## **BULGARIA AS A CORRIDOR OF NATURAL GAS SUPPLIES TO EUROPE**

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## 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

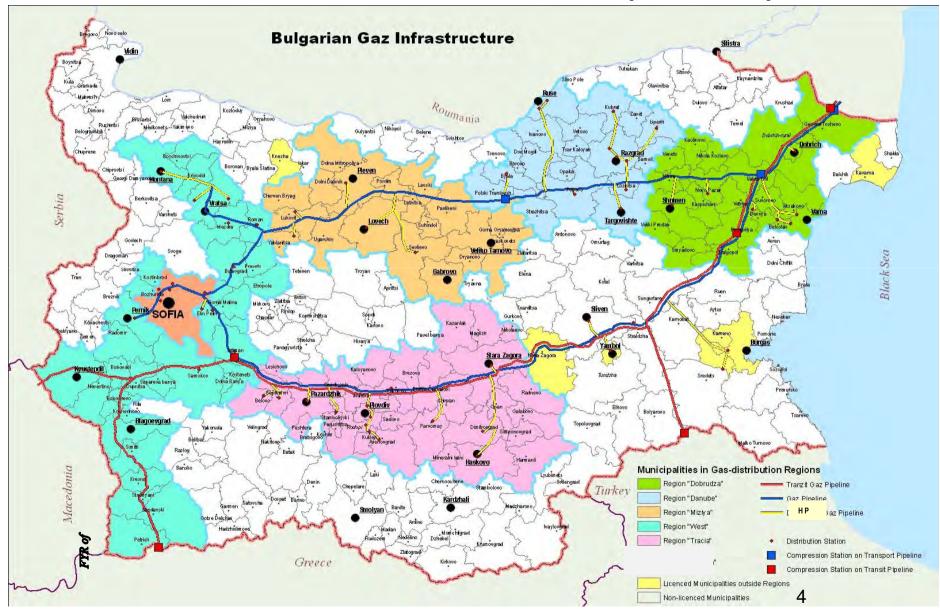
#### **Energy Balance Share**

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)

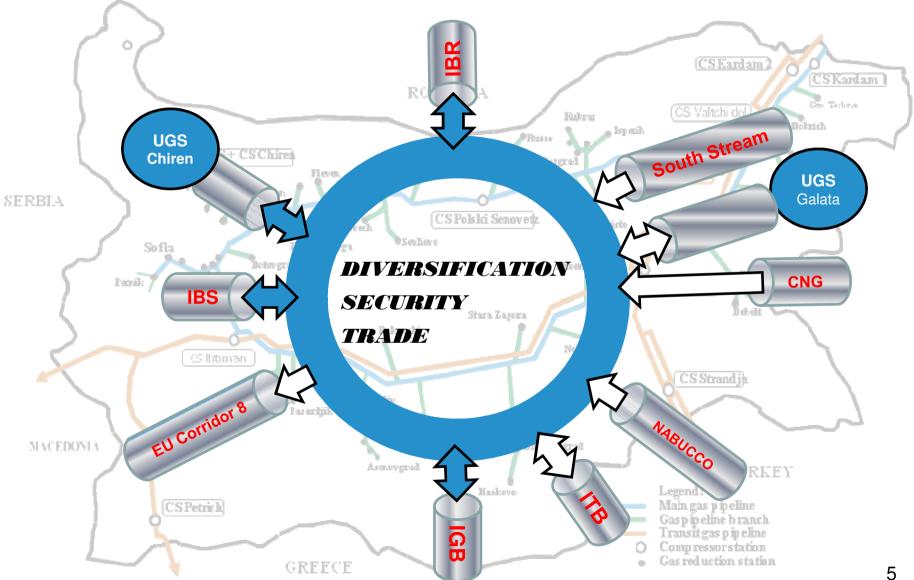
**UGS "Chiren"** (incl. compressor station with capacity 9 MW):

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)

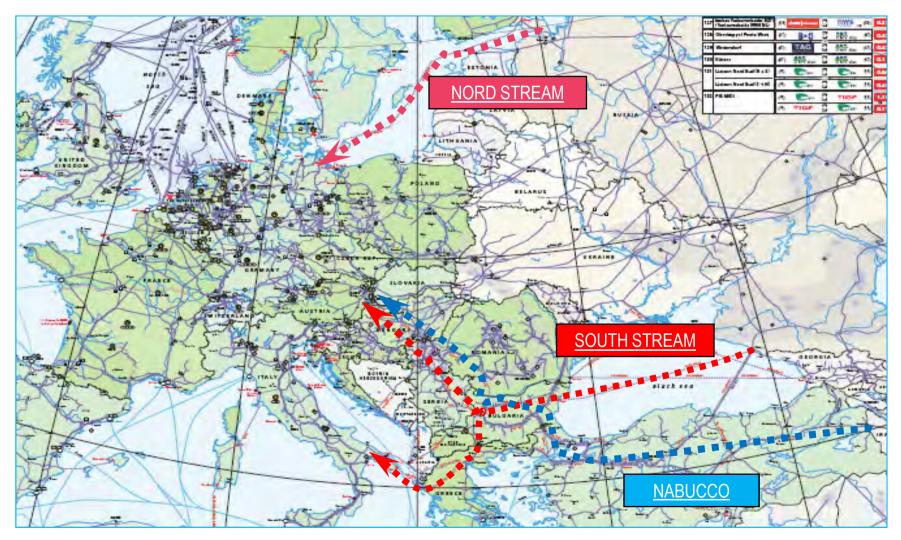


## **GAS INFRASTRUCTURE DEVELOPMENT STRATEGY**



### **3 MAJOR NEW PIPELINE PROJECTS IN EUROPE**

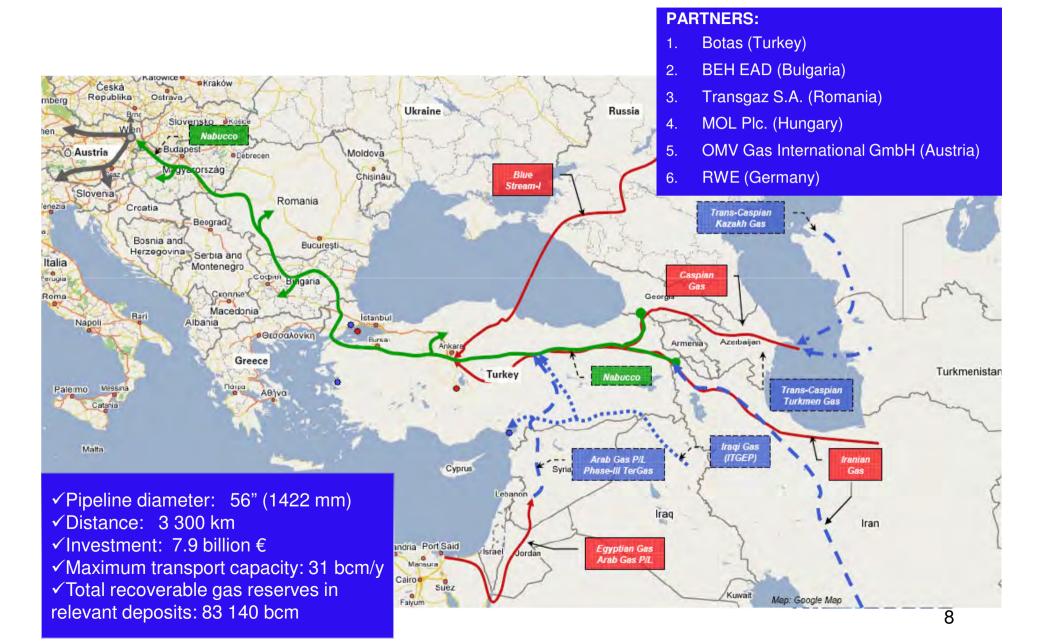
#### SEE and Black Sea Regions – Key Regions for the energy security of the EU



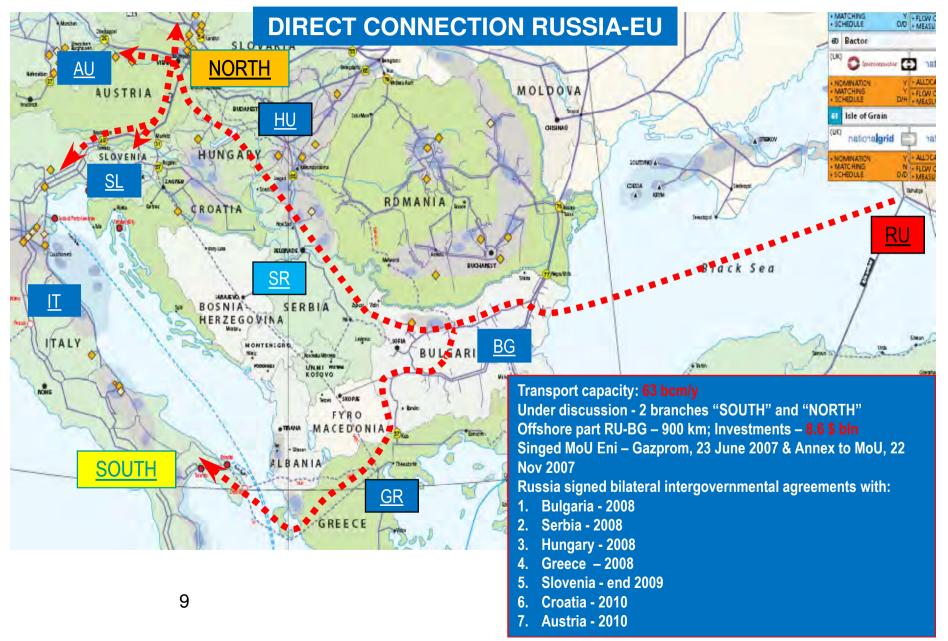
## GAS PROJECTS FOR DIVERSIFICATION OF SOURCES & ROUTES

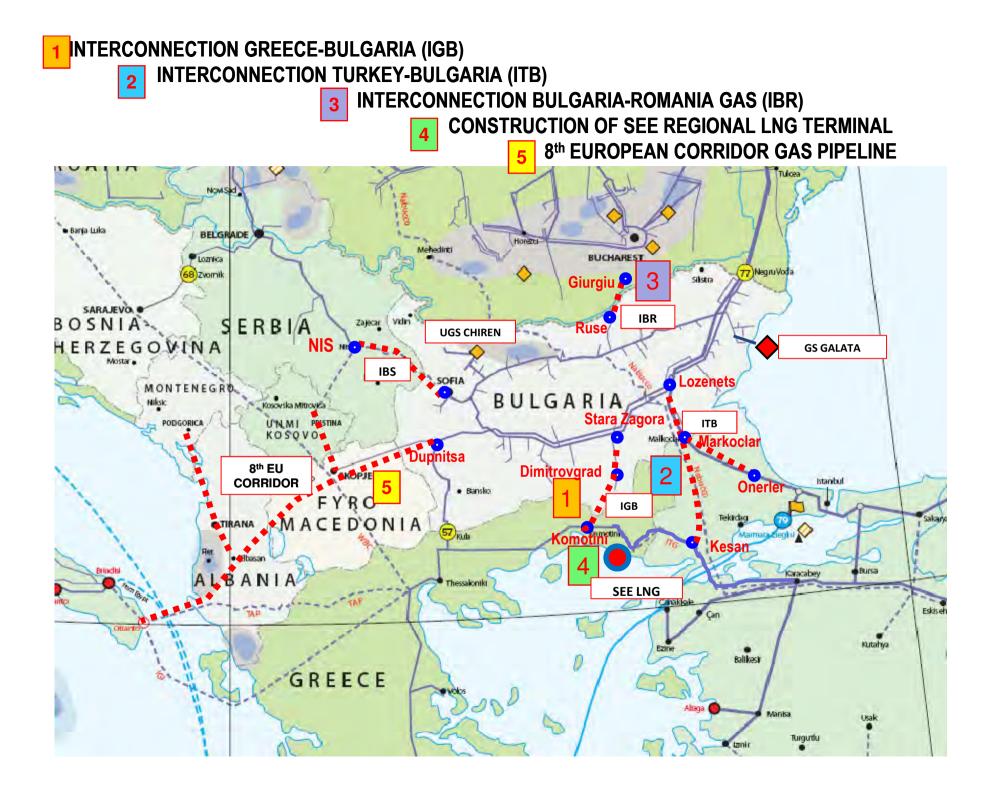
- 1. NABUCCO
- 2. South Stream
- 3. Interconnection Greece Bulgaria IGB (Komotini GR– Dimitrovgrad BG - Stara Zagora BG);
- 4. Interconnection Turkey Bulgaria ITB (Malkoclar TR Lozenetz BG);
- 5. Interconnection Bulgaria Romania IBR (Russe-Giurgiu);
- 6. Interconnection Bulgaria Serbia IBS (Sofia Nish);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

## NABUCCO Gas Project of the Highest Priority of the EU



## "SOUTH STREAM" PROJECT Possible Routes of the Branches

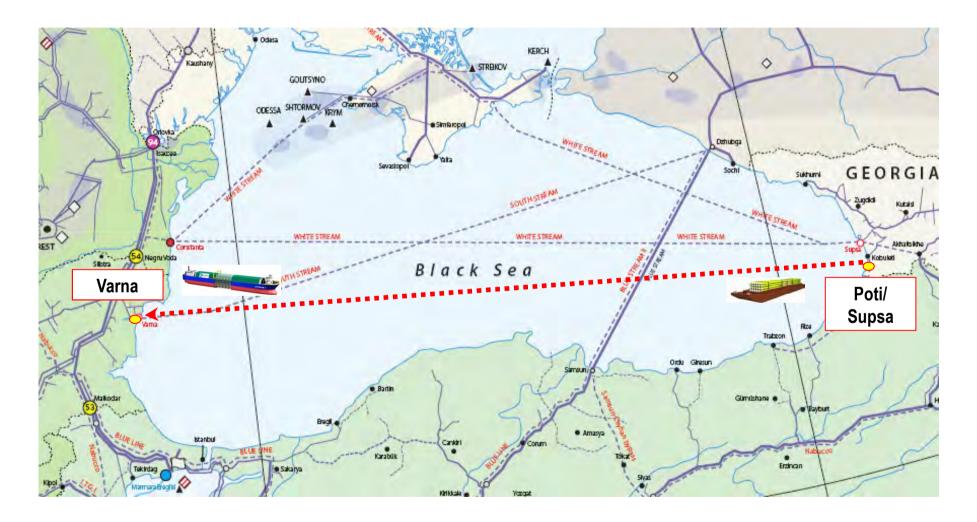




## **Interconnection Greece - Bulgaria IGB**



#### CNG MARINE TRANSPORTATION PROJECT FROM GEORGIAN TO BULGARIAN BLACK SEA COAST Poti/Supsa - Varna



# Thank you for your attention!

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