



**διανομή αερίου**  
**α τ τ ι κ η ς**  
ΕΤΑΙΡΕΙΑ ΔΙΑΝΟΜΗΣ ΑΕΡΙΟΥ ΑΤΤΙΚΗΣ Α.Ε.

# The critical role of natural gas in the transition of the Greek Energy Market

**Anastasios Tosios**  
**Commercial Director**

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# Natural Gas Market | The evolution

**1995:**  
**First Gas Law**  
(Law 2364)

**2005:**  
**Liberalization of the natural gas market**  
establishment of DESFA, the National NG System Operator (Law 3428)

**2001:**  
**Establishment of EPAs (Gas Distribution Companies)**  
DEPA in cooperation with private investors (Shell, ENI)

**2017:**  
**Unbundling of Distribution & Supply Companies**  
Establishment of EDA  
Attikis - Eligibility status for large commercial customers

**2015:**  
**Full liberalization of the retail NG market**  
Eligibility status for industrial customers

**2018:**  
**Activation of suppliers to retail market**  
Eligibility status for all the customers

# Natural Gas Market | Key players

## RAE

An independent administrative authority for the regulation of the electricity and gas markets in Greece in accordance with the provisions of EU Directive 2009/75

### Import

**International Suppliers**

**Large Importers**

- ✓ Import of n.g. mainly from Gazprom, Sonatrach (LNG) and BOTAS through long-term contracts.
- ✓ Entry points in the country: “Kipoi”, “Sidirokastro”, “Revithoussa” for LNG
- ✓ TAP pipeline is under construction.

### Transmission

**National NG System Operator**

- ✓ DESFA is the owner and operator of the national natural gas transmission system in the Greek market.
- ✓ It serves retail market gas suppliers as well as its own industrial customers and large electricity producers (DEI, Protergia, Elpedison, Heron)



### Distribution

**Natural Gas Distributors**

- ✓ Establishment of three (3) n.g. distribution companies from January 2017 (full unbundling of distribution & supply operations).

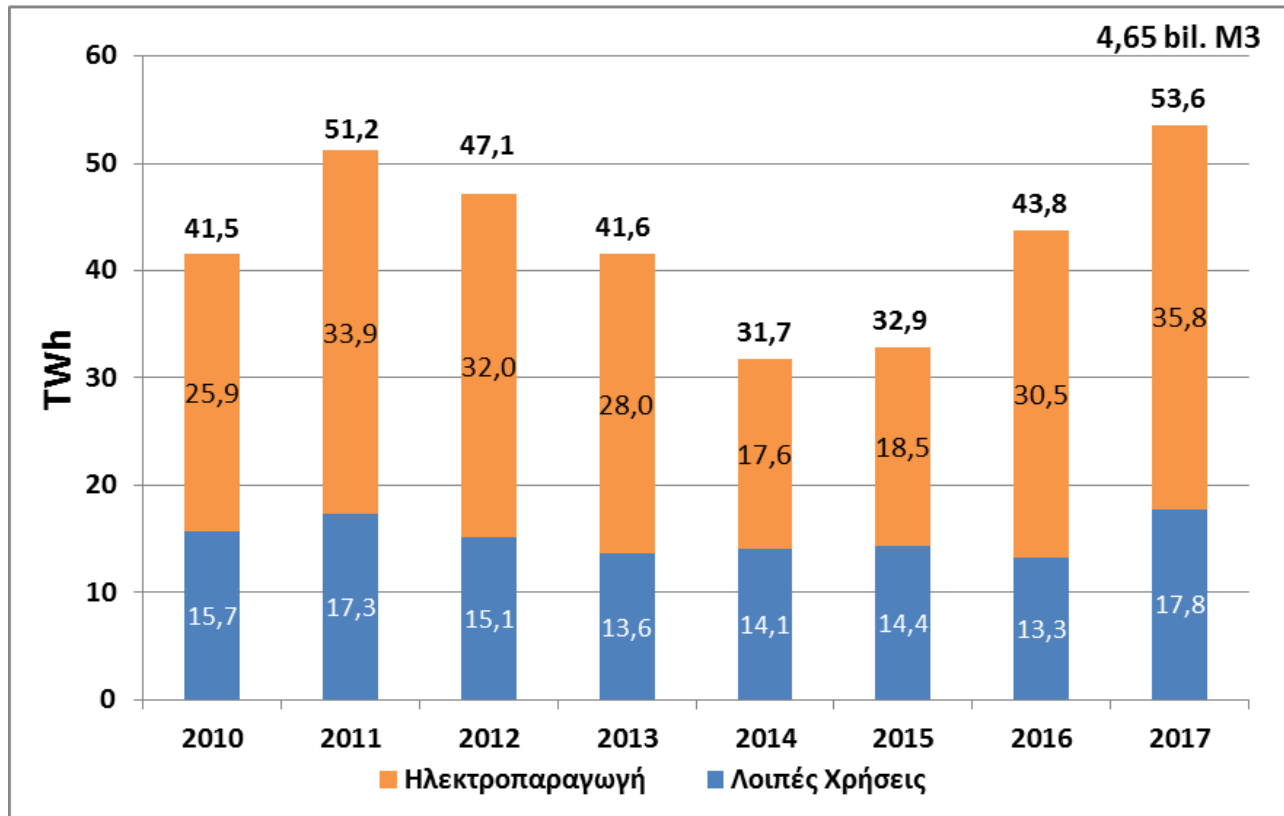


### Supply

**Suppliers of Gas Retail Market**

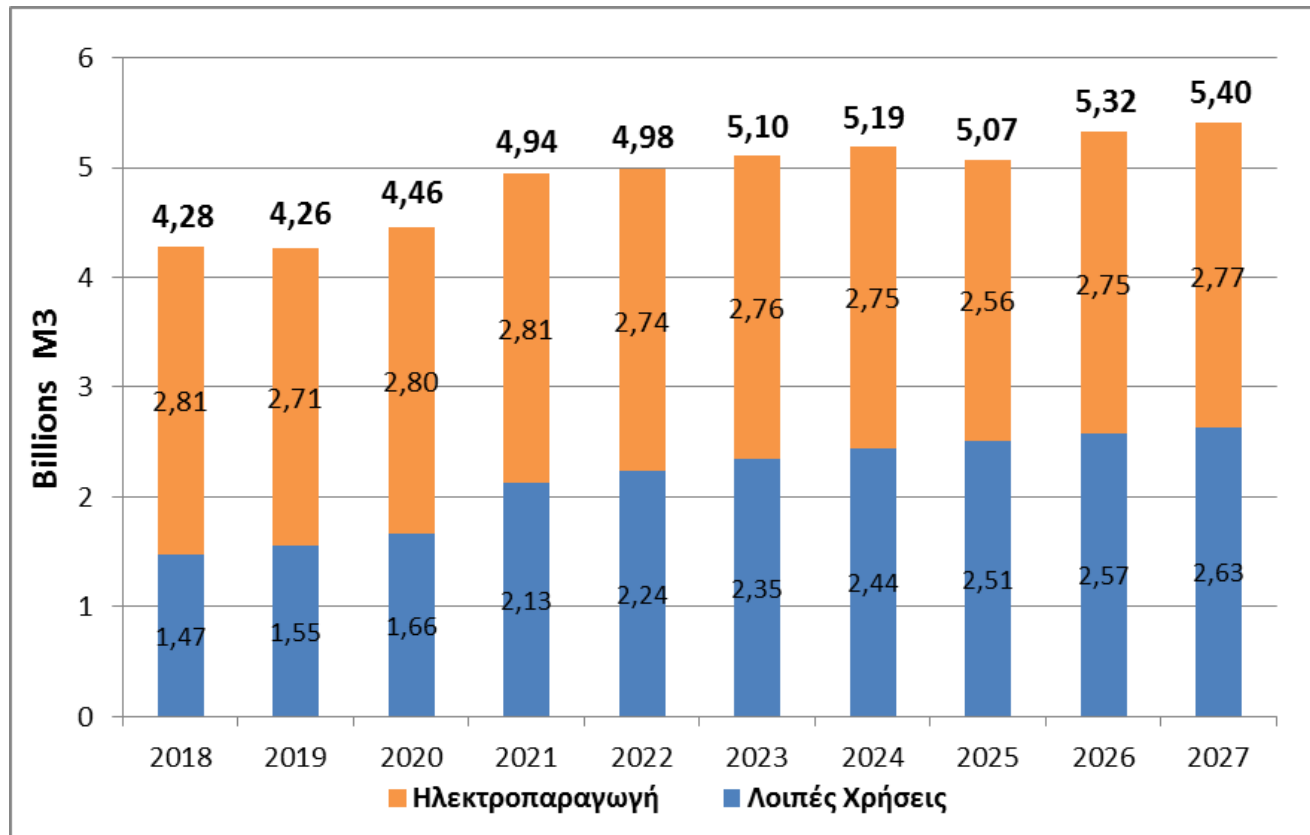
- ✓ Full liberalization of natural gas retail market from 01.01.2018 for all customer categories (residential, commercial, industrial)

# N.G. consumption 2010-2017



Source: RAE (2017)

# N.G. forecast consumption till 2027



Source: DESFA (2017)

# Price forecasting

|   | 2015 | 2020 | 2025 | 2030 | 2035 | 2040 |
|---|------|------|------|------|------|------|
| <b>Crude Oil</b> (€ <sub>2016</sub> /MWh)   | 28,9 | 42,8 | 56,6 | 62,4 | 65,1 | 68,9 |
| <b>Natural Gas</b> (€ <sub>2016</sub> /MWh) | 25,0 | 27,3 | 34,7 | 37,8 | 40,3 | 41,7 |
| <b>Lignite</b> (€ <sub>2016</sub> /MWh)     | 7,2  | 10,3 | 11,4 | 13,6 | 14,4 | 15,0 |

Source: National Plan for Energy & Climate (2018)

# The contribution of the N.G. in the national targets for Energy & Climate

**Greenhouse gas emission reductions & environmental targets**

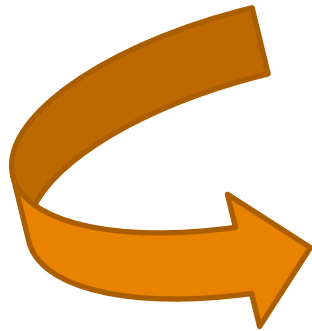
✓ Achieving quantified targets to reduce national emissions of specific air pollutants

**Increasing RES contribution to energy consumption**

✓ At least 30% share of RES in gross final energy consumption

**Achieve energy savings in final consumption**

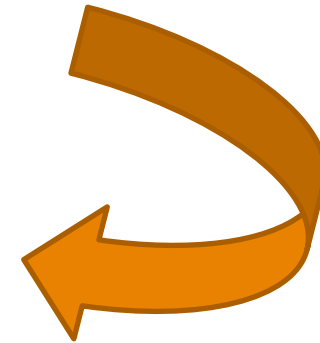
✓ At least 7-7.3 Mtoe cumulative energy savings



**Change consumption standard & type of fuel consumed to final consumption**



**Enlargement of N.G. use in final consumption**



# Strategic Pillars & Key Distribution Challenges



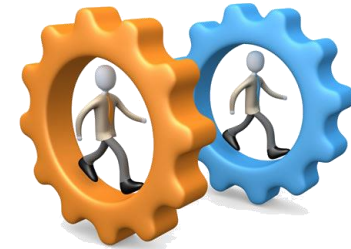
## Safety

- ✓ Goal Zero



## Sustainable development

- ✓ Increase penetration
- ✓ Fair & equal treatment of network users



## Operational excellence

- ✓ Optimization of operations and processes
- ✓ Innovation



# Hellenic Key Distribution data 2018



**44.000** new  
connection contracts



**430.000** active  
customers



**43%** penetration  
(on active network)



**3,7 mil. €** subsidy



**41,5 mil. €** CAPEX  
(in network & SL's)



**10,2 TWh** distribution volume

# Hellenic Distribution Forecast till 2023



**210.000** new  
connection contracts



**50%** increase in  
active customers



**12,7 mil. €** subsidy



**400 mil. €** CAPEX  
(in network & SL's)



**14 TWh** distribution volume

## Objectives for the next years

- ✓ Increase usage of natural gas & as a result increase value of distribution network **>50%** vs. 2016
- ✓ Investments in gas networks of **~2 bil€** in the period 2020-2030
- ✓ Development of highly competitive gas retail market
- ✓ Ensure the smooth, secure, reliable and uninterrupted operation & monitoring of the Distribution Networks
- ✓ Equal access for the Distribution Network Users Distribution
- ✓ Development, inspection, maintenance, replacement and upgrading of the Distribution Network
- ✓ New CNG and small scale LNG infrastructures

# N.G. Contribution to energy market's transformation

- ⚡ Efficient use of energy
- ⚡ Completion of the energy market
- ⚡ Security of supply
- ⚡ Technological Excellence
- ⚡ Development of international collaborations

## Conclusion

- ⚠ N.G. infrastructures lead in a smooth de-carbonization through the use of cleaner, flexible, efficient and economical source of energy
- ⚠ New n.g. infrastructure will enable the increase of Renewables in country's energy mix
- ⚠ New n.g. infrastructure will increase interconnections with other countries and security of supply in all state-members
- ⚠ Market development and increase of competition will further improve the environmental footprint and prices offered to end users
- ⚠ Infrastructure will be able in the future to transport gas or H<sub>2</sub> produced from renewable sources



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**Thank You!**