

Electricity Operational Forum

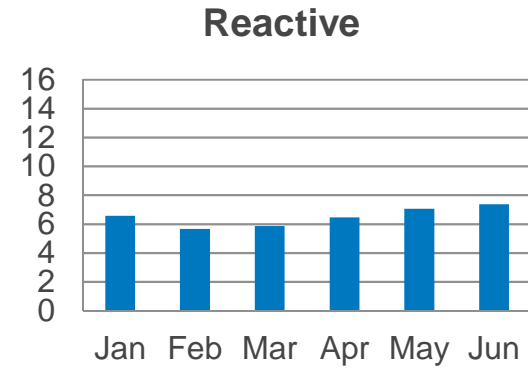
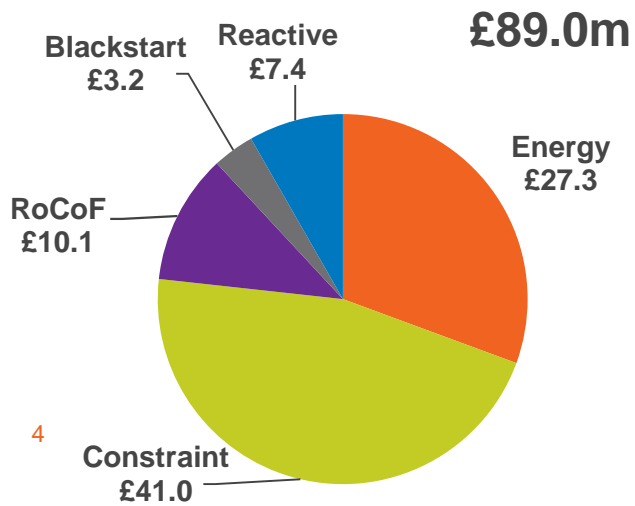
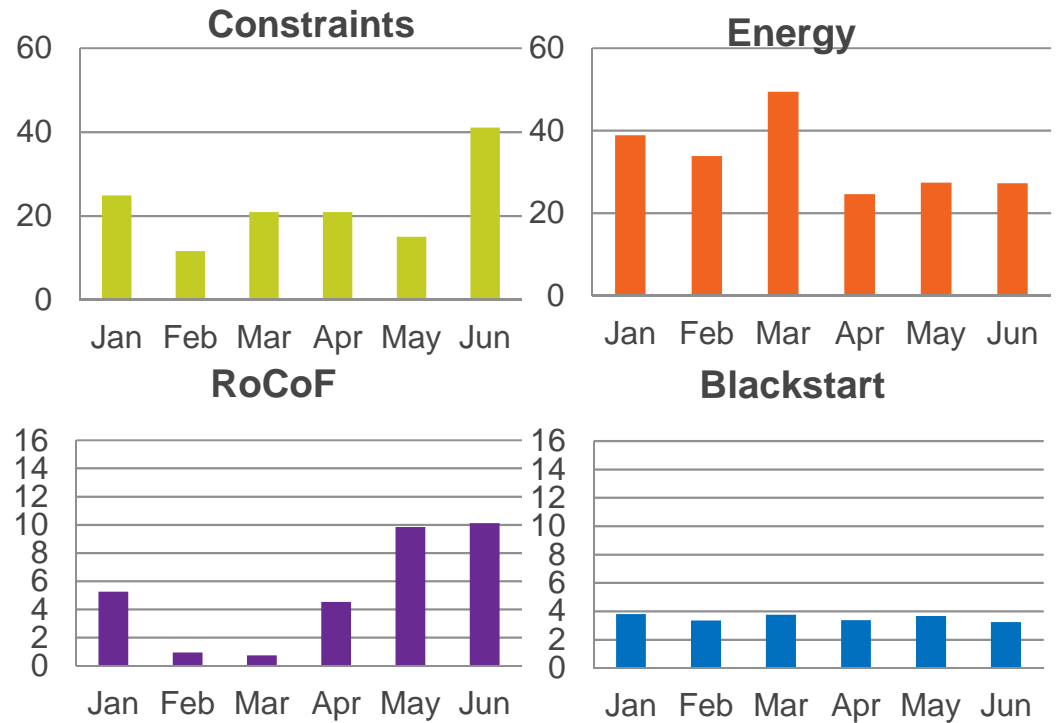
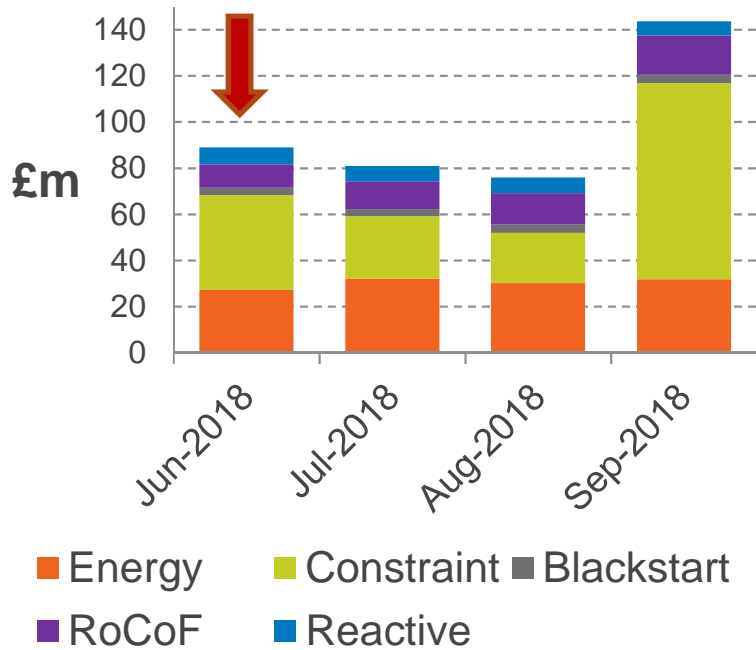
Electricity Operational Forum

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|--------------|--|--|
| 10:00 | Welcome and Introduction | Ben Smith |
| 10:10 | Balancing Services Use of System (BSUoS) update | Mat Hofton |
| 10:40 | On the Day Decisions: A Weekend in July... | Jon McDonald |
| 11:20 | Break – Plaza Suite Foyer | |
| 11:35 | Winter Outlook | Iain McIntosh |
| 12:05 | Electricity System Operator (ESO) Forward Plan | Richard Smith |
| 12:20 | <p>Coming soon...</p> <ul style="list-style-type: none"> • RIIO T2 and Long Term Operability • Network Options Assessment (NOA) and Stability Pathfinder Update • Rate of Change of Frequency (RoCoF) Settings Changes • Black Start – Innovation Project | Rob Smith |
| 12.40 | Questions for the panel | Richard Smith Rob Smith Audrey Ramsay |
| 13:00 | Lunch – Plaza Suite Foyer | |
| 14:00 | IS Change Forum or Departures | |

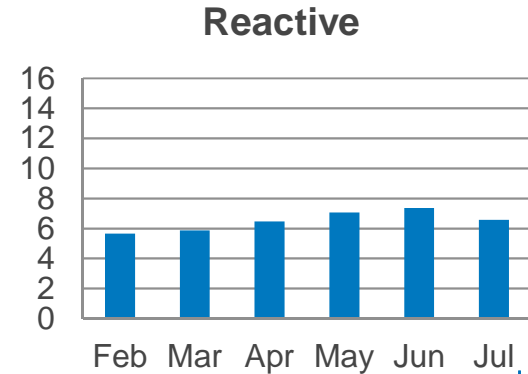
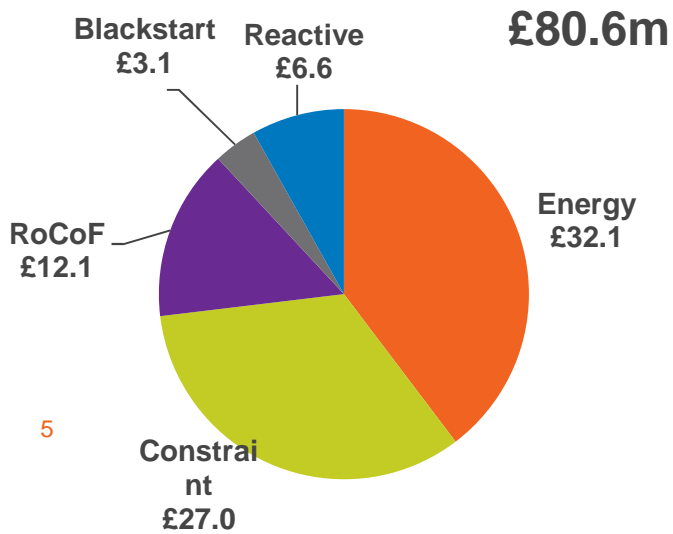
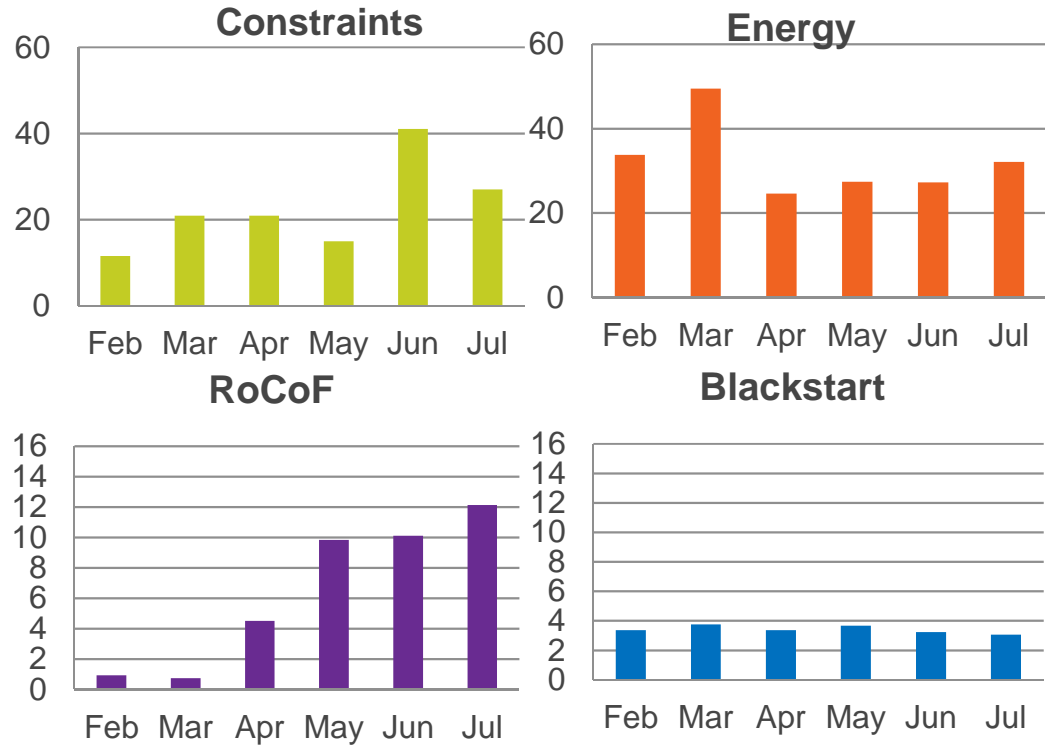
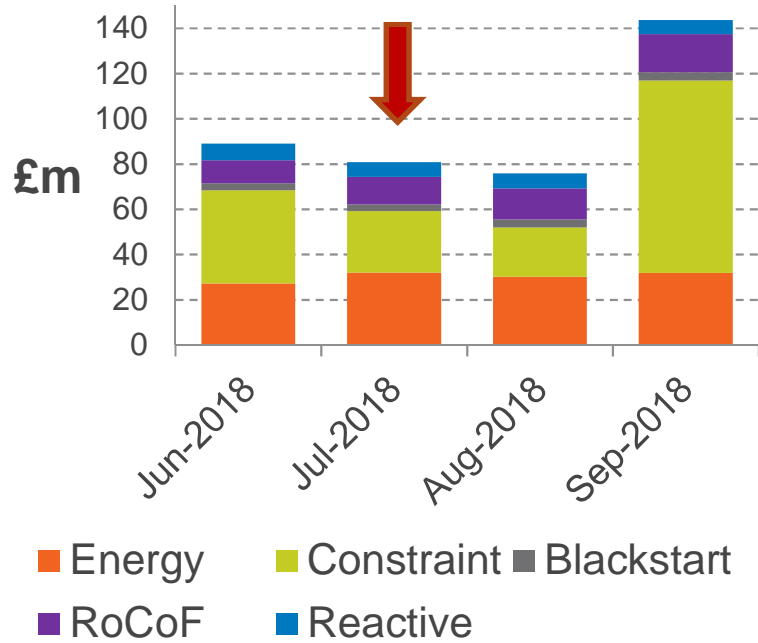
Balancing Service Use of System (BSUoS) Update



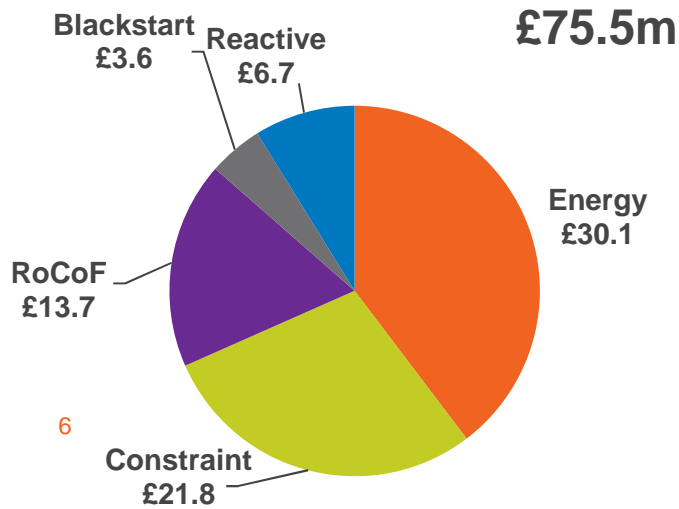
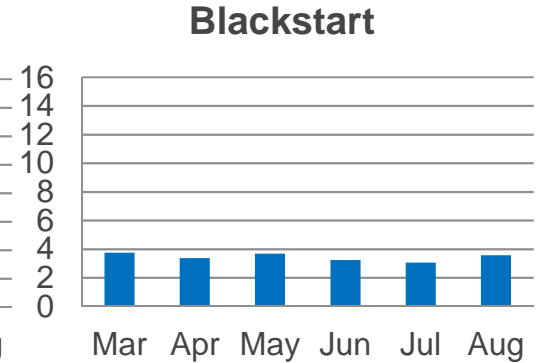
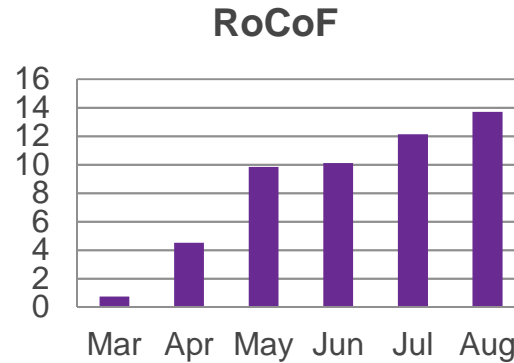
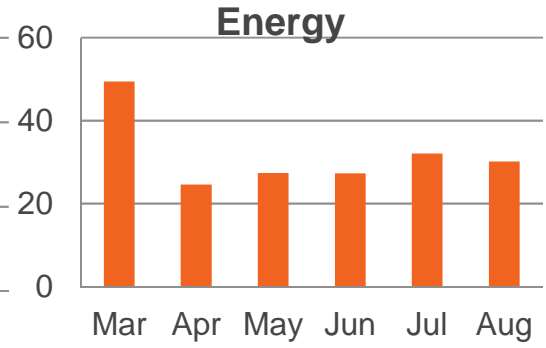
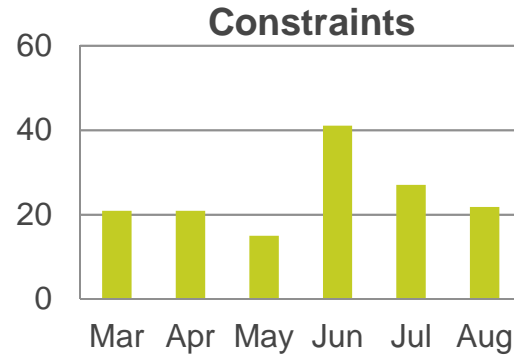
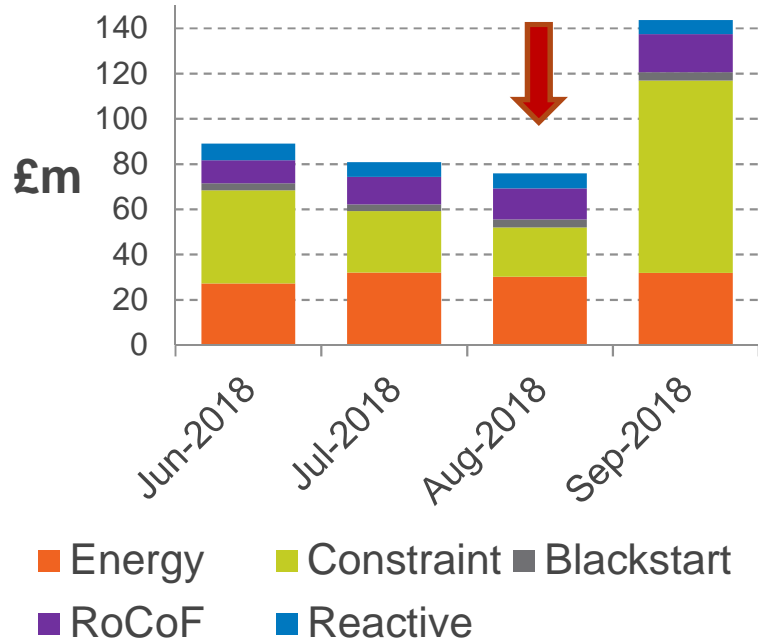
June 2018 : £3.00/MWh
Total Cost: £89.0m, Volume: 35.3TWh



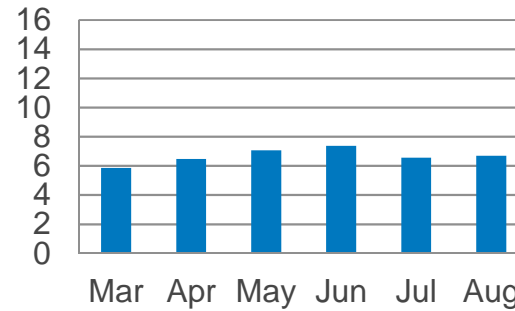
July 2018 : £2.72/MWh
Total Cost: £80.6m, Volume: 36.0TWh



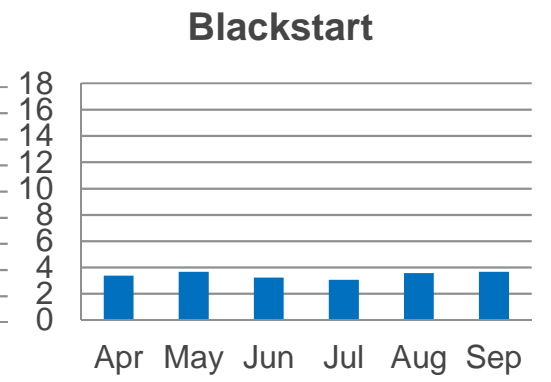
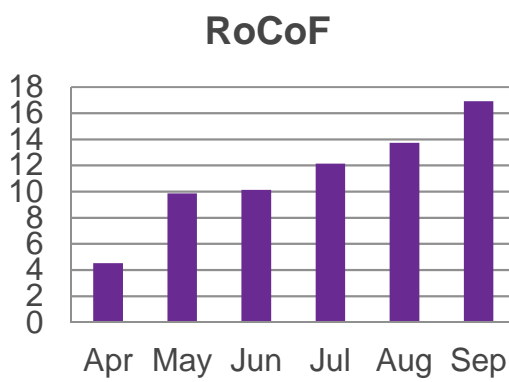
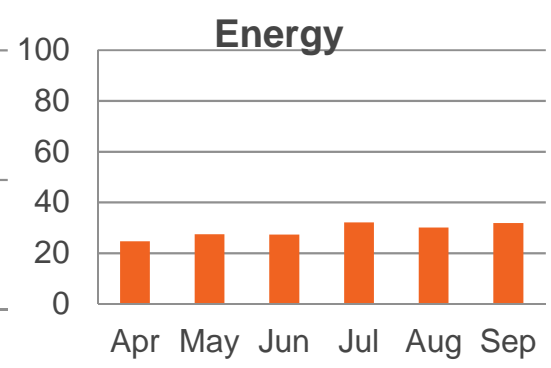
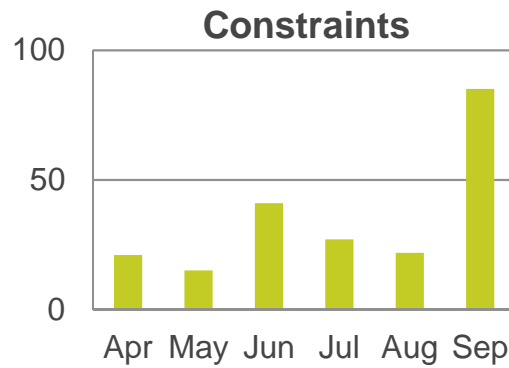
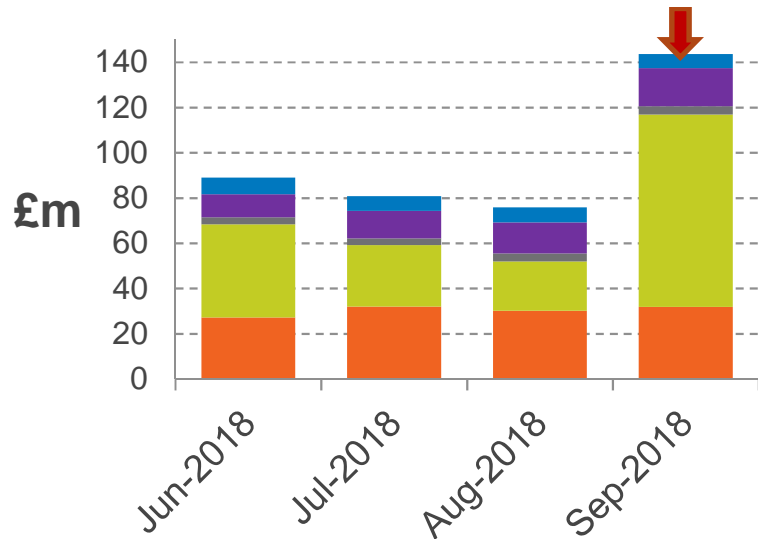
August 2018 : £2.55/MWh
Total Cost: £75.5m, Volume: 36.4TWh



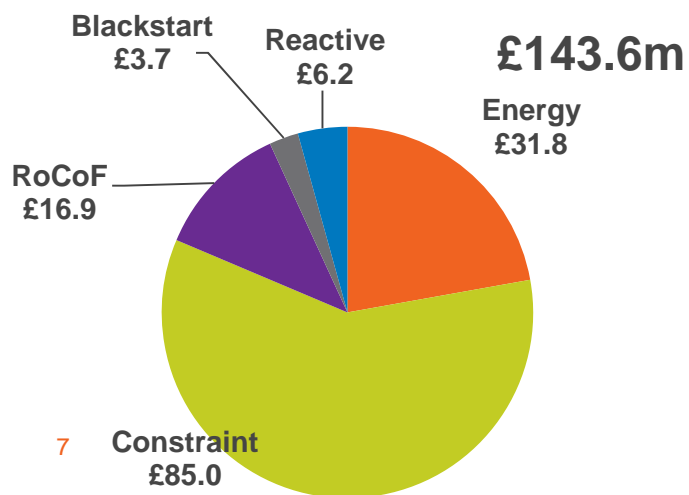
Reactive



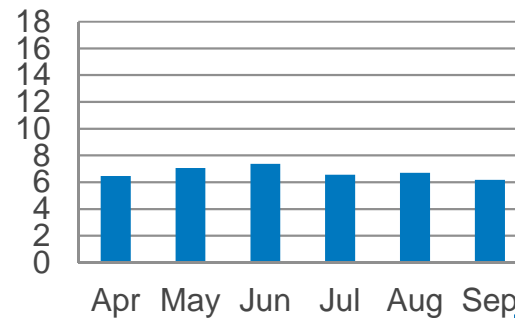
September 2018 : £4.43/MWh
Total Cost: £143.6m, Volume: 36.2TWh



■ Energy ■ Constraint ■ Blackstart
■ RoCoF ■ Reactive



Reactive



Balancing Service Use of System (BSUoS) Forecasting



BSUoS 18/19 forecast – as at October 2018

**Total
BSUoS
Costs
Forecast**

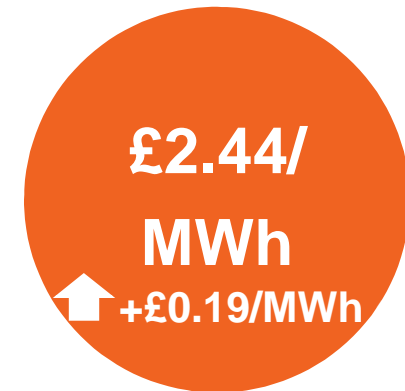


£1011.4m
balancing costs
+
£204.5m internal
costs

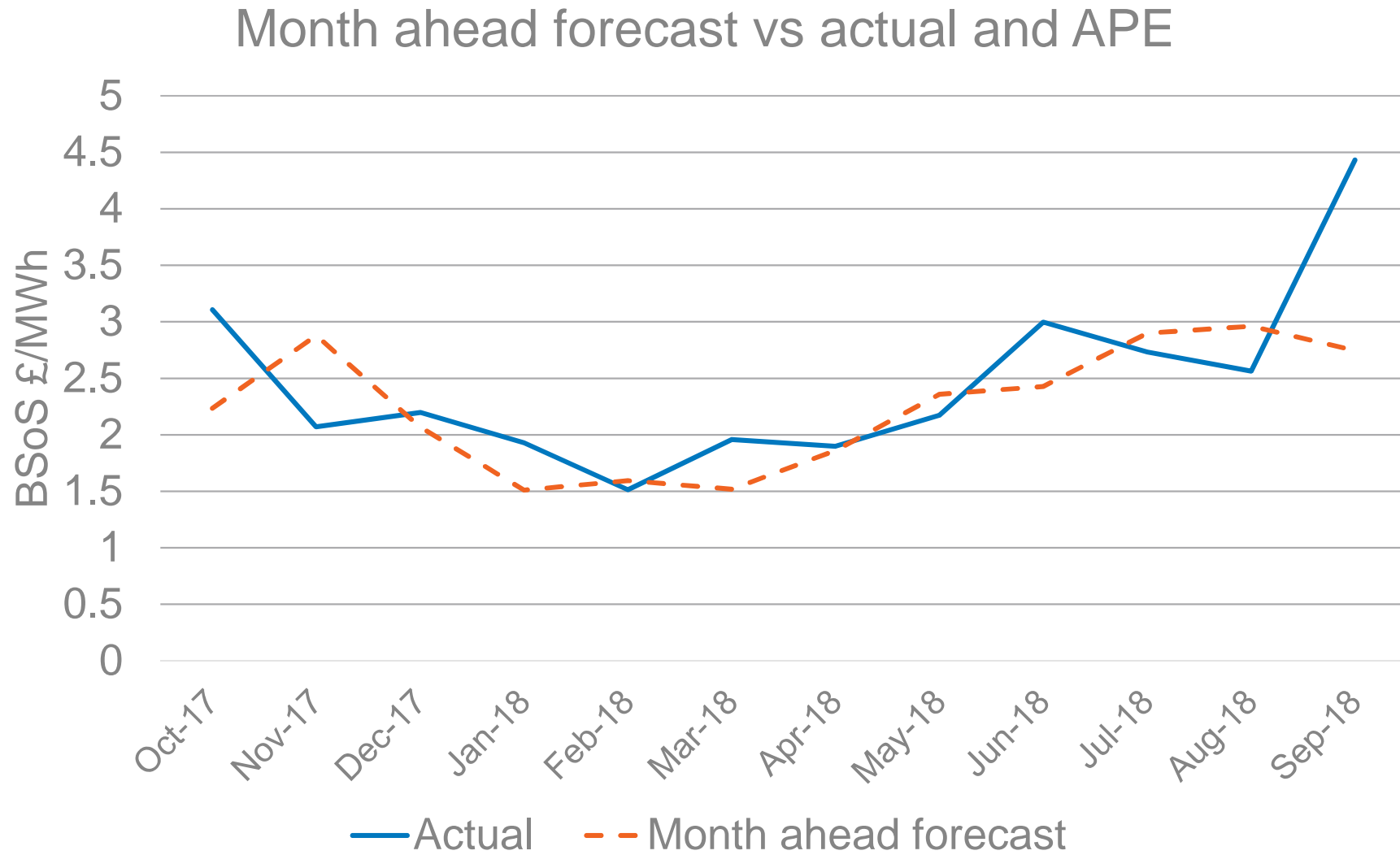
**BSUoS
Volume
Forecast**



**BSUoS volume
forecast**

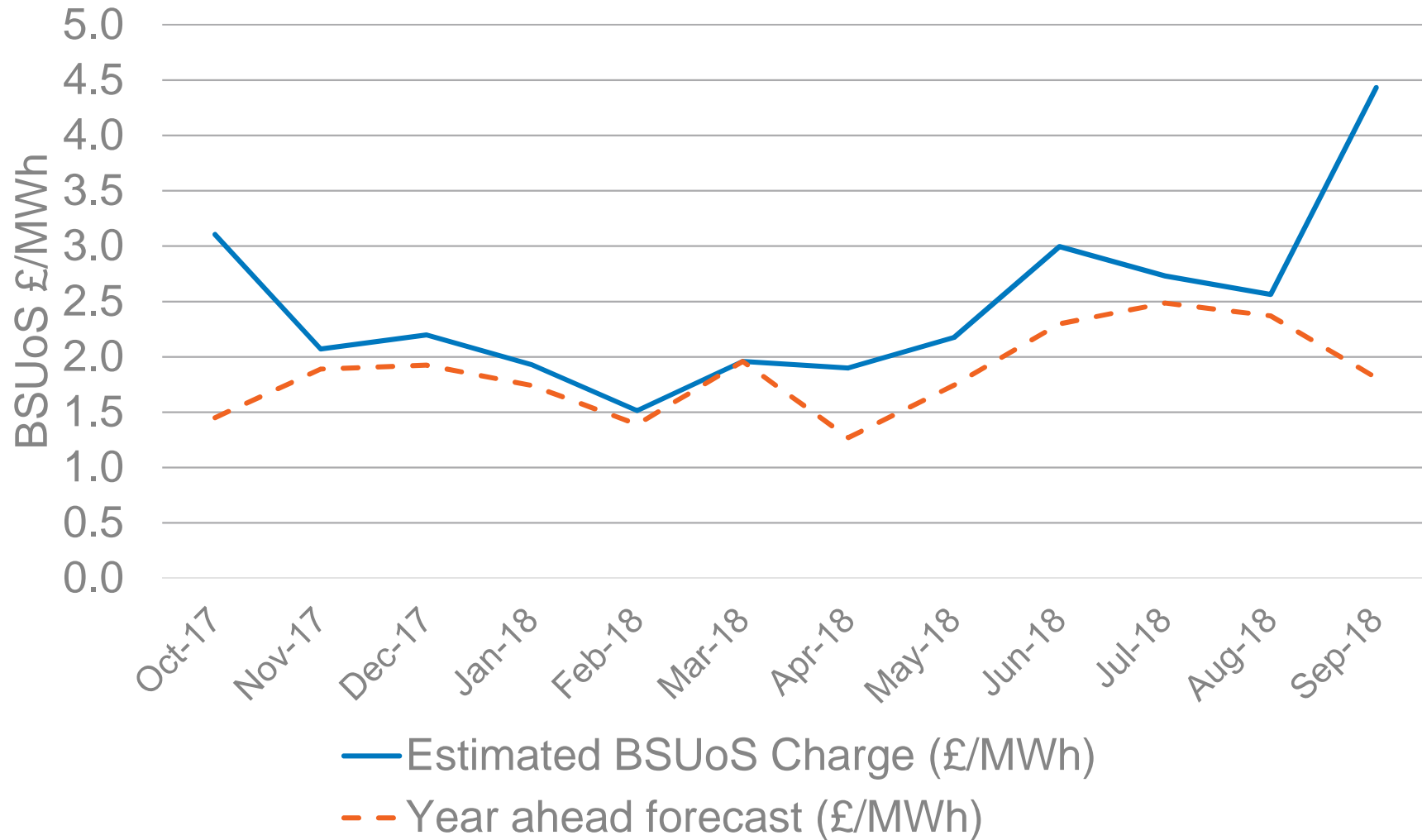


Forecast Accuracy – BSUoS Report



Forecast Accuracy – BSUoS Report

Monthly year ahead forecast vs actual

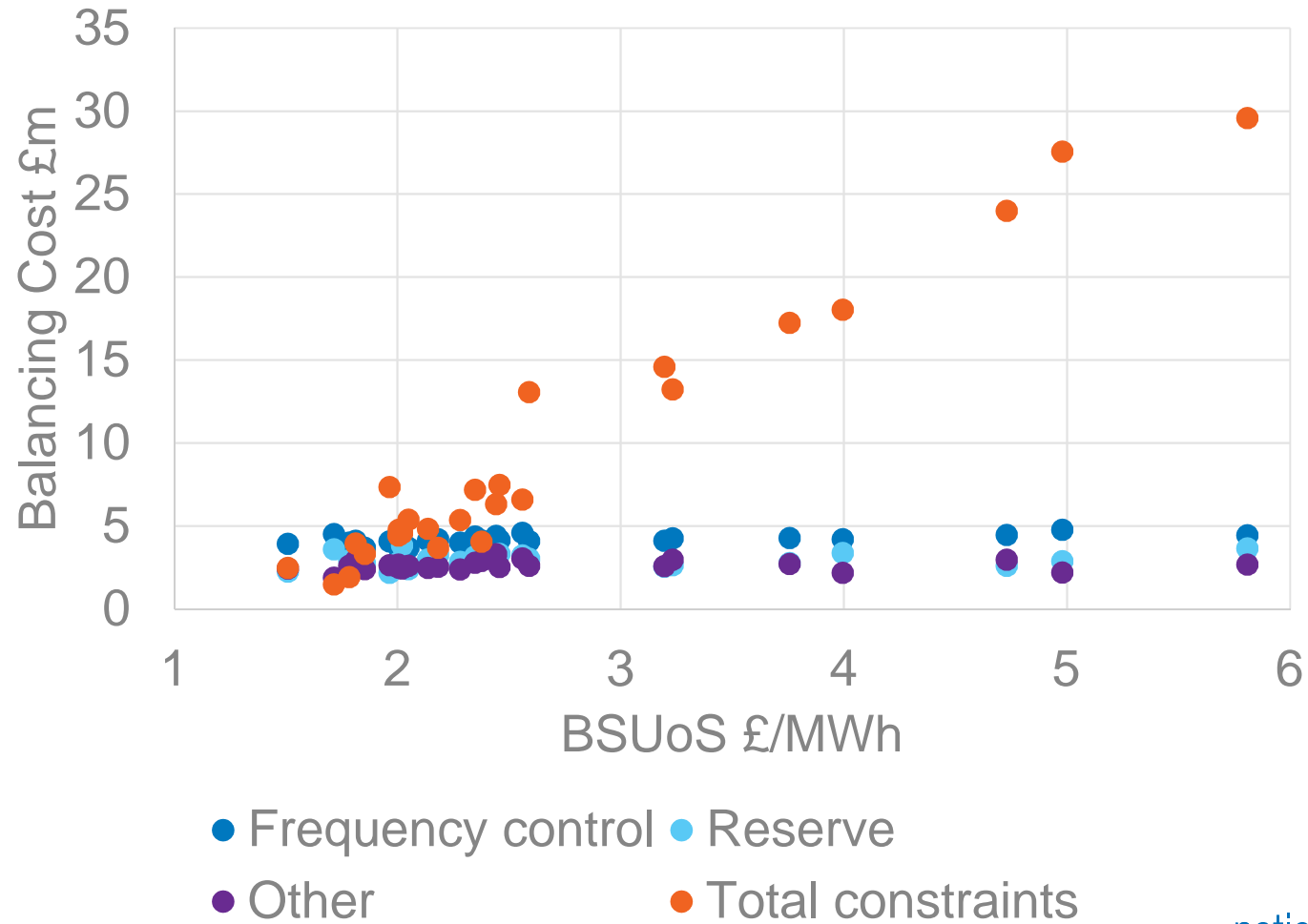


September Constraint Costs

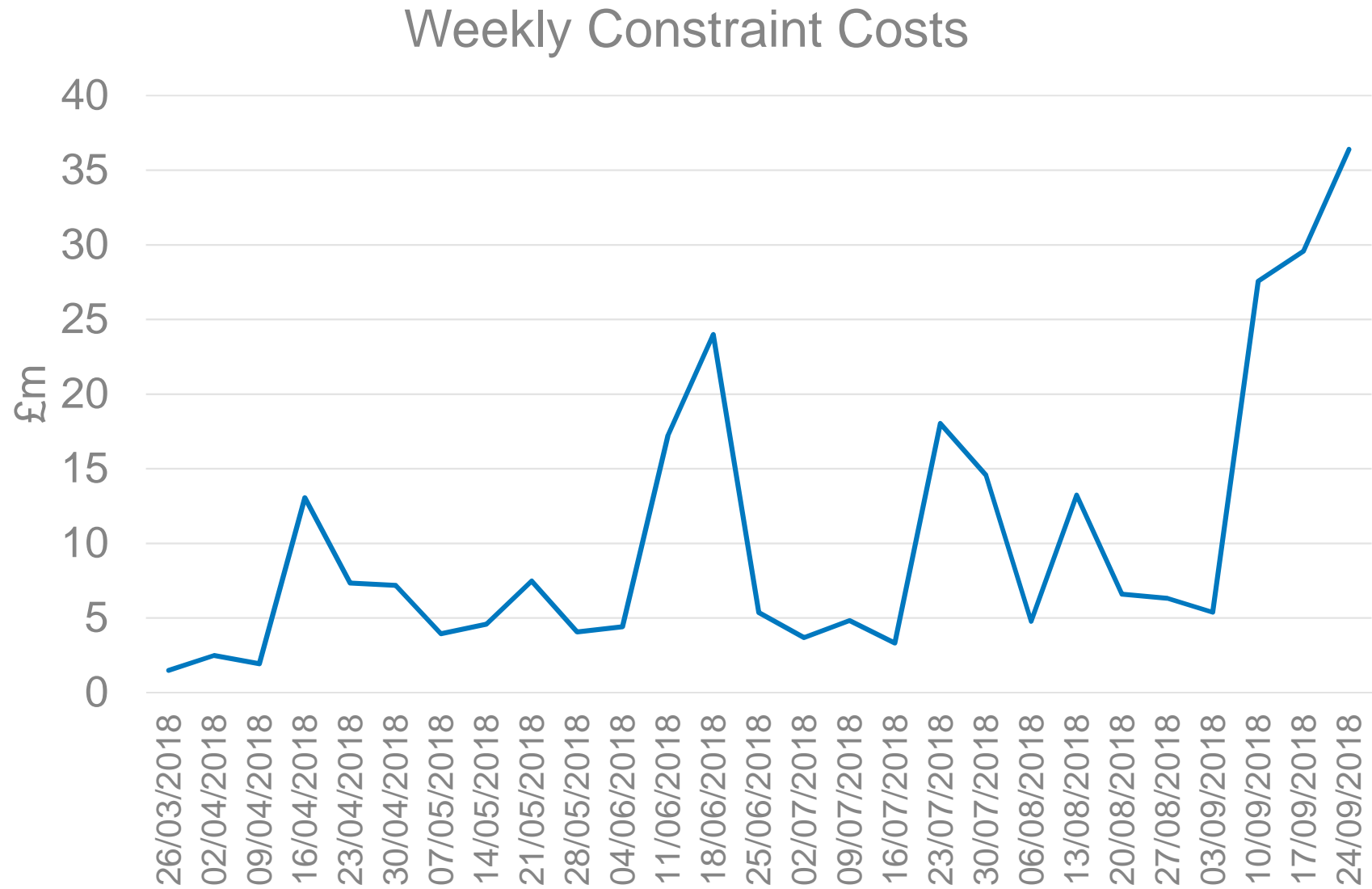


Constraint Costs

Weekly BSUoS vs Balancing Cost Category

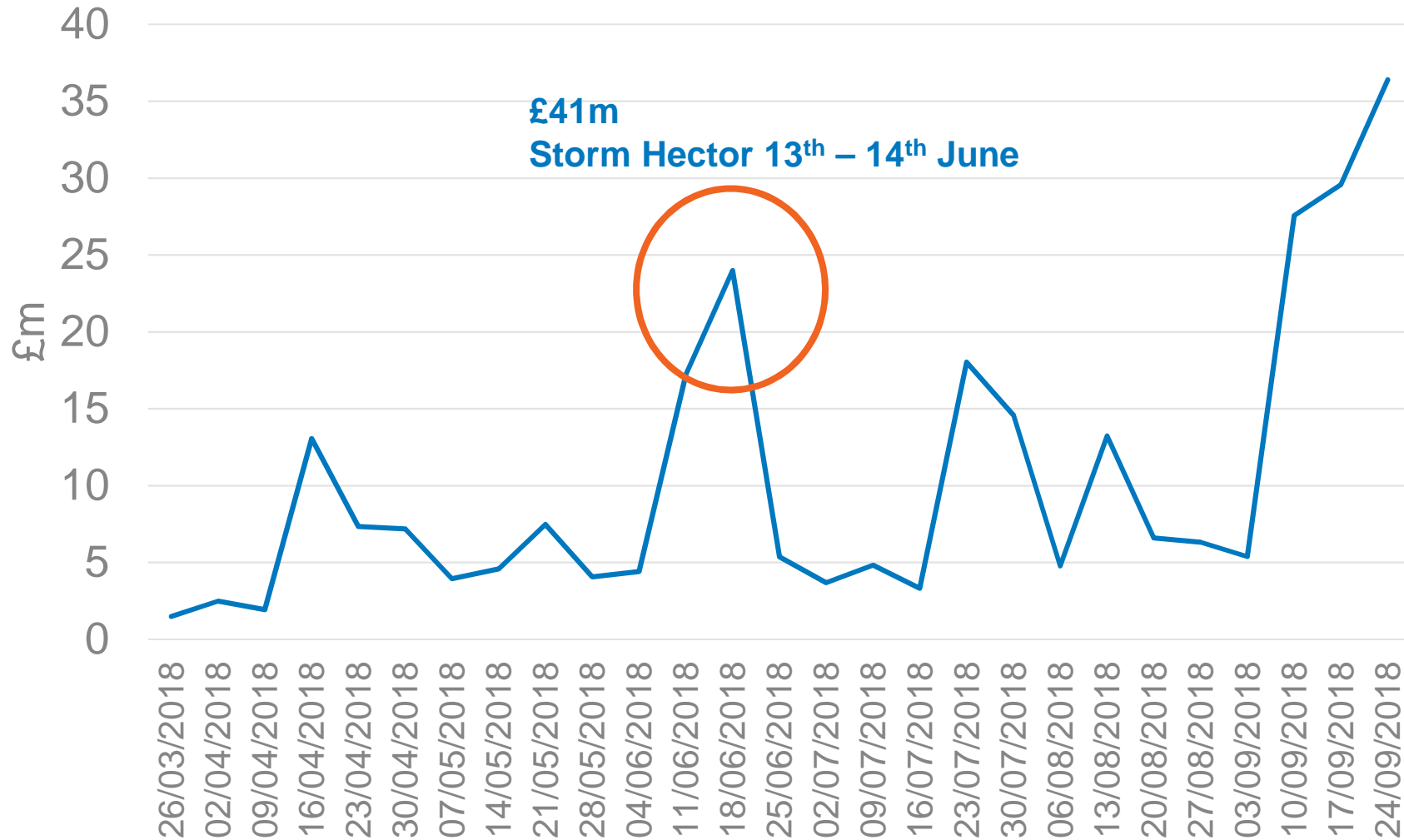


Constraint Costs



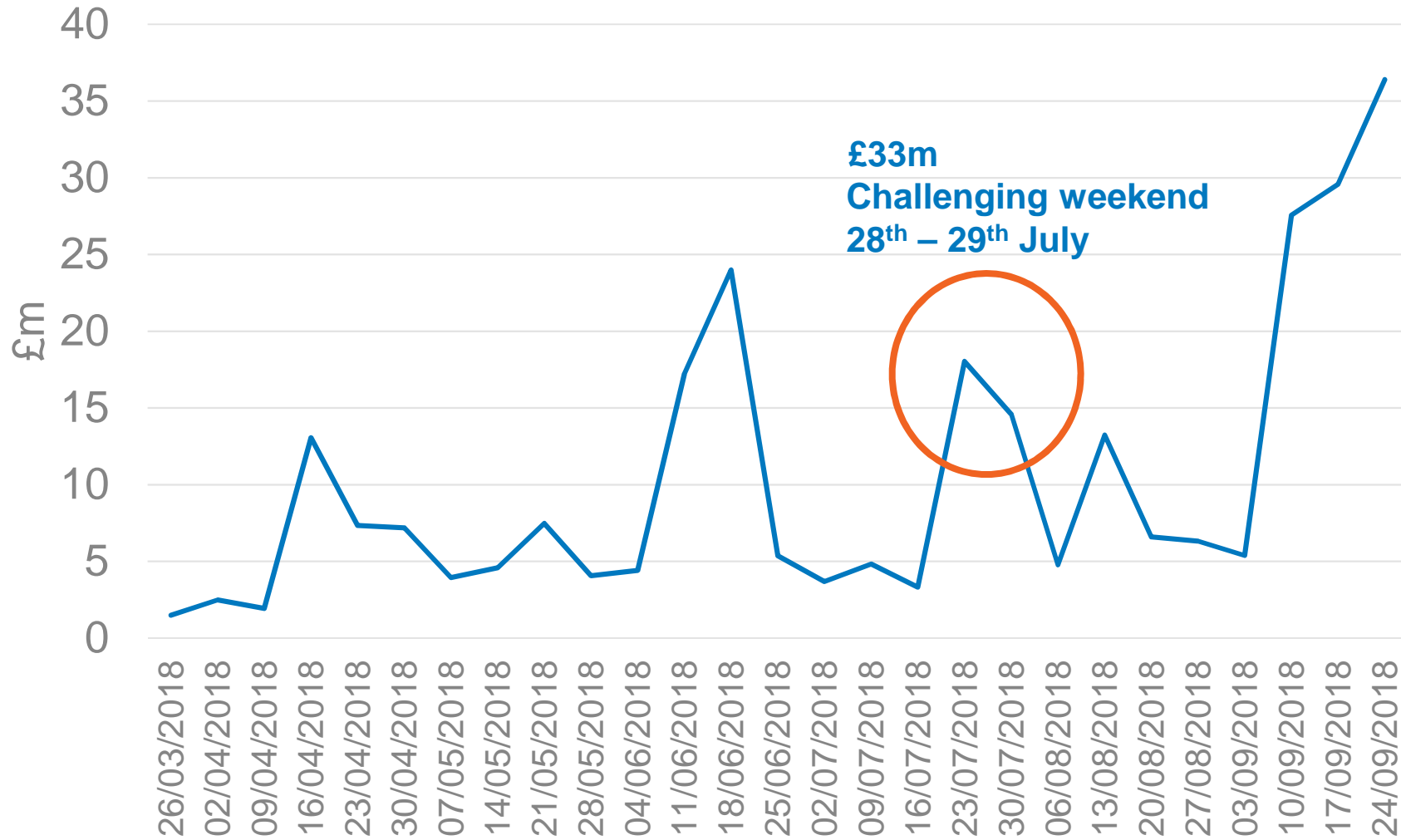
Constraint Costs

Weekly Constraint Costs



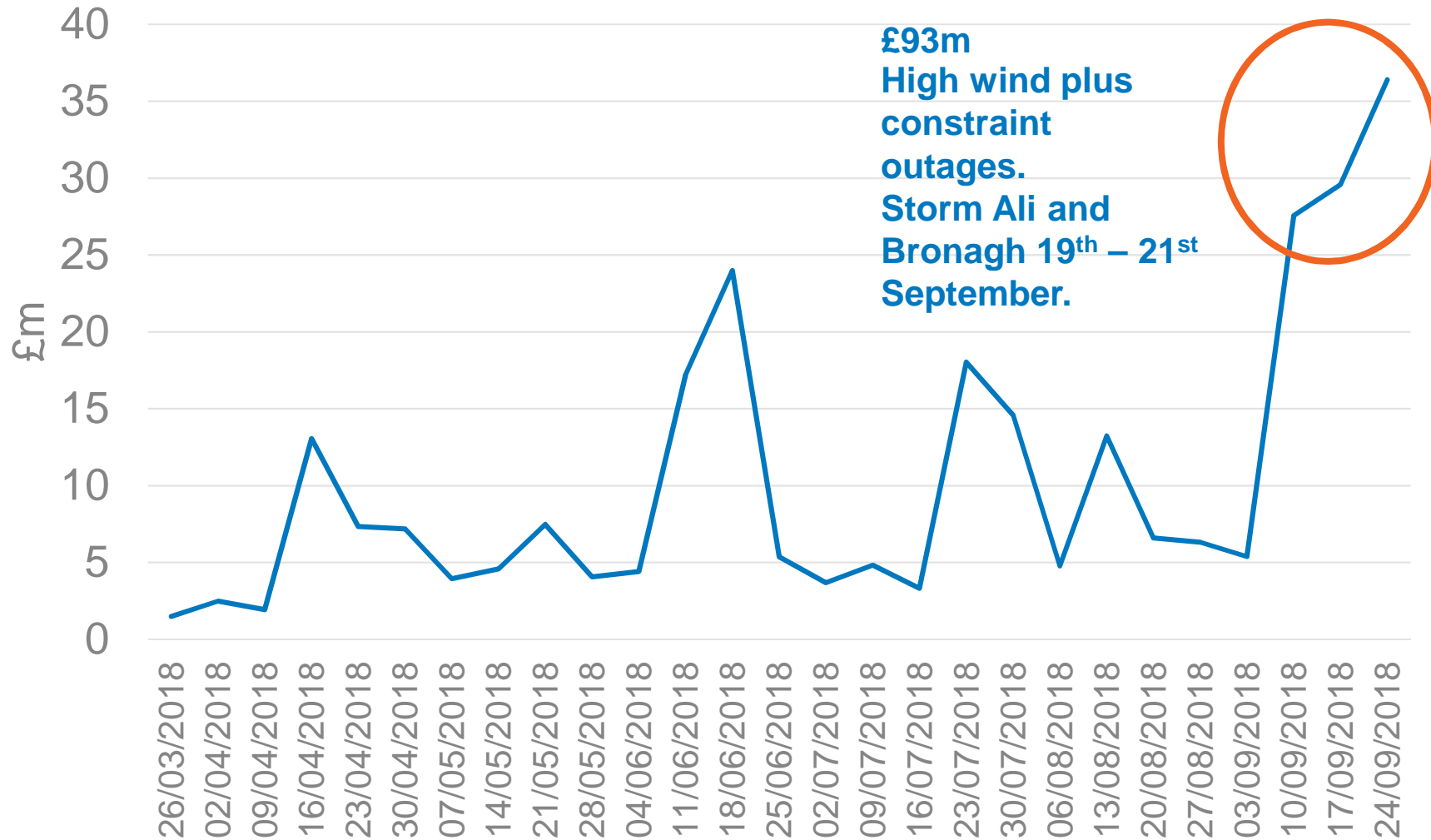
Constraint Costs

Weekly Constraint Costs



Constraint Costs

Weekly Constraint Costs



Constraint Costs

