

# EnEx Group: Transformation Enabler within the Greek Electricity Landscape

IENE 24<sup>th</sup> National Conference "Energy & Development 2019" **Professor George Ioannou** 

Chief Executive Officer

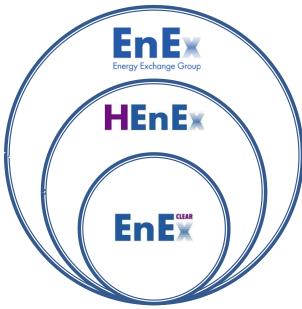
HEnEx | EnExClear

- How is the electricity landscape evolving
- What is EnEx's role in the transformation
- What is the roadmap to success
- What does the future involve



## **Energy Exchange Group**

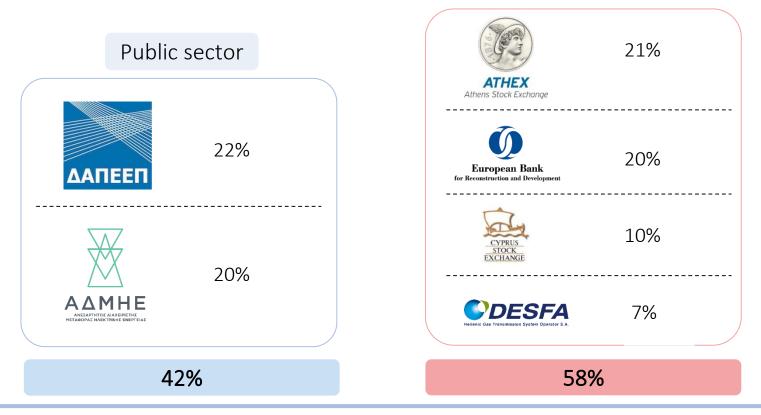
- EnEx Group (Energy Exchange Group) consists of two companies
  - HEnEx (Hellenic Energy Exchange S.A.)
    - which is a private company operating Spot & Derivatives energy markets
  - EnExClear (EnEx Clearing House S.A.)
    - which is a private company owned 100% by HEnEx, clearing Spot energy markets
      - **Derivatives** energy markets will be cleared by ATHEXClear (company of ATHEX Group)





# **HEnEx Shareholders**

- HEnEx's shareholders are both private (ASE, EBRD, CSE, DESFA) and public (DAPEEP, IPTO) companies.
- The shareholders structure is diverse, featuring two TSOs, the GoO competent authority, two stock exchanges, and an international bank, creating synergies and facilitating knowledge transfer.



Private sector



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# Transition Business Model (Still On)

- HEnEx continues to operate the current model of electricity market, i.e.:
  - Operation of Day-Ahead Scheduling (DAS)
  - Operation of Forward Electricity Product Auctions (FEPAS)
  - DAS Risk Management

FEPAS Risk Management

DAS Clearing and Settlement

FEPAS Clearing and Settlement

Trading platform



Target Model Implementation and Operation

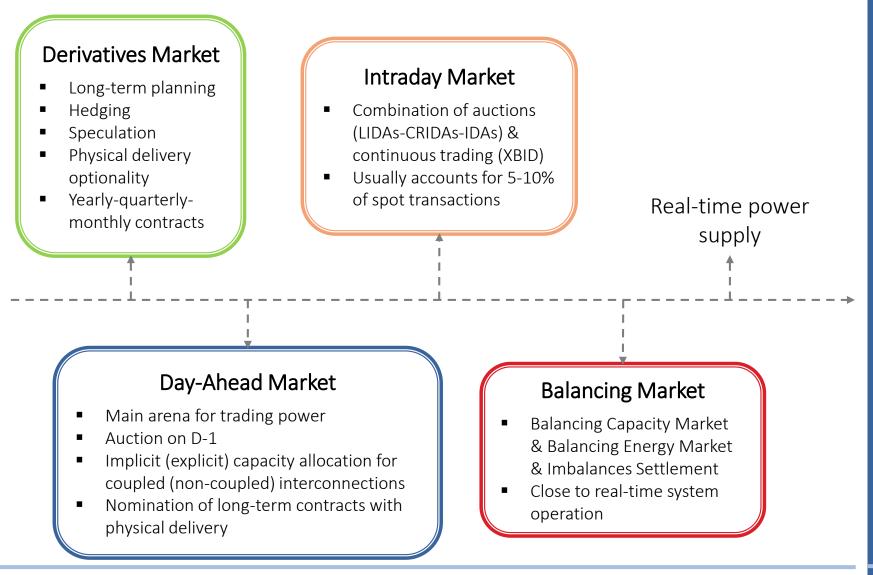
- Day Ahead Market (DAM)
- Intraday Market (IDM) and
- Energy Derivatives Market (DM)
- HEnEx is designated as Nominated Electricity Market Operator (NEMO) for both the Day Ahead and Intraday Markets in Greece.

Risk management, clearing and settlement
 EnexClear for DAM and IDM transactions

• ATHEX CLEAR for Energy Derivatives transactions

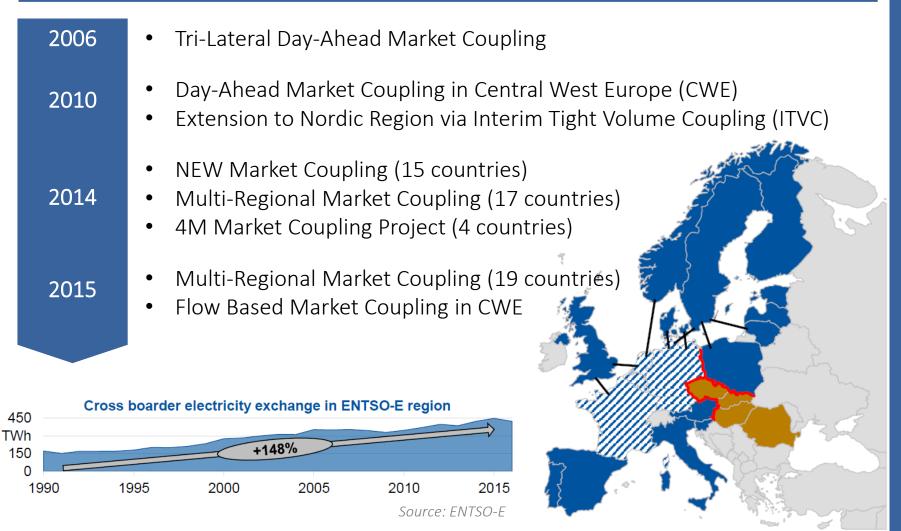


# Electricity Markets Sequence (Target Model)





# **European Integration and Market Coupling**



Source: A. Moser, "Single European Electricity Market – Where Do We Stand?", EEM 2018



## **Benefits of European Price Coupling**

- An integrated European electricity market promotes increased liquidity, transparency, efficiency and social welfare since:
  - A market with a lot of power traded "in and out" leads to **depth** in the market
  - Liquidity helps the market **price discovery** process, leading to reliable **price signals**
  - An efficient price formation mechanism provides sufficient incentives for investments
- Price coupling guarantees the optimal use of electricity network resources
- Implicit trading removes unnecessary risks of trading cross-border capacity and electricity separately



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## **Market Participation & Transparency**

#### HEnEx is the central hub of the target model

- all orders, OTCs and financial transactions go through this hub
- > HEnEx instills confidence to participants and ensures a fair game field since it has:
  - a diverse shareholder structure with many key market stakeholders
  - a highly competent and empowered internal team
- The market access procedure
  - provides common market access rules for all market participants
  - defines a simple and clear market access process
- > The market monitoring procedures safeguard a secure market environment by:
  - assessing potential strategic behavior for exercising market power
  - detecting unlawful / counter-competitive practices for overall market benefit
  - providing a "quick" overview of the market efficiency through the publication of useful market statistics & indicators (e.g., price evolution, concentration ratios)
- Compliance with high EU regulatory standards (REMIT, MiFID II, EMIR) offers transparency and fairness to the market, enhances market monitoring capability



## Secure Trading & Advanced Risk Management

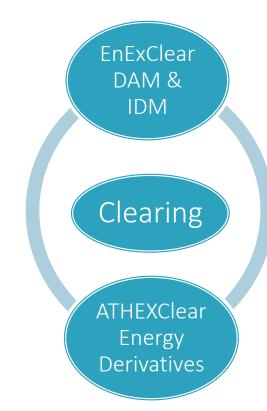
- Trading in HEnEx will be cleared by two clearing houses which bring transparency and security to the market.
  - EnExClear Spot markets

Providing reduced clearing costs and collateral savings thanks to common spot market margining

ATHEXClear Derivatives markets

An EMIR compliant CCP for the minimization of counterparty credit risk exposure, providing also cross product margining and minimum barrier to entry

Trading with flexibility and confidence thanks to efficient trading limits, robust risk management solutions and strong protection against counterparty risks – with high regulatory standards.





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## EnEx Group – Steps so Far – Spot Market

- Trading Rulebook
  - Approved by RAE

#### Clearing Rulebook

• RAE Approval Pending

#### IT Systems

- PCR full membership
- API specs released
- Trading platform currently in internal testing
- Trading platform live demo (1 Nov)
- <u>User connections in November 2019</u>
- Coupling
  - Ongoing for the IT-GR & BG-GR (initial phase) borders

#### Interfaces

 Close co-operation with IPTO crucial for connecting the IT systems to make the Q2/2020 go-live target

#### Public Consultations

- Spot Trading Rulebook
- Spot Clearing Rulebook
- Workshops
  - On new spot market orders (7/5/2019 & 9/5/2019)
  - On Spot Markets Business Model and Systems (24/7/2019)
  - On Spot Markets Systems (1/11/2019)
- Communication
  - 1st Energy Ecosystem Networking Event (27/6/2019)



## EnEx Group – Steps so Far – Derivatives Market

#### Energy Derivatives

- EMIR compliant CCP
- Trading rulebook
  - <u>Drafting & Public Consultation</u> completed
- Clearing rulebook
  - ATHEX Clear has updated its rulebook
- IT Systems
  - Analysis
  - API specs available
  - Trading platform being customized

#### Public Consultations

• Derivatives Trading Rulebook

#### Workshops

- Derivatives Market Introduction (4/9/2019)
- (<u>Upcoming</u>) HEnEx's Energy
  Derivatives Market Before and after the Target Model go-live (3/12/2019)

#### Communication

- Energy Derivatives
  - Multiple meetings / interviews with Derivatives Market stakeholders



## EnEx Group Milestones for 2020-21

Milestone	Date
Spot Markets Go-Live (isolated mode)	June 2020
Futures Market Go-Live (underlying: DAS until DAM Go-Live)	Q1 2020
Spot Markets Coupling with Italian Borders	Q4 2020
Spot Markets Coupling with Bulgarian Borders	2021
IDM Continuous Trading (XBID) + CRIDAs Go-Live	Q4 2020
IDAs (Pan-European Auctions) Go-Live	Q4 2021



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## Interconnections – As Is

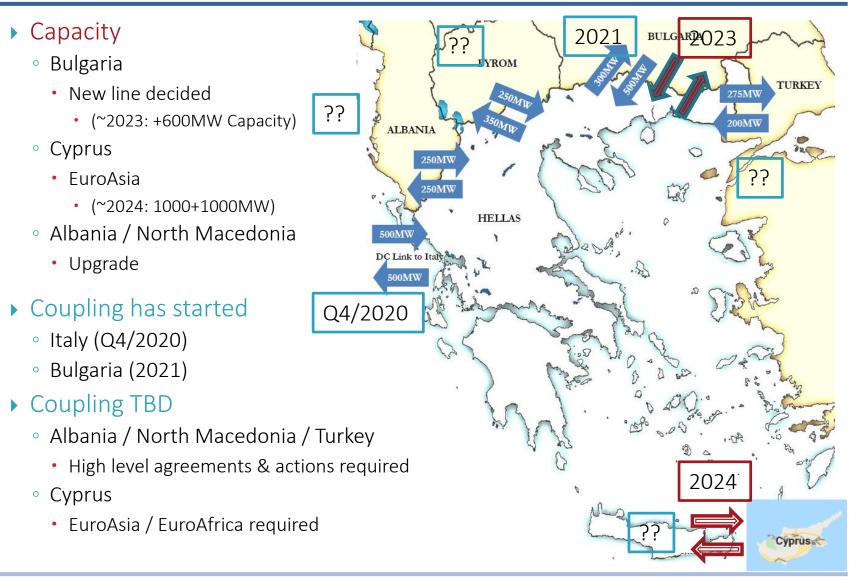
- Albania
- Bulgaria
- FYROM
- Turkey
- Italia
  - DC link
- Total Net Transfer Capacity\*
  - Imports 1,700 MW
  - Exports 1,625 MW

\*indicative values





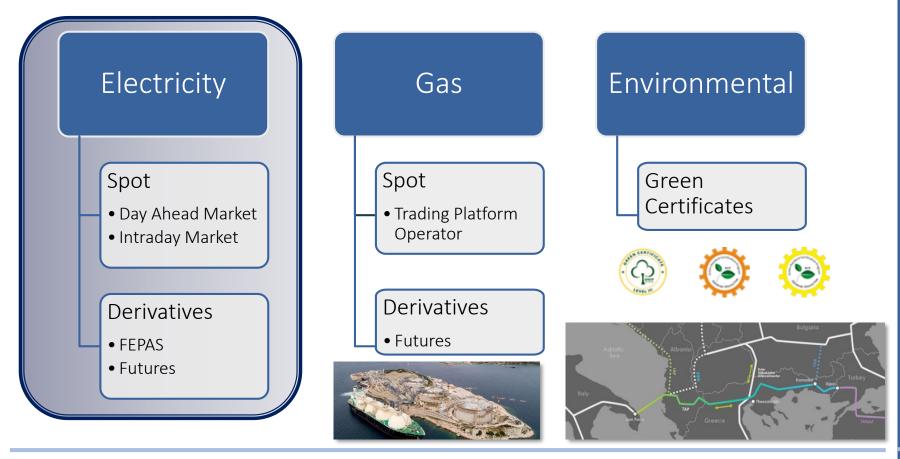
# Interconnections – To Be (Doubling Potential)





## EnEx Group Augmented Target Markets

 HEnEx's one-stop shop offering will provide access to a range of Energy Markets, beyond electricity, including Natural Gas and Environmental Markets, both for the Spot & Derivatives Markets







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