# The Brattle Group

Exploration of possibilities for applying market coupling in the CEE region

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# **About The Brattle Group**

- Consulting firm specialised in energy and finance
- Offices in US (Cambridge, MA; Washington, DC; San Francisco) and EU (London; Brussels)
- Work for private and public sector
  - ► Analysis of competition (e.g., mergers: Eon/Ruhrgas, Eon/MOL, GdF/Suez, Nuon/Essent, Gas Natural/Endesa)
  - ► Major reports for European Commission, national regulators and competition authorities (UK, Ireland, Belgium, NL, Greece)
  - ▶ Advise investors, utilities, TSOs, PXs etc on energy market issues
- Long involvement in Benelux markets and market coupling, including 2003 "feasibility study" for APX and Dutch TSO TenneT

# Why market coupling?

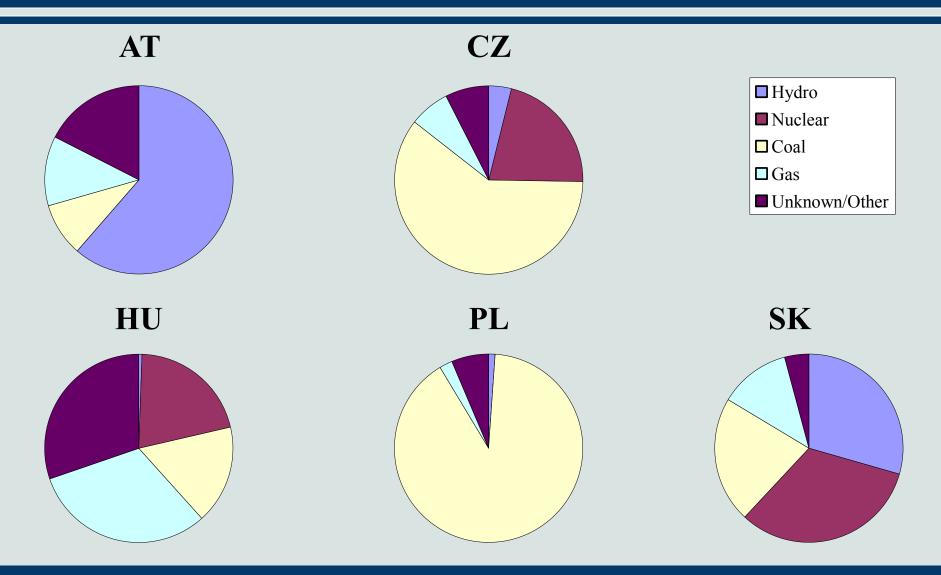
- Enhanced cross-border trade
  - ► Essence of market coupling is to make trading easier (reduced "transactions costs") and more efficient
- Shared and (in long run) increased liquidity on power exchanges
  - ► Brings additional benefits to markets
- Complements other harmonisation measures
  - ▶ Put in context of Regional Markets Initiative

#### Benefits of power trading: efficient despatch

- More efficient trading has short-run efficiency benefits
  - ▶ If need more power in CZ, cheapest available plant in CZ costs €30/hr but cheapest available plant in PL costs €25/hr then trading lowers costs
- In Benelux market prior to market coupling had despatch inefficiencies—power sometimes flowed from high price to low price areas
- For the Dutch competition authority,\* we estimated market coupling would increase peak cross-border flows by about 15%
  - ► Additional trades reflect more efficient despatch
  - ► For CEE, this would be equivalent to a new CCGT

<sup>\*</sup> See www.nmanet.nl/Images/Brattle%20Group%20NMa%20Geog%20rapport%20fusies%20energiesector%20June%202006\_tcm16-87916.pdf

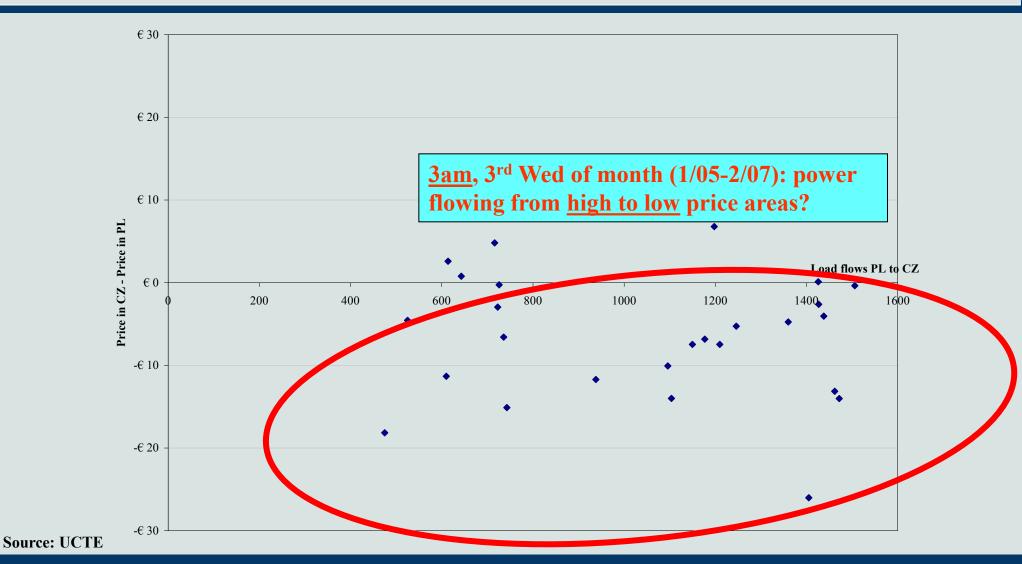
#### Significant intra-regional differences imply likely high gains to trade



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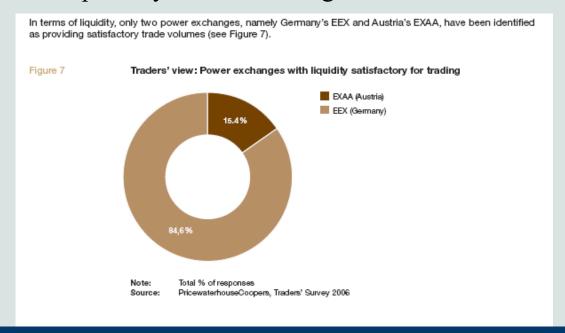


# Benefits of power trading: lower capex, enhanced security

- Cross-border trading reduces the need for reserve margin in any one country, because imports become a source of reliability
- Increased liquidity reduces risk of new investment, especially for entrants
- Especially important in context of need for major new generation capacity in CEE

#### Benefits of power trading: enhanced liquidity

- Market coupling will lead to increased trading, more reliable price index
  - ► Shared liquidity across exchanges
  - ► Facilitates risk management, development of futures and options
  - ► Allows contracting indexed to PX
  - ▶ Improved transparency and risk management enhance investment climate



#### Benefits of power trading: other measures

- Market coupling does not require extensive harmonisation
  - ► Different power exchanges can have different rules, credit arrangements, algorithms etc
  - ► However, market coupling can be an engine for regional integration
- Complements Regional Markets Initiative
- Complements Eurelectric proposal for Regional System Operators

# The Benelux feasibility study

#### Issues included:

- Electrabel's market power in BE, and its link to different cross-border trading arrangements;
- Reform/harmonization of balancing arrangements in different countries;
- Unbundling of TSOs;
- Distributional impact of different cross-border trading arrangements.

#### Questions for discussion

- 1. What is the potential to increase despatch efficiency in this region via enhanced trading?
- 2. How much evidence is there of inefficient use of interconnectors in the region?
- 3. Could enhanced trading help reduce needed investments in new generation capacity?
- 4. Do regional exchanges need more liquidity?
- 5. What barriers to efficient cross-border trade are there in the region at present?
- 6. Independently of market coupling, would intra-regional trade benefit from other kinds of harmonisation (e.g., nomination procedures, balancing arrangements and charges)?

#### Questions for discussion

- 7. How would changes in cross-border trade arrangements and flows affect different stakeholders:
  - ► Generators and suppliers: is market coupling a win-win, or does it create winners and losers?
  - ► Governments: do we see price rises in some countries (e.g., if the country becomes a bigger exporter)?
  - National regulators and competition authorities: would market coupling reduce or increase concerns about market power?
  - ► European Commission and ERGEG: how would this project interact with current/ongoing regional markets initiative?
  - ► TSOs: relatedly, how would market coupling interact with current TSO proposals for cross-border congestion management?