

# **Turkey – Rising Ambitions**

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Editor, Turkish Energy Hub Daily

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# **Powering forward – the Turkish energy sector**

#### ELECTRICITY

- Market developments
- Trading updates

#### NATURAL GAS

- Market development and challenges
- The case for a liquid market

#### INTERCONNECTIONS

• The creation of an energy hub: achievements and challenges

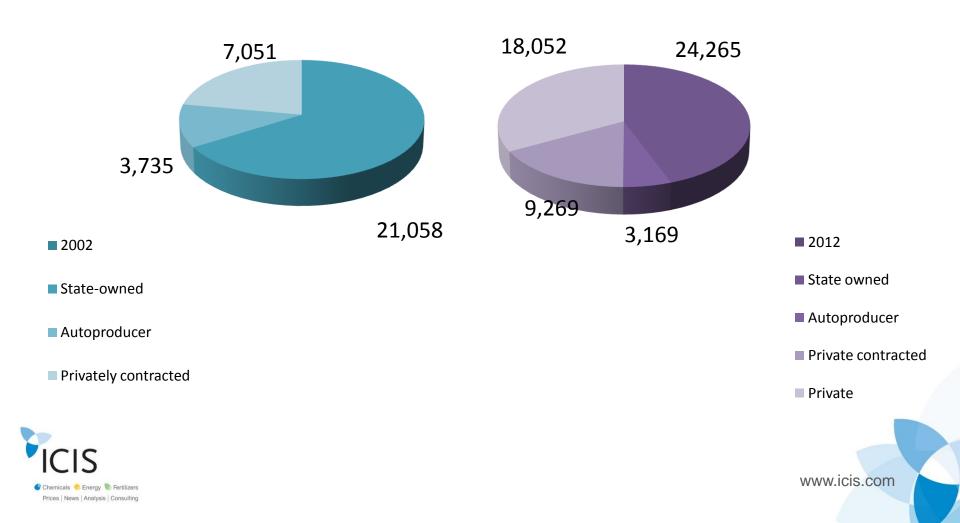


## **Development of the electricity market**

	Demand and investment requirements	<ul> <li>Electricity demand growth of 6.1% per year through to 2030</li> <li>Cumulative greenfield investment requirements of TL243bn (€102.6bn) through to 2030</li> <li>10GW of nuclear generation by 2020</li> <li>Some 15GW of planned gas-fired generation</li> <li>13GW of untapped coal potential</li> <li>45.9 untapped wind potential</li> <li>26.6GW untapped hydro potential</li> </ul>		
	New build and untapped potential			
	Privatisation to date	<ul> <li>Sale of 21 distribution grids</li> <li>Offload of some 2.5GW of state generation from a proposed total of 16.5GW</li> </ul>		



#### Shift from state to private ownership 2002 – 2012



# Market development stages



- Introduction of a balancing mechanism
- Day-ahead planning
- Balancing power market
- Hourly settlement
- Day-ahead market
- Balancing power market
- Hourly settlements
- Collateral Mechanism
- ICIS starts first ever OTC price assessments
- Launch of cross-border auctions

2012

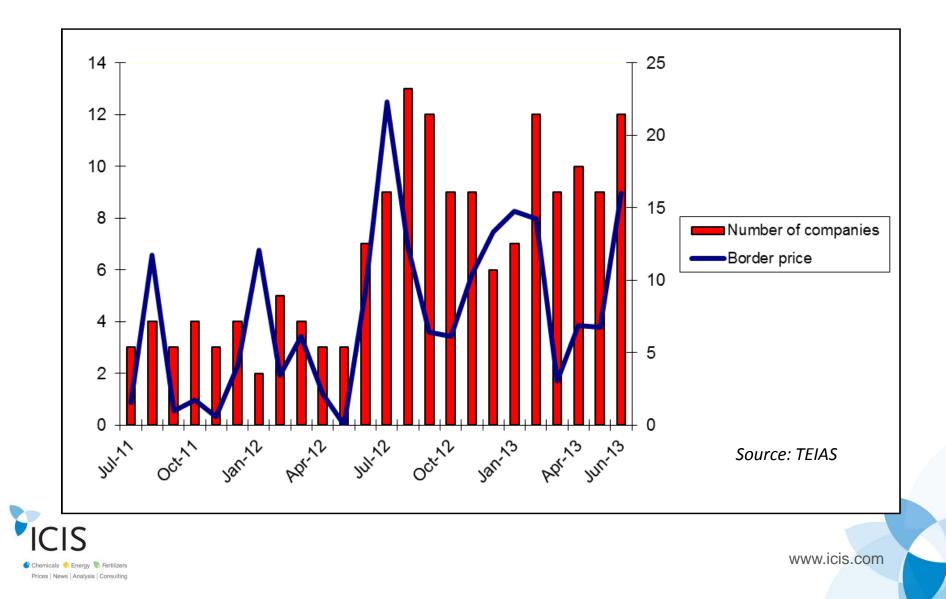
2013

2011

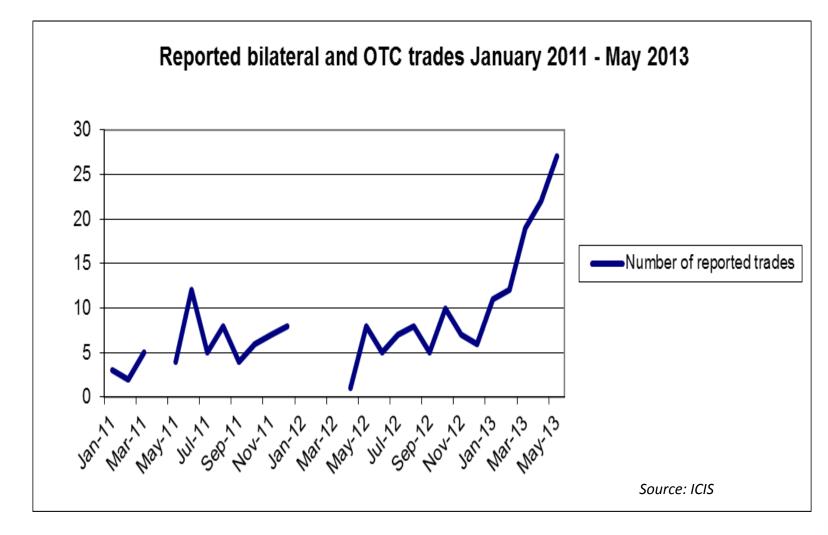
- First over-the-counter (OTC) trades reported on broker screen
- •Amendments to the Electricity Market Law of 2001 are passed in Parliament
- •Establishment of EPIAS, a cross-commodity exchange in charge of Day-ahead operations and with reduced state ownership
- Introduction of an intra-day market
- •Creation on a futures market within the new Borsa Istanbul
- •Operation of Balancing Market remains TEIAS remit

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## Trading activity on Bulgaria-Turkey border



# Bringing liquidity to the market





### **External and internal challenges**

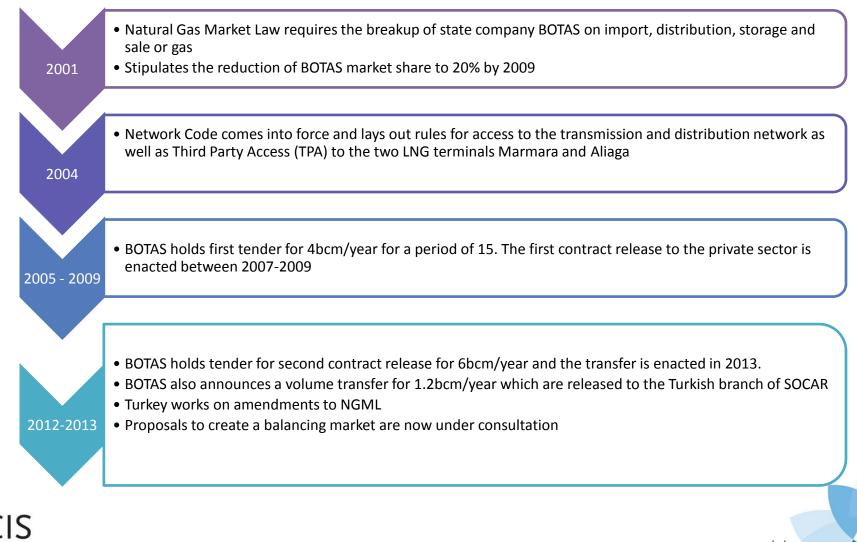
Security of supply concerns caused by internal technical constraints and regional political volatility which may affect steady and reliable gas flows

Existence of cross-subsidies which causes losses and hampers the liberalisation of the market

The retention of stamp tax – 0.948% of the value of any concluded deal. It has the potential to strangle the budding OTC market



# **Development of the natural gas market**



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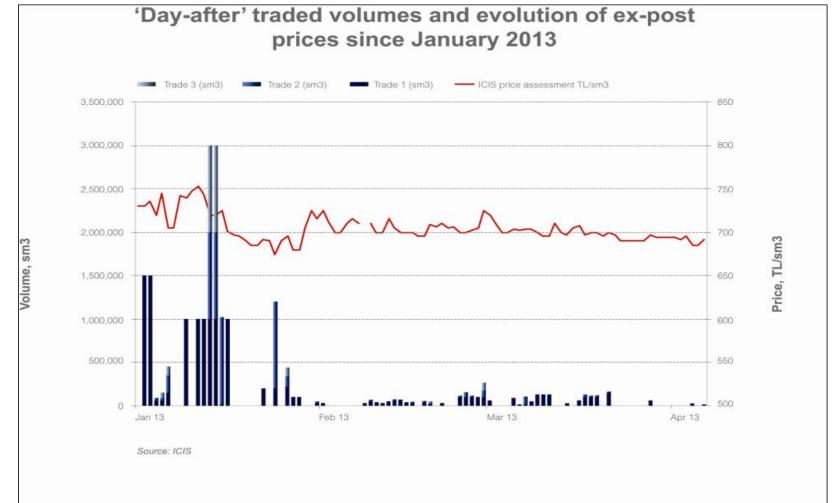
#### **Private importers as of 2013**

Importer	Volume bcm/year
Enerco Enerji	2.5
Bosphorus Gaz	2.5
Akfel	2.25
Batti Hati	1
Kibar Holding	1
Avrasya Gaz	0.5
Shell Enerji	0.25
SOCAR Gas Trading	1.2

Source: EMRA

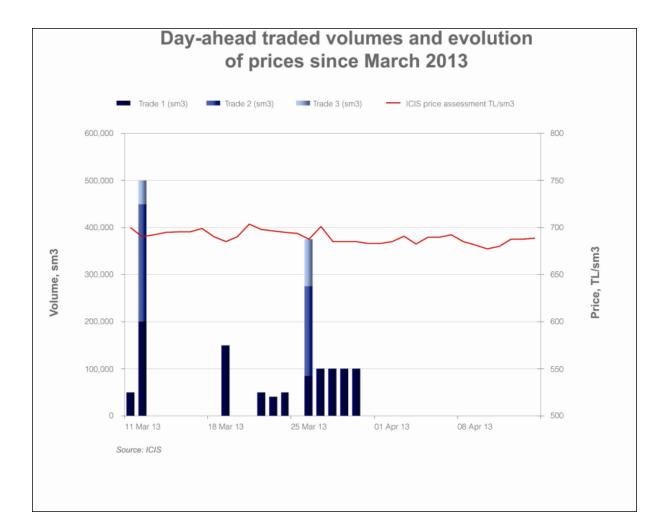


#### Market activity reported to ICIS since January 2013 The balancing "market"



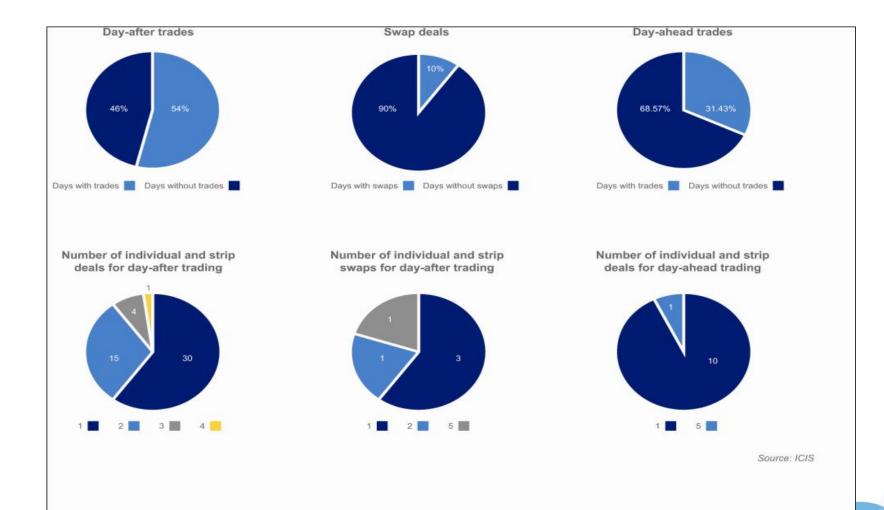


#### Activity reported to ICIS for the day-ahead market





### Types of reported trades and swaps





### **External and internal challenges**

Security of supply concerns caused by internal technical constraints and regional political volatility which may affect steady and reliable gas flows

Existence of cross-subsidies which causes losses and hampers the liberalisation of the market

**Opaque price formation** 

Infrastructure constraints related to collection and publication of data

The retention of stamp tax – 0.948% of the value of any concluded deal. It is proving a serious stumbling block to the development of the OTC market



#### **Expected market developments**

- The creation of a balancing market that would establish a daily price. The regulator considers including a price floor and price ceiling to prevent manipulation attempts
- Creation of a day-ahead market on the newly-established EPIAS
- Ongoing amendments to the Network Code
- Further contract or volume releases from the BOTAS portfolio
- Improvements to the Electronic Bulletin Board although the new infrastructure may prove controversial



#### **Current and prospective electricity interconnections**





#### **Current and prospective natural gas pipelines**



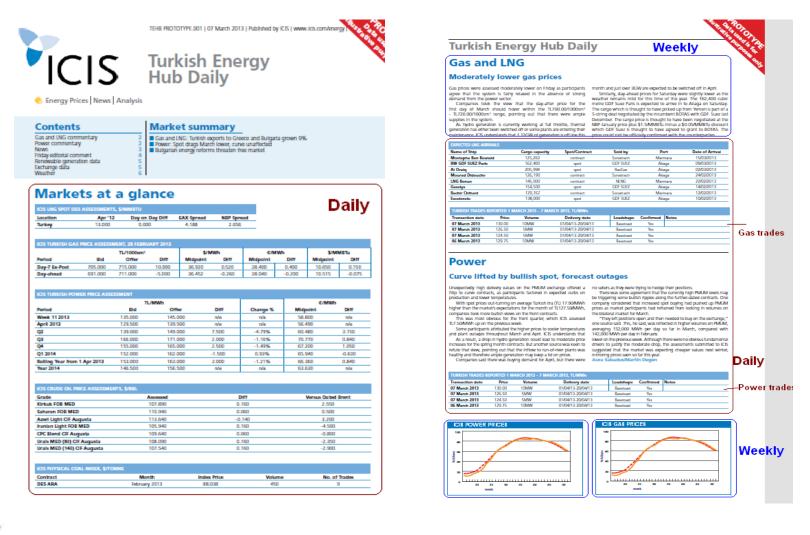


# **Pondering the future**

- ACHIEVEMENTS:
- Turkey has made visible progress in privatising and liberalising its energy sector
- It is determined to create a southern counterbalance to the liquid northwest European energy markets
- It has ambitions to expand its influence in its hinterland and aspires to create a "Middle Eastern Union" underpinned by pragmatic interests
- QUESTIONS:
- Is it prepared to relinquish grip on the politically-driven gas sector in favour of the gas sector?
- Is it prepared to enact bold measures such as phasing out subsidies and stamp duty?
- What will be the palpable effects of the expanding influence of a Turkish energy hub?



#### Bringing transparency to the market – Turkish Energy Hub Daily (TEHD)



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#### Turkish Energy Hub Daily at a glance

#### **Turkish Energy Hub Daily**

#### Comment

#### Fortnightly

#### Are regulated markets a valid model?

With European economies in a funk after the 2008 financial meltdown 20 companies licensed to import LNG none could do so because the stricter regulated markets

highly topical issues. Yet, although the government recognises the need tangible proof of its ability to introduce sweeping reforms by overhauling for a liquid electricity and gas markets, it also fears implicit security of Its health care which is now pursuing medical excellence. Similar reforms supply risks at a time when energy inflows are a prerequisite for its strong must be enacted in the energy sector at all cost. economic growth.

as well as LNG from Algeria and Nigeria, but last year's winter crisis when terminals, a more secure electricity transmission and distribution systems. that the energy sector was in need of reform if Turkey was serious about to attract their inferest, Turkey must create viable markets where tracing meeting its scaring demand.

The orbis highlighted the fact that only a flexible and efficient system demand and supply logic rather than government intervention. In this based on private initiative could offer a fitting solution to demands context it is important that Turkey scrap a cumbersome stamp duty that stemming from high demand, substantial investment needs and political represents 0.94% of the value of any concluded deal. Such taxes may challenges

to 87bilion cubic metres annually and its electricity consumption to The real opening up of markets and the creation of a competitive grow at a minimal annual rate of 6%. The diversification of the fuel mix business environment would help to transform Turkey's energy sector for power generation by encouraging nuclear, renewable and lignite and from one dominated by political uncertainty to one driven by private production will help the country not only to respond to growth, but also initiative. Private enterprise is by nature creative and open-minded in its to spread the risk stemming from overreliance on natural gas. However, pursuit for profit. A flourishing private sector can help Turkey to build arguing that Turkey can move away from hydrocarbons at a time when strong links with neighbouring regions and help to buffer it from the East and Cappian regions would mean to turn a blind eye to the vast creation of an integrated Turkish-Caspian-Middle Eastern-European potential that Turkey could tap into. For that reason, Turkey's gas sector energy market should be a long-term goal for Turkey. must be oven special attention and private domestic and foreion Rhally, the creation of a competitive market environment driven growth, Turkey could become Europe's largest importer of LNG. The fuel unfitting straitjacket. could have offered a quick and efficient relief when the pipeline system

the question that arises is whether markets unbridied by government current cross-subsidies system places BOTAS in a position to undercut any Intervention can still offer a valid model. After all the battered image private players and offers them few incentives to take active positions. of government-rescued banks and the deep recession triggered by Gwing free rain to the private gas sector would involve establishing an the debt crisis in the western world come in sharp contrast with effective environment by eliminating the cross-subsidies system and the consolidation of state-owned champions and the emergence of creating a lean and efficient incumbent which can compete on a level playing field with all other private participants. The scrapping of cross-The question is expedially pertinent for Turkey and in particular with subsidies is undoubtedly a difficult task and will largely depend on parallel regards to its energy sector where privatisation and liberalisation are now reforms in the welfare system. However, Turkey has already offered

Offering real support to the private energy sector would also attract supplies dropped to critical levels causing a string of blackouts proved The cash can only come from domestic and foreign investors. In order happens unencumbered by burdening taxes and according to the have the short-term benefit of replenishing government coffers, but the

new oil and gas resources are coming on stream in neighbouring Middle political volatility that emerges as a result of inter-state dynamics. The

companies should be given free rein to invest in anything ranging from by private initiative will be the natural corollary of the Turkish trading imports to intrastructure. With a unique geography and high economic acumen. Hampering it would mean to place a nation born to trade in an

became critically tight last winter. However, although there were nearly

The diamma is best reflected in the government's heatant approach substantial investments at a time when Turkey needs up to €132bn by recarding the elimination of the subsidies astern which holds captive 2030 to expand its electricity and gas infrastructure. Turkey has already nearly three quarters of the gas sector, half of the electricity market and managed to privatise large swatters of gas and electricity distribution cause state-owned energy companies to lose cash. BOTAS, the state gas networks as well as offload state-owned generation. However, there is incumbent has managed to secure volumes from Russia, Iran, Azerbaijan evident need for new pipelines, compressor stations, gas storage, LNG

**Power Plant Outages** Daily

**Turkish Energy Hub Daily** 

				Shutdow			
Plant	Company	Unit	Fuel	Start	End	Notes	
Bergkamen	RWE	717	Coal	08-Apr-13	11-Apr-13	Boller maintenance	
Dormegen	RWE	586	Gas	19-Apr-13	29-Apr-13	Maintenance	_
Frimmensdorf Q	RWE	278	Lignite	17-Apr-13	03-Jun-13	Maintenance	
Genteinwerk F	RWE	410	Gas	02-Apr-13	10-May-13	Maintenance	
Genteinwerk G	RWE	410	Gan	01-Apr-13	03-Sep-13	Maintenance	

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# Thank you!

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