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Liberalization Process of European Natural Gas Markets

How Austria evolved into a Liquid Market place





- Energy market liberalisation in the EU
- Entry-exit and virtual trading point
- Balancing
- Capacity allocation and congestion management





Energy market liberalisation in the EU

Principles of EU gas market



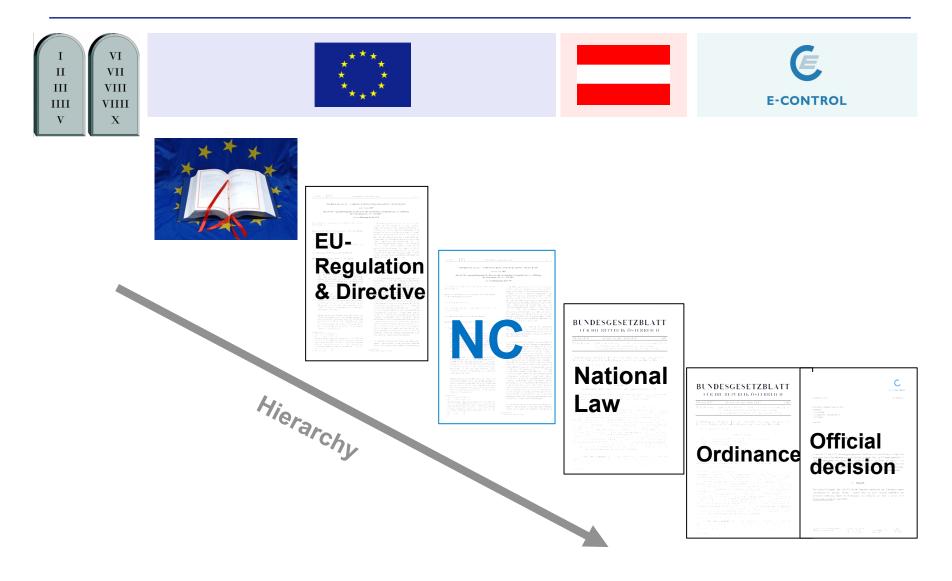
- Entry-exit zones with virtual trading points
 - Shipper can flexibly book and use capacity at entry and exit points
 - Concentration of trading activities
 at one virtual trading point
- Liquid hubs with sufficient and efficiently used infrastructure
- Functioning markets in all of Europe

🚫 Hub

* Zones drawn for illustration. Size of zones will depend on CBA.

Hierarchy of legislation







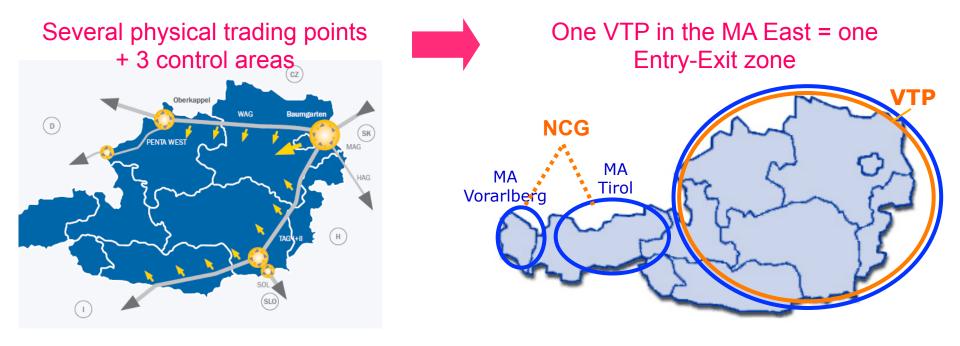


Entry-exit and virtual trading point

From point-to-point to entry-exit

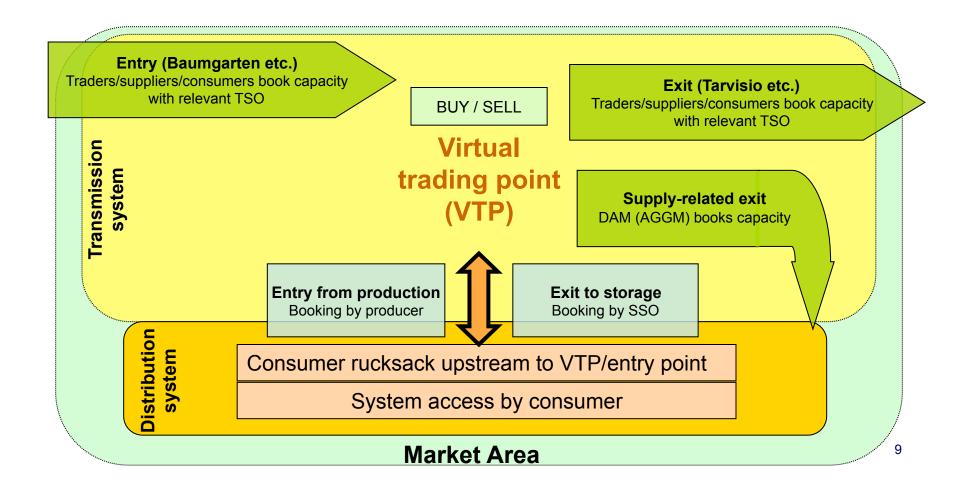


- Three market areas in Austria
 - Market Area East
 - Market Area Tyrol (distribution system)
 - Market Area Vorarlberg (distribution system)
- Market Area East is one Entry-Exit zone (transmission system) concentration of the trading activites at one virtual trading point (VTP)



Virtual Trading Point





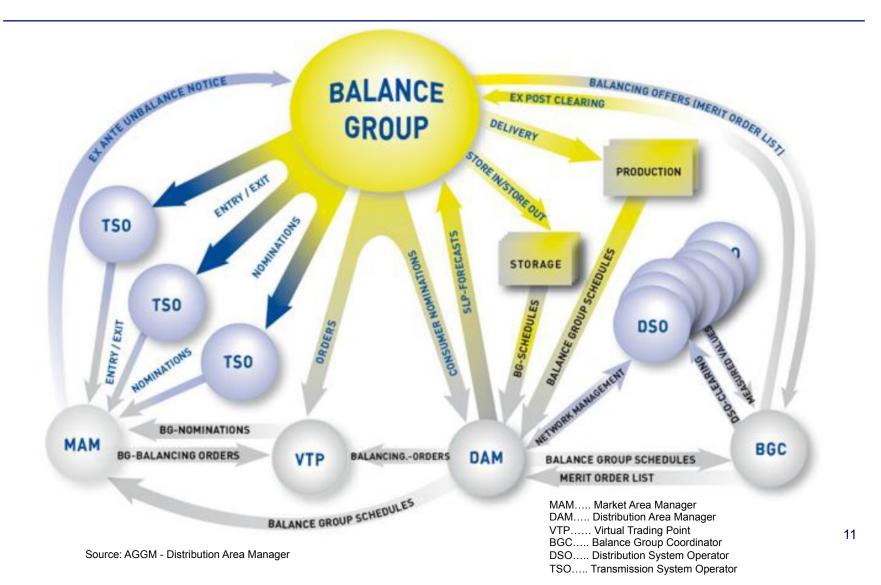




Balancing

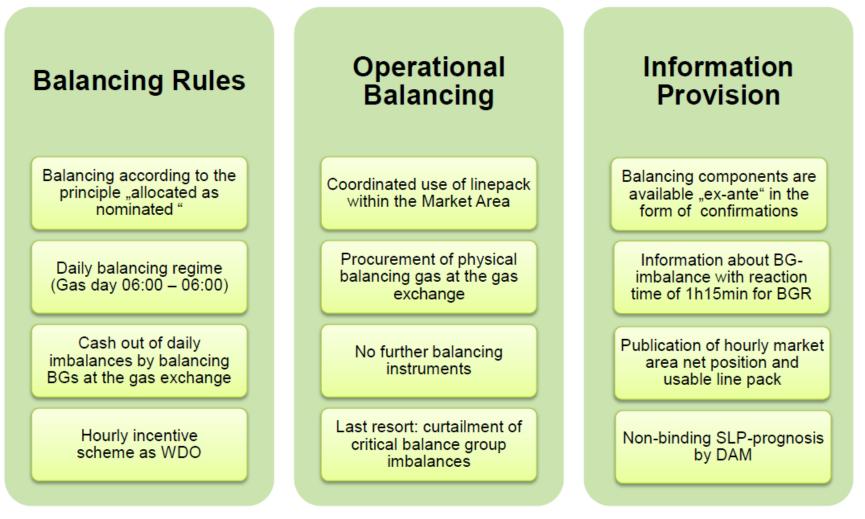
Balance Group Model





Fundamentals of the Balancing System









Capacity allocation and congestion management

Allocation mechanism



- Standard capacity allocation mechanism: Auctions
- Yearly product start date: 1st October
- 10% reservation for short-term capacity ensures that capacity is always available as quarterly and/or shorter duration products (< 1 year products: Q, M, D, WD)
- 10% reservation for mid-term capacity (yearly products,
 ≥ 1 year, ≤ 5 years)

Standard capacity product	Frequency of auctions	Number of products per auction per IP
Yearly	Annual	15
Quarterly	Annual	4
Monthly	Monthly (rolling monthly auction)	1
Daily	Every day	1
Within-day	Every hour	1 (balance of day)

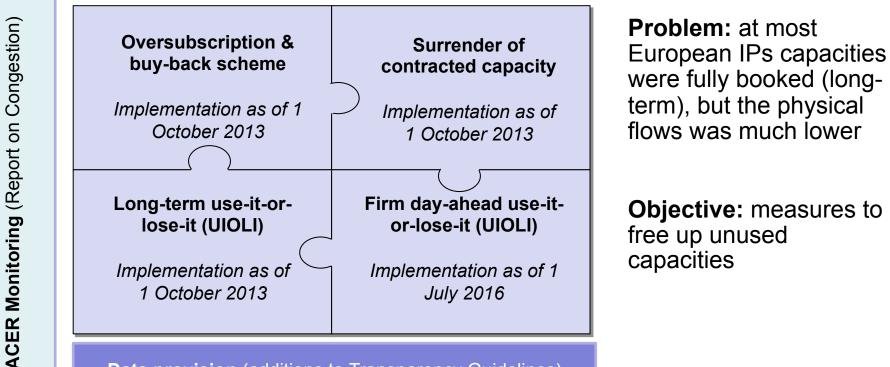




- PRISMA: Initiative to build a European-wide capacity booking platform
- most European TSOs became member of PRISMA
- <u>https://platform.prisma-capacity.eu/</u>
- 2 more regional booking platforms emerged, one in Poland (GSA) and one in Hungary (RBP)

Congestion Management Principles





Data provision (additions to Transparency Guidelines)

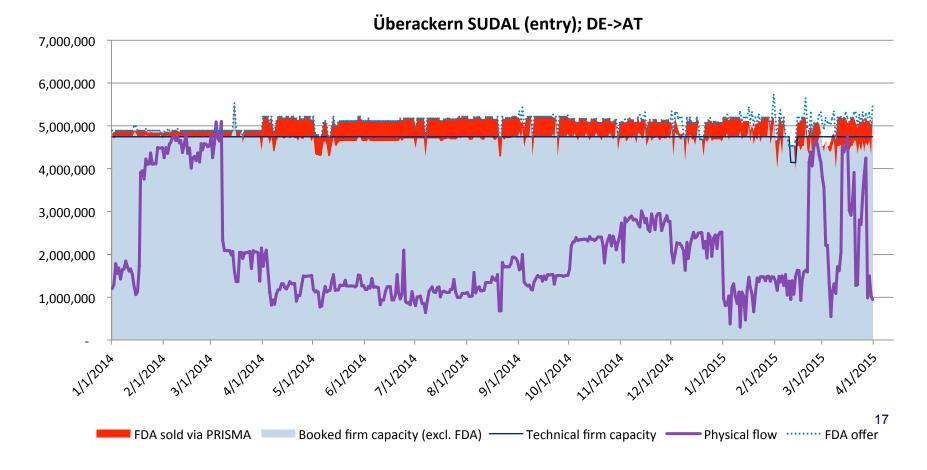
Scope

- CMP Guidelines apply at IPs between adjacent entry-exit systems
- Application to IPs with non-EU countries decided by the NRA

Effects of firm day-ahead UIOLI



- FDA UIOLI freed up 10% of technical capacity
- Capacity successfully allocated in Day Ahead auction



Conclusions



- Entry-exit systems do not distinguish between transit and domestic shippers
- Concentration of trading activities at VTP to realise a functioning wholesale market
- Balancing based on liquid wholesale market
- Auctions as market-based and non-discriminatory allocation mechanism
- Congestion management to ensure efficient use of the existing infrastructure



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