

Intraday Capacity Pricing

European Energy Regulators' Workshop

CLIENT: Ofgem **DATE:** 27/10/2014

Reputation built on Results

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- Approach
- Challenges
- Options
- Assessment
- Further analysis
- ► Q&A



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- Allocative efficiency
- No distortion
- Investment signals
- Fairness of allocation
- Simplicity





Allocative efficiency

No distortion

- Investment signals
- Fairness of allocation

Simplicity

Avoid unutilised capacity where there is a price differential





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Potential difference in rent distribution between DA and ID markets





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Reduced ID congestion rents





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Difficult with continuous trading during sudden changes





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Find balance between theoretical optimum and practical issues of transparency





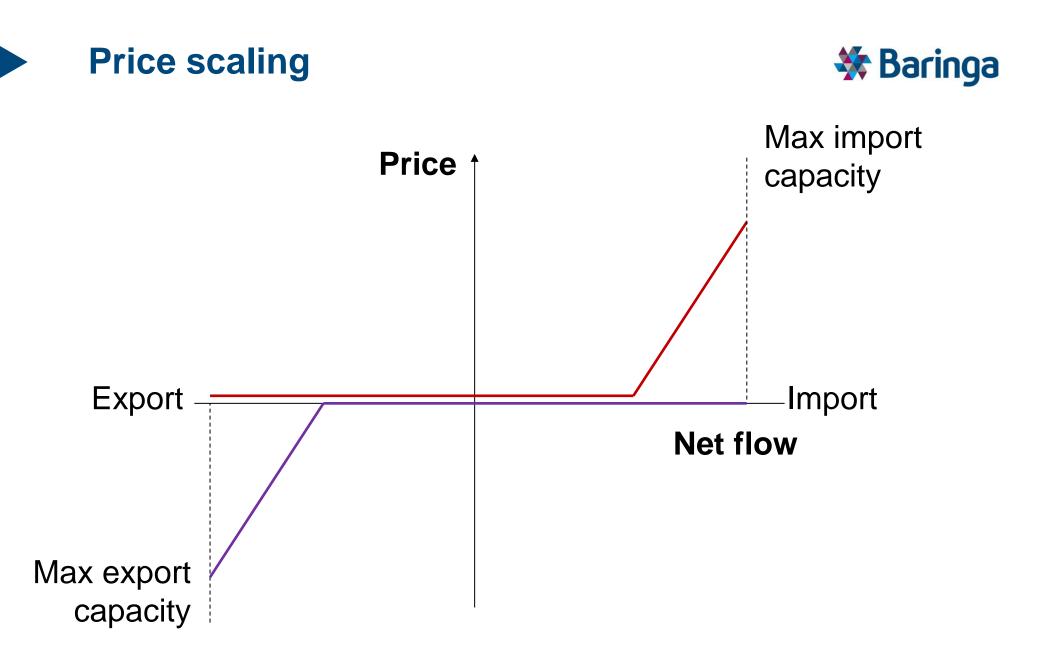
Capacity is being used to arbitrage a price spread...

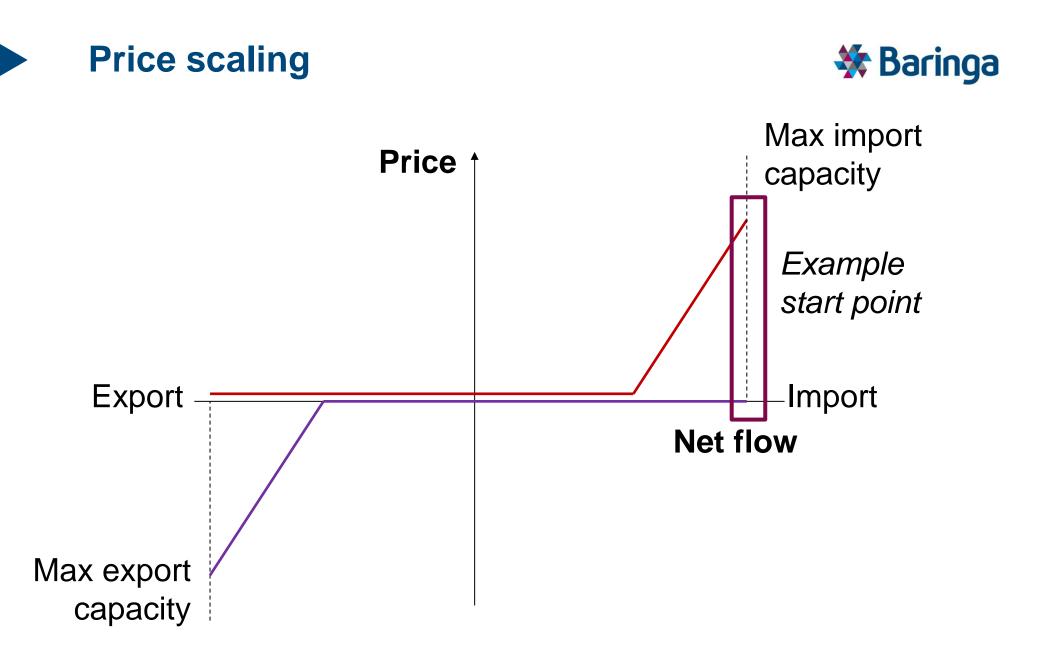
...but outturn spread not known in advance...

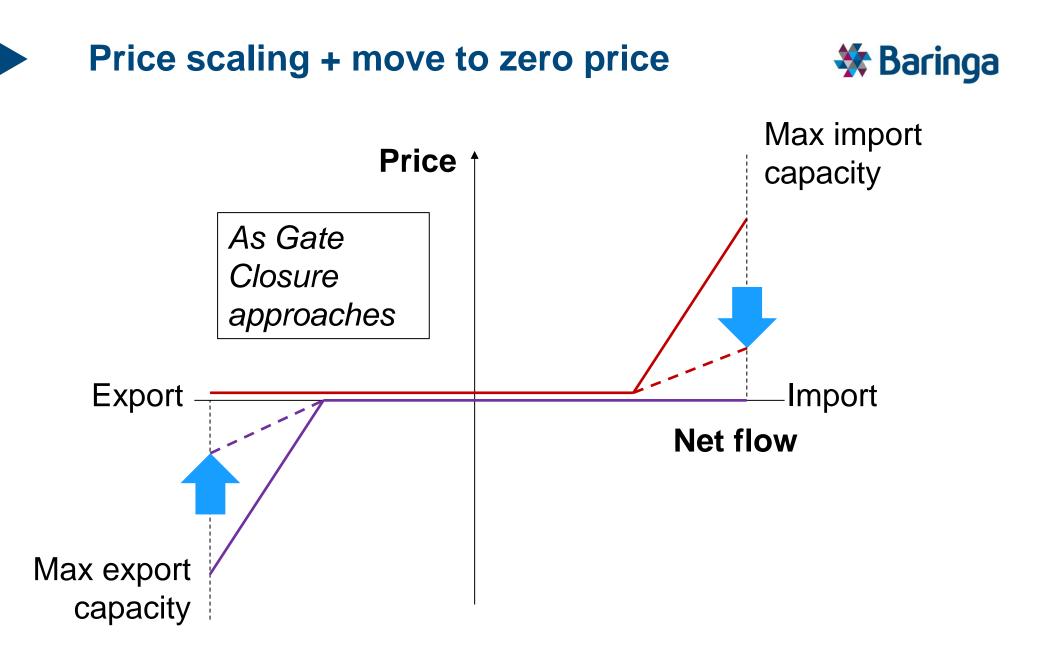
...so need (some) price discovery

Allocate tranches at different prices

Energy bids/offers visible in neighbouring market adjusted by this price









Dynamic pricing

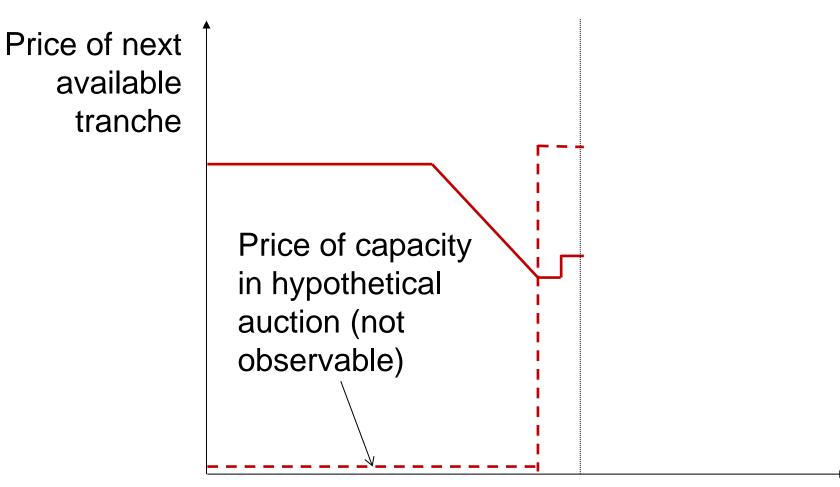
Price of next available tranche

> Price of capacity in hypothetical auction (not observable)

Time before Gate Closure



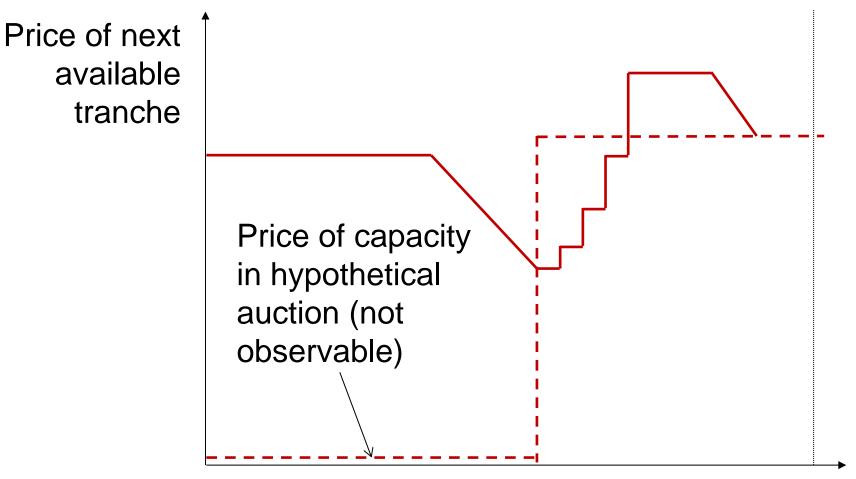
Dynamic pricing



Time before Gate Closure



Dynamic pricing



Time before Gate Closure





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Allocate tranches at different prices

...or sell rights and let market participants decide





...or sell rights and let market participants decide

- Auction capacity rights shortly after DA auction
- Track rights by participant on ID exchange
- Reflect starting state of implied flows
- UIOLI towards Gate Closure





Principle	Price Scaling	Move to zero price	Dynamic pricing	Auction of rights
Allocative efficiency				
No distortion				
Investment signals				
Fairness of allocation				
Simplicity				
Compliance				

Further analysis



- Define parameters
 - Little empirical evidence so start simple
 - Change process to enable updates as ID market develops
 - Metrics to evaluate performance against principles
- Define approach for capacity changes
- Assess system requirements



