# Robustness of European Market Coupling and Competition Among NEMOS

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#### Who is EXAA Energy Exchange Austria?

ABOUT US

Austrian Power Exchange –
Day Ahead (Spot) Market

HEADQUARTER

Based in 1090 Vienna (Palais Liechtenstein)

AUCTIONS

Own auction at 10:15 operating in AT, DE and NL

NEMO

Nominated by E-Control, participation in the European Market Coupling (AT, DE)

PARTNERS

Vienna Stock Exchange and CCPA for financial clearing







### **GOAL**

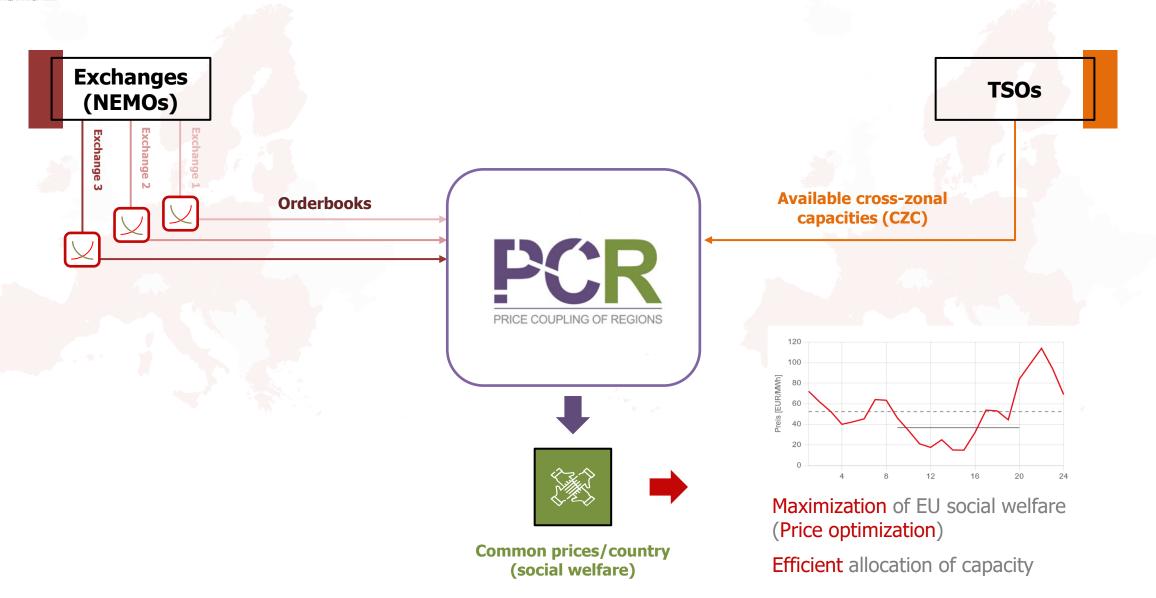


- Combining bids of market participants
- with available transport capacities
- to find optimized prices for whole Europe (social welfare)

- About 98% of the EU demand has been coupled
- Over 1500 TWh/year
- Cooperation of 30 TSOs and 17 Exchanges

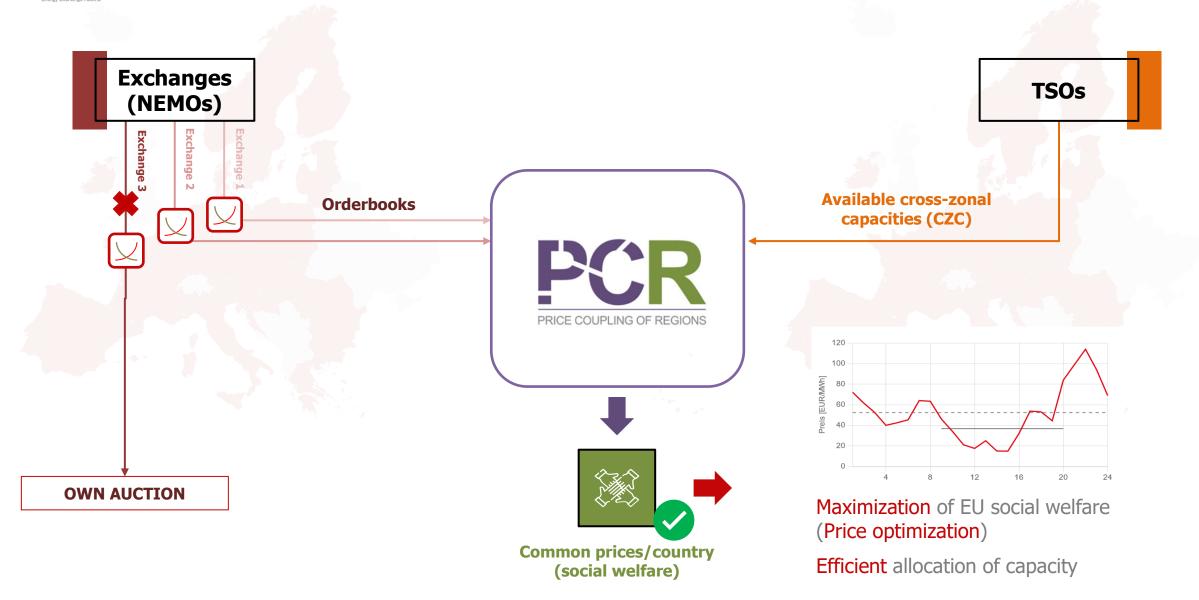


## **Overview of Day-Ahead Market Coupling**





# **Overview of Day-Ahead Market Coupling**



#### **Conclusio**



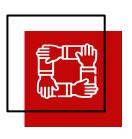
Redundant positioning of market participants enables to remain in the robust coupled system – if one exchange fails, orderbooks will reopen and traders are given the oportunity to change/replace their bids!

 If only one exchange fails, others remain in the market coupling  Continued stable pricing and reliable volume allocation  The "decoupled" exchange runs an own auction using its own algorithm



In such case, traders have the choice to remain at their exchange or switch to a coupled exchange  No full decoupling since market launch in July 2019





#### **ROBUST TO FAILURE**

Failure of one or even several units has no impact on the functioning of the entire system



#### **SPREADED RISK**

Technical infrastructure, data centers, market operations, financial clearing etc. are spread across numerous locations



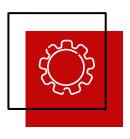
#### **EFFICIENCY**

More favorable conditions through competition between the exchanges



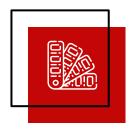
#### **SERVICE**

Improved service and customer proximity become important



#### **DEVELOPMENT**

There is the need for constant development of trading systems to remain competitive

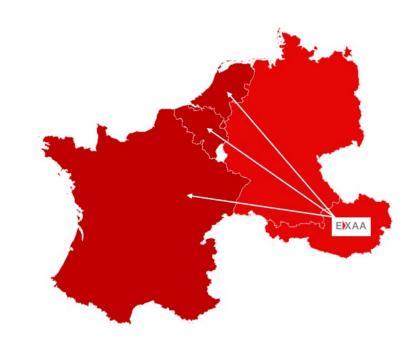


#### **VARIETY**

Single exchanges can offer niche products that some market participants need/ which are essential just for one area



In the near future, EXAA will start day ahead auctions in the Netherlands, France and Belgium



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