

# CROATIA: GAS INDUSTRY DEVELOPMENTS 2006

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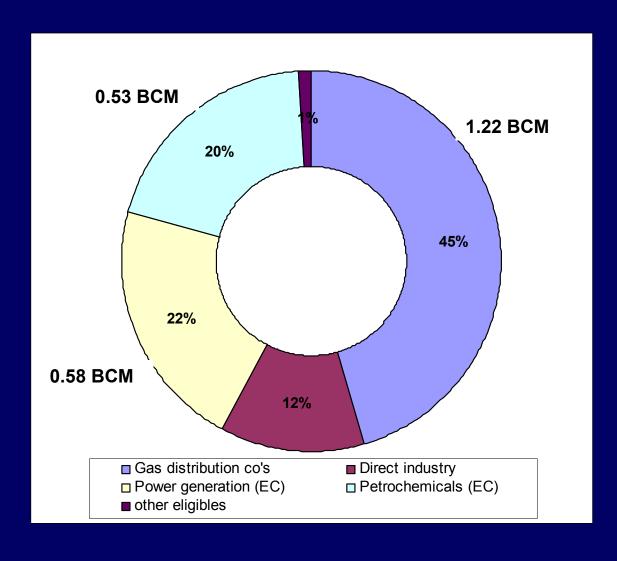
#### Contents

- Croatian gas market 2006
- Supply and demand situation
- Gas transportation system developments 2006
- Future gas system development
- Legal framework
- EU harmonisation drive
- New and on-going projects
- Conclusions





# Croatian Gas Market 2006



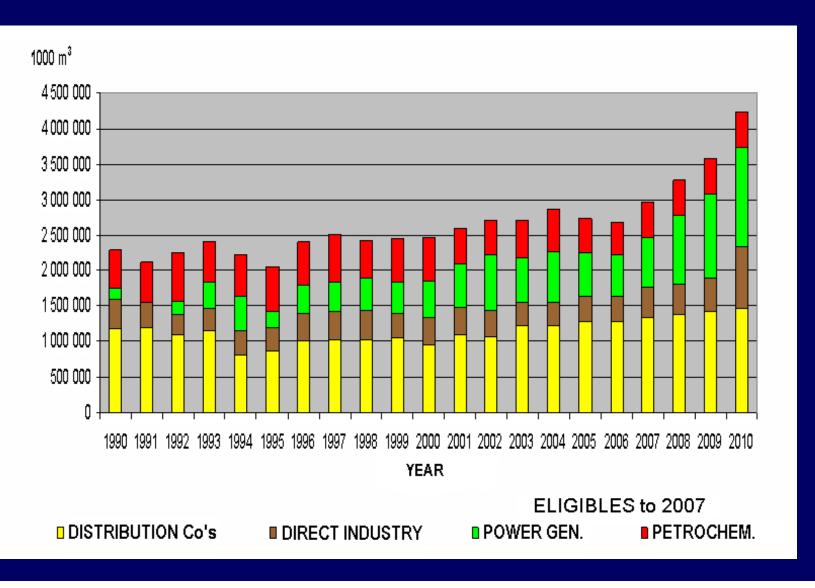
2006\*

Total sales: 2.68 BCM





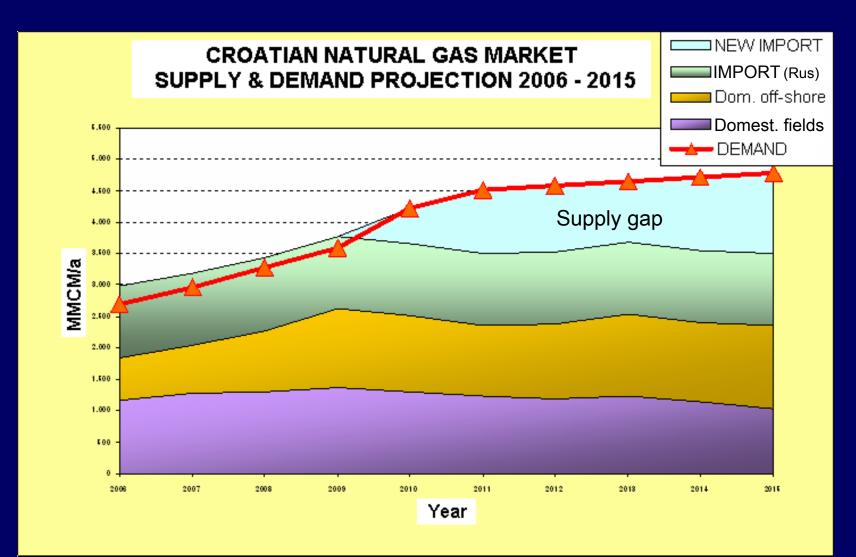
# Croatian gas market breakdown







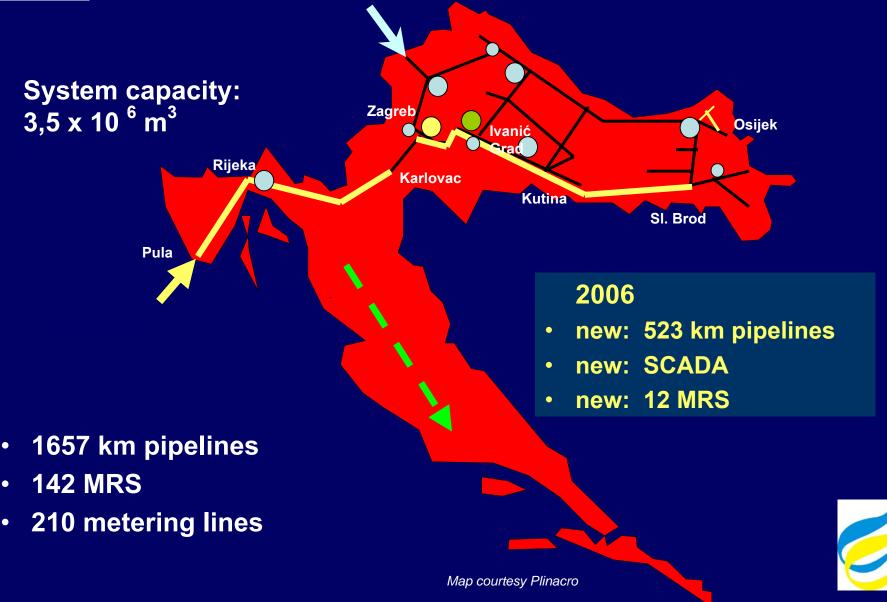
# **Supply & Demand Projection**







# **Gas Transportation System**





# Gas Transportation System Development Plan 2007 – 2011



Pula – Umag DN 300/50 Kukuljanovo – Omišalj DN 500/75

Lučko – Zabok DN 700/75 Zabok - Rogatec DN 700/75

D.Miholjac – Dravaserdahely DN 700/75 Slobodnica – D. Miholjac DN 700/75 Slobodnica – B.Brod DN 700/75

Bosiljevo – Split DN 500/75 Dugopolje – Ploče DN 500/75 Ploče – Dubrovnik DN 700/75

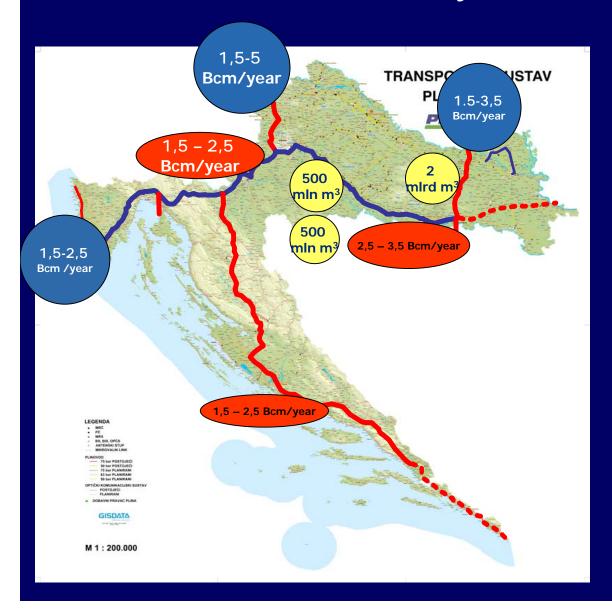
**Dubrovnik – Igalo DN 700/75** 

Slobodnica – Sotin DN 700/75 Sotin – Bačko Novo Selo DN 700/75





# **Future System Capabilities**



**New sources of supply** 

Sufficient capacity and power

**Transit capacity** 

**Regional connections** 

Storage capacity





# Croatian gas transportation system in European context







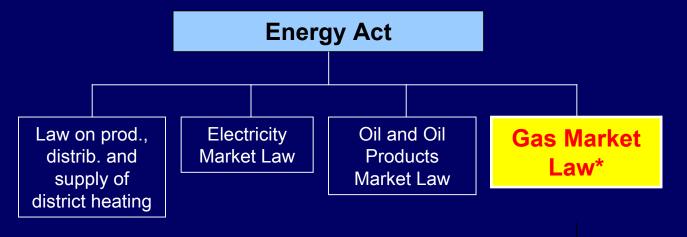
# Legal Framework

- 2nd round of the National energy reform
- EU harmonisation (55/03, ...) and EEC requirements
- Gas market liberalisation
- Central position of the new GAS MARKET ACT\*
- Horizontal and vertical (legal\*) unbundling
- Gas market opening in 2007 (non-residentials) & 2008 (full)
- Protected customer categories (tariff → PSO)
- Price control (to 2011 ?\*)





# Legal Framework\*



Energy Regulation Act

Gas activities (functions):\*

Regulated: WS Supply (TCs) TSO DSO SSO LNGO Ret. Supply (TCs)

Market: Production Supply (eligible cs) Trade\*

Secondary legislation and operational regulations expected in

2007:

6 Tariff systems for gas activities/functions (methodologies)

General conditions of gas supply

**Security of Supply Bill** 

2 network codes (TSO + DSO), 2(3) regulations





Ad Hoc Group of Experts on the Supply and Use of Gas; Geneva; 25-Jan-07

#### **CROATIAN GAS MARKET MODEL**

( expected\* open gas market structure )

SUPPLY Eligib Cs

**SUPPLY - OPEN MARKET** 

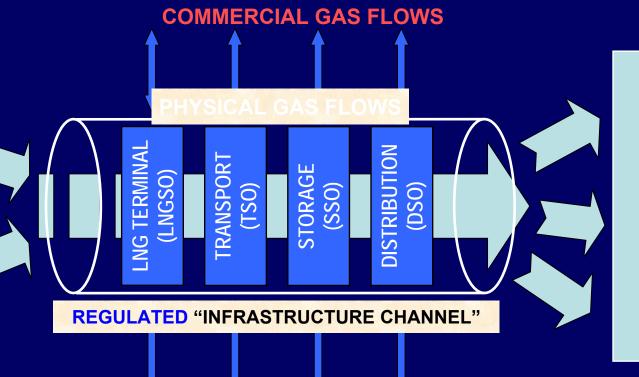
SUPPLY Eligib Cs



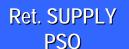
SOURCES 1 (pipeline gas)

SOURCES 2 (LNG)





**REGULATED SUPPLY - PSO** 





# **On-going projects**

#### Infrastructure:

- Further gas transportation system development
  - Next phase of national transportation system
  - > Import interconnections

# New production/supply:

North Adriatic off-shore gas fields (INAgip)





# **New projects**

#### Infrastructure:

- Gas storage development
  - New local gas storage project (0.5 Bcm)
  - Regional storage development project (2 Bcm)

# New production/supply:

Krk island LNG regasification terminal





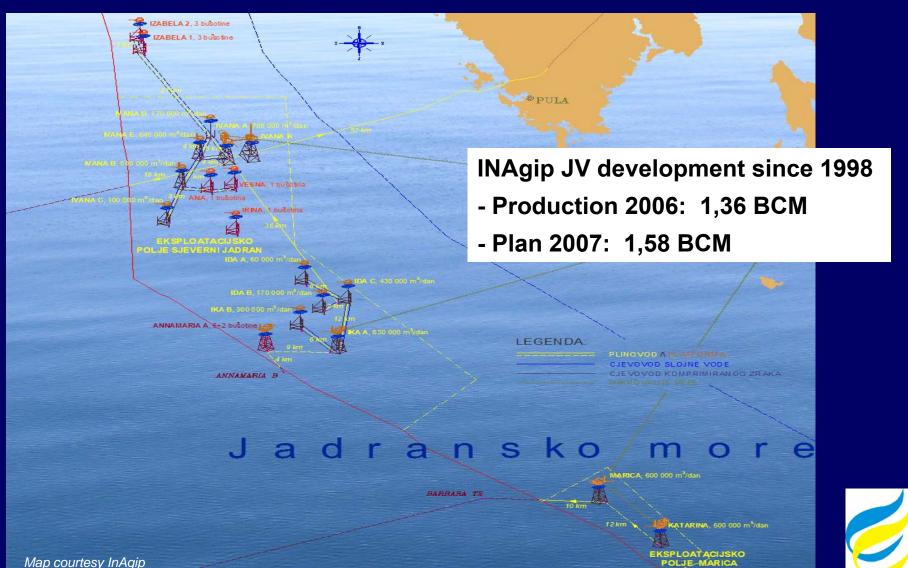
# New and on-going projects: offshore & LNG







# North-Adria off-shore fields (INAgip)







# Krk island LNG project



- LNG regas terminal on the island of Krk
- Adria LNG consortium + Croatian partners (?)
- Start-up in 2012 (?)





#### **Conclusions**

# Difficult but interesting years ahead!

- Finalization of EU-harmonised legal framework
- Start-up of the new (gas related) investment cycle ⇒ pipelines, storage, LNG
  - Gas system development in southern part of Croatia
  - Transit capability/role of Croatian gas system
  - Role in regional gas storage





# Difficult years?





# Energy Markets Liberalisation: The EU Commission Speaks

