



# Energy Community Gas Market Report

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**1<sup>st</sup> Energy Community Gas Regulatory Forum**  
**Maribor, November 9<sup>th</sup>, 2007**

- **Following the approval of its internal rules the ECRB has set up three working groups on Electricity, Customers and Gas**
- **The members of the GWG are:**
  - **15 in total: EU MS (Austria, Bulgaria, Greece, Hungary, Italy, Romania, Slovenia); Contracting Parties (Albania, Bosnia and Herzegovina, Croatia, FYR of Macedonia, Montenegro, Serbia, UNMIK); and Turkey (as Observer)**
  - **The scope of the GWG is to develop the work of the ECRB on the Energy Community gas market and collaborate with regional stakeholders on gas issues.**
  - **GWG work is supported by the ECRB Section of ECS.**
  - **For the purposes of this study, support has been provided by USAID (Pierce Atwood) and experts from the WG members (Serbia)**

# Overview

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- **According to the ECRB Work program, the ECRB GWG is conducting a Gas Survey to cover all its members:**
  - **Builds upon the experience of the former CEER WG SEEER (2004-2005)**
  - **Provides current data on state of play for natural gas in the region, identifies needs, offers recommendations**
  - **Focuses on gas market and structure, regulatory relationship to gas infrastructure conditions and issues, regulatory role with respect to investment needs and projects**
  - **The work has not been completed yet; preliminary results presented here**

# Scope of the Report

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- **It is the starting point of the GWG efforts**
- **Will serve as the platform for the provision of regulatory input on the issues related to the development of the SEE gas market**
- **Practical approach applied; limited time; and anticipation of other studies currently underway or finalised, including extensive work by the Energy Community Secretariat**
- **Will not duplicate the work that others (ECS and the WB, for the time being) are already undertaking on the regional level, but will try to supplement it**

# Areas covered

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## ■ Three main areas:

- Existing gas demand/supply, infrastructure and market operation (supply, transmission, distribution, storage, LNG) and anticipated future evolutions
- The legal and regulatory framework in the countries of the region
- Infrastructure development:
  - Legal and regulatory framework: responsibilities and roles
  - Existing arrangements for regional approach

# Methodology

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- **Regulators were asked to update prior information (gathered in 2003) and also to answer the new questions**
  
- **New questionnaire developed based on the old questionnaire, with a more concrete focus on:**
  - **the legal and regulatory side**
  - **Investment needs and plans – and the regulatory relationship to these**

# Schedule for Completion

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- **ECRB Gas Survey begun in May 2007**
- **Currently, 14 of 15 responses received (missing Bulgaria)**
- **Draft Survey in process; the second draft is currently under review by the members of the GWG**
- **Final report will be available by the end of 2007**
- **Results will be presented in the next JGW and Forum**

# The Market

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- **Huge differences between the countries:**
  - **Mature gas markets for the EU-MS (Greek market emerging, Turkish market also growing)**
  - **Developed gas markets in some of the Contracting Parties' markets (Croatia, Serbia)**
  - **Minimal development in FYR of Macedonia, Bosnia and Herzegovina**
  - **Negligible or non existent consumption, infrastructure and supply in UNMIK, Montenegro, Albania**

# Gas Supply

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- **Strong dependence on imports**
- **For the vast majority, long term contracts govern gas supply**
- **Limited supply side options (main suppliers Russia and Algeria)**
  - Imports of Russian gas via existing routes
  - Imports of LNG (Greece, Turkey and Italy)
- **Poor interconnection in the region**
- **Backhaul opportunities, cross border storage and LNG facilities not exploited**
- **Contractual rather than physical congestion in transit, spare capacity**

# Market size and self sufficiency

Country	Market size (2003, BCM)	Market size (2006, BCM)	Share of imports (2003)	Share of imports (2006)
<b>Albania</b>	0,01	0,01	0%	0%
<b>Bosnia and Herzegovina</b>	0,18	0,36	100%	100%
<b>Croatia</b>	2,64	2,67	41%	36%
<b>F.Y.R. of Macedonia</b>	0,11	0,08	100%	100%
<b>Montenegro</b>	0	0	NA	NA
<b>Serbia</b>	2,22	2,30	85%	91%
<b>Austria</b>	8,90	8,91	77%	88%
<b>Bulgaria</b>	NA	NA	NA	NA
<b>Greece</b>	2,40	3,29	100%	100%
<b>Hungary</b>	14,56	14,24	80%	80%
<b>Italy</b>	76,40	84,50	82%	92%
<b>Romania</b>	18,30	17,26	30%	30%
<b>Slovenia</b>	1,03	1,10	100%	100%
<b>Turkey</b>	21,20	30,89	97%	97%
<b>Adhering Parties</b>	<b>5,16</b>	<b>5,42</b>	<b>63%</b>	<b>64%</b>
<b>Art. 27 Countries</b>	<b>121,59</b>	<b>129,30</b>	<b>70%</b>	<b>78%</b>

# Capacity and its use at key cross-border points



Location	Type	From (TSO)	Country	To (TSO)	Country	Max flow MNm3/h (*)	Utilisation rate (**)
Griespass	Pipeline	ENI-CH/Swissgas	CH	SRG	I	2,49	84%
Panigaglia	LNG	GNL Italia	I	SRG	I	0,51	65%
Mazara del Vallo	Pipeline	TMPC	TUN	SRG	I	3,29	83%
Gela	Pipeline	GreenStream	LYB	SRG	I	1,04	82%
Gorizia	Pipeline	SRG	I	Geoplin-Plinovodi	SLO	0,19	44%
Tarvisio	Pipeline	OMV	A	SRG	I	3,90	69%
Murfeld	Pipeline	OMV	A	Geoplin-Plinovodi	SLO	0,42	85%
Baumgarten	Pipeline	SPP	SK	OMV/TAG/BOG	A	6,00	72%
Revithoussa	LNG	DESFA	GR	DESFA	GR	0,52	16%
Kula	Pipeline	Bulgartransgas	BUL	DESFA	GR	0,66	51%
Bregdaroc	Pipeline	UKRTransgas	UKR	MOL	H	1,72	76%
Isaccea/Mediesu A.	Pipeline	UKRTransgas	UKR	Transgas	RO	4,38	61%
Negru Voda	Pipeline	Transgas	RO	Bulgartransgas	BUL	3,00	59%
<b>Total Art. 27 Countries</b>						<b>28,12</b>	<b>70%</b>
Kiskundorozsma	Pipeline	MOL	H	Serbia Gas	SRB	0,54	44%
Rogatec	Pipeline	Geoplin-Plinovodi	SLO	Plinacro	HR	0,20	64%
Loznica	Pipeline	Serbia Gas	SRB	BiH-gas	BiH	0,08	53%
<b>Total Adhering Parties</b>						<b>0,82</b>	<b>50%</b>

(\*) Source: GIE, November 2005 data; for Kula, Revithoussa: RAE, July 2007

(\*\*) Source: ECRB Gas Survey 2007

In terms of the *legal and regulatory framework*, many forward steps have taken place in the last year or two:

- Primary gas legislation passed or about to be passed, consistent with EU requirements/Energy Community Treaty
- Independent regulators for the gas sector have been set up in all GWG countries except BiH and Albania
- In Bosnia and Herzegovina, Albania draft legislation is pending to give the existing electricity regulators competence in the gas sector as well (both anticipated for passage by end of 2007)

# Legal and Regulatory Framework (2)

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- **Unbundling is underway, with accounting completed in every case where applies; legal and organizational unbundling in most cases – TSO and DSOs established in majority**
- **Transmission tariff methodologies are being developed**
- **The licensing regime varies greatly**
- **Hard to build necessary infrastructure in third countries**
- **Much work needed to make the framework operational**

## *Large projects in the planning stages:*

- **Mainly for pipeline gas, few LNG terminals**
- **Different models exist for infrastructure development (e.g. Nabucco, IGI...) but harmonized access and trading rules needed anyway**
- **Limited legal and regulatory provisions for infrastructure development (pipelines, LNG and storage)**
- **Most investments will be in distribution, regulatory support needed but national decisions**

# Preliminary Lessons from the Survey (2)

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- **Significant idle import capacity already exists**
- **Need to overcome a vicious circle:**
  - **Inadequate regulation**
  - **Low investment**
  - **Low supply**
  - **High costs**
  - **Low gas competitiveness**
  - **Small gas market**
  - **Weak gas industry**
  - **Low pressure for better regulation**

## Some encouraging starting points

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- **Market rules have hardly been developed, thus regional harmonization easier, starting from mature countries**
- **Few strong interests hinder gas market development**
- **Gasification is economically feasible under certain conditions (WB/KfW study)**
- **Substantial benefits to accrue to the region:**
  - **Gas (and hence energy) cost reductions from economies of scale**
  - **Fast development of much needed power generation**
  - **Interconnection with EU minded projects and West European market**
  - **Urban, regional and global environmental benefits**

# Key Regulatory Challenges

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- **Foster and accelerate implementation of the EU acquis**
- **Develop the framework for infrastructure development under mainly emerging markets conditions**
  - regulatory certainty to be provided for West Balkan Ring
- **Foster cross-border trade:**
  - full exploitation of existing infrastructure needed
  - develop a framework for transit and its “convergence” with domestic transmission
- **Foster security and diversity of supply**
- **Enhance competition**

- **Background**
  - last Mini Forum
  - ECRB decision
  - experience with EU
  
- **Sub-regions with different features:**
  - **A. North Western Balkans (Croatia, Serbia): gas market developed, considerable experience**
  - **B. South Western Balkans (Bosnia and Herzegovina, Montenegro, Albania, FYR Macedonia, UNMIK): no or little gas used and no experience**
  - **C. Neighbouring countries (Austria, Bulgaria, Hungary, Greece, Italy, Romania, Slovenia): GRI focusing mainly on cross-border issues, especially regarding transit**

# Gas Regional Initiative in the Balkans (2)

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- **Neighbouring countries are part of the GRI “South-South East” region and EU members**
- **Issues to be addressed differently in SW Balkans**
  - **Infrastructure development**
  - **Developing a new market**
  - **Distribution and transmission unbundling**
- **Common issues**
  - **Licensing**
  - **Implementation of Directives**
  - **Harmonization of wholesale tariff and market rules, etc.**

# Gas Regional Initiative in the Balkans (3)

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- **Short term focus on:**
  - Transit, enhanced use of existing infrastructure
  - Providing stable and harmonized regulatory framework for new infrastructure
  - Appropriate provisions tailored to developing markets
- **Co-ordinated by ECRB (Gas Working Group)**
  - Co-ordination with neighboring countries (ERGEG GRI for SSE, Turkey)
- **Implementation Group to include TSOs, Donors, IFIs, Representatives of network users**
- **Stakeholders meetings to be held back to back with Gas Forums**