

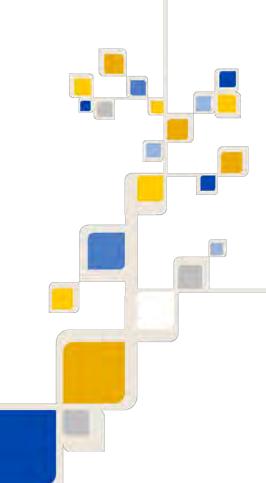
## Energy Market(s) Integration: The ultimate Security of Supply

### Dr. Michael Thomadakis

Director, Energy, Grant Thornton Member of BoA ACER

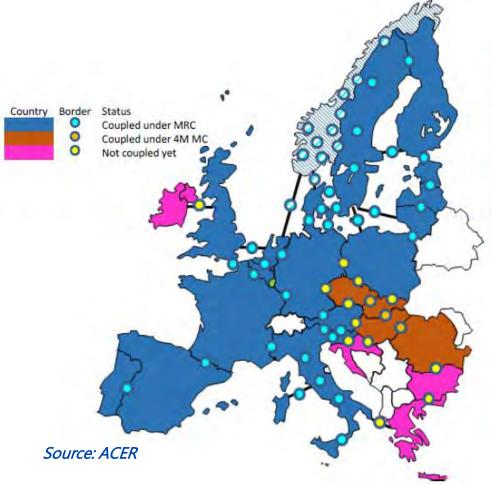
22<sup>nd</sup> IENE Conference

Athens, 23-24 November, 2017





#### EU Electricity Target Model | Implementation of single day-ahead market coupling



Today:

80% of borders coupled 46 borders coupled in a single coupling 3 borders coupled separately 12 borders still waiting for coupling

Final goal:

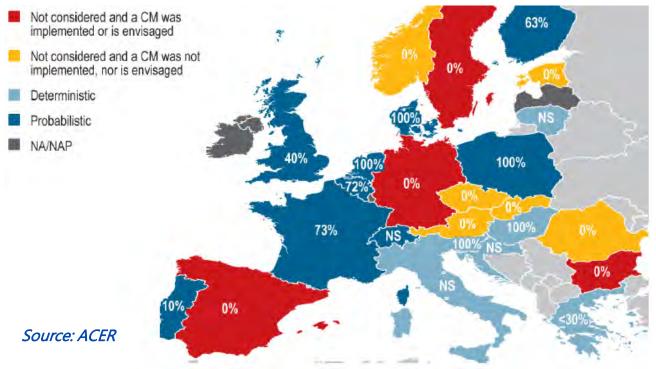
EU-wide day-ahead market coupling with implicit auctions

#### **SEE and Greece**

- Need for faster implementation
- Need to think crossborder



Electricity National adequacy assessments | Contribution of Interconnectors in security of supply



#### **ACER Recommendations**

- Use the maximum feasible cross-border capacity (not the left overs)
- Share the cost of remedial actions (e.g. redispatching) fairly among TSOs
- Reconfigure zones when necessary (remedies are insufficient or too costly)
- Define a binding target for cross-zonal capacity always available for trading
- Implement provisions of Security Regulation Guidelines sooner



#### **EU Gas Trading | Evolution of EU Gas Hubs**



- Established hub: broad liquidity with sizeable forwards and price reference indexes.
- Advanced hubs: higher liquidity but 'spot/prompt' dominated.
- Emerging hubs: Low but improving liquidity. High reliance on long-term contracts.
- Illiquid-incipient hubs: Diverse group with organised markets in early stage, embryonic liquidity.

Changes in 2016 versus 2015:

- 1) VOB (CZ): from emerging to advanced hubs
- 2) OTC (SK): from illiquid to emerging hubs

#### **Implementation of the Gas Target Model**

- Starting from the NW Europe gas hubs are established and progressing
- A lot needs to be done in SE Europe
- Fortunately efforts are increasing
- Greece has a temporal advantage but cooperation with neighbors is the key



#### ACER Study | Barriers to wholesale gas markets

# Main barriers in established, advanced and emerging hubs

#### Main 5 barriers in Illiquid hubs

Transmission tariffs are too high and/or not transparent

Long-term legacy capacity reservations and/or inefficient CMP

Insufficient regulatory transparency

Lack of competitive short-term capacity products

Too frequent reporting obligations for wholesale participants

Weak political support for wholesale market development, lack of trust

> Absence of a VTP/exchange

Insufficient flexibility in products offered

Weak gas trading mechanism

Source: ACER

#### Central East South Energy Connectivity | Gas Priority Projects



#### The List of Projects:

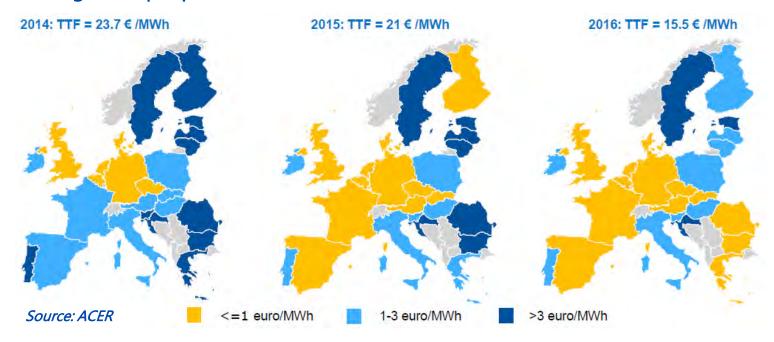
- 1. IGB
- 2. Interconnector Bulgaria Serbia
- Reinforcement of the Bulgarian System
- 4. BRUA
- 5. Krk LNG
- 6. Evacuation line to Hungary
- 7. Expansion of BRUA to Black Sea
- 8. Interconnector Croatia Serbia
- 9. LNG Alexandroupolis

#### **CESEC Initiative**

- Becomes an important tool for the streamlining of efforts at political and technical level
- First results are evident (Gr-Bg, Vertical Corridor, LNG, Trans-Balkan Pipeline)
- Soon expands to electricity
- Important for all countries (EU and non-EU)



#### Market Integration | Impact on Gas Prices



#### Initial Signs of Price convergence (?)

- Encouraging message
- Tariffs will be a challenge

#### Market Integration | Impact on security of supply

- Power, Gas and RES: Interrelated and more complex
- Market convergence is pan-EU (and beyond)
- Security of supply is based on proper investments and market rules
- Bankability of energy projects is of paramount importance
- Risk mitigation becomes of paramount importance
- Market integration is the key:
  - Investment support: TAP, IGB, LNG (?), East-Med (?), South Kavala(?), Eurasia Interconnector (?)
  - Reduction of costs for security of supply (e.g. reserves, balancing, swaps)
  - Political will and support
  - Regulatory stability
  - Know-how
  - Time and effort
  - Greece (and SEE) has a difficult path ahead



# Thank you

Dr. Michael Thomadakis

(michael.Thomadakis@gr.gt.com)

+306974933357

