

Operational Update

Stuart Bailey, Balancing Services Manager



nationalgrid

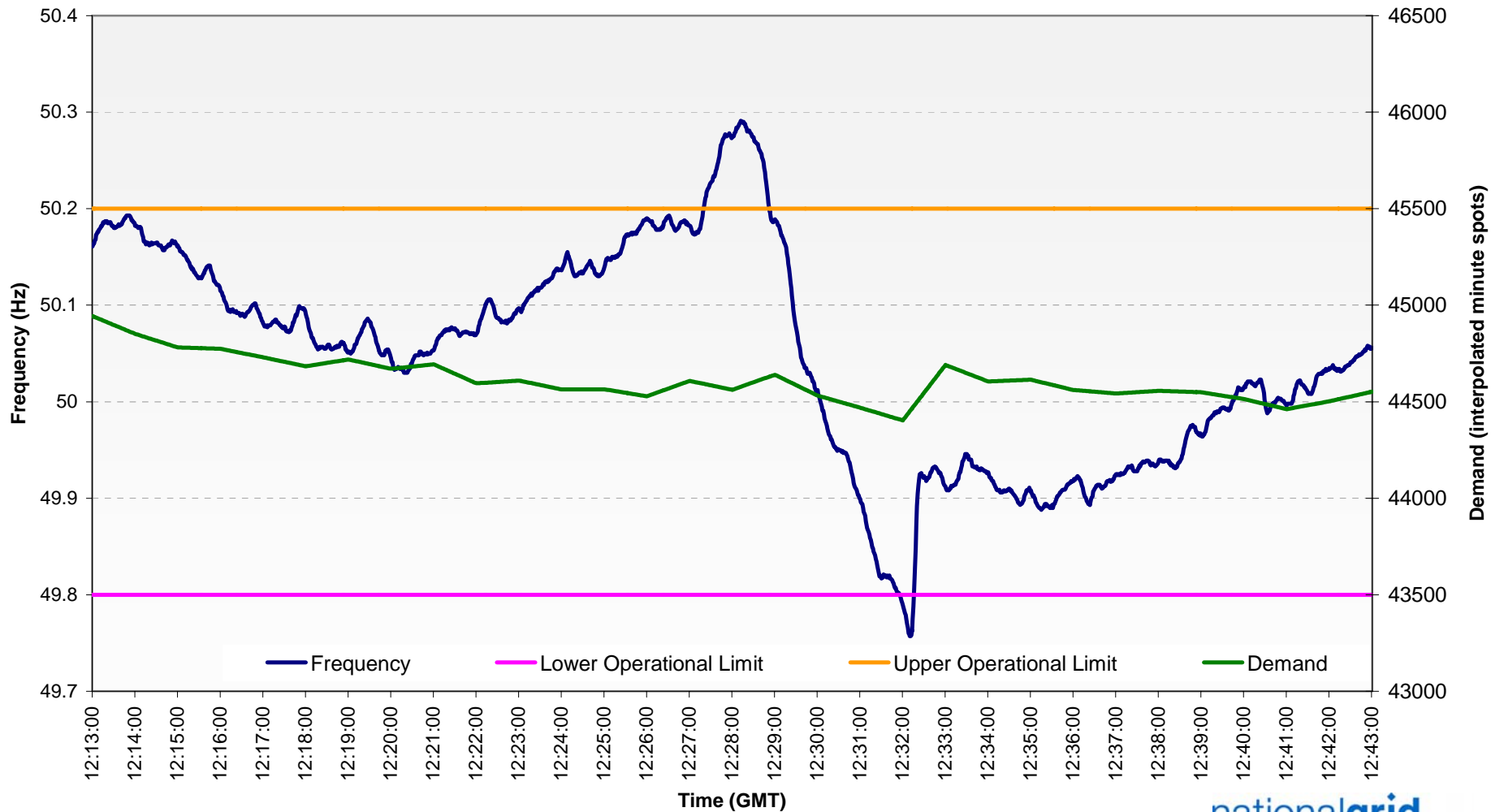
The power of action.™

Agenda

- ◆ Frequency events
- ◆ Demand pick-ups
- ◆ Capability Of Wind Farms To Follow BM Instructions

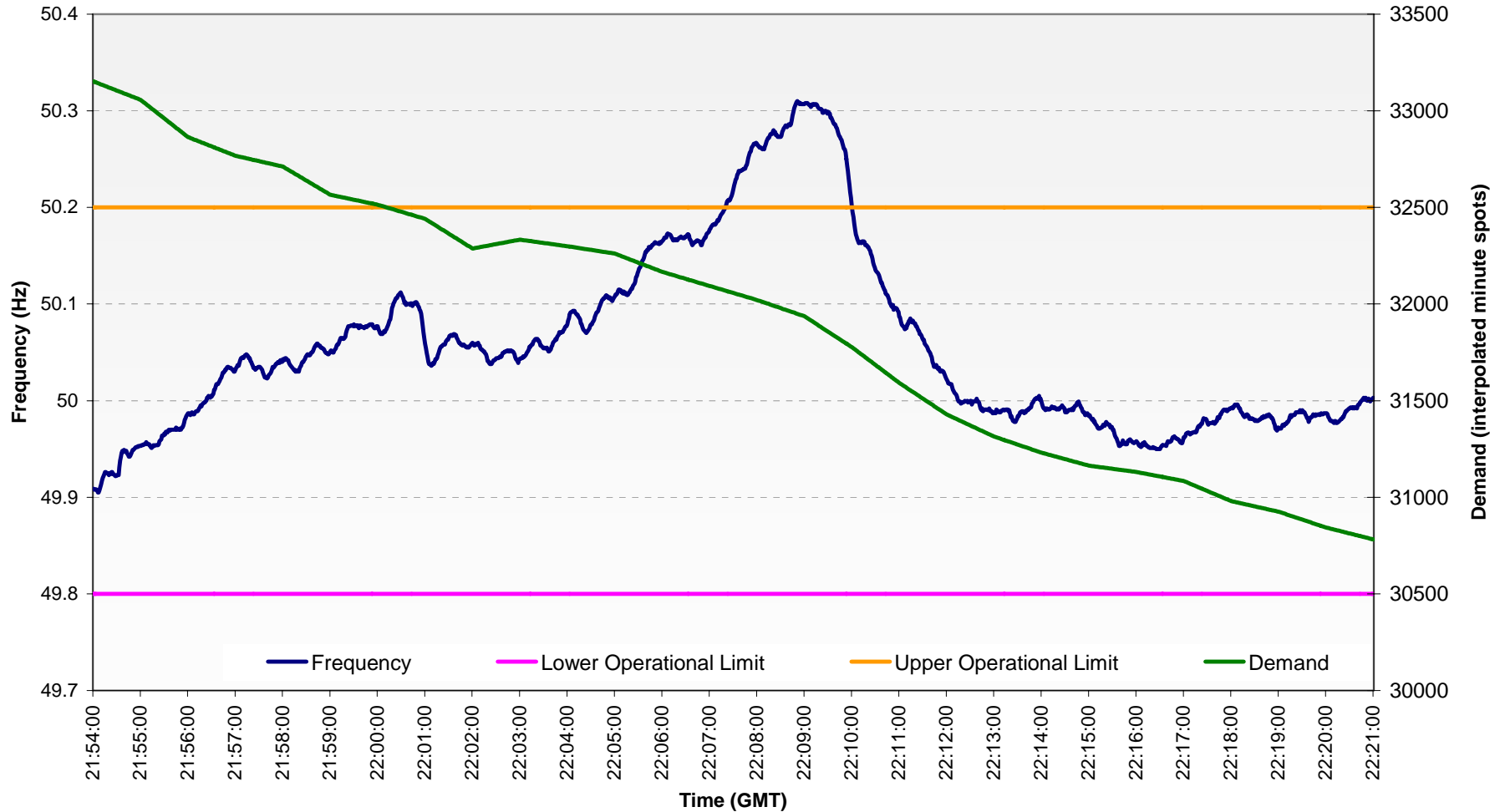
High and Low Frequency 30th March 2010

Frequency on 30/03/2010

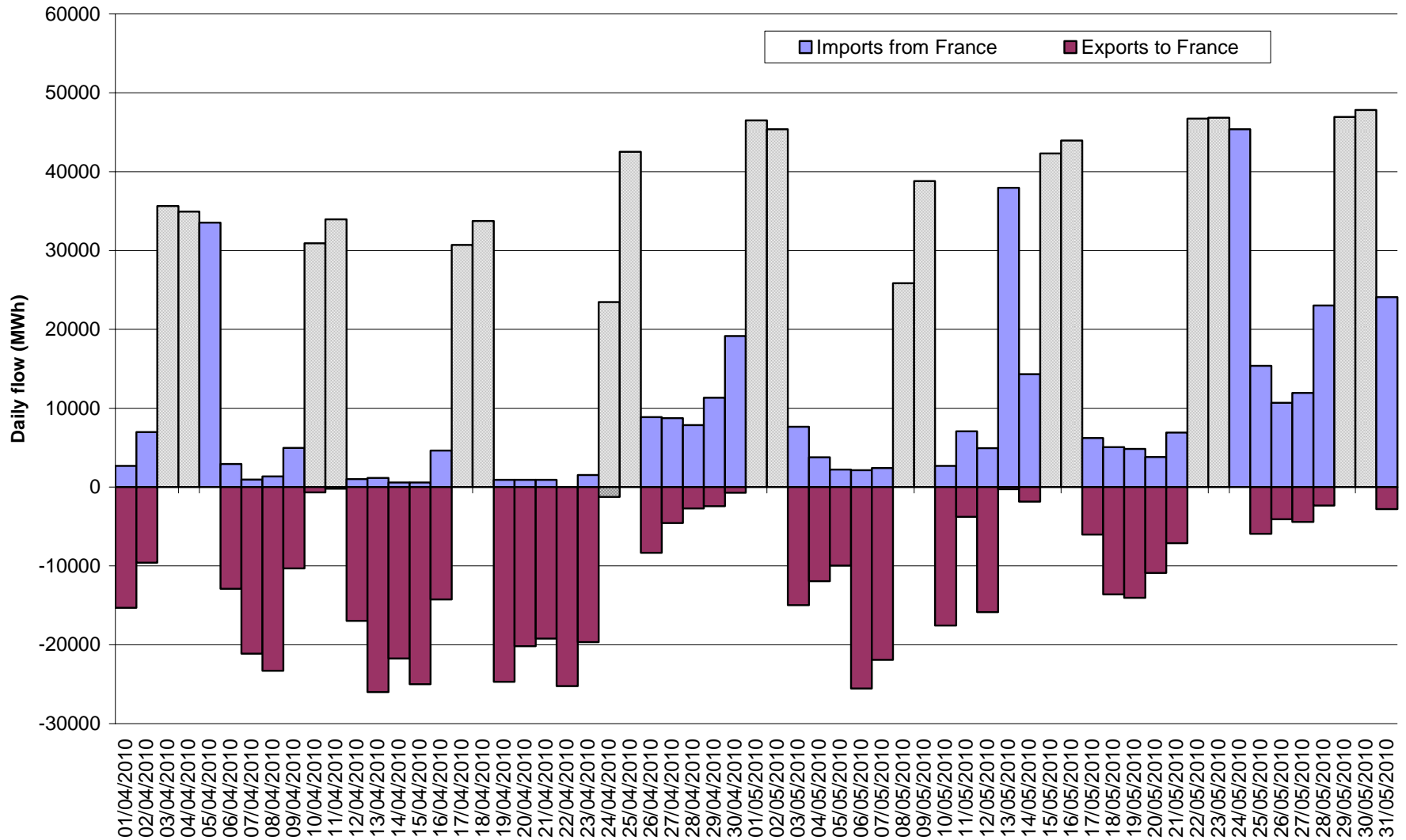


High Frequency 29th April 2010

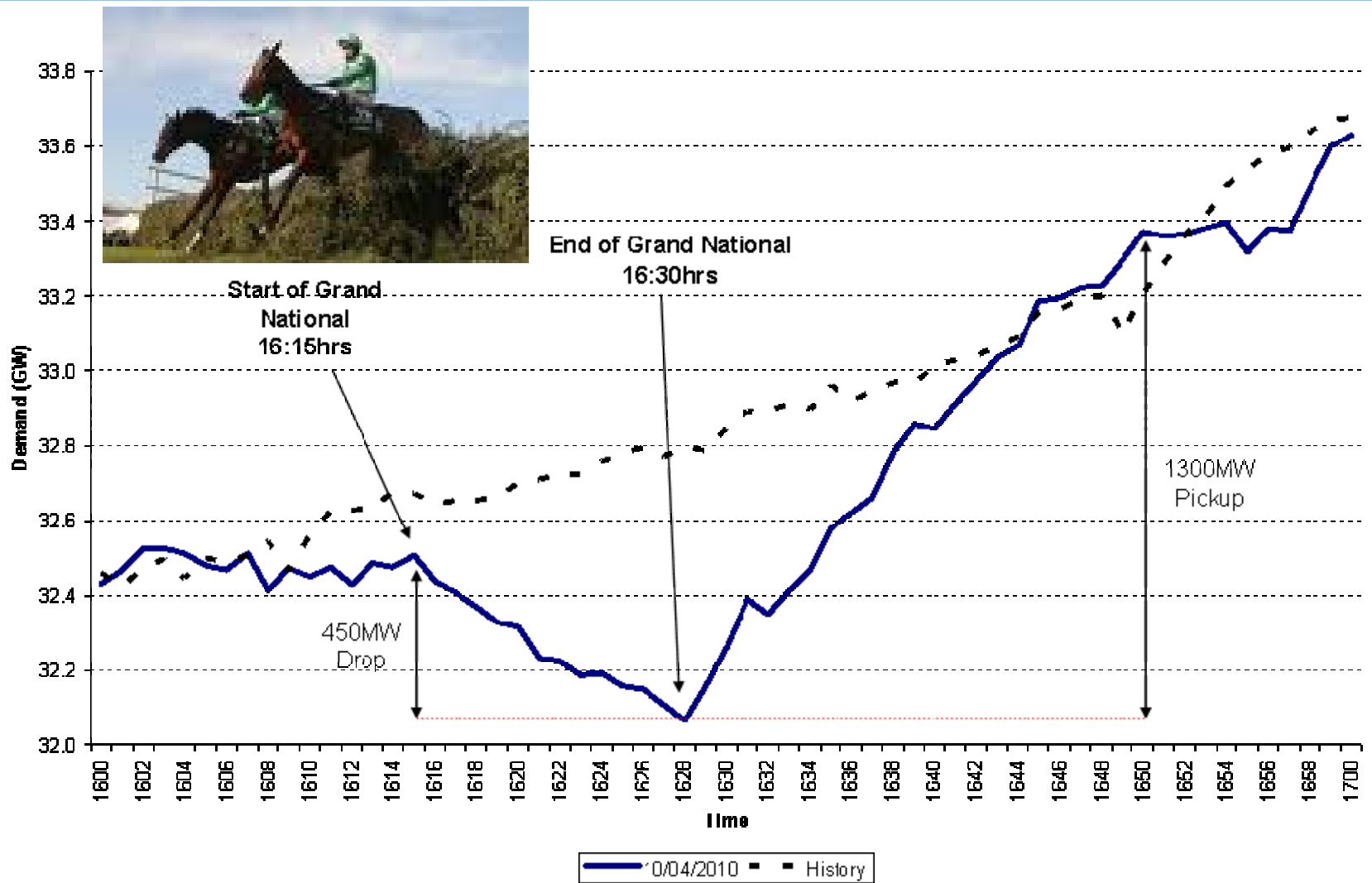
Frequency on 29/04/2010



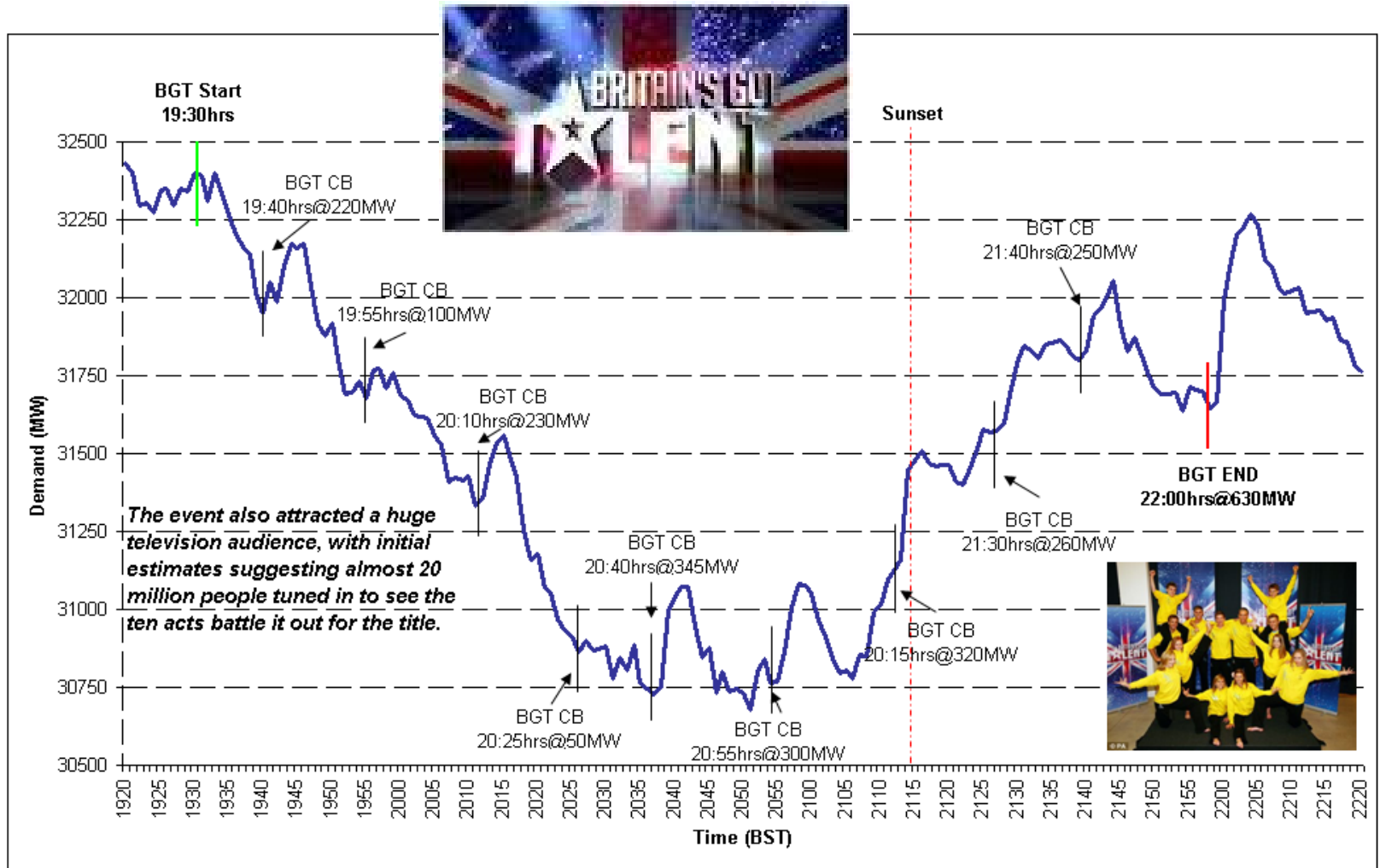
French Interconnector Flows – April/May 2010



Grand National - 10th April 2010

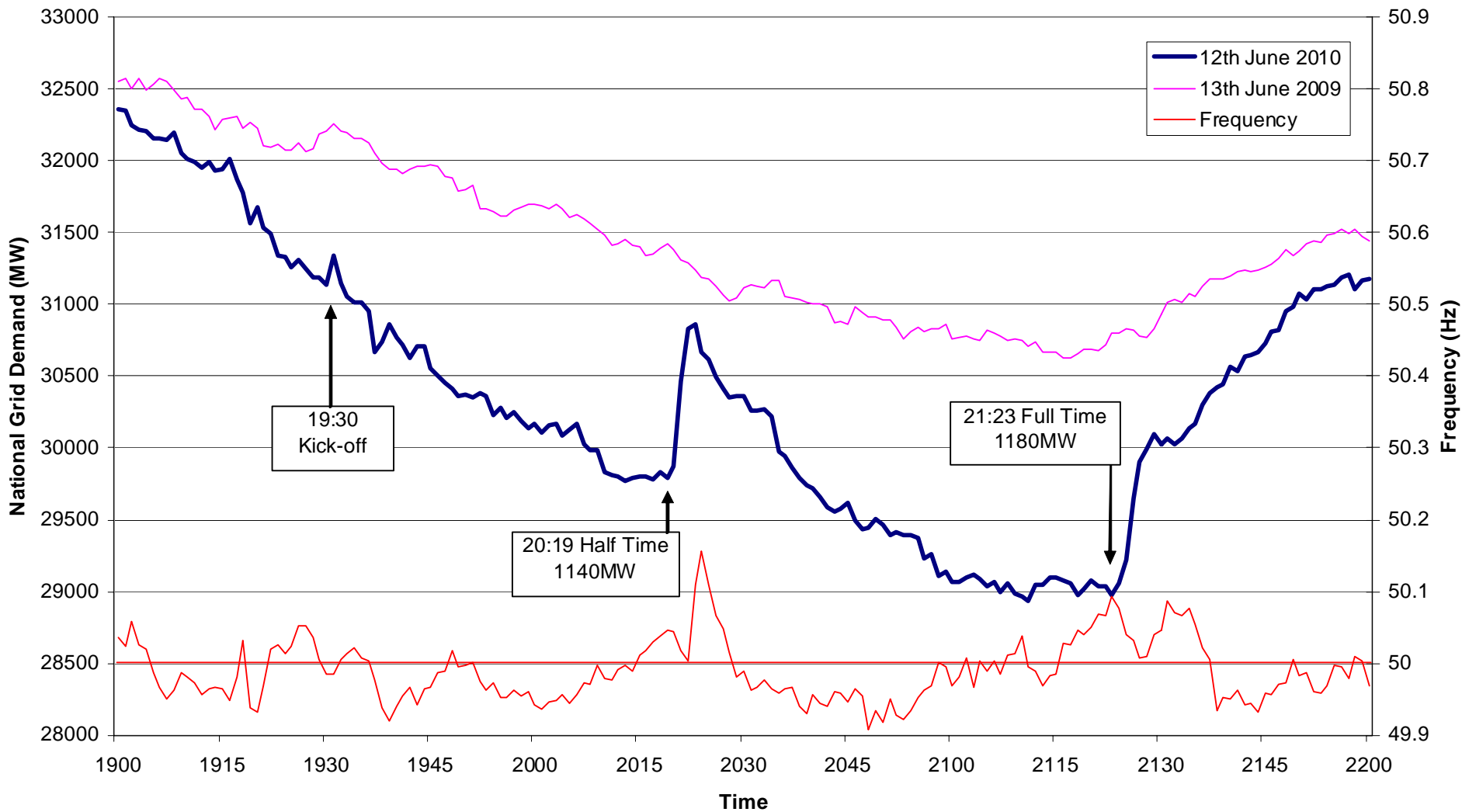


Britain's Got Talent Final - 5th June 2010



World Cup 2010 National Grid Demand and Frequency

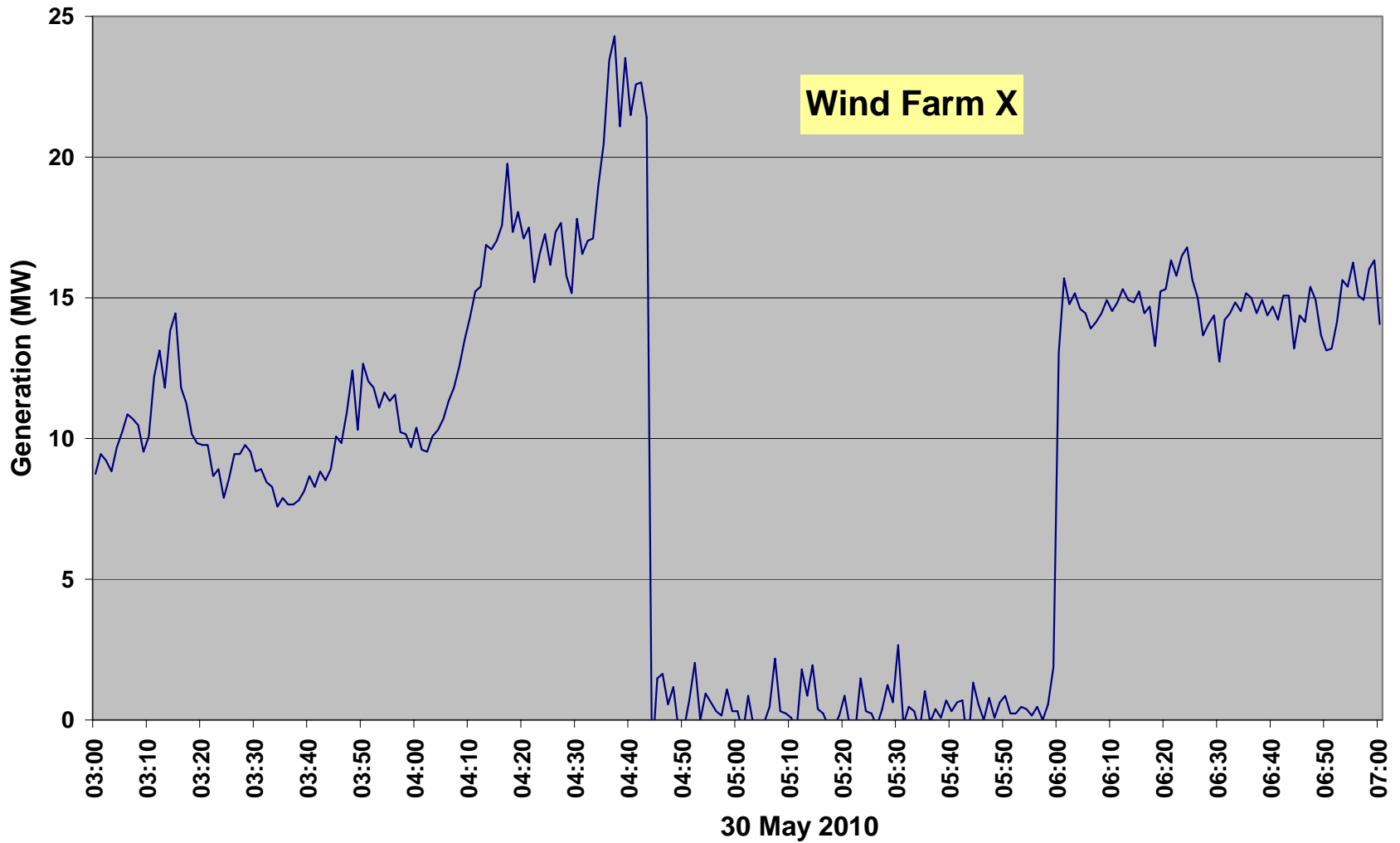
England v USA Saturday 12th June 2010



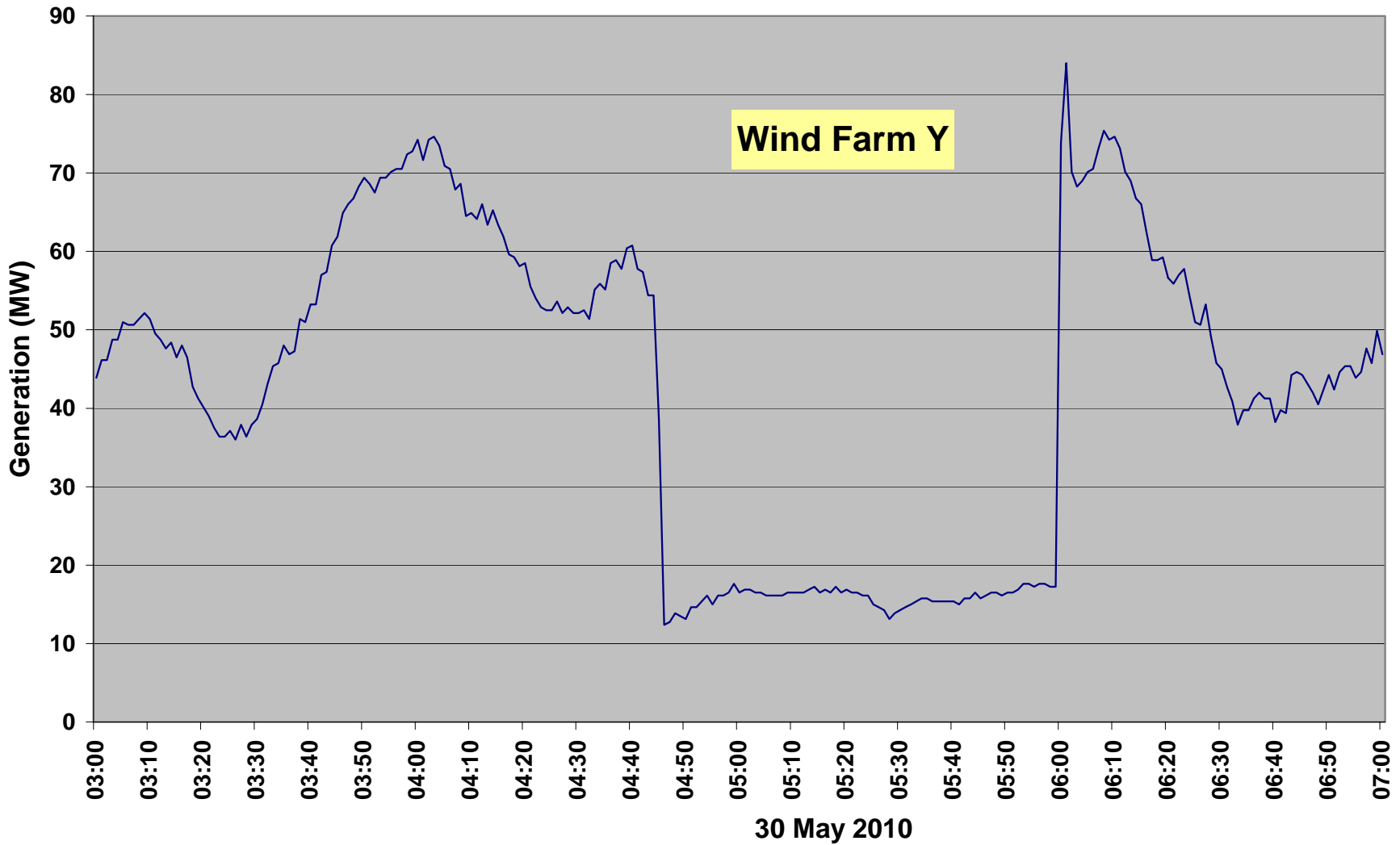
Capability of Wind Farms To Respond To BM Instructions

- ◆ This summer it is possible that the System Operator will need to reduce the output of wind farms under certain conditions
- ◆ We need to know that BM units can respond to instructions
- ◆ A planned test was performed on Sunday 30th May when we needed downward regulation
- ◆ Instructed two wind farms via verbal instruction to EMC.

Metered Output



Metered Output



Conclusions

- ◆ Limited sample but, overall, test was successful
- ◆ Couldn't instruct one wind farm to zero (would have required mechanical brake)
- ◆ Total cost of test around £13k
- ◆ BOA tagged as 'System'

SO Cost Update

Stuart Bailey, Balancing Services Manager



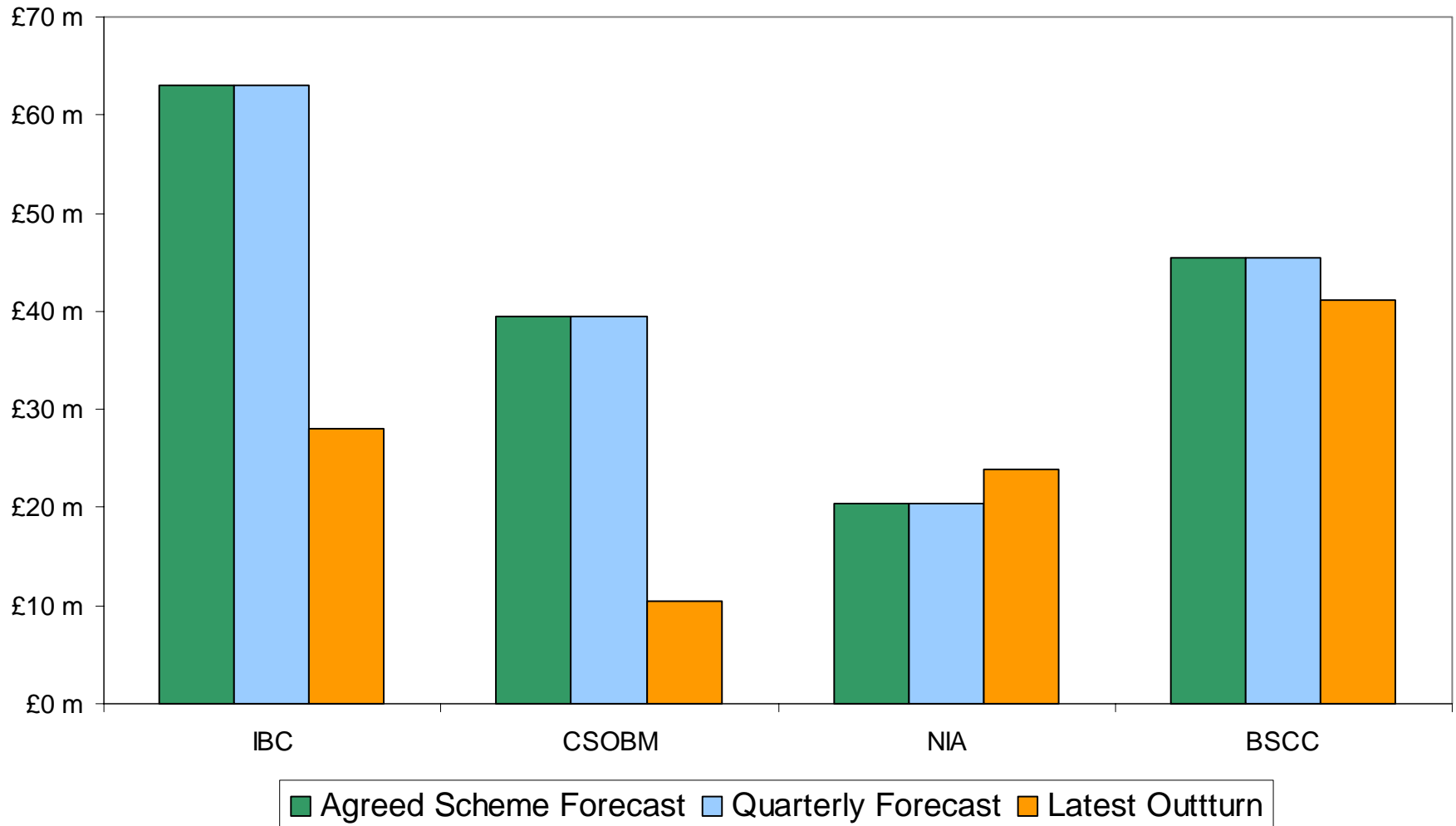
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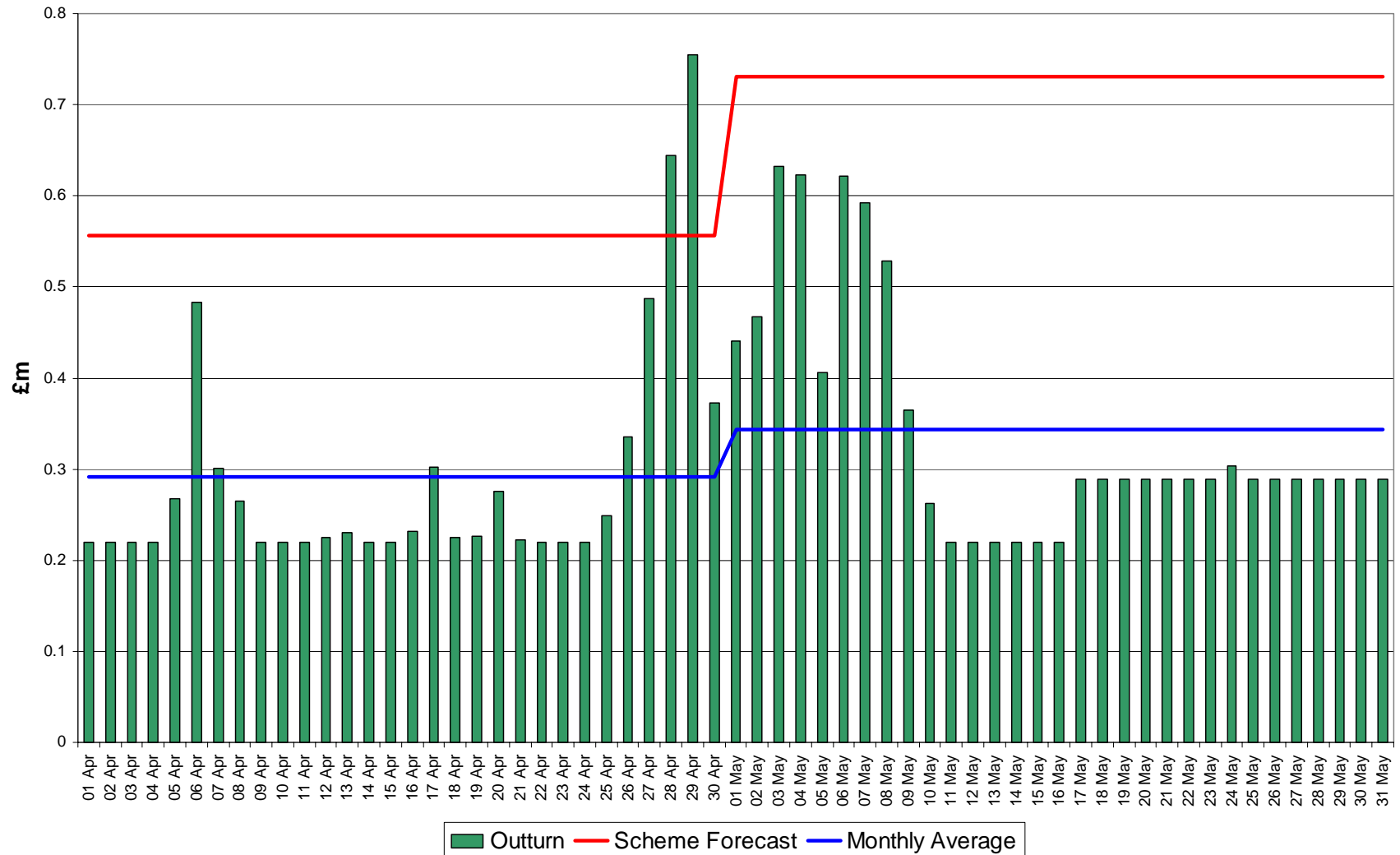
IBC component comparison – April 2010



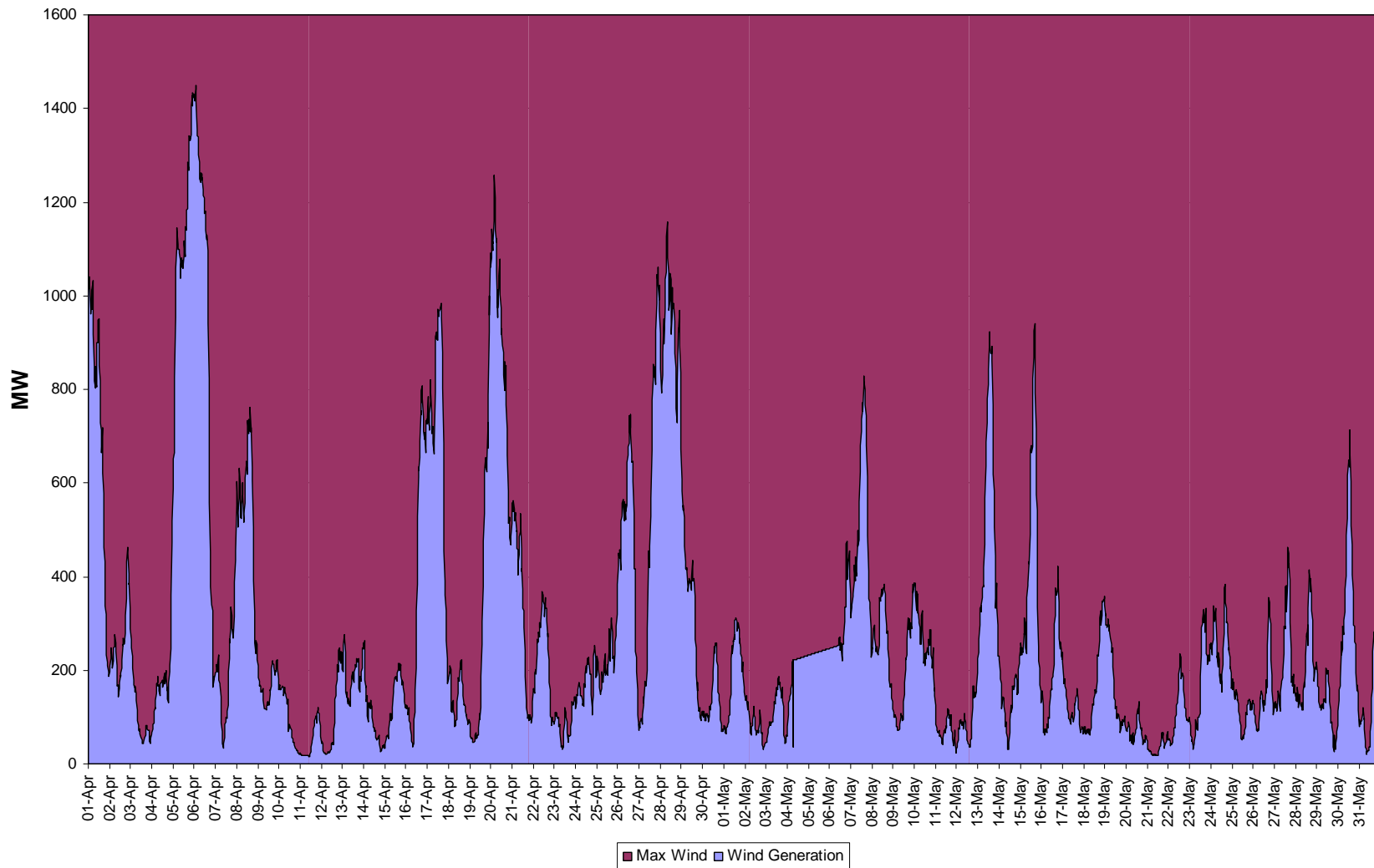
IBC component comparison – May 2010



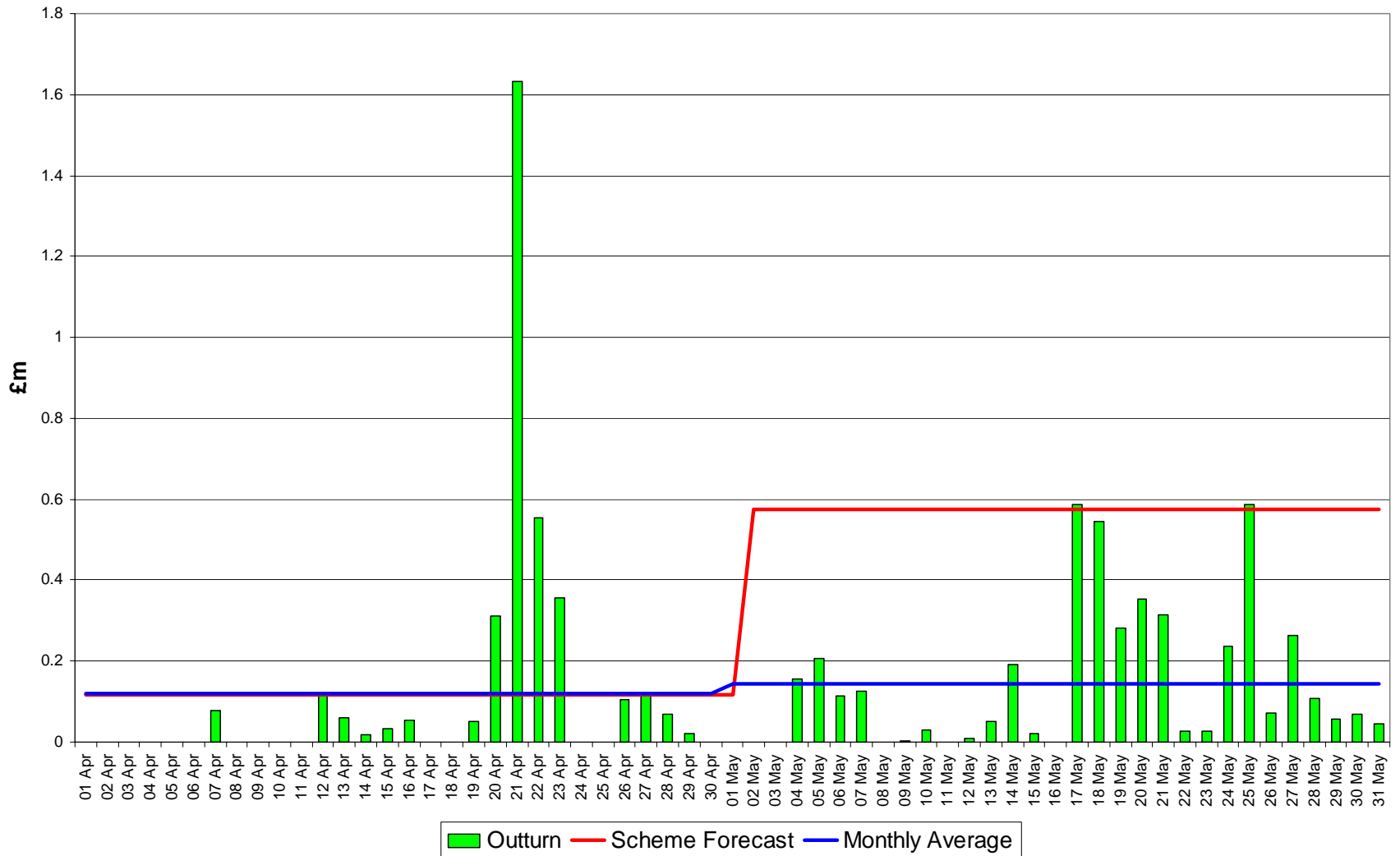
Constraint costs – Scotland + Cheviot – April/May 2010



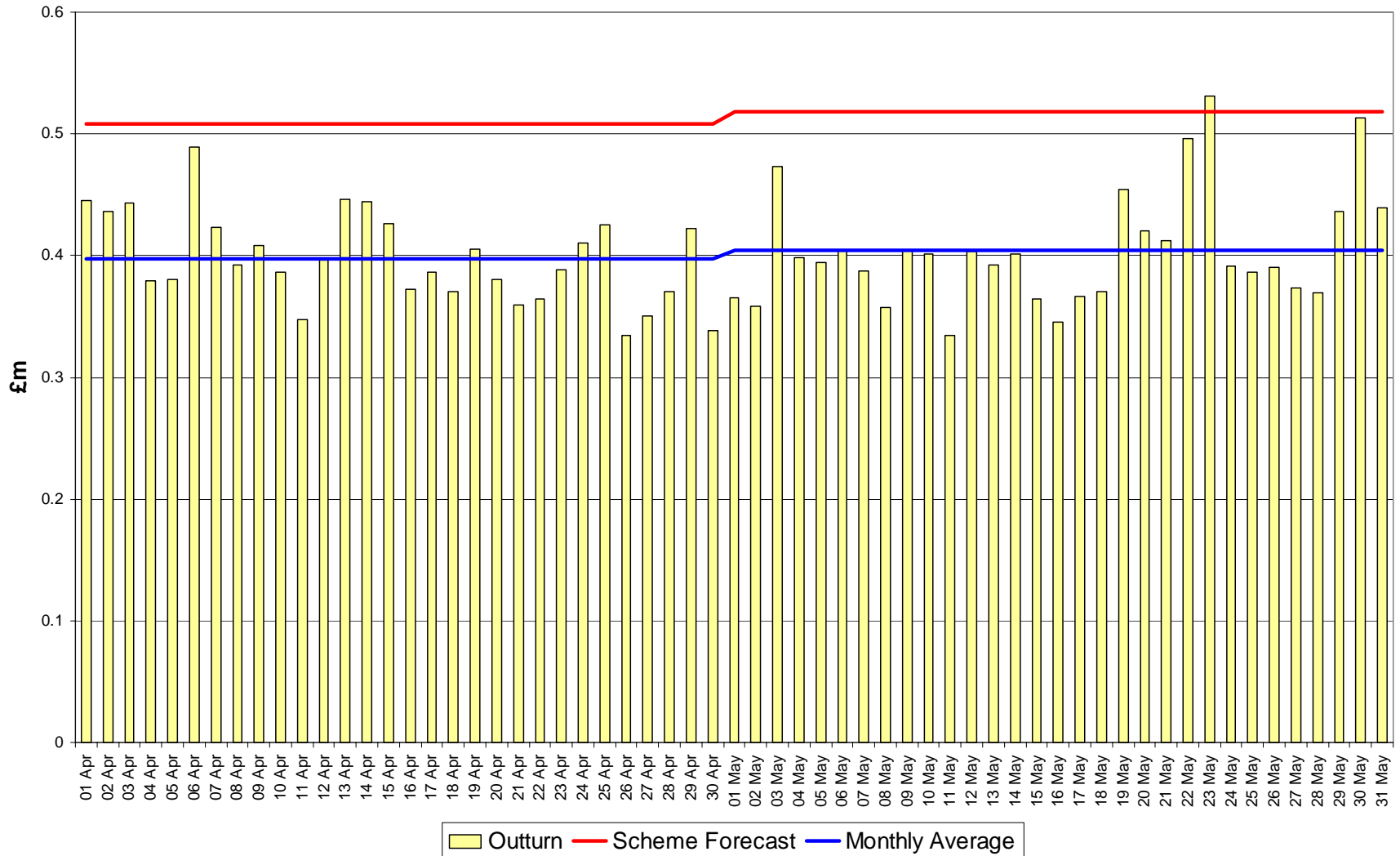
Wind Generation by BM Participants –April/May 2010



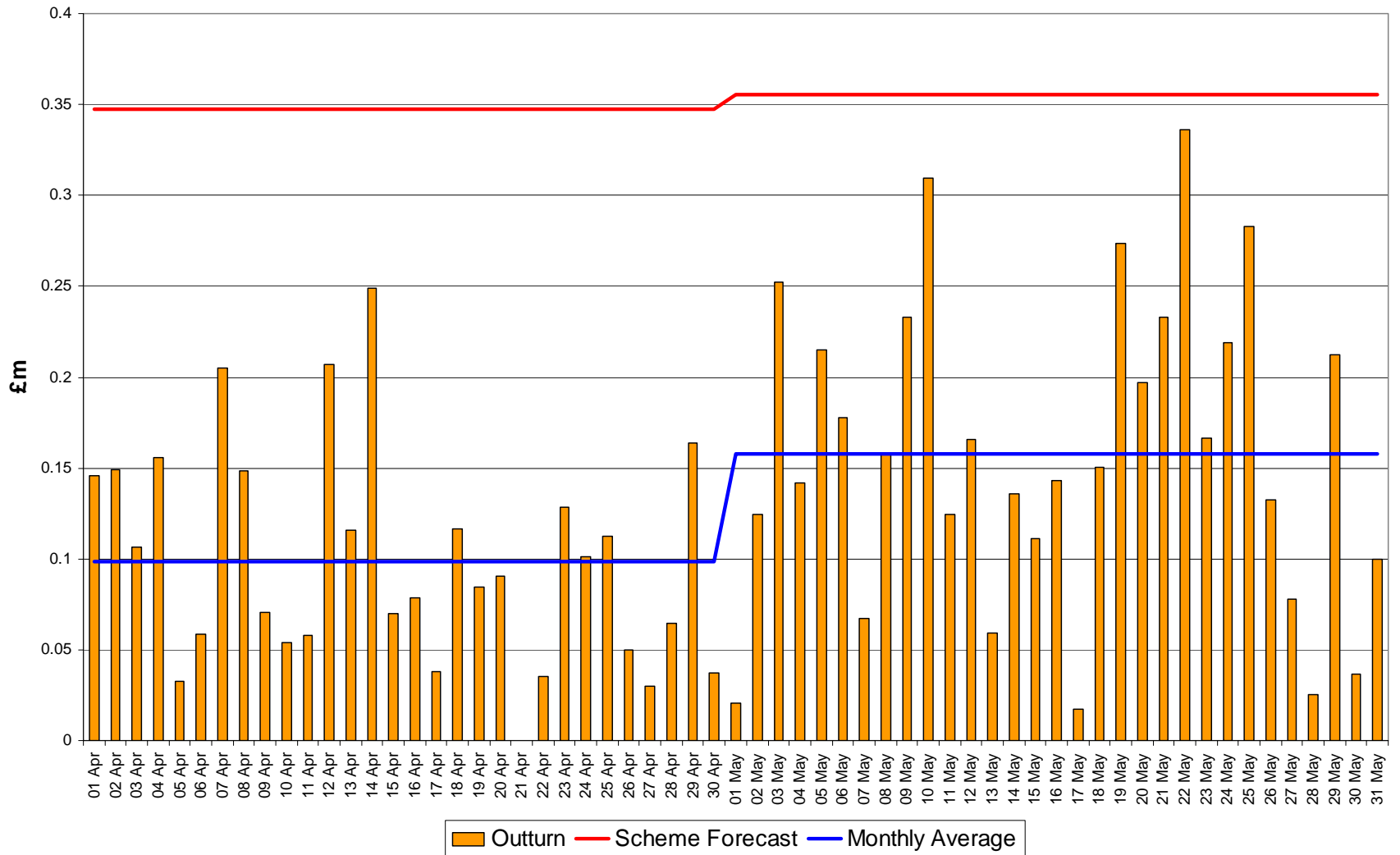
Constraint costs – E&W – April/May 2010



Response – April/May 2010



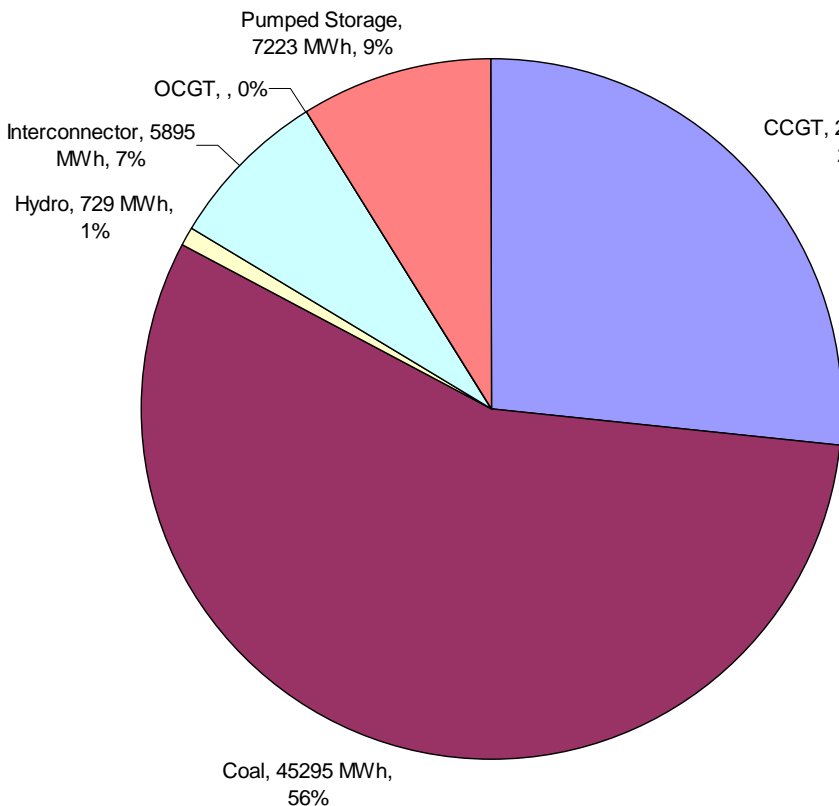
Operating Reserve – April/May 2010



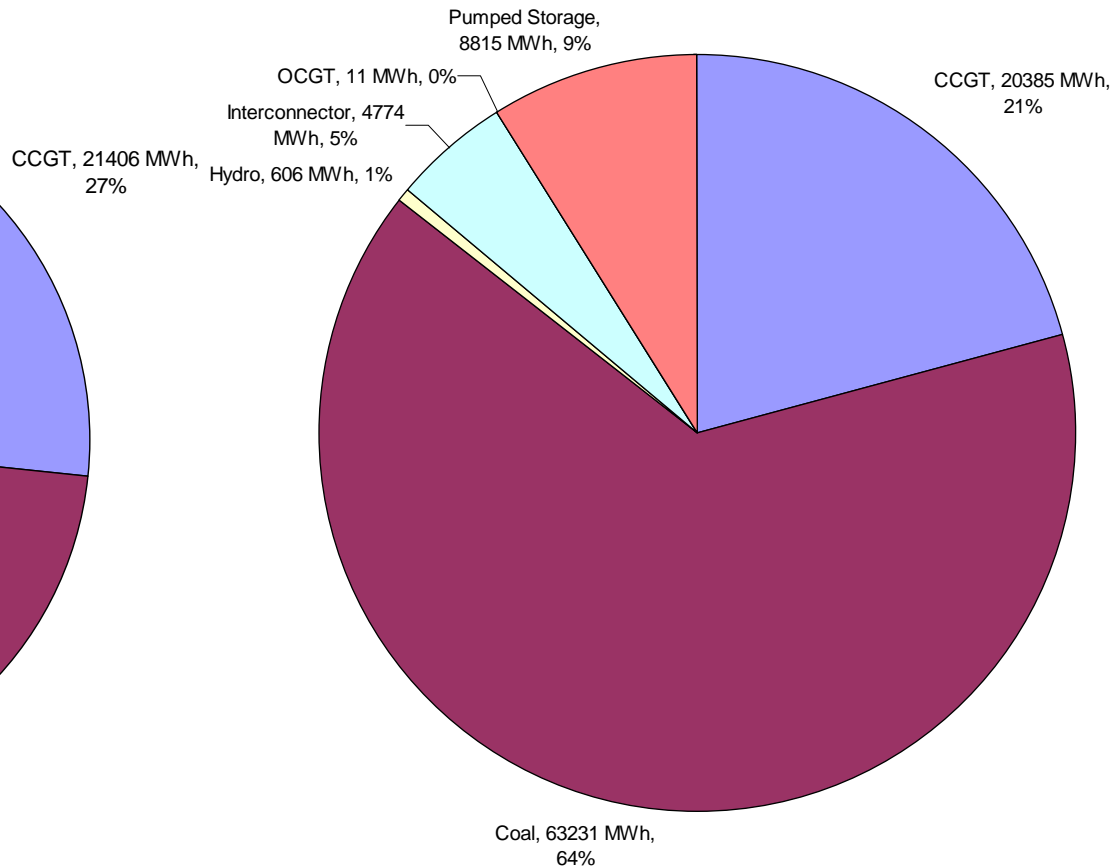
Operating Reserve – April/May 2010

Volume by Fuel Type

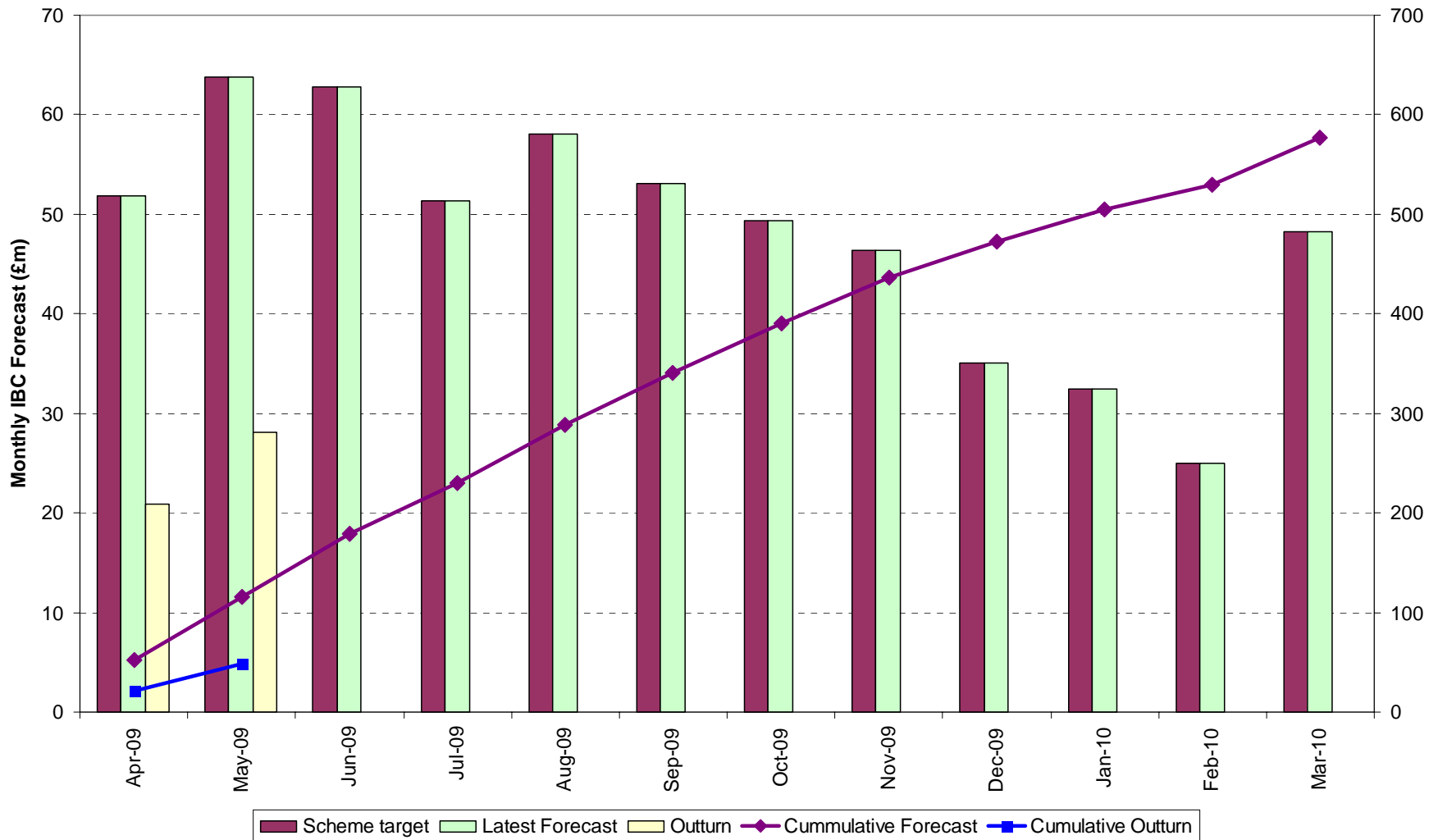
April
Total 80547 MWh



May
Total 97822 MWh

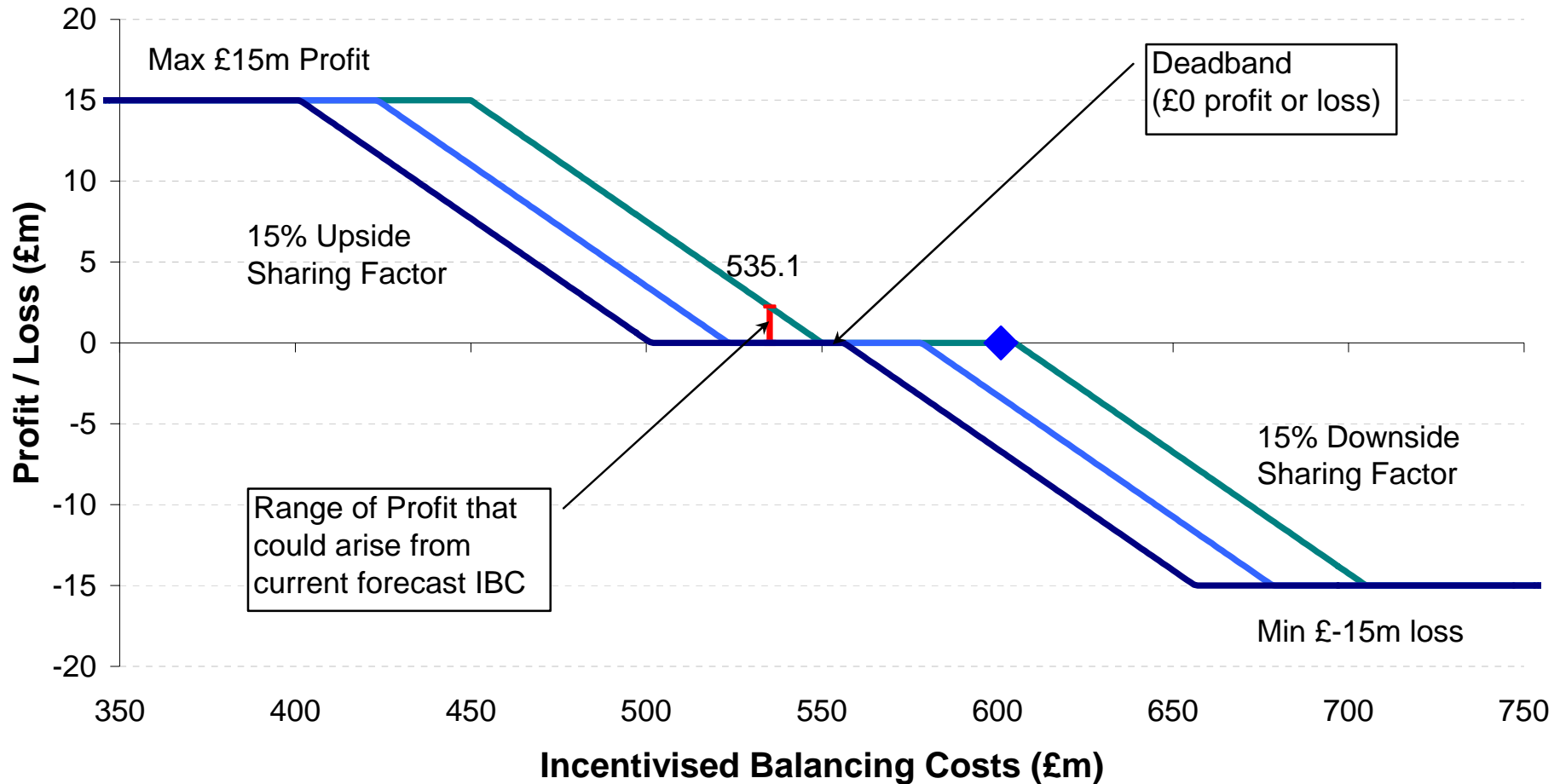


Monthly IBC 2010/11 forecasts and outturn



Forecast BSIS 2010/11

2010/11 Balancing Services Incentive Scheme



■ Current Forecast
 ■ Scheme
 ◆ Scheme Forecast
 ■ Lowest Possible Wind Modified Scheme
 ■ Lowest Possible Wind and IFA Modified Scheme

Forecast BSUoS 2010/11

- ◆ Current BSUoS charge forecast for 2010/11 £1.37/MWh (Range £1.25 - £1.49)
- ◆ Provisional BSUoS charge outturn for 2009/10 £1.23/MWh

