

Recent developments in Turkish Natural Gas Market

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`The interpretations, estimates and/or opinions reflect the judgment of the authors, not the Company`





Overview of Türkerler Group

Construction



Contract Work

Real Estate Development

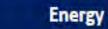
Water & Infrastructure

Cement

Highlights

- A leading brand in the construction business
- Pipeline of A+ real estate development projects
- · Significant growth potential for infrastructure

International Alliances
OTV International, a Veolia Water company





Generation

Distribution

Trading

Highlights

- 145 MW of power plants to be operational by '14
- 532.000 power distibution customers
- 510.000 gas distribution customers in İzmir

International Alliances Crescent Petroleum

Public-Private Partnership



Healthcare

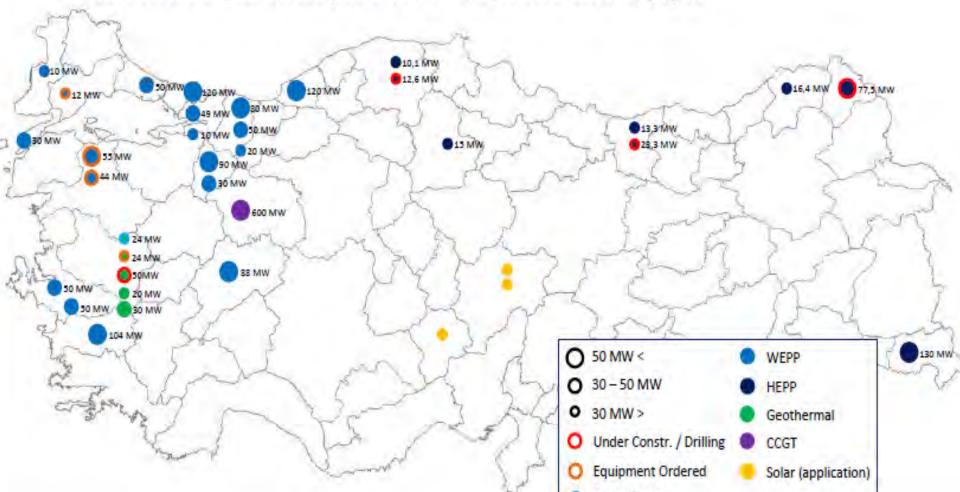
Highlights

- Won the tender for Turkey's first and largest PPP
- Ankara, İzmir, Kocaeli healthcare campus projects

Local & International Alliances Astaldi SpA, Gama Holding

Generation

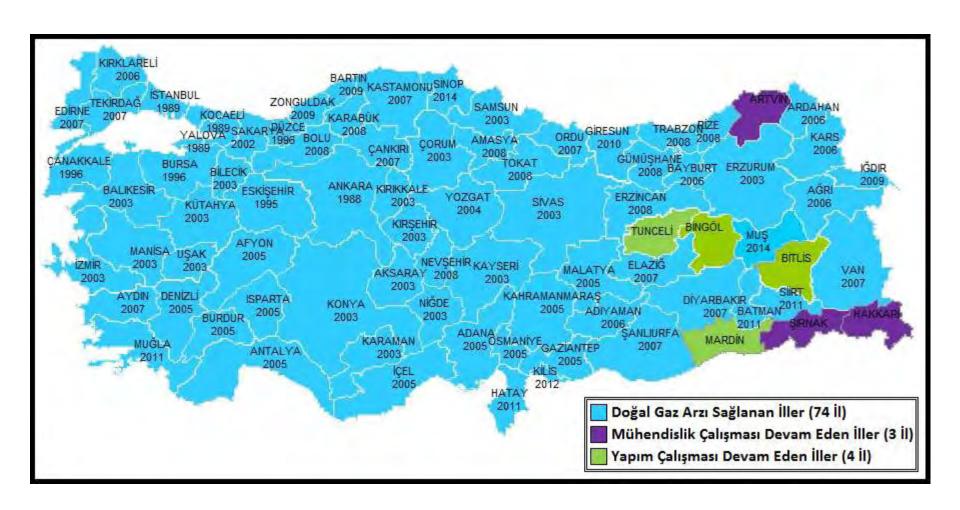
- One of the largest and most diverse power generation project portfolios in Turkey
 - 1.062 MW of WEPP, 600 MW CCGT, 300 MW of HEPP and 250 MW of Geotermal projects



Turkey Natural Gas Transmission System

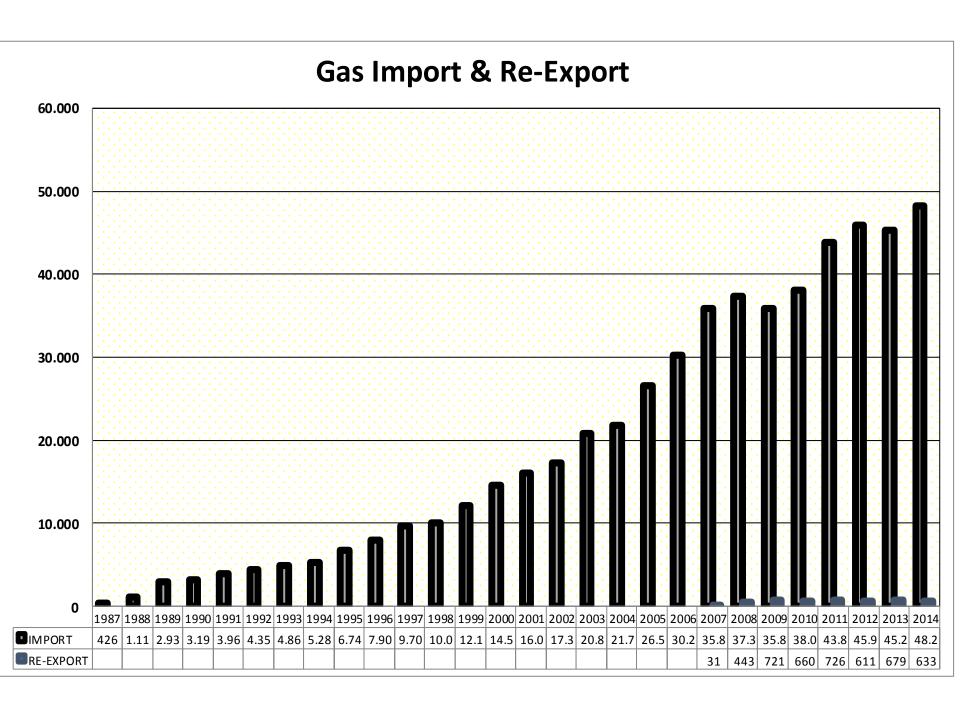


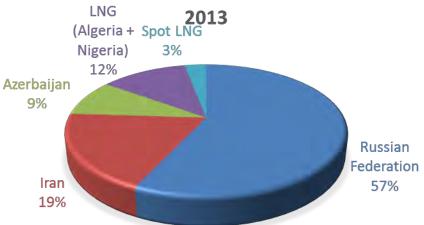
TRANSMISSION SYSTEM								
	2009	2010	2011	2012	2013			
PIPELINE DISTANCE (KM)	11332	11593	12174	12290	>13092*			
NUMBER OF COMPRESSOR STATIONS	8	8	7	7**	9**			
FISCAL METERING STATINS (ADET)	8	9	9	9	9			

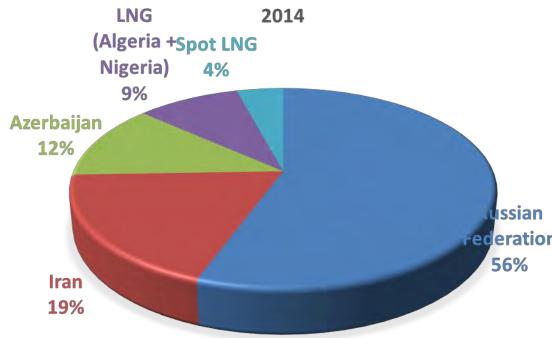


GAS IMPORT CONTRACTS

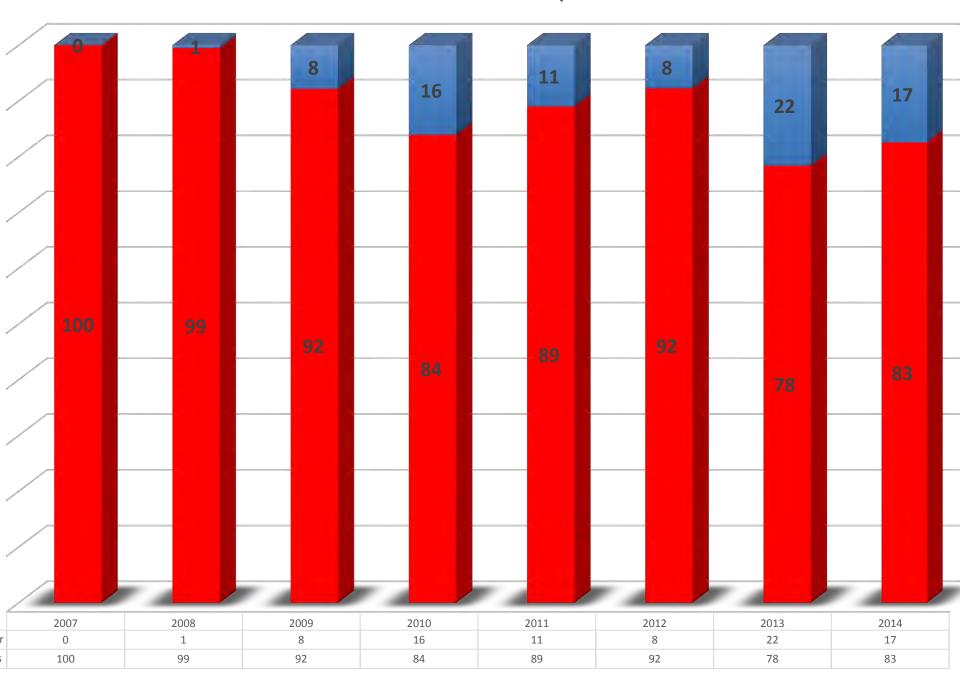
	BOTAS			PRIVATE	IMPORT	ERS
•	Russia Western Route	4.0 BCM	•	Enerco	2.5	BCM
•	Russia Blue stream	16.0 BCM	•	Bosphorus	2.5	BCM
•	Iran	10.0 BCM	•	Akfel	2.25	BCM
•	Azerbaijan S.D.1	6.6 BCM	•	Avrasya	0.5	BCM
•	Azerbaijan S.D.2	6.0 BCM	•	Batı Hattı	1.0	BCM
•	Algeria	4.0 BCM	•	Kibar	1.0	BCM
•	Nigeria	1.2 BCM	•	Shell	0.25	BCM
			•	Socar	1.28	BCM
	TOTAL	47.8 BCM		TOTAL	10.0	ВСМ



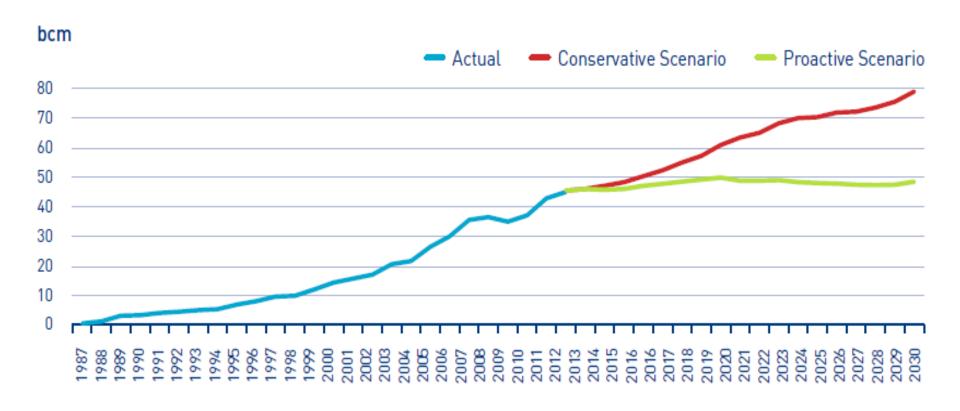




Market Share of Private Importers



TURKEY NET GAS IMPORTS



...expected to increase by ~70% between 2012 and 2030 (CS), ... approximately the same level (a few bcm higher) in the PS

Source: OME MEP Turkey Presentation by Sohbet Karbuz

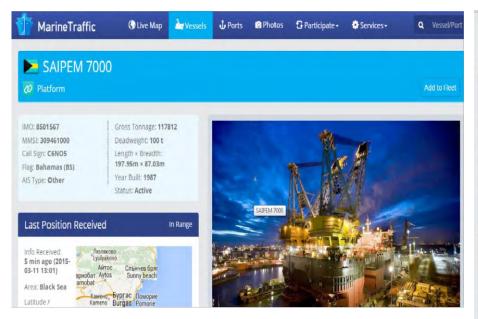


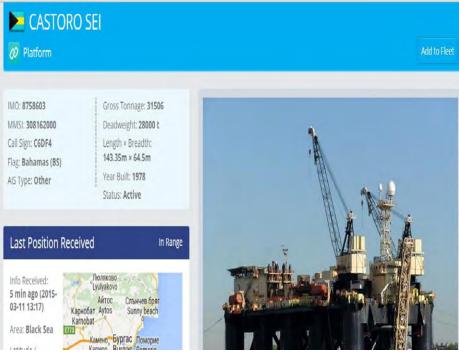


TURKISH STREAM

Conditions of Turkish Stream:

- The steel required for the first line under the Black Sea has been procured from Russian steel mills is being stocked at Varna, Bulgaria.
- As of March 11, 2015, the two pipe-laying vessels hired by Gazprom Saipem's Saipem 7000 and Castoro Sei - were both off Burgas. Saipem said in December 2014 it had received "notification of suspension of marine spread activities" for the South Stream pipeline ... contract."
- If built, the first phase would likely be one or two of the four lines. These would allow reversal of the Balkan-Turkey lines and supply of 5 Bcm/year to (an expanded) TAP



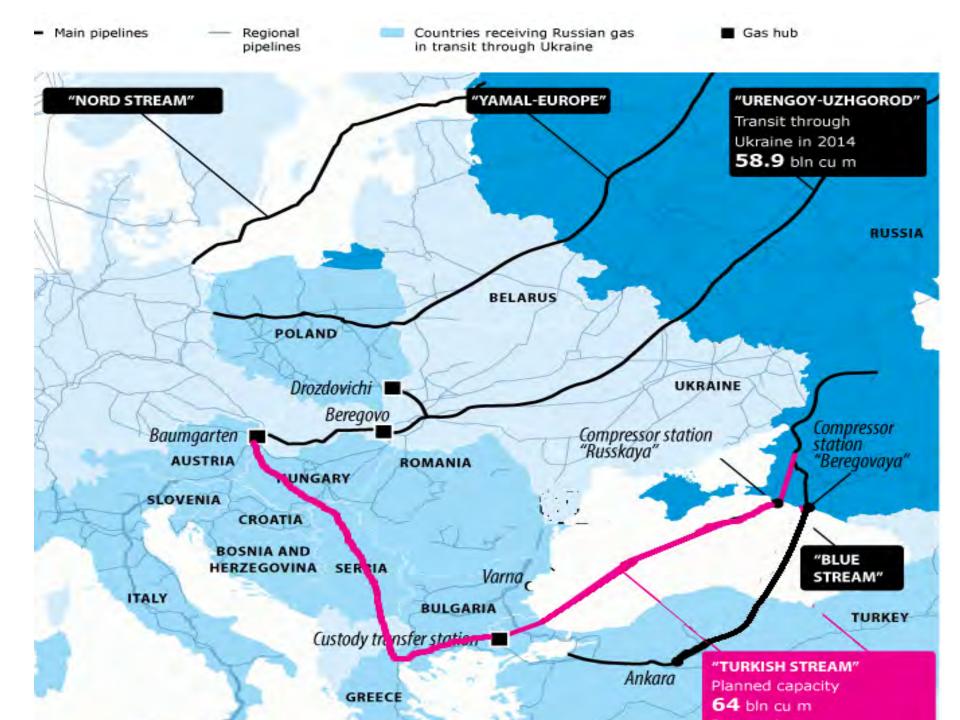


Next Steps: To start construction, Turk Stream requires:

- 1. Signature of an intergovernmental and host government agreements between Russia & Turkey tax treatment et
- 2. Surveying of the new part of the offshore route 260 km
- 3.Agreement on the landfall and route in Turkey c 50 kms to BOTAS main line then 150 kms to Ipsala or Bulgarian border
- 4. Agreement between Gazprom and BOTAS on transit terms
- 5.Engineering studies and preparation and approval of the environmental impact assessment study Achieving these by end-2016 the date mentioned by Miller would be a success: the first phase of Turk Stream seems unlikely.
- For other strings, Gazprom needs the approval of its customers in Europe to change where they receive gas.

SOURCE: IBS Research and Consultancy, Istanbul Turkey

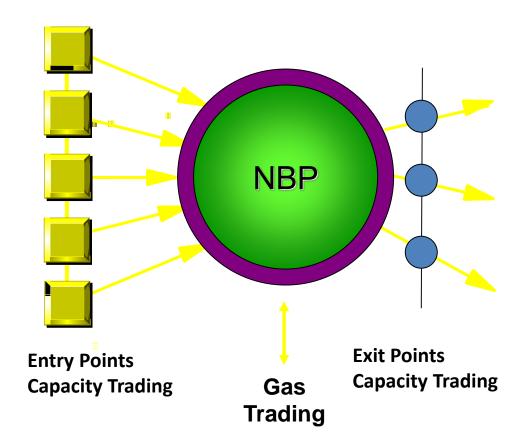






BCM	Russia	Azerbaijan	Iran	Total Contract	Spot LNG	KRG	Russia Additional	Azerbaijan	Domestic Production	Total Supply	Demand
2015	29,5	6,5	9,4	5,6	1,5	-	-	-	0,6	53,1	51
2016	29,5	6,5	9,4	5,6	2	-	1	-	0,6	54,6	52,5
2017	29,5	6,5	9,4	5,6	2	-	2	-	0,6	55,6	54
2018	29,5	6,5	9,4	5,6	2	1	2	1	0,6	57,6	56
2019	29,5	6,5	9,4	5,6	2	2	2	4	0,6	61,6	58
2020	29,5	6,5	9,4	5,6	2	3	3	5	0,6	64,6	59

BALANCING REGIME Virtual Points, Entry-Exit

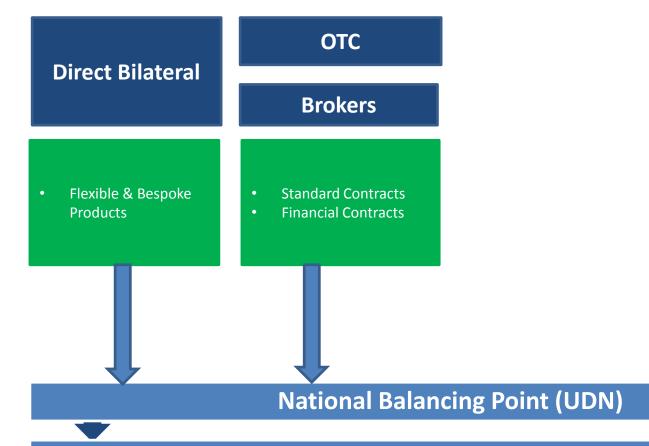


NBP a "virtual point" between entry and exit

150

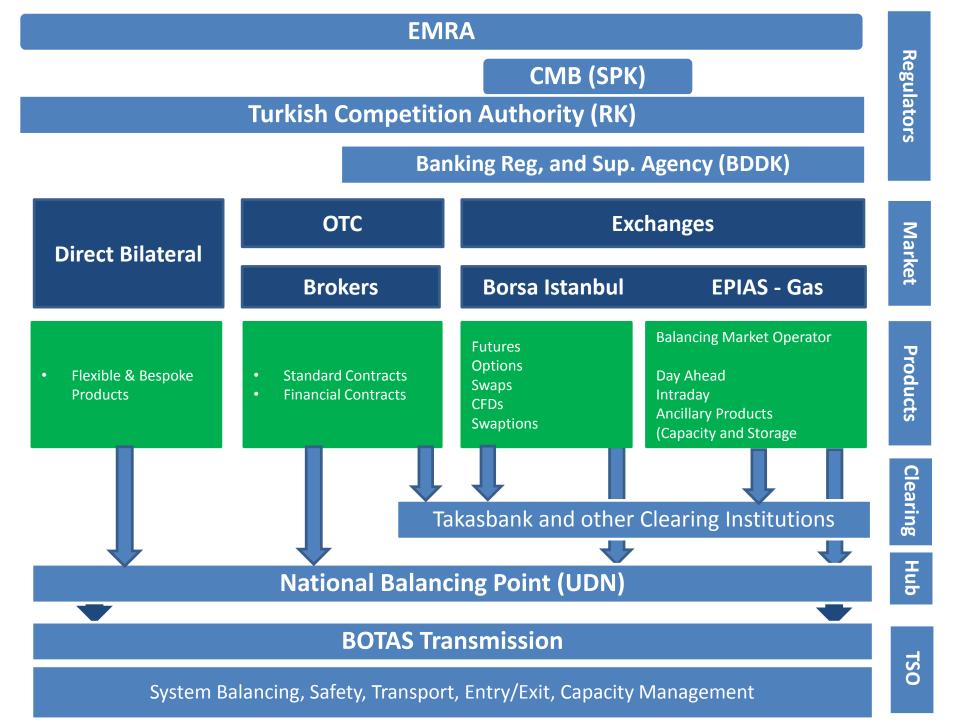
Turkish Competition Authority (RK)

EMRA



BOTAS Transmission

System Balancing, Safety, Transport, Entry/Exit, Capacity Management



THANK YOU

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