



Wind Operation



Iain McIntosh – Future Requirements Manager
Electricity Operational Forum, August 2011

Wind Articles – End of April

Wind farms paid £900,000 to
switch off for one night

Daily Telegraph 1st May 2011

Wind farms paid £900,000 to
switch off

Sunday Times 1st May 2011

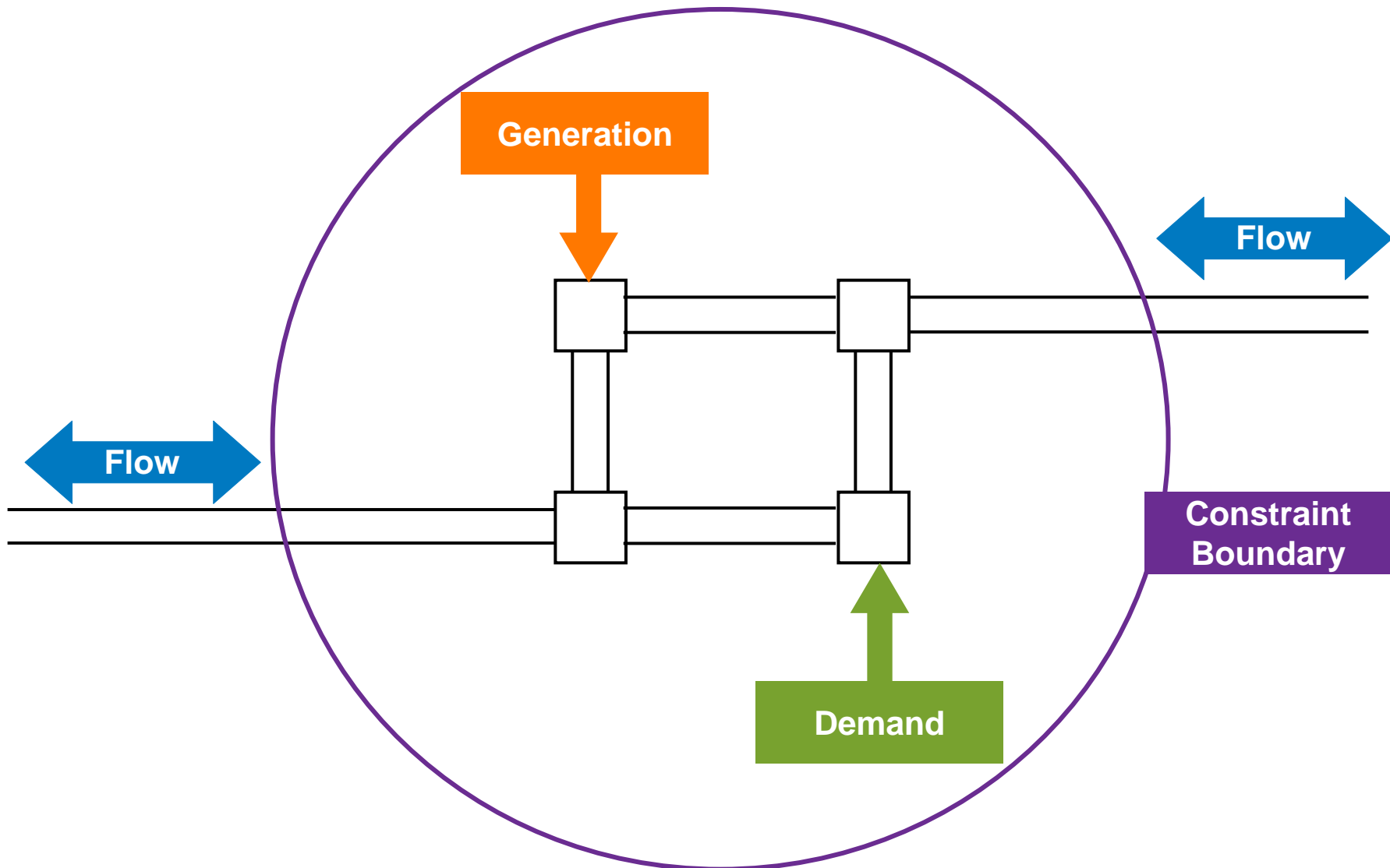
Wind farms paid cash to stop
producing energy

BBC Online 1st May 2011

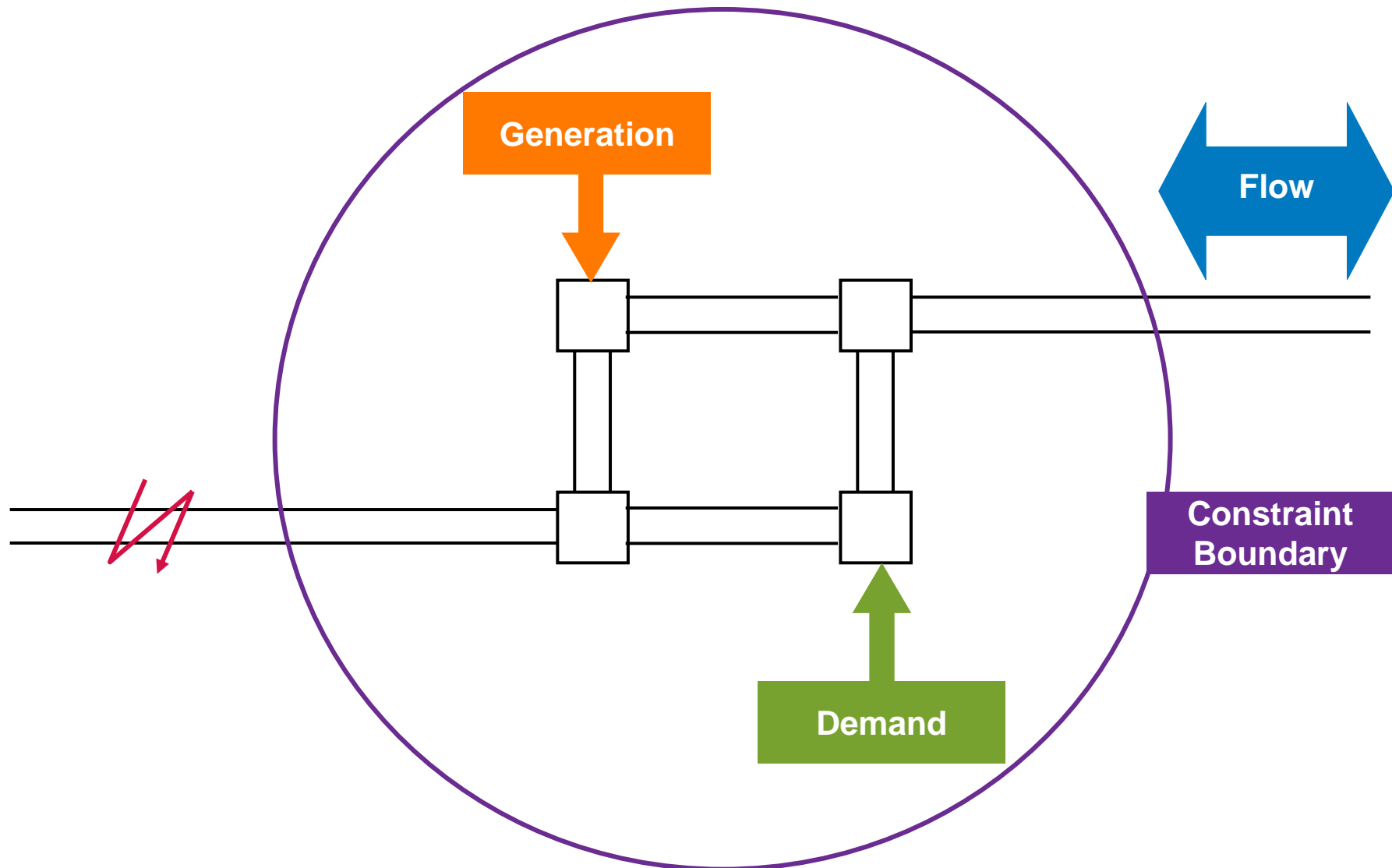
Actions Taken on Wind

- What is a constraint
- A closer look when actions on wind were taken
- High level numbers of the actions taken to date
- The cost of the actions taken on wind
- The timing of the actions taken on wind
- Details of the upcoming consultation

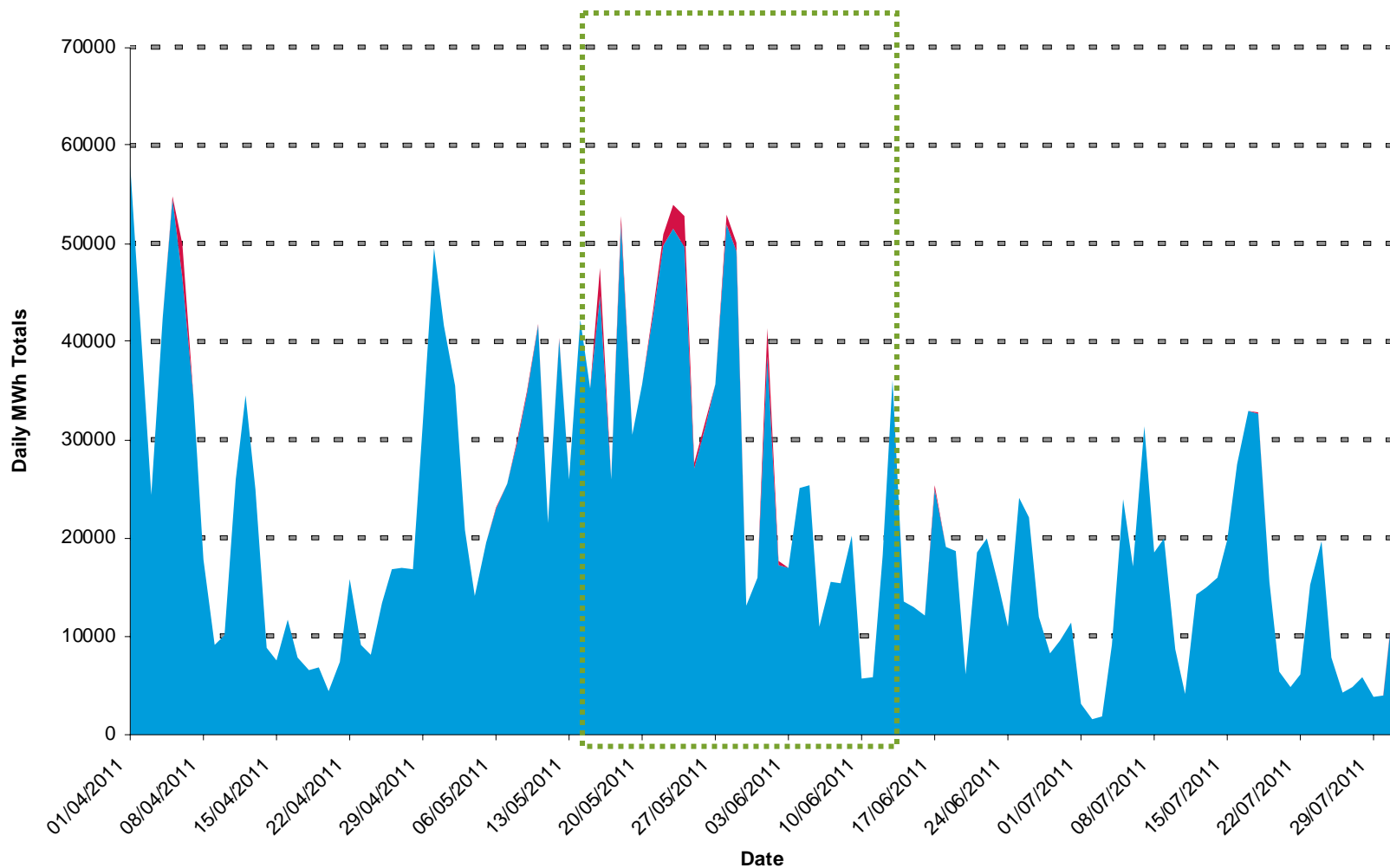
What is a constraint?



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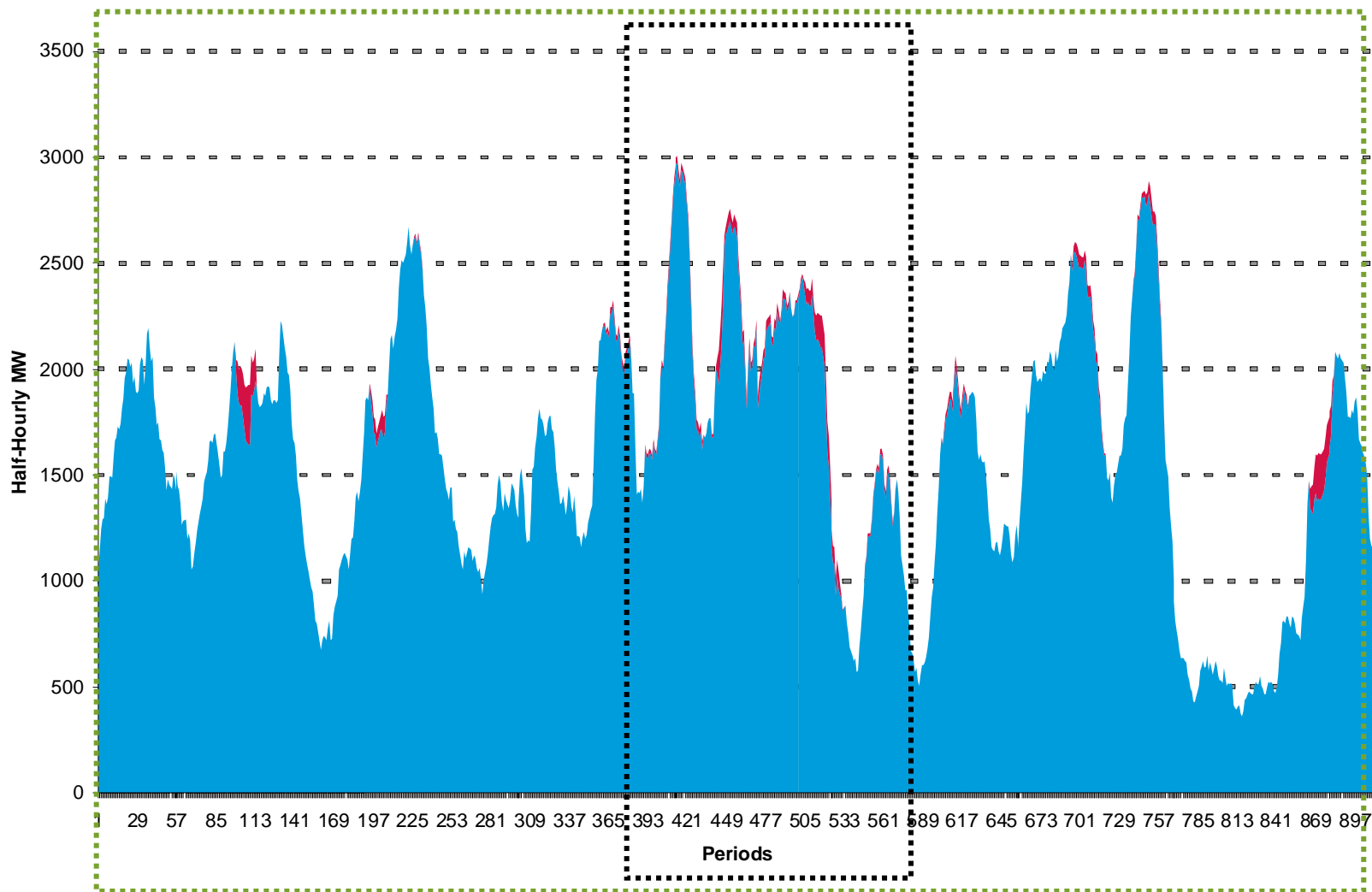
Wind Bids taken by National Grid



Wind Bids taken by National Grid - nationalgrid

THE POWER OF ACTION

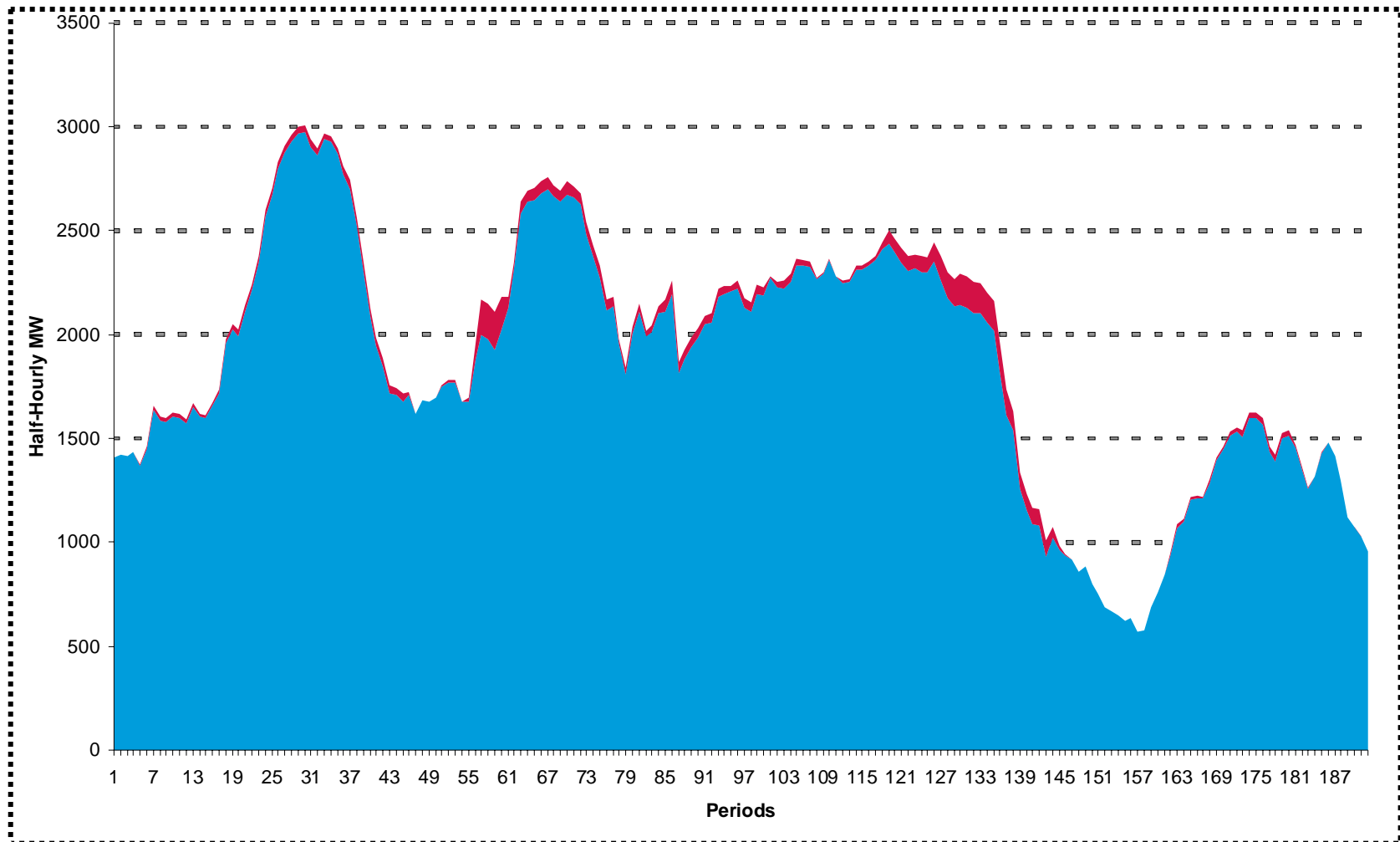
Zoomed



Wind Bids taken by National Grid – nationalgrid

THE POWER OF ACTION

Zoomed in more



Wind Data from April, May, June and July

For April, May, June and July
on National Grid Metered Wind

Total Wind Output

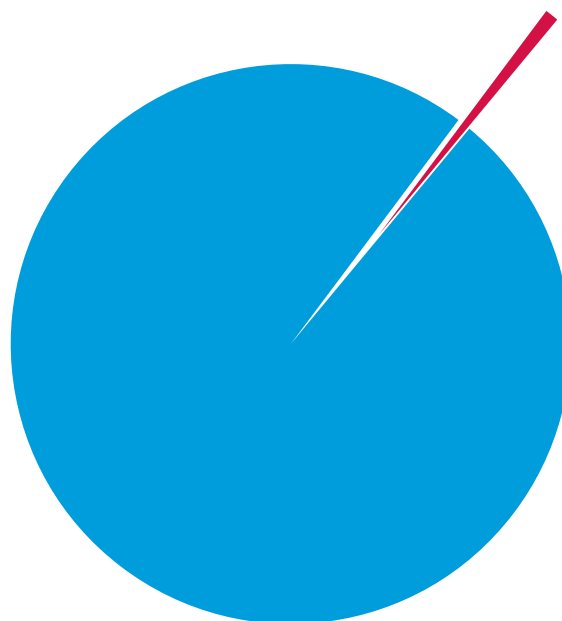
2,639 GWh

Potential Wind Output

9,961 GWh

Load Factor

26.5 %



Total Volume of Bids
Taken

22.9 GWh

% of wind output that
has been taken as bids

0.87%

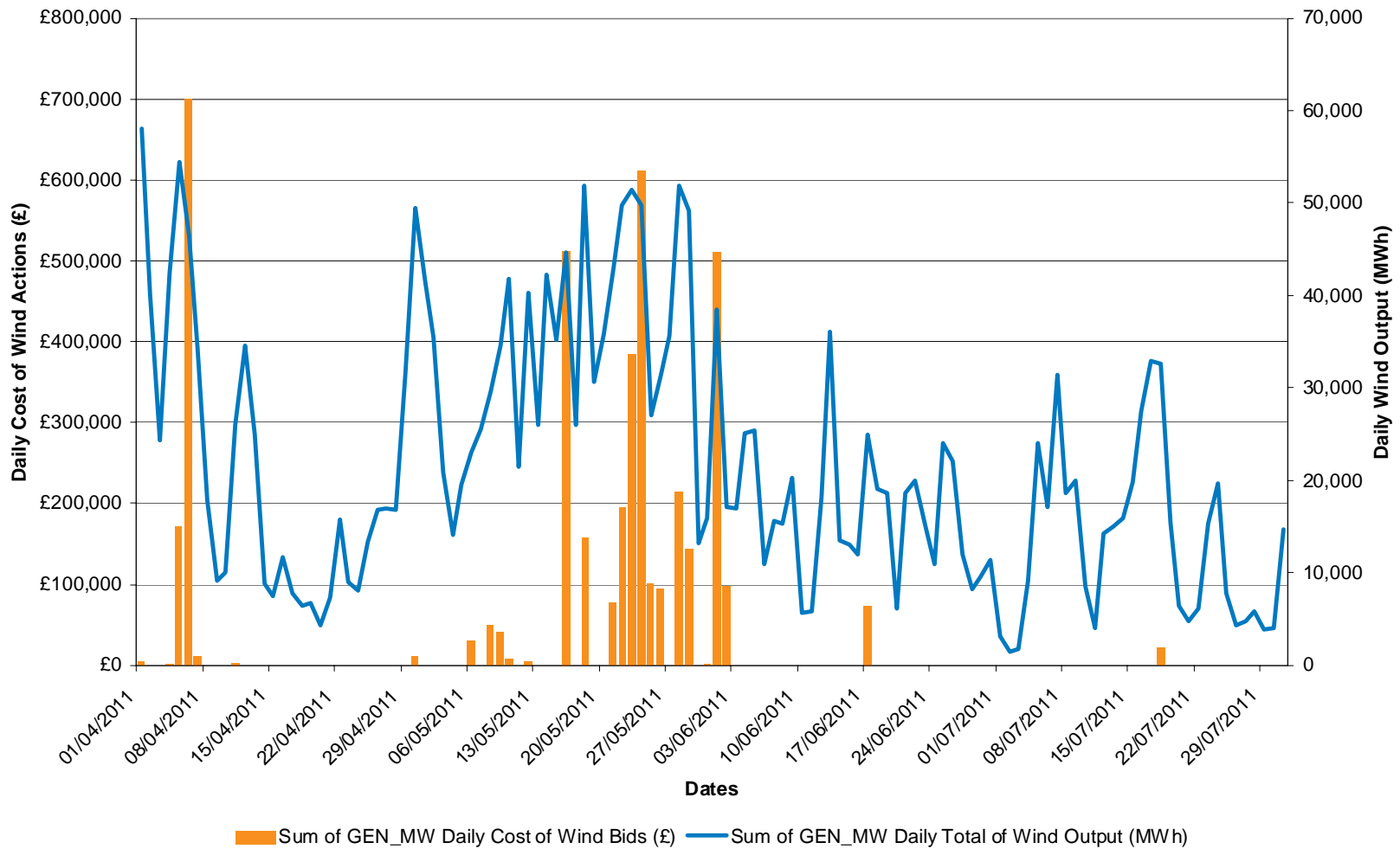
Total Cost of wind
actions in 2011

£4.23m

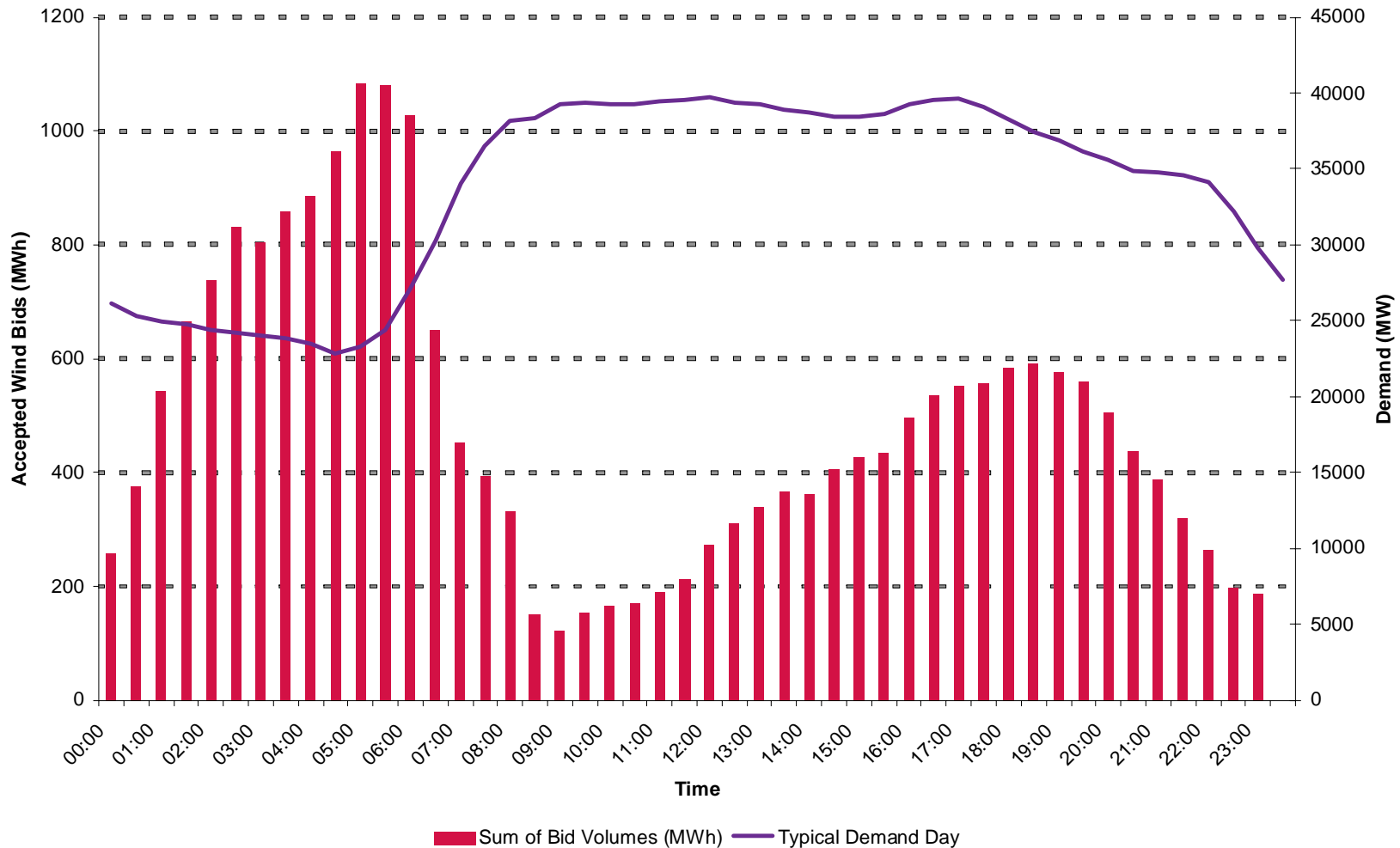
Cost of Wind Constraints

	Average Accepted Bid Price (£)	Volume of Bids Taken (MWh)	Total Cost of Bids
April	-£226.72	3,975	£901 k
May	-£174.59	1,5016	£2,622 k
June	-£179.30	3,800	£681k
July	-£150.00	145	£22 k
Total	-£184.27	22,935	£4,226 k

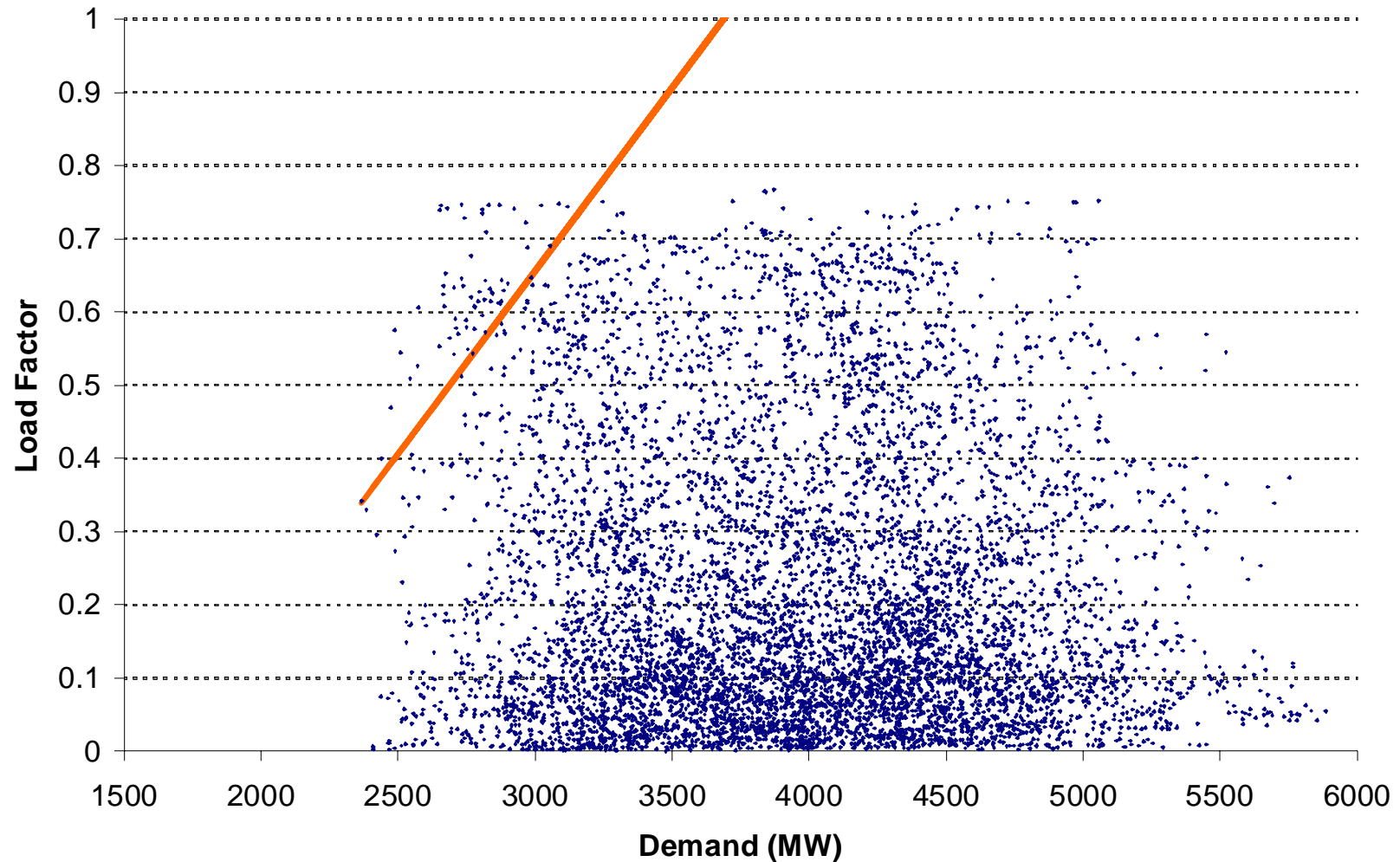
Daily Cost of Constraints



Timing of Bids



Probability of Wind Curtailment



· Load Factor — Curtailment = 0

The way forward

- Issues raised as a result of 5/6th April
 - Participation of generation within/out of Balancing Mechanism
 - System Security
 - Costs to Industry
- Consultation to be published in mid September 2011 to:
 - Outline the issue
 - Seek views on potential solution
- Consultation does not seek to prescribe solution