



# 9<sup>th</sup> SE Europe Energy Dialogue

***“The Quest for a New Energy Balance”***

**June 29-30, 2016**

**Thessaloniki, Greece**



# *Iranian Gas Industry*

*(Potentials & Opportunities)*



*by*

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# Petroleum Ministry

*Petroleum Ministry*

*National Iranian Oil  
Company (NIOC)*

*National Iranian Gas  
Company (NIGC)*

*National Petrochemical  
Company (NPC)*

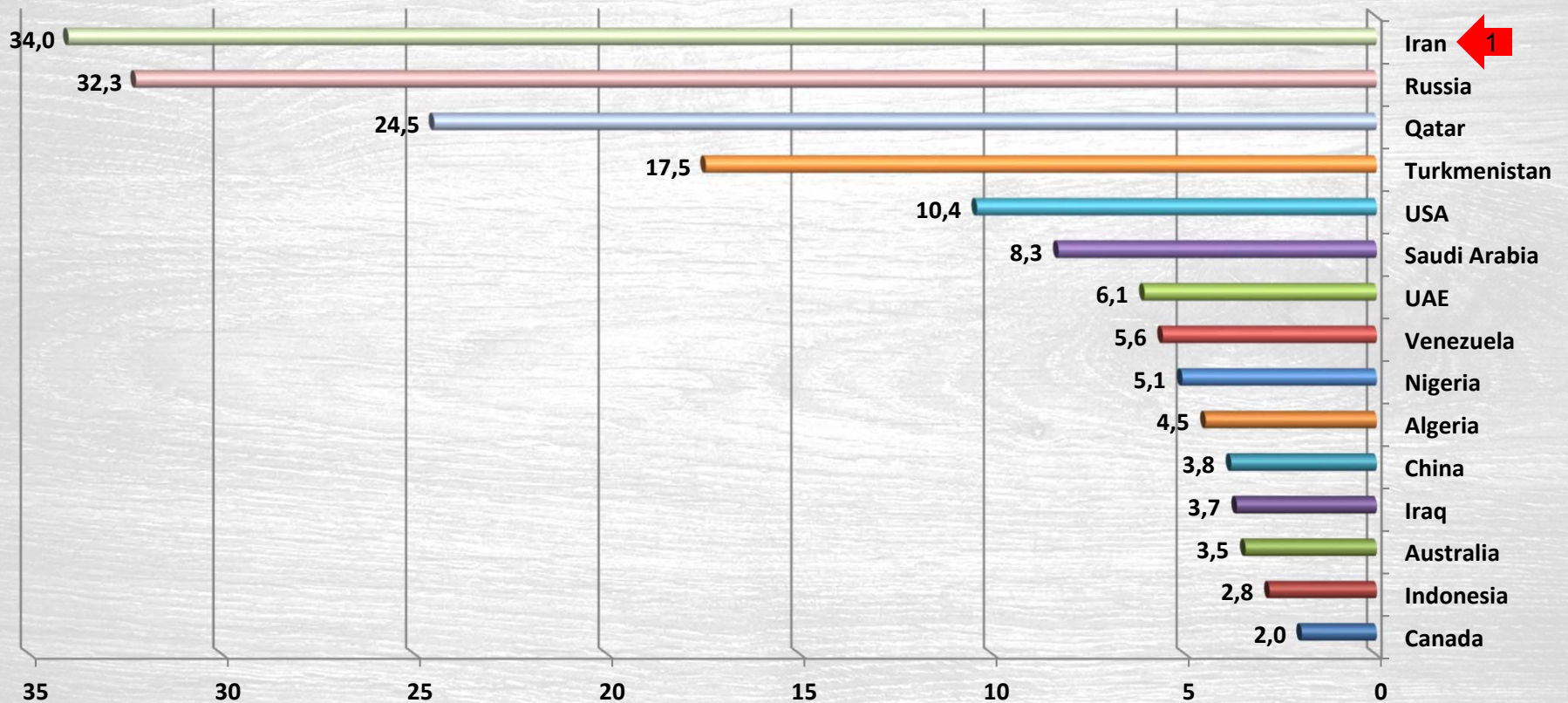
*National Iranian Oil  
Refining & Distribution  
Company (NIORDC)*

⊕ **NIGC Established in 1965, Celebrating its 50<sup>th</sup> Establishment Anniversary**

⊕ **Number of Employees : 75,000**

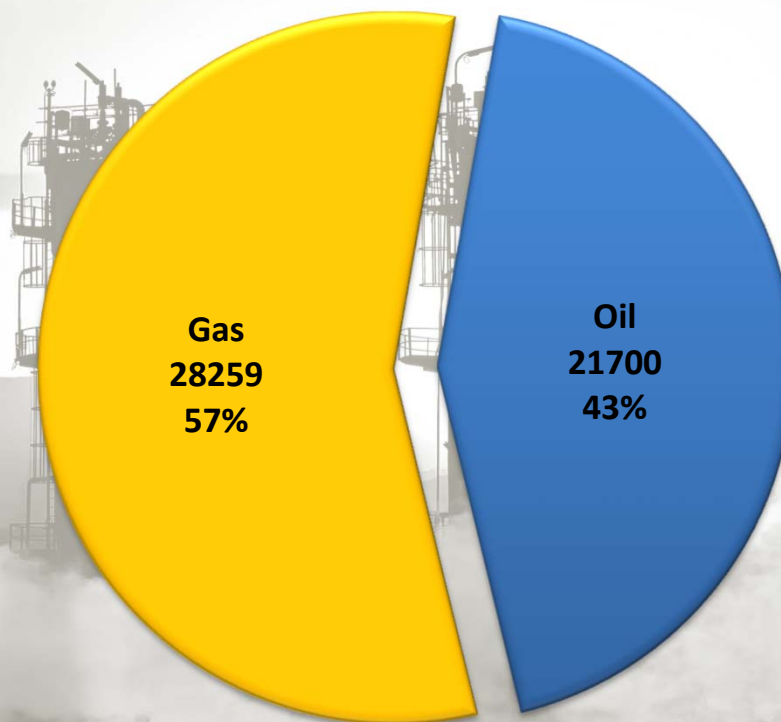


### Natural Gas Proved Reserves: 187 TCM



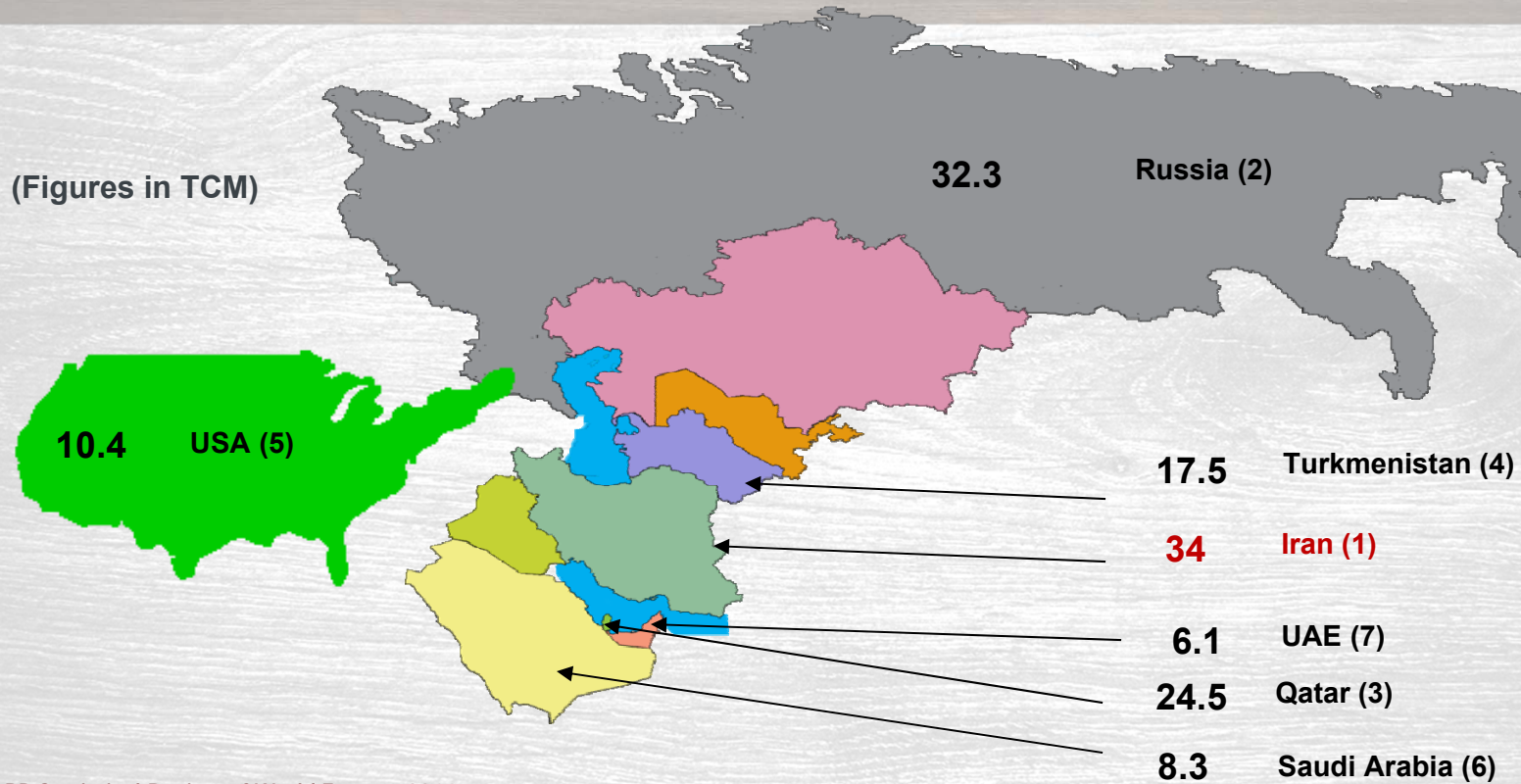
Source: BP Statistical Review of World Energy, 2016

## Iran Oil & Gas Reserves (Mtoe)



Source: BP Statistical Review of World Energy, 2016

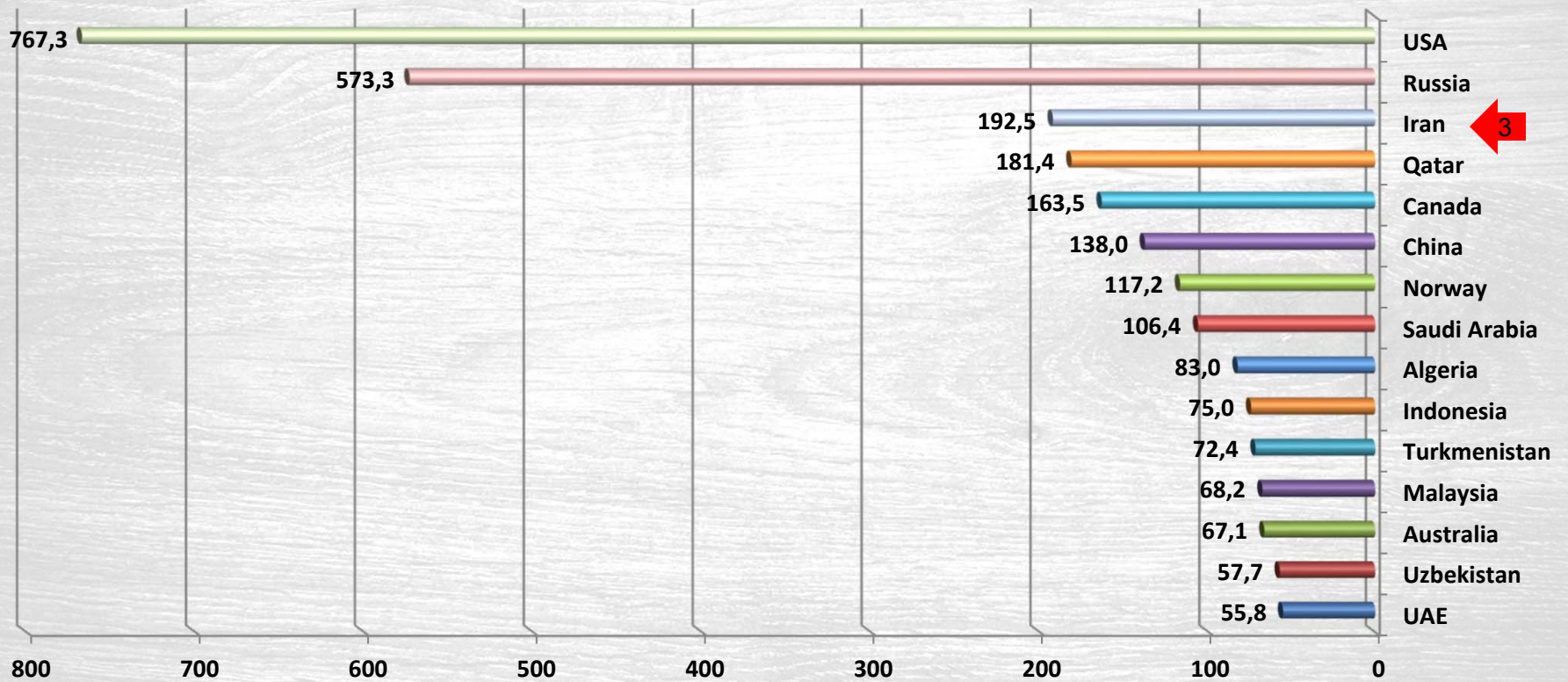
## Top 7 Holders of Natural Gas Proved Reserves (>70%)



Source: BP Statistical Review of World Energy, 2016

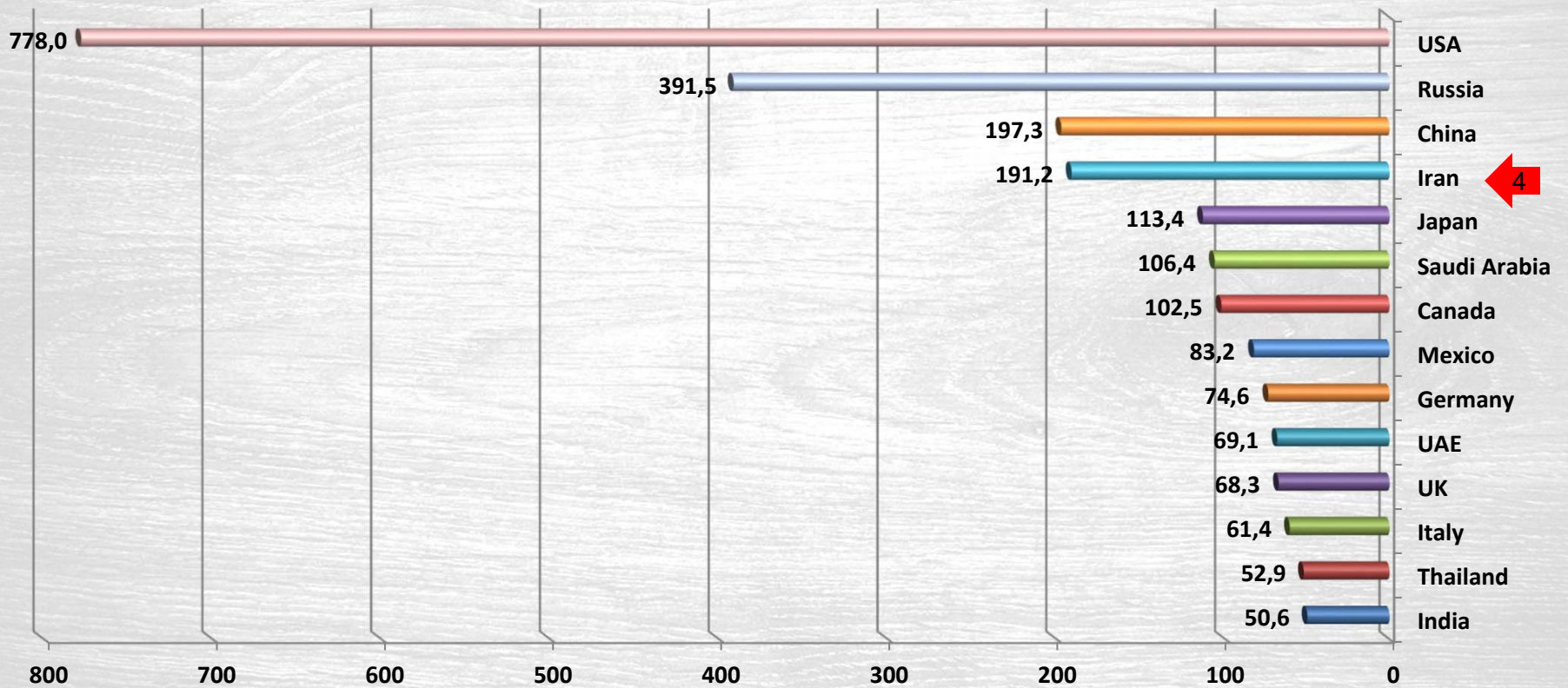


## Natural Gas Production: 3539 BCMY



Source: BP Statistical Review of World Energy, 2016

## Natural Gas Consumption: 3469 BCMY



Source: BP Statistical Review of World Energy, 2016





## Summary Report of NIGC

⊕ Natural Gas Production	210	BCMY
⊕ Domestic Natural Gas Consumption	193	“
⊕ Natural Gas Consumption by Vehicles	8	“
⊕ Export	8.6	“
⊕ Import	9.1	“
⊕ Underground Gas Storages Capacity	8	“

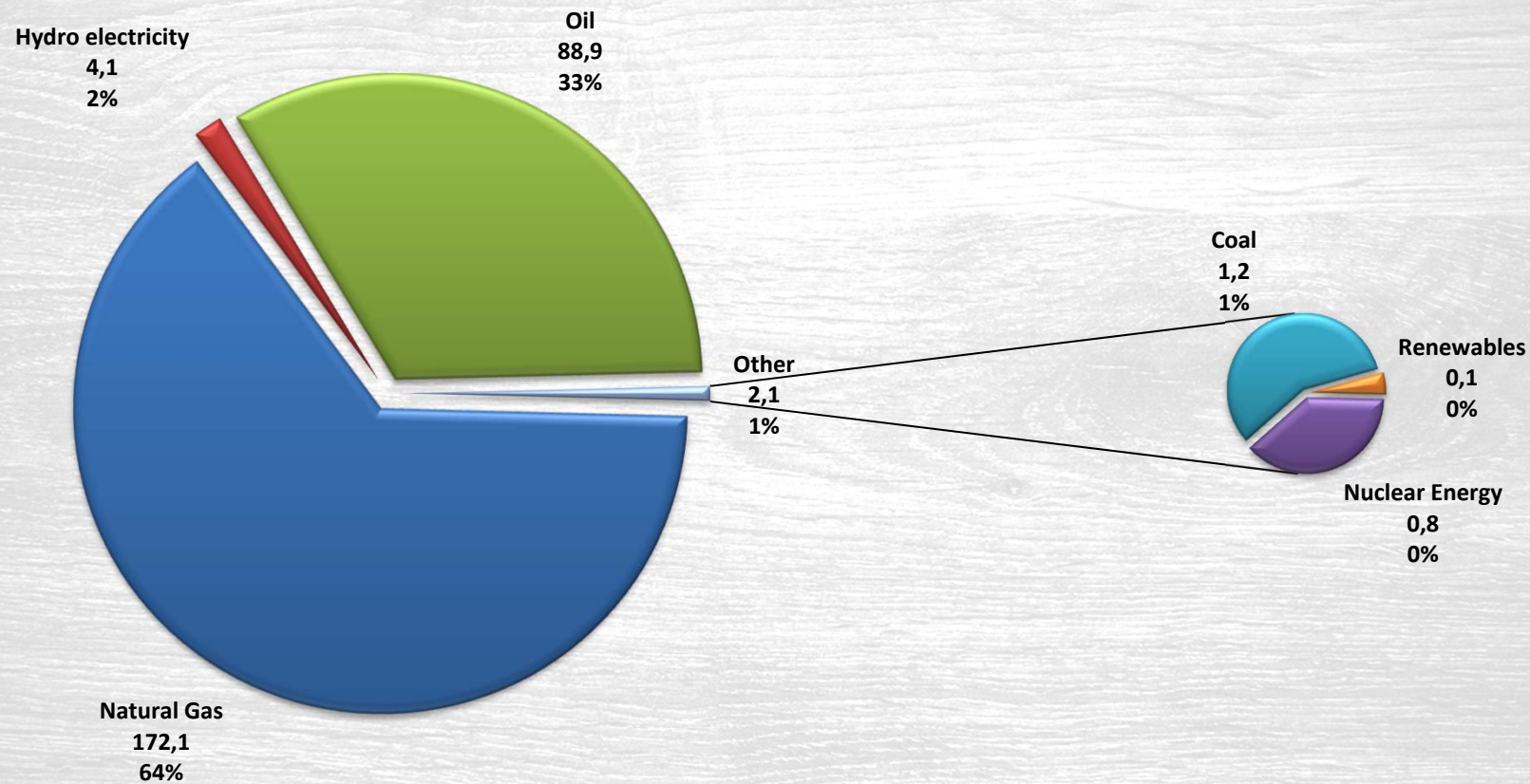


## Summary Report of NIGC (cont'd)

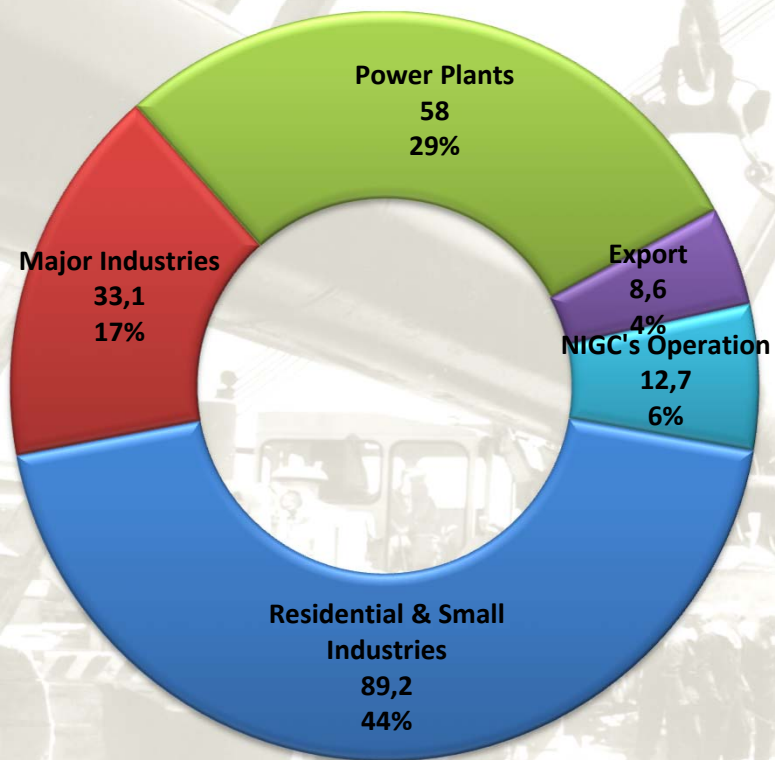
⊕ Gas Treating Plants	17
⊕ High Pressure Gas Transmission Pipelines	36,700 Km
⊕ Gas Distribution Networks	288,000 Km
⊕ Number of Power Plants Consuming Natural Gas	74
⊕ Number of Cities Consuming Natural Gas	1,063
⊕ Number of Villages Consuming Natural Gas	20,440
⊕ Number of NGVs	3,500,000
⊕ Population Consuming Natural Gas (%)	90 %
⊕ Share of Natural Gas in Energy Mix (%)	64 %



## Iran's Primary Energy Mix. (Mtoe)



## Breakdown of Natural Gas Consumption (BCMY)

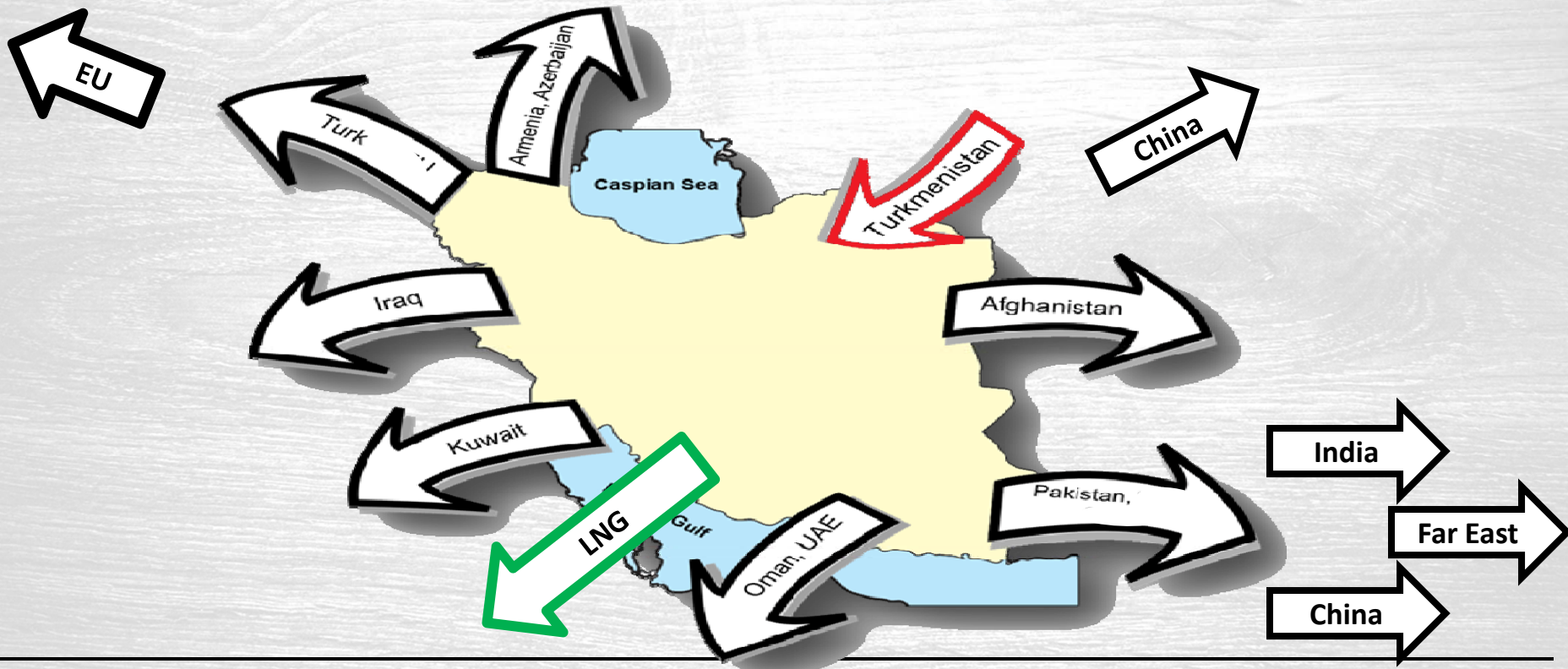


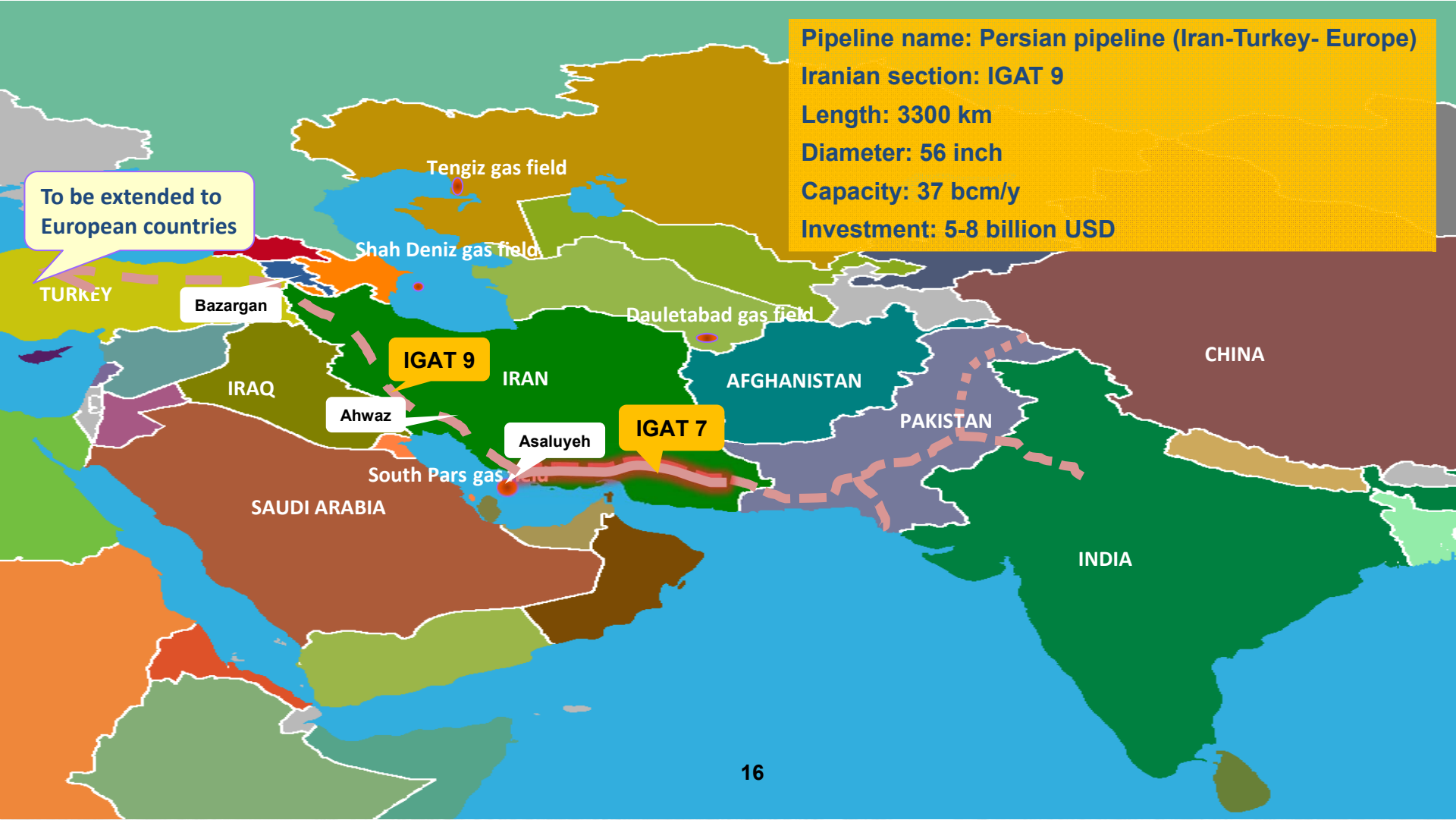
## Gas Export and Import by Pipeline

	Country	Volume (BCMY)	Starting Date	Remarks
Export	Turkey	7-10	2001	Operational
	Azerbaijan	0.3 - 0.7	2005	Operational (Swap)
	Armenia	1.1 – 2.3	2007	Operational (Exchange for Electricity)
	Iraq (Baghdad)	9	2015	Delayed (due to instability in Iraq)
	Iraq (Basra)	9	2018	Finalized
	Pakistan	7.8	2015	Delayed
	Oman	10	2018	Under Negotiation
Import	Turkmenistan	14	1997	Operational



## NIGC's Gas Export / Import Opportunities





Pipeline name: Persian pipeline (Iran-Turkey- Europe)  
Iranian section: IGAT 9  
Length: 3300 km  
Diameter: 56 inch  
Capacity: 37 bcm/y  
Investment: 5-8 billion USD

To be extended to European countries

TURKEY

Bazargan

Shah Deniz gas field

IGAT 9

Dauletabad gas field

IRAQ

IRAN

AFGHANISTAN

CHINA

Ahwaz

IGAT 7

PAKISTAN

SAUDI ARABIA

South Pars gas field

Asaluyeh

INDIA

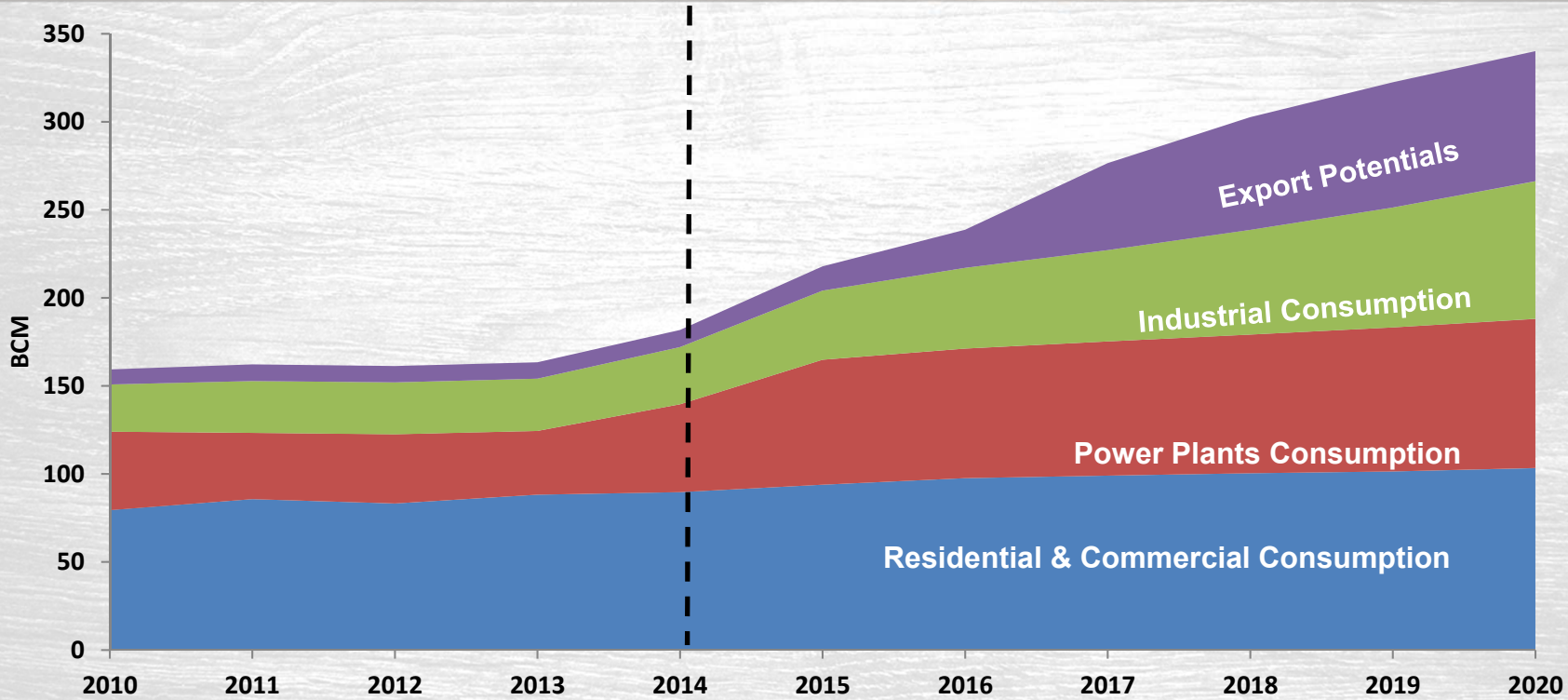


# Iran's Natural Gas Export Options to Europe

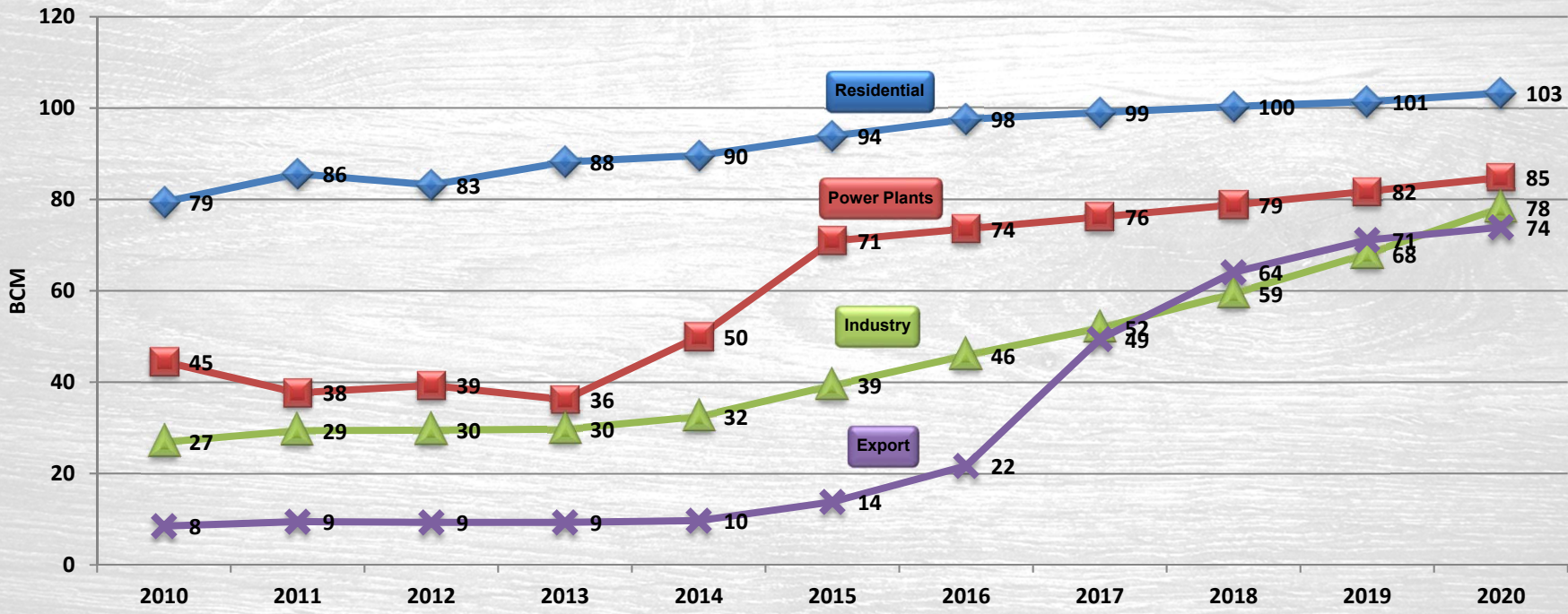




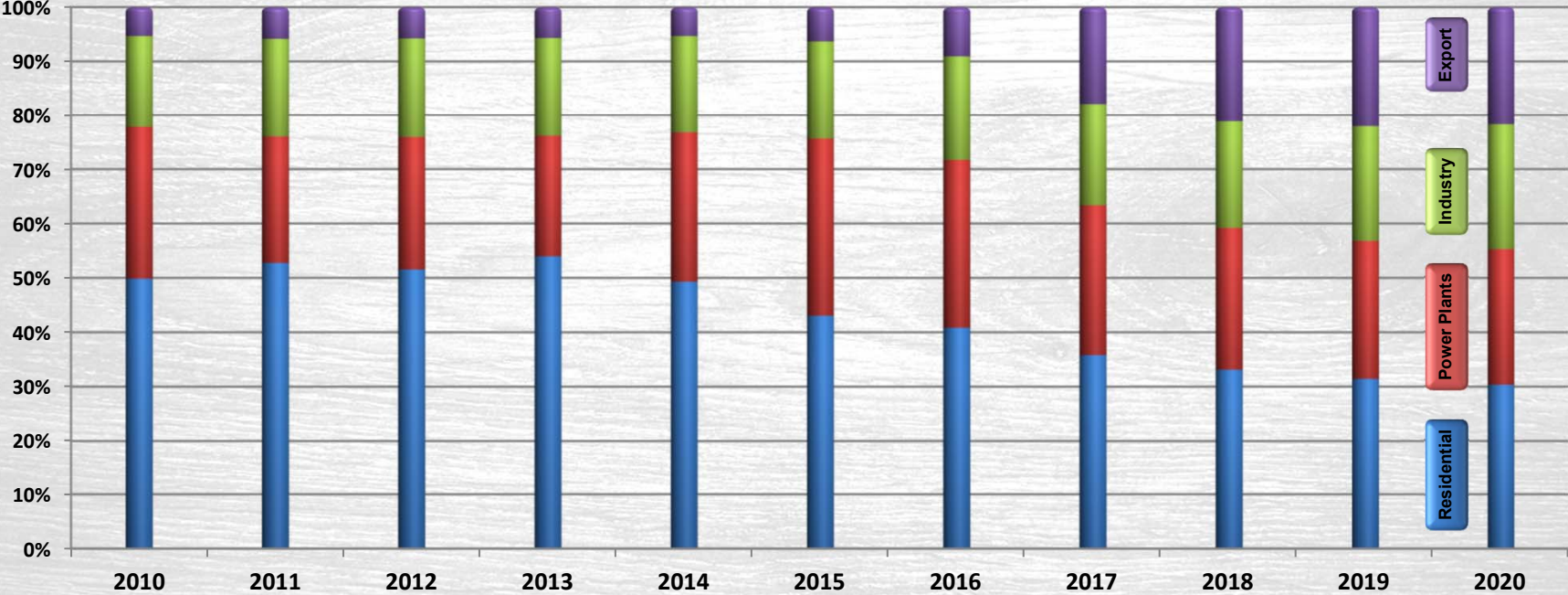
# Increasing Gas Export Potentials



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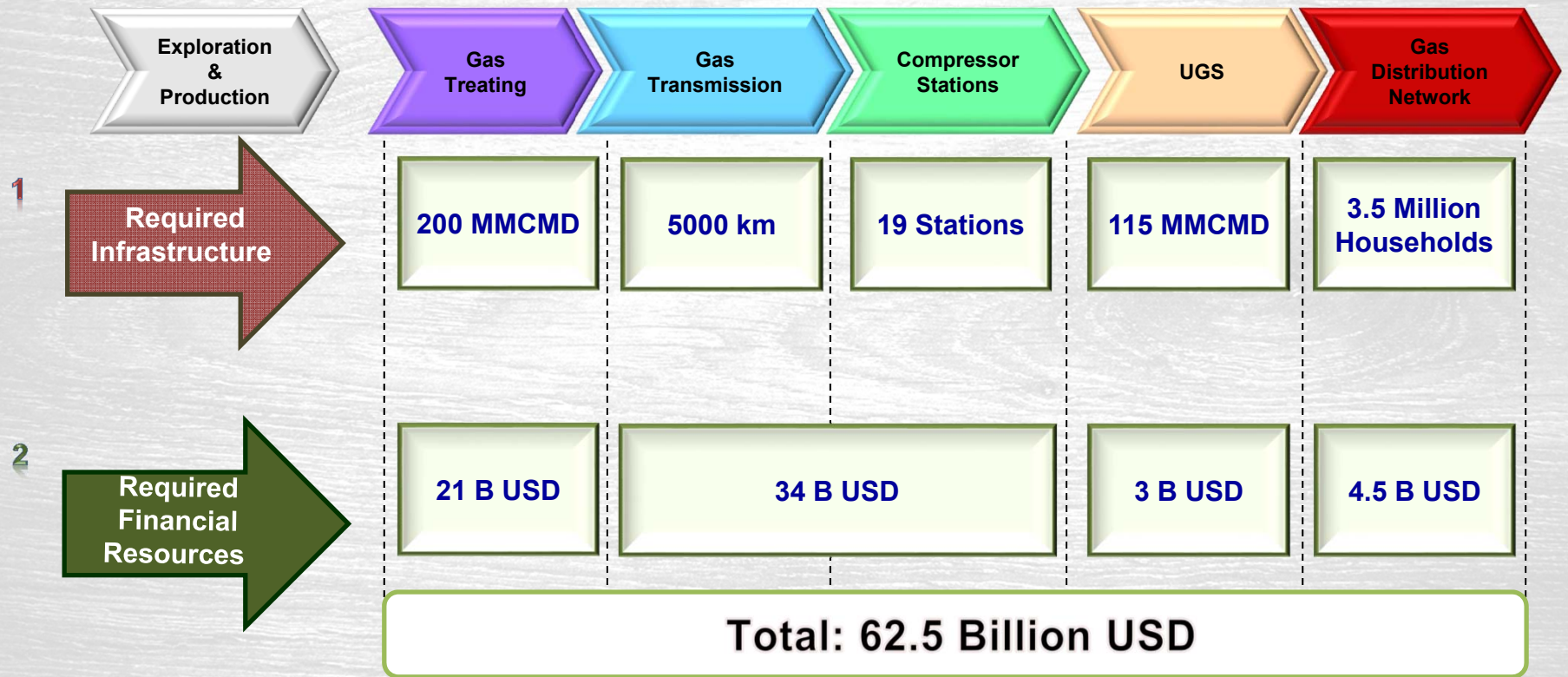




## NIGC's Development Plans by 2020

	2015	2020	Growth (%)
Gas Production Capacity (MMCMD)	700	1200	71 %
Annual Gas Production (BCMY)	202	360	78 %
HP Transmission Pipelines (km)	36,000	41,000	14 %
Number of Compressor Stations	76	105	38 %
Number of Turbo Compressors	257	370	44 %
Population Consuming Gas (Million) (%)	70 (90%)	81 (98%)	17 %

## Required Infrastructure and Financial Resources in Different Sections (by 2020)



# Conclusion

*South East of Europe (including 13 States) is strategically located between Middle East and Caspian basin (including Iran) which are rich in Natural Gas Resources and Western and Central Europe who are big energy-consuming states.*

*So, this region is well positioned to play an important role in the transiting of gas resources and in the diversification of gas supplies, both within the region itself and for Europe as a whole, and Iran has the potential to be one major partner in this region.*





**Thank You for Your Kind Attention**