

# Gas Trade in Turkey and Future Opportunities

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### **About PETFORM**



Established in 2000, PETFORM has played a crucial role in the transfer of private sector views to the public authorities regarding to Turkish energy legislation amendments. Member companies mainly have activities in 2 sectors:

- Exploration & Production Sector
- Natural Gas Market

## **Member Companies**

PETFORM

- AKENERJİ
- AKMERCAN ENERJİ
- AKFEL
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- ALPIQ
- ALADDIN MIDDLE EAST
- ANGORAGAZ
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- SHELL ENERJİ
- SHELL UPSTREAM
- SISECAM ENERJI
- SOCAR
- TBS PETROL
- TEKFEN
- THRACE BASIN
- TOTAL
- TRANSATLANTIC PETROLEUM
- TURCAS
- VALEURA ENERGY
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- ZORLU ENERJİ

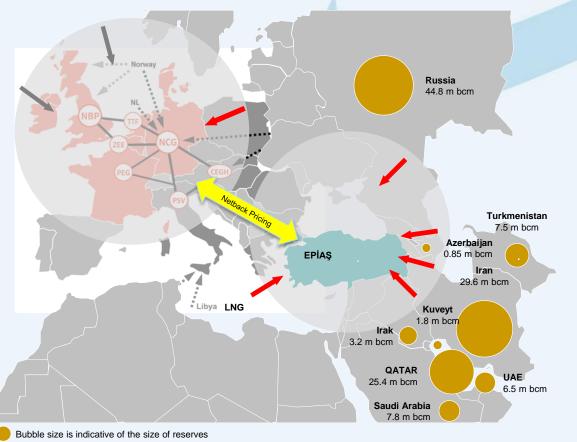
## **Natural Gas Demand Projection**





# Integration of Turkey with European Gas Hubs





- 8 MajorEuropeanTrading Hub
- Trading on OTC's via Brokers
- Trading on Energy Exchanges

If Turkey can make necessary structural reforms, Turkish natural gas market will be integrated with European trading hubs and generate reference price for natural gas trade in the region.

# Prerequisities for Liquid Wholesale Market



#### **Physical Infrastructure**

- Very well developed and maintained physical infrastructure
- No rectrictions and congestions to meet peak demand
- Cross border capacity development with minimum congestion
- New storage and LNG facilities for supporting supply security to seasonal and peak demands

#### **Regulatory Framework**

- -Policy drafting regulatory body should understand the real Dynamics of the Energy, TPA, Network Code, Independent TSO etc.
- Implementation of policies via EU directives.
- Monitoring of wholesale market integrity, competition (antitrust) and effective consumer interest protection is needed for competition
- -Unbundling of transmission and counteraction of incumbets' vertical dominance

#### Independence of Transmission System Operator

- -Appropriate capacity-booking model (entry/exit model, use it or loose it principle)
- Effective balancing mechanism
- Effective nomination processes
- Publicizied imbalance charging structures (not overly punitive)
- -Very well integrated storage injection and withdrawal processes to the transmission system
- -Transparent tariffs for system entry and exit

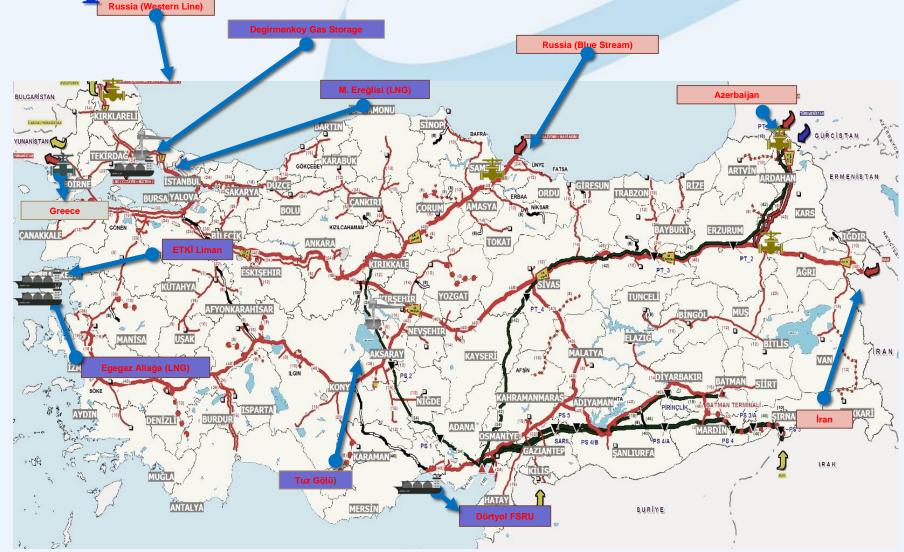
#### **Commercial and Market Conditions**

- -Formation and active promotion of common pricing reference
- Free day ahead and intraday price assessment mechanism
- Standart and commonly expected physical contracts
- No barrier for new entries
- No destination clauses
- Transparent price-discovery mechanisms / platforms ,functioning forward market
- -Good synchronization between balancing, nearby and forward markets
- -Stable financial and credit envrironment and mechanisms



# Domestic Gas Infrastructure Map





# **Gas Entry Capacity**

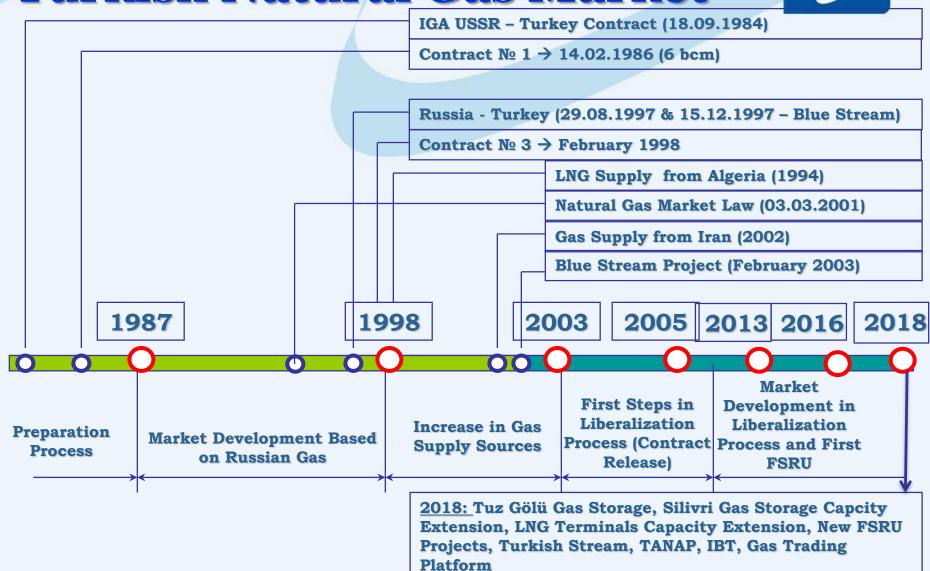


ENTRY POINTS	2017	2018	2019	2020	2021	2022	2023
MALKOÇLAR-BALKAN	51,4	51,4	51,4	14,7	14,7	14,7	14,7
DURUSU-BLUE STREAM	48	48	48	48	48	48	48
GÜRBULAK-İRAN	28,5	28,5	28,5	28,5	28,5	28,5	28,5
TÜRKGÖZÜ-SHAHDENİZ	19	19	19	19	19	19	19
ESKİŞEHİR-TANAP	0	5,7	11,3	14	16,4	16,4	16,4
TRAKYA-TANAP	0	0	0	0	8,2	8,2	8,2
KIYIKÖY-TURK STREAM	0	0	0	46,9	46,9	46,9	46,9
M. EREĞLİSİ LNG	22	37	37	37	37	37	37
ALÍAĞA LNG	24,5	40	40	40	40	40	40
ALİAĞA FSRU	20	(20) 14,1	14,1	14,1	20	20	20
SAROS FSRU	0	20	20	20	20	20	20
DÖRTYOL FSRU	0	20	20	20	20	20	20
AKÇAKOCA-TP	0,36	0,36	0,36	0,36	0,36	0,36	0,36
GELİBOLU-MARSA	0,42	0,42	0,42	0,42	0,42	0,42	0,42
K. MARMARA	25	25	25	50	75	75	75
TUZGÖLÜ	13	20	20	30	80	80	80
TOTAL	252,18	329,48	335,08	382,98	474,48	474,48	474,48

**Source: BOTAŞ** 

# Development Process of Turkish Natural Gas Market





**Source: PETFORM** 

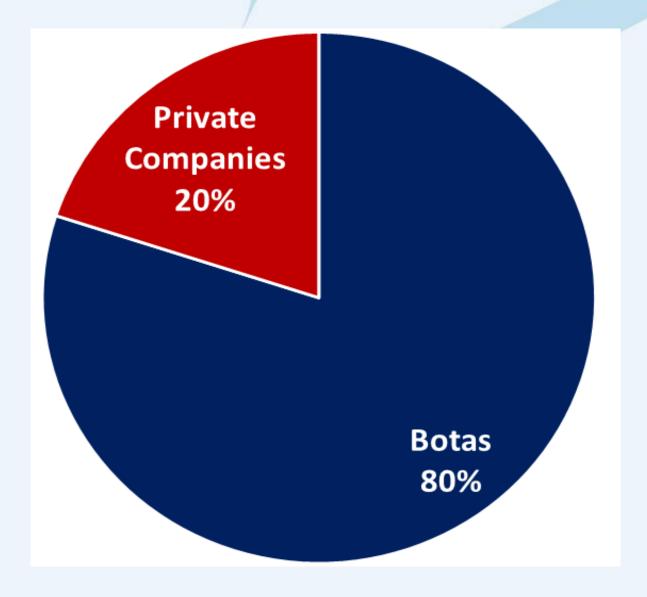
# **Private Players' Entrance** into the Market



<b>Contract Releas</b>	e (2007)	Contract Renewal (2013)			
Enerco Enerji	2.50	Akfel Gaz	2.25		
BosphorusGaz	0.75	BosphorusGaz	1.75		
AvrasyaGaz	0.50	Kibar Enerji	1.00		
Shell Enerji	0.25	Batı Hattı	1.00		
4 bcm			6 bcm		
		TR – AZ Agreem	Agreement (2013)		
		SOCAR	1.20		

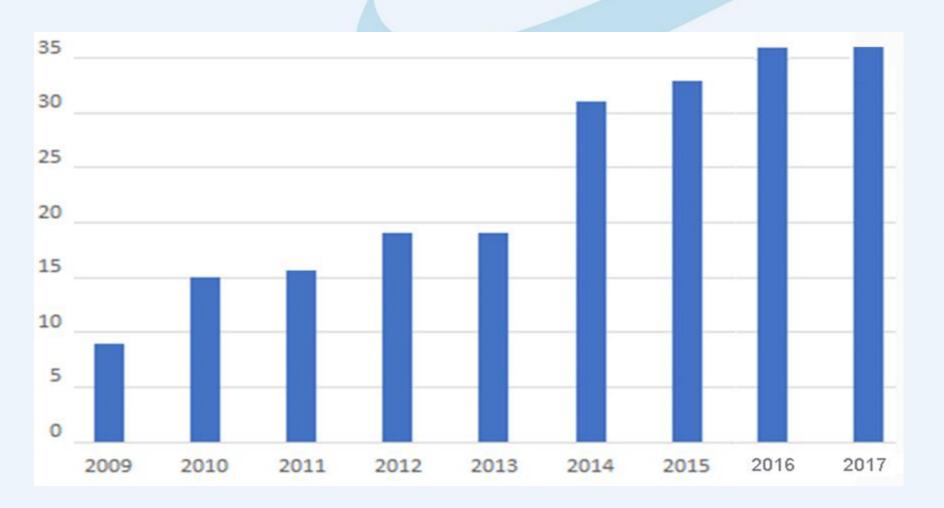
## **Market Shares**





# Number of Private Wholesalers





# **Gas Import Contracts**



Supplier	Туре	Volume (bcm/yr)	Period (years)	Start Date	End Date
Russia (Balkan route)	Pipeline	4	23	1998	2022
Russia (Balkan route)	Pipeline	1	23	2013	2036
Russia (Balkan route)	Pipeline	5	30	2013	2043
Russia (Balkan route)	Pipeline	4	23	1998	2022
Russia (Blue Stream)	Pipeline	16	25	2003	2028
Algeria	LNG	4,4	30	1994	2024
Nigeria	LNG	1,2	22	1999	2021
Iran	Pipeline	10	25	2001	2026
Azerbaijan	Pipeline	6,6	15	2007	2022
Total		52,2		TO THE TOTAL PROPERTY OF THE TOTAL PROPERTY	



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