TOWARDS A TARGET MODEL FOR THE EUROPEAN NATURAL GAS MARKET

The Academic View

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ERGEG Workshop

Vision for a Conceptual Model for the European Gas Market

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THE EUROPEAN GAS TARGET MODEL

- A research project developed by
 - Florence School of Regulation
 - Clingendael International Energy Programme
 - -Wagner, Elbling & Co.
- with support from:
 - E-Control, Gmbh.
 - Bundesnetzagentur
 - Net4Gas,...

WORKING METHOD (1)

Top-down approach: models first, then areas of integration

Capacity Allocation, Congestion
Management, Balancing, Tariffs,
Interoperability, Operational Procedures,
Market transparency, Investment, Cross
Border Services

The European regulatory process usually follows a bottom up approach:

- analyse each area in turn, then assess their interaction and interdependence (Madrid Conclusions)
- more suitable for political compromise
- lack of vision → higher risk of mismatching between regulation areas



WORKING METHOD (2)

The projects adopts a Top-down approach:

- providing a vision
- outlining its main consequences for integration areas
- exploring links and relationships between the areas
- considering principles of target model where already outlined by ERGEG Framework Guidelines (CA/CM, balancing)
- learning from other experiences (US gas market, electricity target model)
- A sample of system operators and other stakeholders act as discussants and may advance proposals



POLITICAL GOALS

to establish an internal market in natural gas to deliver more cross border trade, to ultimately achieve efficiency gains, competitive prices to contribute to security of supply and sustainability eliminating restrictions on trade, fostering market-integration reaching an appropriate level of cross-border gas interconnections capacity



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POLITICAL GOALS: COMMENTS

Not a single gas price, but gas can effectively cross borders technical, regulatory and financial conditions CM, balancing affected



LEGAL CONSTRAINTS

Entry-exit systems required

- Cost-reflective tariffs providing incentives to invest or value-reflective auctions
- Endeavour to harmonize balancing regimes, streamline structure & level of balancing charges
- Promote coordinated allocation of cross border capacity
- Mandatory market based CA/CM
- Implicit auctioning explicitly allowed for short term allocation



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GENERAL MODEL: ERGEG VIEW

"a set of entry/exit market zones with their own virtual hubs connected through a limited number of bundled capacity products identical all over the EU and allocated via auctions"

GENERAL MODEL: ERGEG VIEW



AVAILABLE MODELS

American model at odds with some legal constraints and with European institutional structure

– no interstate pipelines in EU

CBT model:

- strengthened, streamlined CA/CM/trading arrangements
- separate places of price formation
- separate balancing accounts

Model requirements:

- compatible with regulated tariffs, explicit auctions
- ITC required but easier in principle than for power due to higher flow predictability 10



AVAILABLE MODELS (2)

- CBB: same as before, but CB imbalances offset expost
 - likely to enhance liquidity and price alignment
- Market coupling: same as above, with a market operator (arbitrageur) acting to align market within available capacity limits
- Market splitting: same as market coupling, but the arbitrageur would be the common market operator as well
 - basically one market, split if interconnection capacity is congested
- Model requirements. as above, with ITC and higher TSO/MO collaboration, single CA/CM algorithms,



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AVAILABLE MODELS (3)

- LMP: same as before, with single balancing accounts, single price excepts in case on congested interconnection(s)
 - price alignment is the rule
- In all cases, participating markets may be regions that have decided to merge balancing accounts, MO
- Issue: should(could optimal participating regions be centrally decided?
- Model requirements. as above, with ITC and higher TSO/MO collaboration, single CA/CM algorithms,



THANKS FOR YOUR ATTENTION!

COMMENTS AND PROPOSALS WELCOME TO:

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