attention!

E-mail: r.simitchiev@gmail.com