NEW GAS SYSTEM OF THE REPUBLIC OF CROATIA AND NEW PROJECTS – BASIS OF REGIONAL AND TRANSREGIONAL CONNECTING OF GAS SYSTEMS AND MARKETS

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> 7th South East Europe Energy Dialogue 19-20 June 2013, Thessaloniki, Greece



PLINACRO GROUP



PLINACRO GROUP

PLINACRO – Croatian Gas TSO

- Defined as the Croatian gas transmission system operator in the next 30 years (Gas Market Act)
- PLINACRO Ltd was established by unbundling from INA group
- A 100% state-owned company
- In charge of development, modernisation, construction and maintenance of the Croatian gas transmission system

PSP – Operator of the UGS

Since 2009 a member of the group (100%-owned by Plinacro)

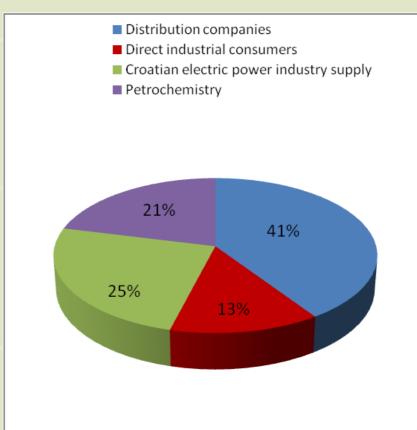
LNG HRVATSKA – development of LNG terminal

Founded in 2010, Plinacro is a co-founder of the company (50% ownership)

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NATURAL GAS DEMAND 2012 IN CROATIA

NATURAL GAS DEMAND 2012	
	Bcm
Distribution companies	1,15
Direct industrial consumers	0,38
Croatian electric power industry supply	0,70
Petrochemistry	0,60
TOTAL	2,83

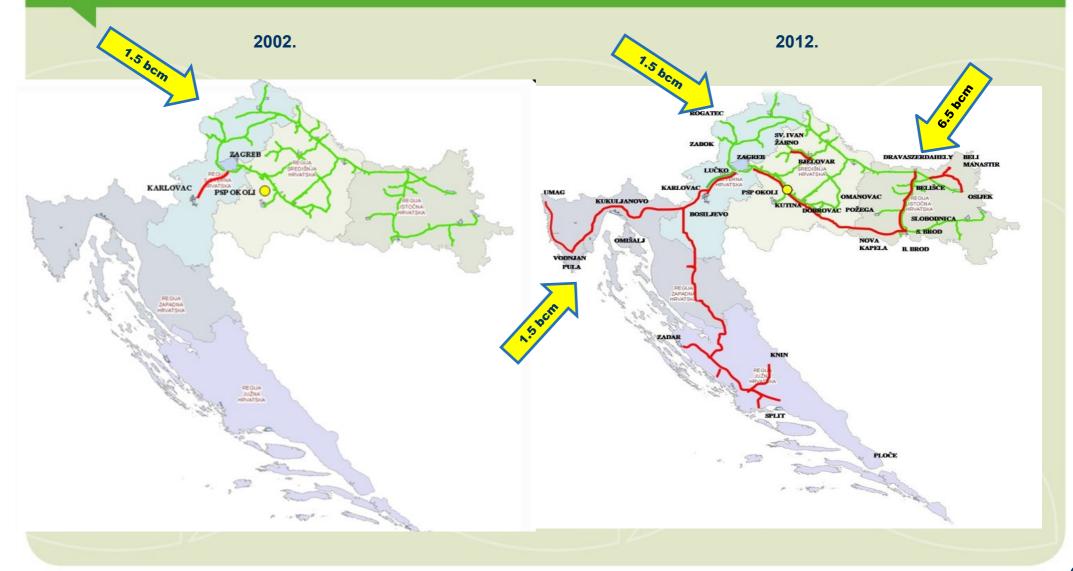


NATURAL GAS SUPPLY 2012 IN CROATIA

NATURAL GAS SUPPLY 2012	
	Bcm
Domestic production	1,61
-Production on-shore	0,67
-Production off-shore	0,94
Import	1,36
TOTAL	2,97



DEVELOPMENT OF THE GAS TRANSMISSION SYSTEM IN THE REPUBLIC OF CROATIA



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NETWORK DEVELOPMENT

Technical data - 2002 1,641 km of high-pressure pipelines **137 MRSs** Transmission - 2.95 bcm of gas max. capacity 560.000 m³/h Technical data - 2007 2,085 km of high-pressure pipelines 9 entry points 151 exit points DC - new SCADA, CS system Transmission - 3.1 bcm of gas Technical data - 2014 2,775 km of high-pressure pipelines 10 entry points 172 exit points 2 interconnections Transmission – 4,5 bcm of gas max. capacity 1.200.000 m³/h Max. system capacity 1.200 1.030 u/2mg01 876 860

580

20022003200420052006200720082009201020102011

600

860



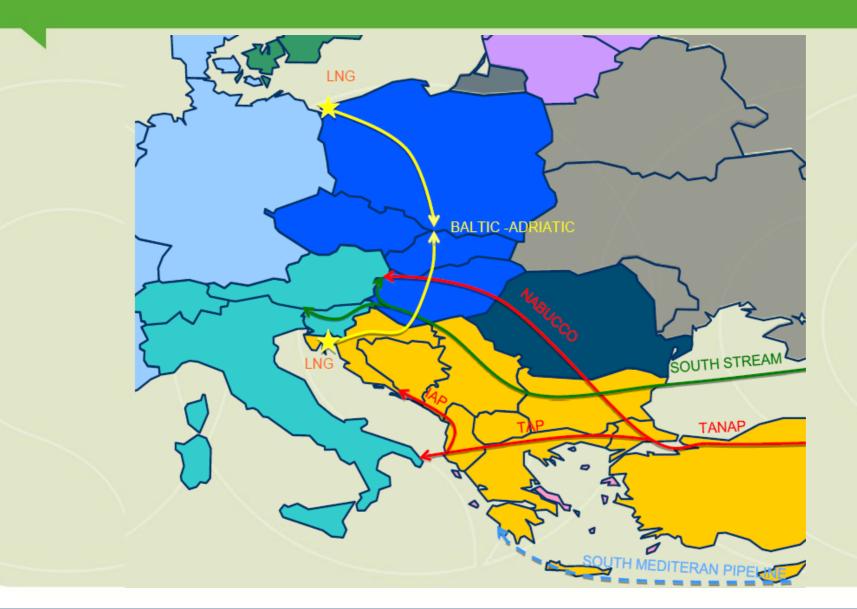
HIGHLY DEVELOPED NATIONAL GAS TRANSMISSION SYSTEM

ORIENTATION TOWARDS THE DEVELOPMENT OF INTERCONNECTIONS AND TRANSIT GAS PIPELINES WITH THE AIM TO CONNECT AND INTEGRATE WITH NEW SUPPLY PROJECTS

INTEGRATION IN REGIONAL AND EUROPEAN NATURAL GAS ROUTES

INTEGRATION IN REGIONAL AND EUROPEAN NATURAL GAS MARKET

DEVELOPMENT PROJECTS IN SEE & CEE AND POSITION OF REPUBLIC OF CROATIA



NEW GAS SUPPLY PROJECTS



CRUCIAL FOR SEE NATURAL GAS SECTOR DEVELOPMENT, SINCE BY PASSING OVER THE TERRITORIES OF THESE COUNTRIES THEY WILL:

Increase the existing gas transmission systems and interconnect them
Be a backbone of development of gas transmission systems in the countries with yet underdeveloped systems
Connect gas transmission systems of SEE countries and integrate them in the comprehensive European gas transmission system
Provide natural gas supply from new Middle East, Caspian and other sources
Provide integration of SEE gas market in the European gas market

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NEW SUPPLY PROJECTS – TRANSIT POTENTIALS



DEVELOPMENT PROJECTS

Interconnections:

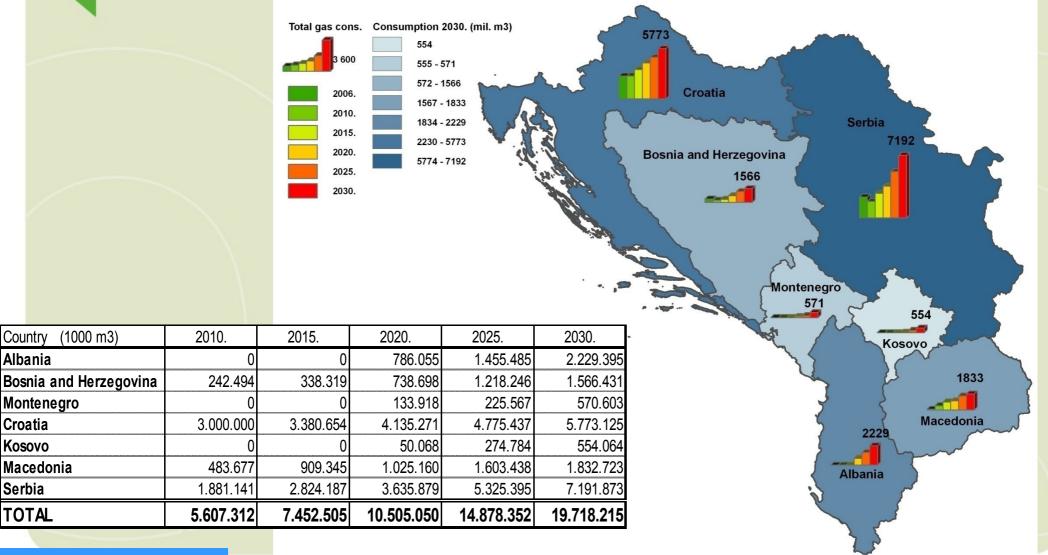
- Interconnections Croatia/BiH
- Interconnections
- Croatia/Slovenia
- Interconnection Croatia/Serbia
- Interconnection Croatia/Italy

Regional projects:

- Ionian-Adriatic Pipeline (IAP)
- LNG Project
- South Stream
- North South Gas Corridor



POTENTIALS OF NATURAL GAS MARKET IN SOUTHEAST EUROPE GAS RING



(1000 m3)

Country

Albania

Croatia

Kosovo

Serbia

TOTAL

Macedonia

Montenegro

IONIAN ADRIATIC PIPELINE - IAP PROJECT

Connection of gas transmission system of Lika and Dalmatia with TAP Project (Trans -**Adriatic- Pipeline)** BUDAPEST MP Split (HR) – Fieri (ALB) DN800 TZERLAND TAG - DN1000 / 75 bar, L= 540 km Supply with natural gas - Albania, /arosto arvisi HUNGARY Montenegro, Bosnia and Herzegovina and Croatia Maroe Miholia R O M Max capacity: 5 bcm/y CROA Possibility of transit of natural gas to 2.5 BCN **Central and Western Europe** BELGRADE Casalborsetti Possibility of reverse flow SARAJEV September 2007- Albania, Montenegro and SNIA SERBIA ZEGOVINA Croatia signed Ministerial Declaration. 3 **December 2008 - Bosnia and Herzegovina** ITALY signed Ministerial Declaration. ontenegromm 0.5 BCM EGL and Plinacro signed Memorandum of ROME Understanding IAP SKOPJE June 2010 – Interstate Committee **1.0** всм Tirana established, led by Croatia February 2011 – Plinacro and TAP signed **Memorandum of Understanding.** TAP April 2011 – TAP/Plinacro/IAP Joint Working **Group established** Request for financing from **WBIF** for existing GREECE comprehensive feasibility study for the planned entire IAP led by Croatia i.e. Plinacro; approved 3.5 Mil EUR

TANAP (TRANS-ANADOLIAN PIPELINE)

KEY PROJECT FOR OPENING THE SOUTH CORRIDOR

NABUCCO OR TAP?

THE QUESTION OF PRIORITIES – DYNAMICS OF REALISATION

THERE WILL BE SUFFICIENT GAS FOR ALL PROJECTS, WHILE TANAP PROVIDES SUFFICIENT CAPACITY

TAP + IAP ARE PRIORITY PROJECTS OF COUNTRIES OF ENERGY COMMUNITY OF SEE

THEY PROVIDE GASIFICATION OF COUNTRIES YET UNCOVERED BY GAS NETWORK

LNG PROJECT

LNG Croatia: Founded in 2010 - Plinacro 50%, HEP 50%

Capacity: 4-6 bcm/y

Request for financing from WBIF for the CS, FS and CD; approved 1 Mil EUR ToR for the Feasibility Studyapproved by EC, drawing up the Study started in August 2012



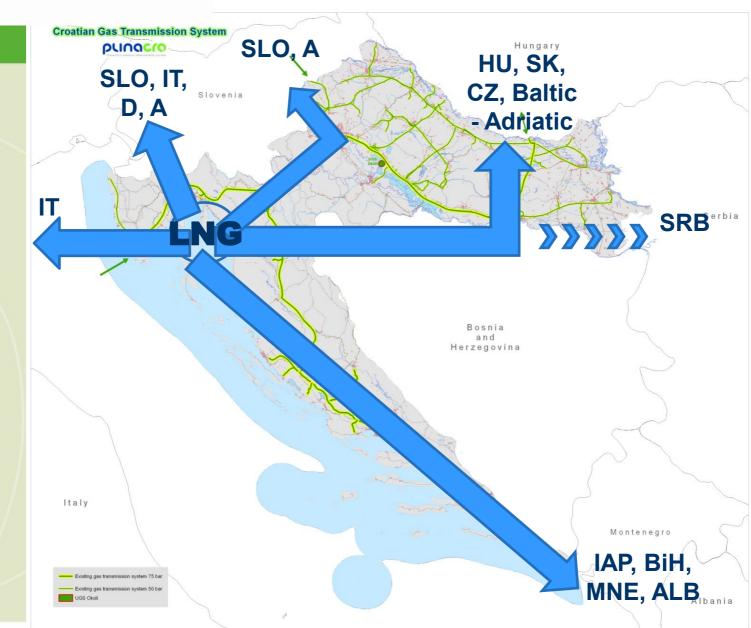
LNG ON THE ISLAND OF KRK

- •A harbour of exceptional features for the safe receipt of largest LNG vessels
- •Strategic position with regard to the CEE and SEE countries
- Opens possibilities of flexible diversified supply
- •Almost all surrounding countries expressed their wish and intention to include the LNG component in the structure of their supply
- Additionally supports interconnections of gas systems of the surrounding countries

SECURITY OF SUPPLY AND INTEGRATION OF THE MARKET

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POSITION OF LNG IN EUROPE



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SOUTH STREAM

Intergovernmental Agreement between the Russian Federation & the Republic of Croatia signed 02 March 2010. Feasibility Study – done in February 2012 Status: The negotiations -still in progress.



ADRIATIC .

AD

NORTH – SOUTH GAS CORRIDOR

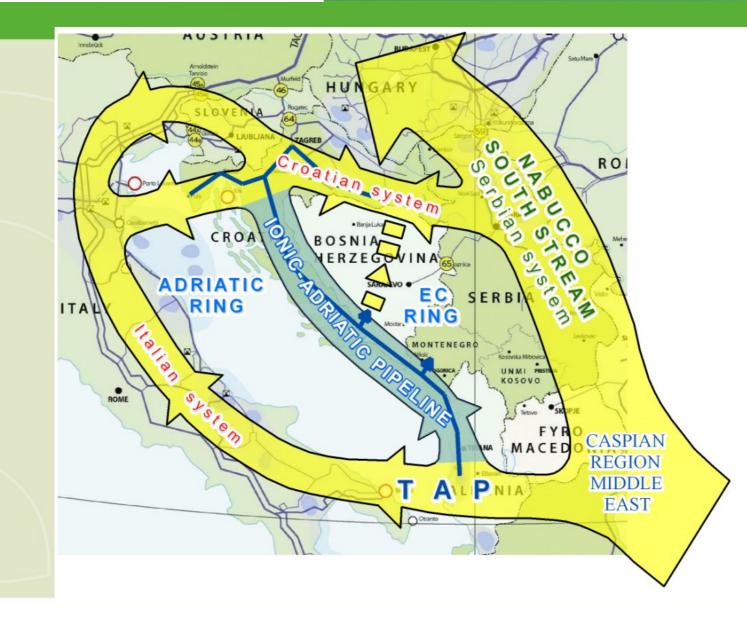
•Under the umbrella of the European Commission the North – South European Corridor more specifically the North-South Gas Connections has been established

•Working groups-established, Plinacro an active member

•TSOs of the countries involved in the work of the Group presented projects, tariffs, regulations, etc of the infrastructure that enables establishment of Gas Corridor

•13 September 2012. PLINACRO and GAZ-SYSTEM signed DECLARATION OF CEE GAS MARKET DEVELOPMENT SUPPORT with an emphasis on the key role of LNG terminal in Poland and Croatia

IAP PROJECT – REGIONAL LINK + THE BASIS OF THE SEE GAS RING



INTEGRATION OF THE CROATIAN GAS TRANSMISSION SYSTEM INTO SUPPLY ROUTES AND INTO THE EUROPEAN GAS FLOWS



DEVELOPMENT PROJECTS IN SEE & CEE AND POSITION OF REPUBLIC OF CROATIA





Thank you for your attention!