

ENERGY MARKETS DEVELOPMENT PROCESS AND EXIST

EXIST was established subjects the Floatricity

established subject to the Electricity Market Law No. 6446, Turkish Commercial Code No. 6102 and private law provisions.

Intraday Market (IDM) was opened.

EXIST obtained

Market Operation

License.

Market activities were transferred from PMUM to EXIST.

16

The Transparency
Platform was made
available to the
participants and the
public.

The new Day Ahead Market (DAM) software was launched.

Eligible Consumer Portal was operated.

17

Organized
Wholesale Natural
Gas Market (SGM)
Regulation has been
published.

18

Organized
Wholesale Spot
Natural Gas Market
(SGM) was opened.

EXIST mobile application was launched.

19

The law amendment allowing the Power Futures Market (PFM) to be operated by EXISThas been published.

20

The Natural Gas

Market was opened

for weekly products.

21

23

Power Futures
Market (PFM) was
opened.

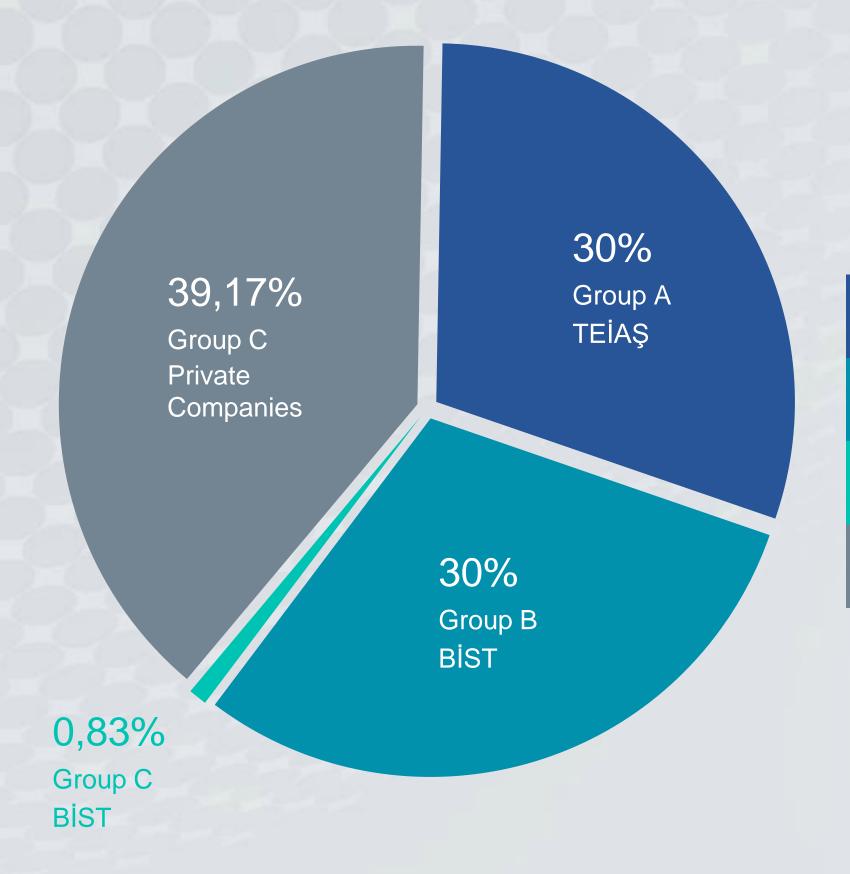
Renewable Energy
Resource Guarantee
(YEK-G) System and
Market was
launched.

Gas Futures Market was opened.

The business development study has been completed within the Exist for the formation of Gas hub.



SHAREHOLDER STRUCTURE



SHAREHOLDERS	GROUP	SHARE QUANTITY	SHARE AMOUNT(t)	PERCENTAG E (%)
Türkiye Elektrik İletim A.Ş. (TEİAŞ)	Α	18.471.831	18.471.831	30,00
Borsa İstanbul A.Ş. (BİST)	В	18.471.831	18.471.831	30,00
Borsa İstanbul A.Ş. (BİST)	С	511.590	511.590	0,83
Private Companies	С	24.117.518	24.117.518	39,17
TOTAL		61.572.770	61.572.770	100,00



MISSION, VISION AND CORPORATE PRINCIPLES

Mission

Efficient, transparent and sustainable operation and development of energy markets.

Vision

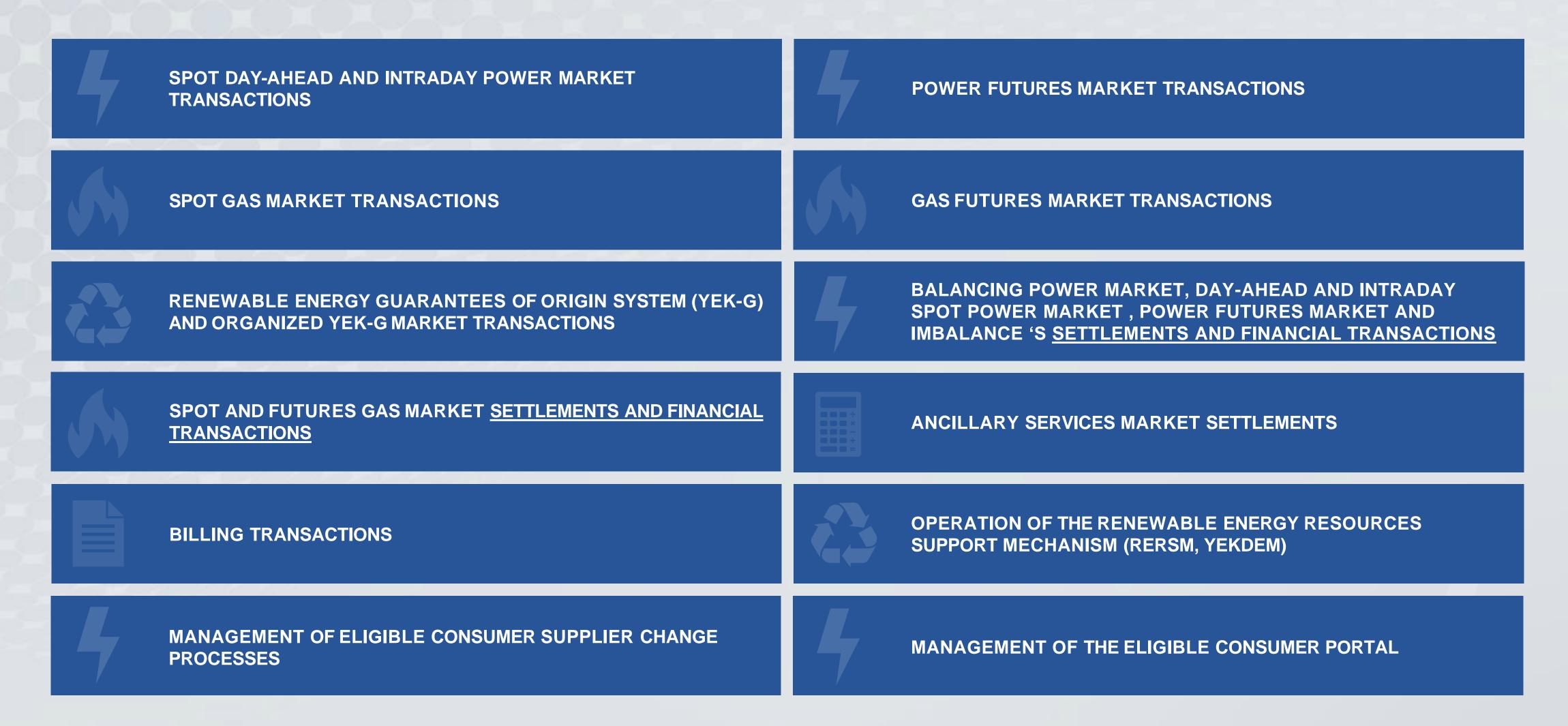
To become a reference energy exchange for global energy markets.

Corporate Principles

Fair Approach	• Reliability	Transparency
Customer Oriented	 Sustainability 	• Participation
 Innovation 	Respect to Employees	Social Responsibility

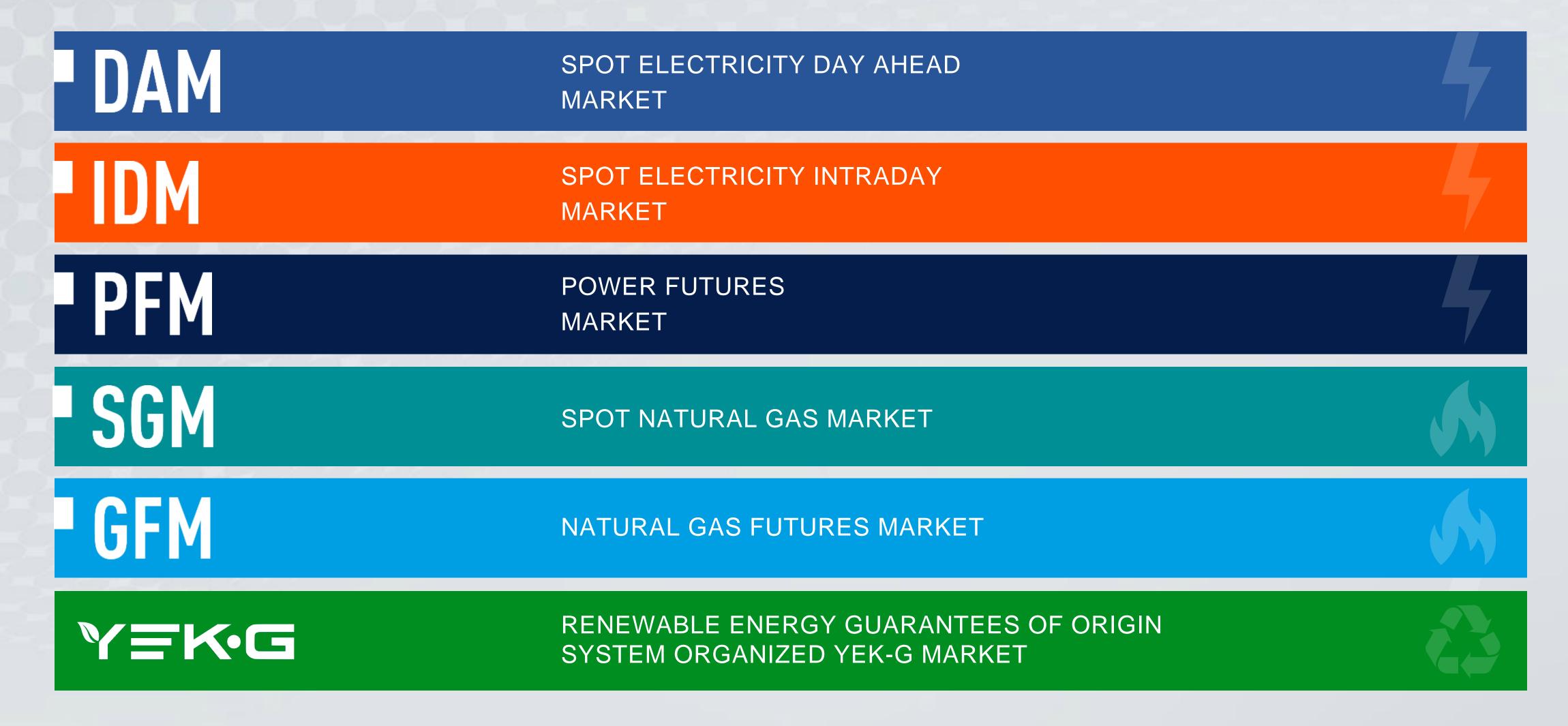


ACTIVITY FIELDS





ENERGY MARKETS





SPOT NATURAL GAS MARKET

The Spot Natural Gas Market (SGM), one of the most important steps taken in the development of energy trade and liberalization of energy markets in Türkiye, was put into service on 1 September 2018.

With the SGM designed and developed by EXIST using domestic and national resources,
Türkiye has become the first country in its region where the natural gas price is formed in the free market.

• SGM is an organized market that works with the logic of continuous trading.

It is a market where contracts
 ranging from 1 day to 7 days are
 offered and the commercial risk
 undertaken can be reduced or
 eliminated.

• The Transmission Company has the opportunity to balance the network on a market basis with the help of SGM.

 EPİAŞ provides central counterparty service to the parties. Physical delivery and payments are guaranteed.



 Current weighted average gas prices (GRF) in the market are shared instantly.

 SGM contracts are traded in the organized market and can change hands continuously until the delivery period.

• SGM contracts are subject to the legal regulation determined by EMRA and are exempt from stamp tax.



NATURAL GAS FUTURES MARKET

Achieving, one after another, its respective goals intended to develop products and services for competitive, transparent, reliable, predictable and sustainable markets in all areas of energy trade, EXIST has most recently

introduced Natural Gas Futures Market (GFM), opened for live transactions on 1 October 2021, as a new addition to the energy markets that provide service in accordance with international standards.

 It is an organized market where market participants can trade natural gas futures with physical delivery.

 EPİAŞ provides central counterparty service to the parties. Physical delivery and payments are guaranteed.

GFM provides the environment for faster forecasting and more accurate determination of natural gas price.

 GFM contracts are traded on the organized market and can change hands continuously until the delivery period. • It provides market participants with the opportunity to predict the future price of natural gas and hedge against price risk.

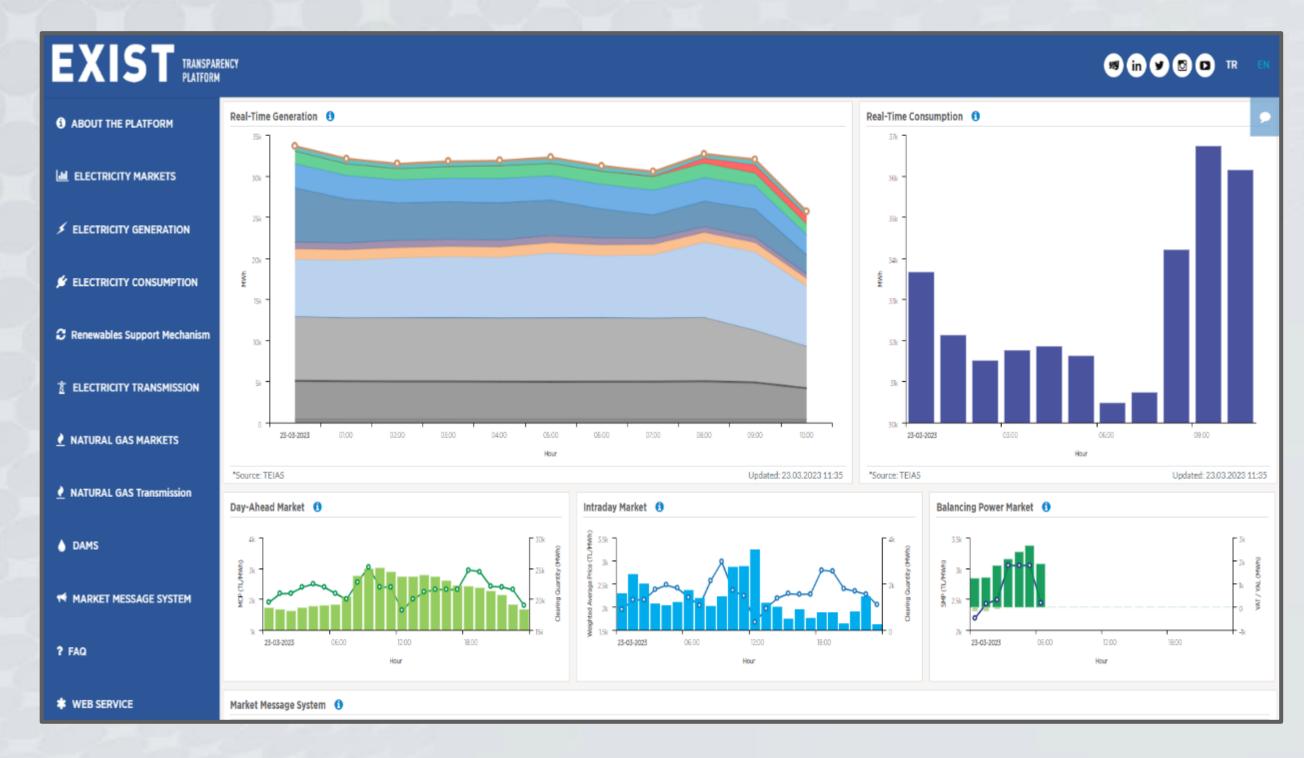
Market participants can trade for Monthly, Quarterly and yearly products.

GFM ensures that risks are minimized by taking a reverse position against price changes.

GFM contracts are regulated, exempt from stamp duty.



TRANSPARENCY PLATFORM



DATA CATEGORY	DATA NUMBER
Power Markets	58
Power Generation	6
Power Consumption	15
RESS	16
Power Transmission	10
Gas Transmission	13
SGM	26
GFM	6
Dams	8
Market Message System	1
TOPLAM	159

With the awareness that transparency has an important place for a reliable and sustainable market, EXIST, offering the Transparency Platform to the use of participants and the public in 2016, continuously increases the quality and quantity of the data published on this platform. The Transparency Platform continues to serve in line with the goal of publishing all market-related data from a single center in a fast, reliable, continuous and healthy manner.

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PRODUCTS AND QUANTITIES IN OUR GAS MARKET

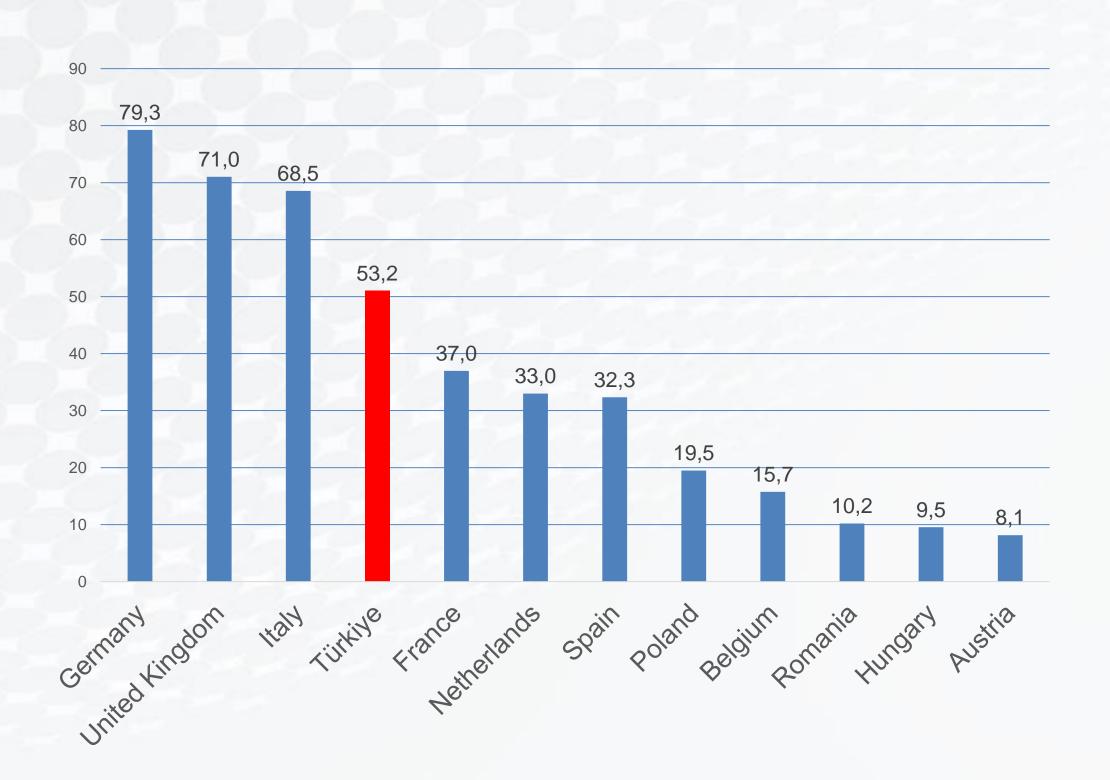
SPOT	DAILY • Day Ahead • Intra Day • After Day Price • Regional		Daily Reference Price	TSO Balancing Price
	WEEKLY	WeekendWeek DaysWhole Week	Balancing Gas Price	Weekly Reference Price
FUTURE	MONTHLY (12 QUARTERLY		Base Price	Daily Reference Price
	YEARLY (1)			

^{*} There are 53 market participants in the spot market and the number of traders is 21.

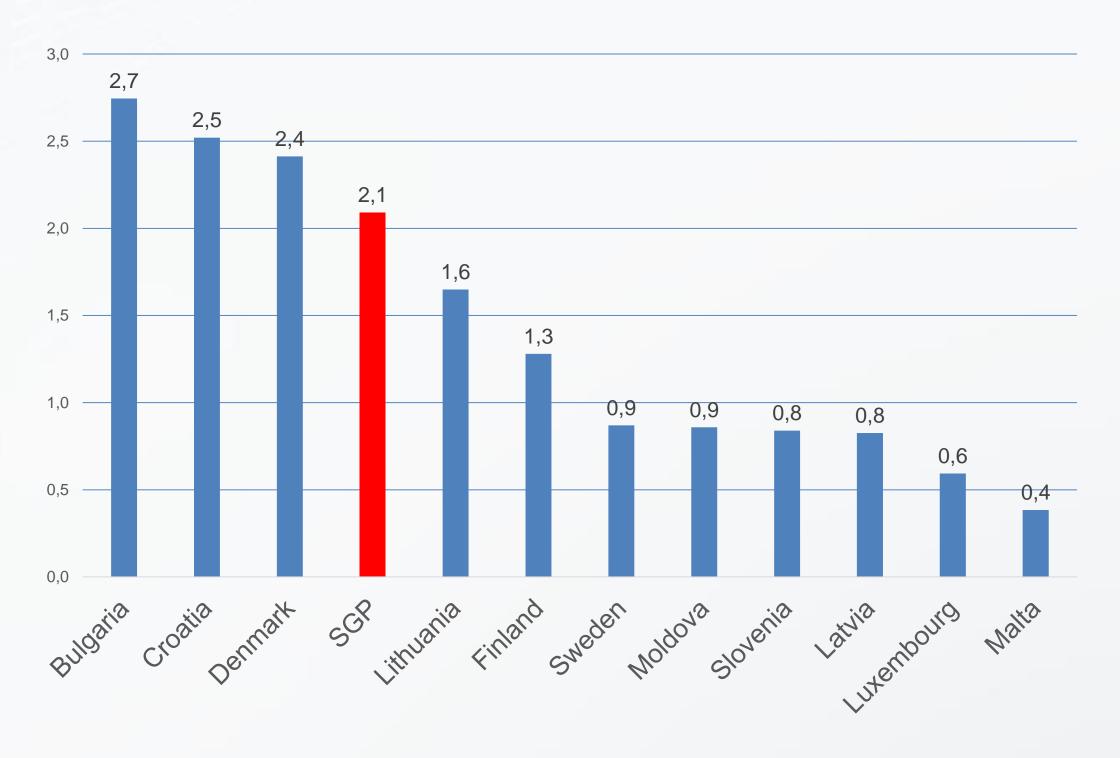


EU COUNTRIES AND TURKIYE GAS CONSUMPTION

Gas Consumption (bcm) 2022



SGM Transaction Volume & Gas Consumption of Some Countries in 2022 (bcm)

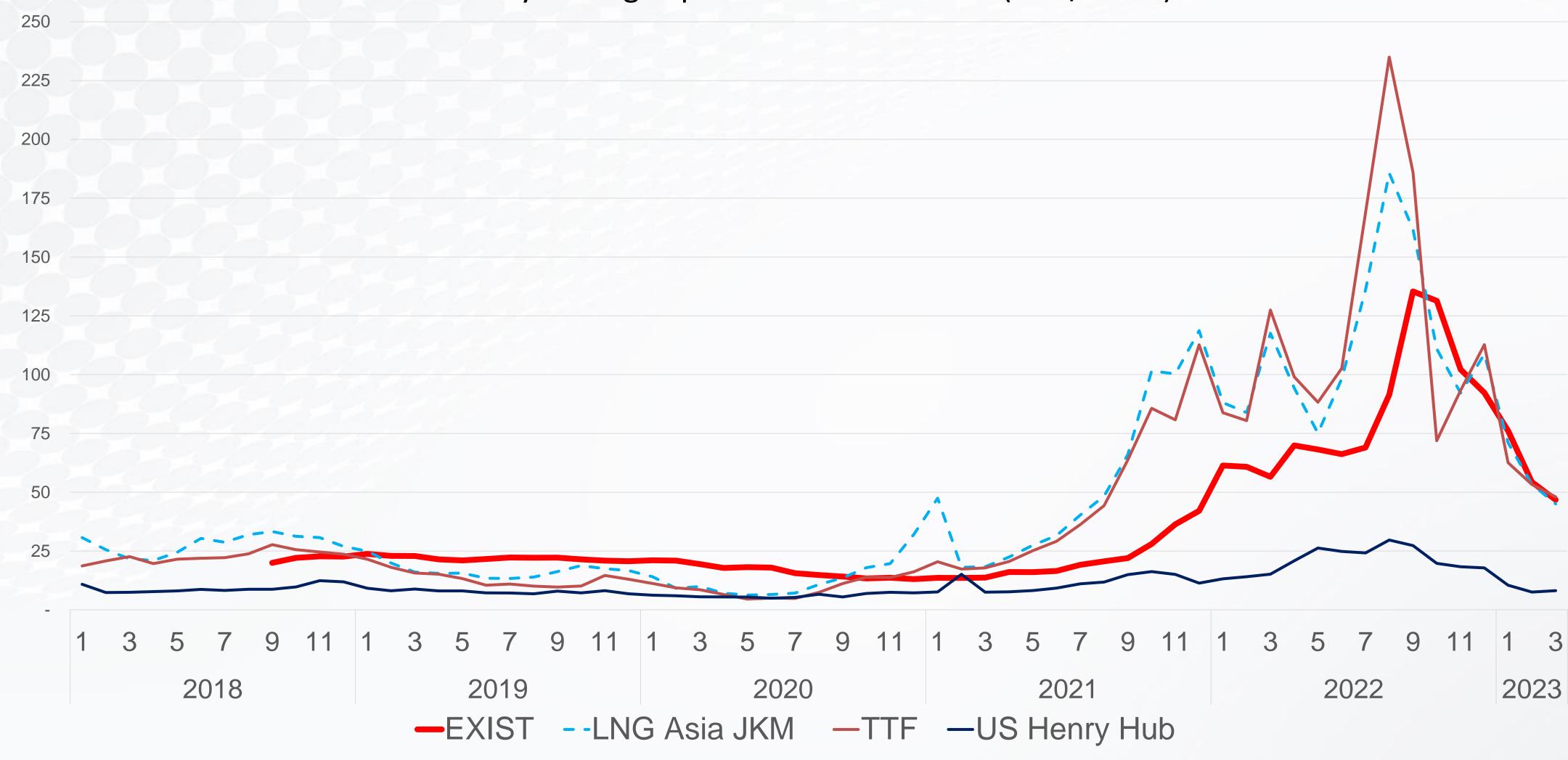


Resource: Jodidb.org



SPOT PRICES

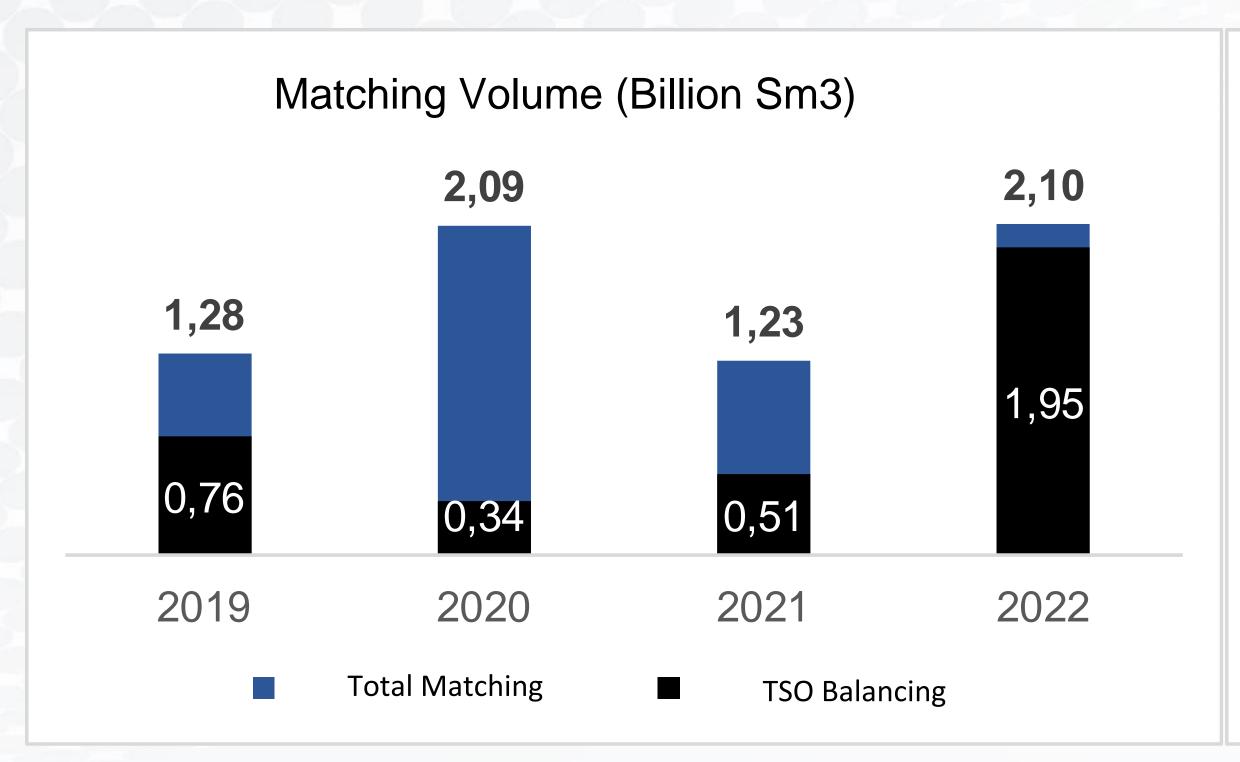
Monthly Average Spot Natural Gas Prices (EUR/MWh)

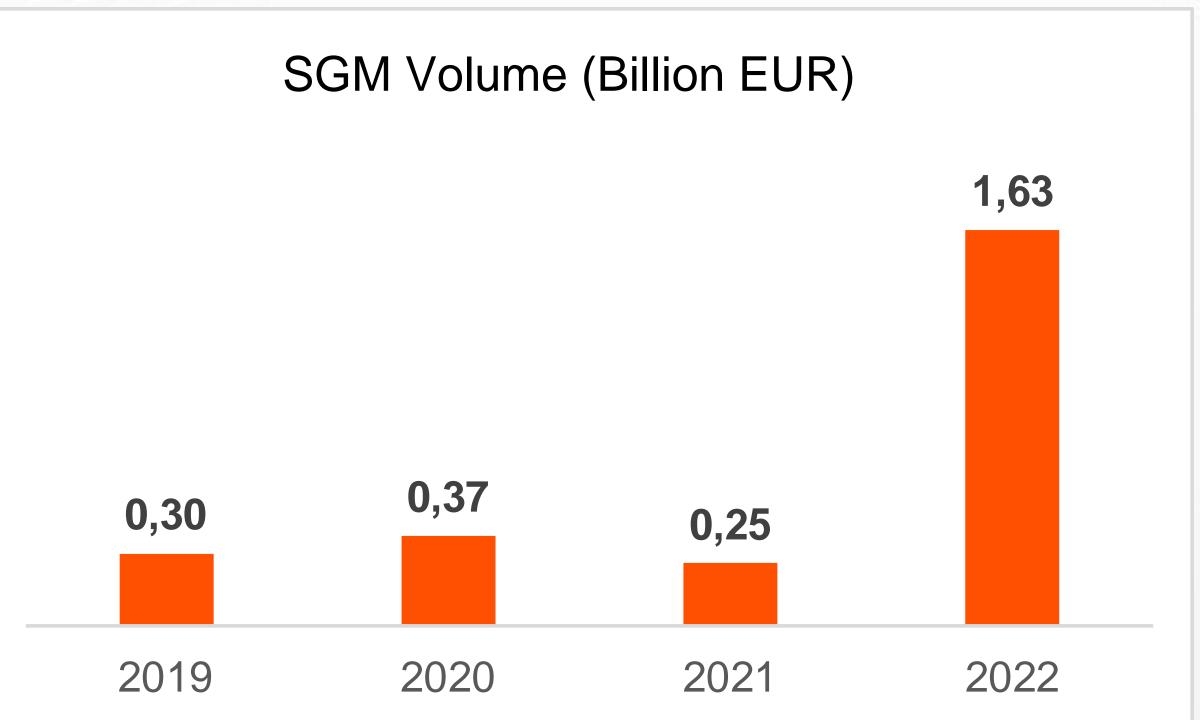




Resource: Energymarketprice.com

TRADING VOLUME





Since September 1, 2018, 7.3 bcm of matching to 2.7 billion EUR have been realized.

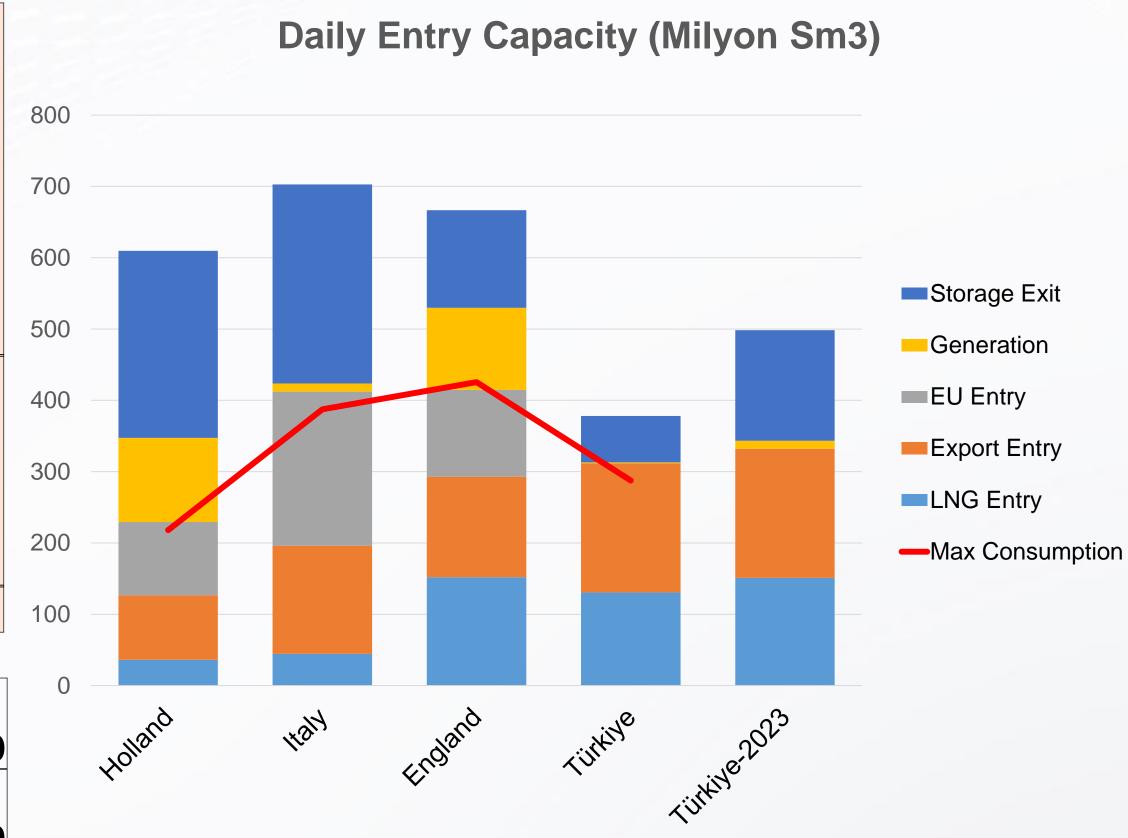


PHYSICAL DATA OF NATURAL GAS HUB (2022)

Mil	lion	Sm3/	Day

Willion Official					
	Holland	Italy	England	Türkiye	Türkiye-2023
LNG Entry	70	47	152	131	151
Export Entry	91	154	141	181	181
EU Entry	80	109	0	_	
Production	112	9	100	1	11
Send-Out	262	274	0	65	155
TOTAL ENTRY	614	594	392	378	498
EU Exit	292	63	0	15	
Max Consumption	167	376	349	288	
Send-Out	132	160	0	42	
TOTAL EXIT	590	598	349	344	

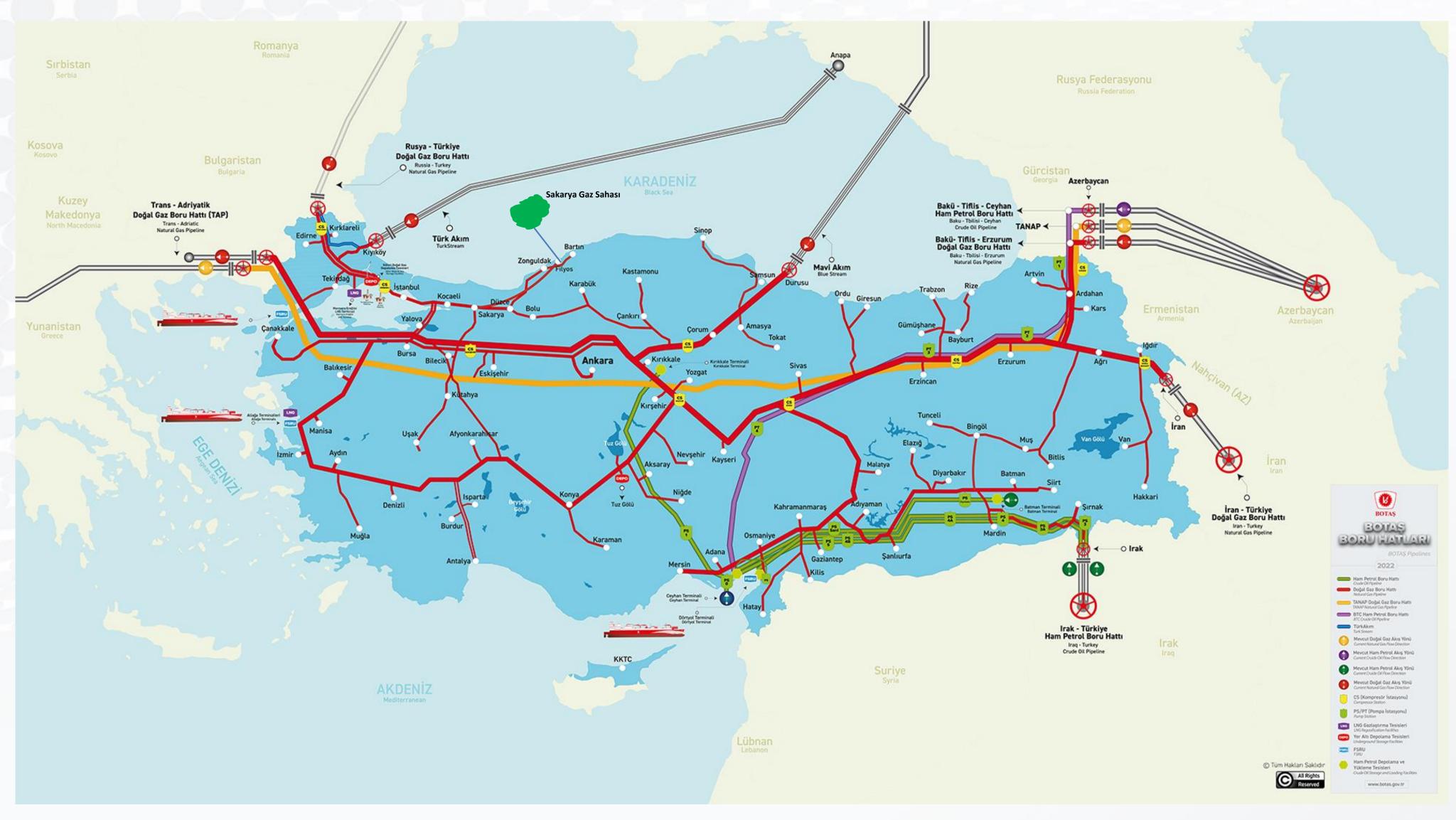
Total Gas Consumption				
(Billion Sm3)	36	75	80	59
Storage Capacity				
(Billion Sm3)	12	18	1.5	10
Electiricity Installed				
Capacity (MWe)	18.530	44.614	0	25.295



ENTSO-G System Development Map



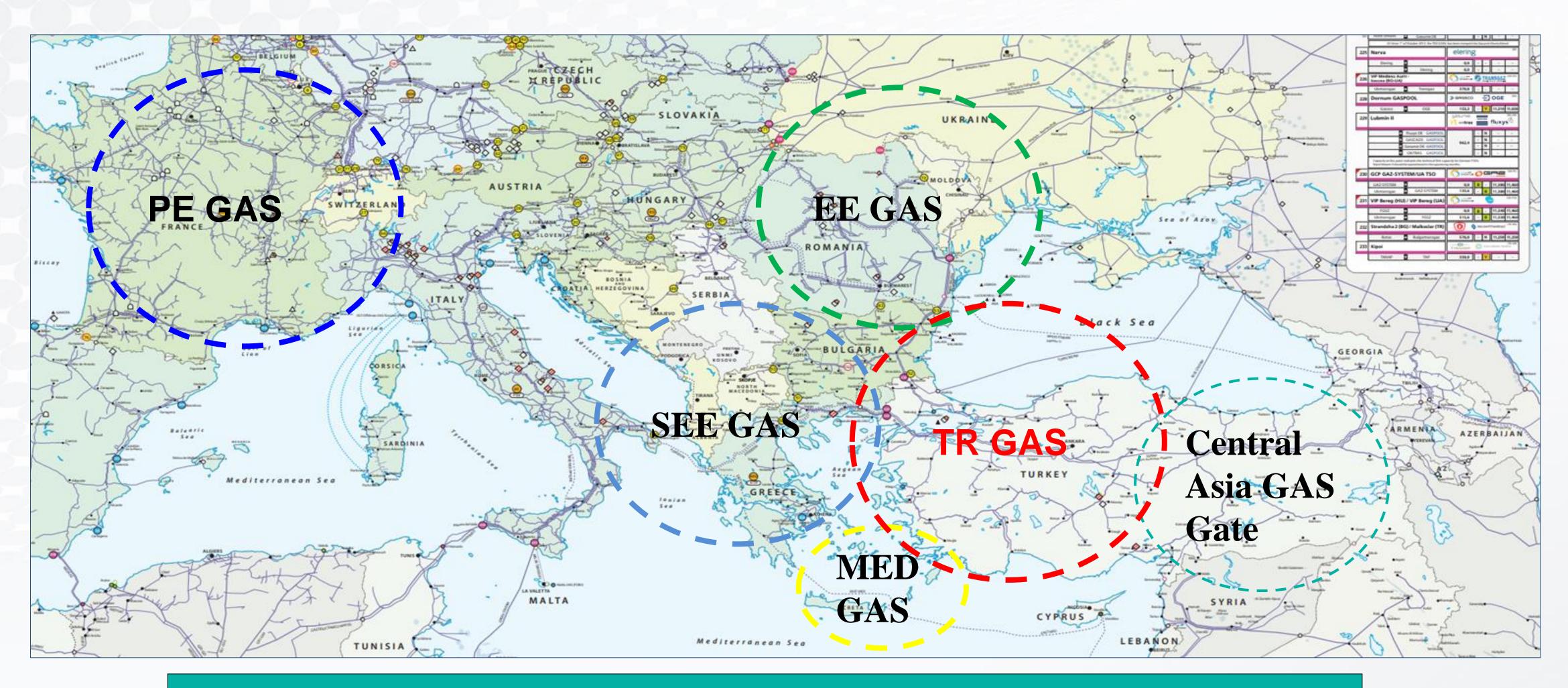
THE MAP OF TURKISH GAS INFRASTRUCTURE





Source: BOTAŞ

OPPORTUNITIES OF THE REGIONAL MARKETS



Western/Northern European markets have matured and are moving East. Regions around TR: Balkans, Eastern Europe, E. Mediterranean developing.



INTERNATIONAL COOPERATION













OUR COMPETENCIES AND STRENGTHS

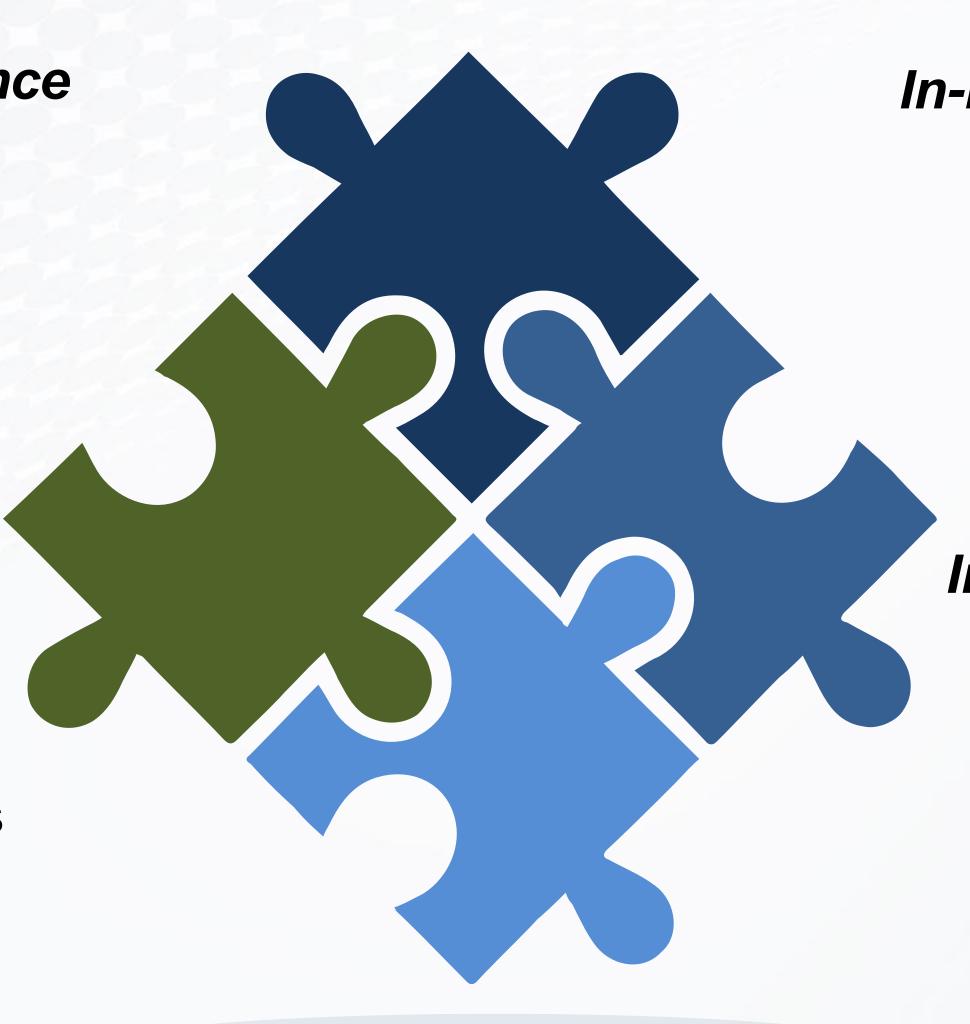
Market Operation Experience

Electricity and Natural Gas Markets operating experience

Versatile Product and Service Group

Spot and forward electricity and natural gas market products and services such as settlement, invoicing, operation of YEKDEM mechanism





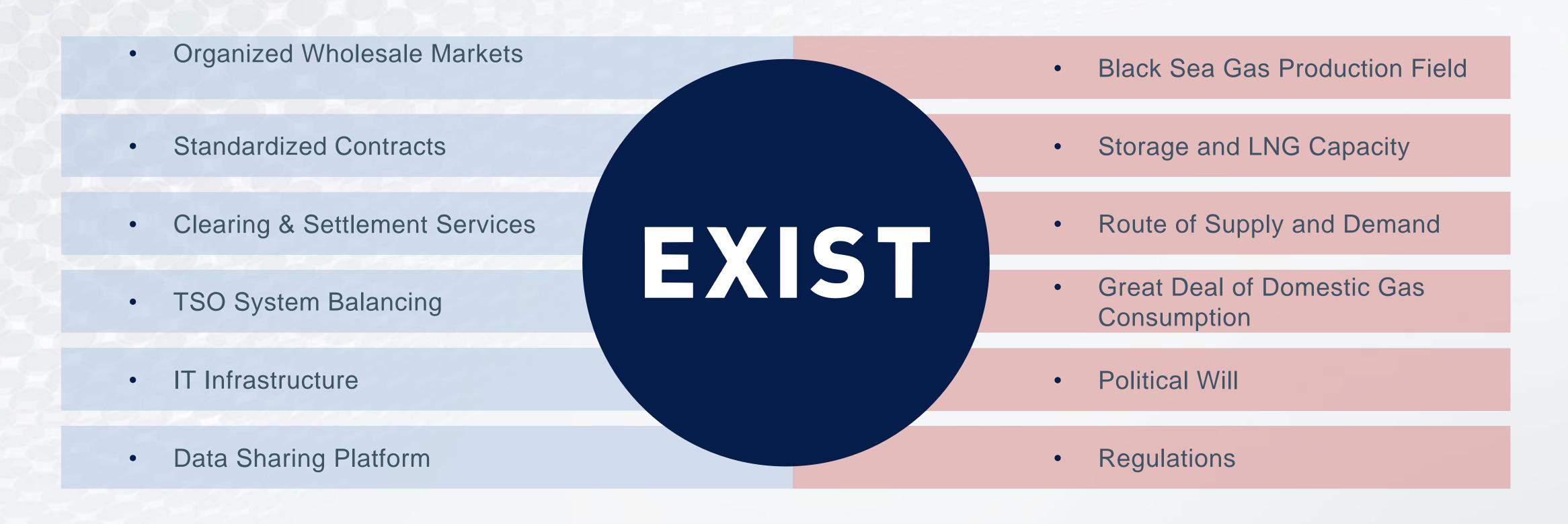
In-house Software Development

Domestic and national market software. Approach that supports new technologies

International Collaborations

Cooperation and memorandum of understanding signed with international energy market stakeholder institutions

TÜRKİYE ON THE PATH OF BECOMING A REGIONAL GAS HUB







epiastr

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