

Demand Flexibility Service

DFS Evolution Update

25th July 2025

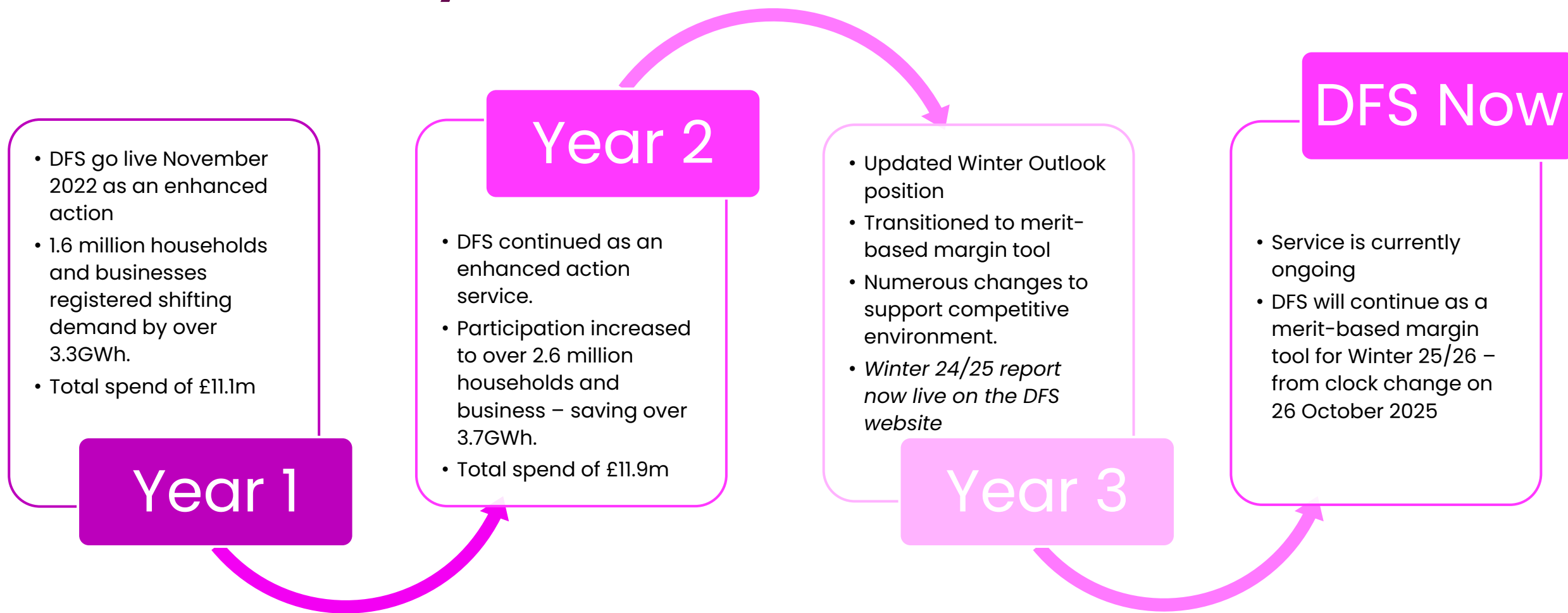
Agenda

- ❖ DFS History
- ❖ DNO Feedback
- ❖ Negative Margin Forecast
- ❖ DFS Initial Service Design Proposals
- ❖ Timelines and What's Next

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DFS History



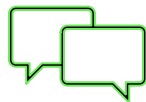
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DNO Engagement

DNO Engagement

Recent survey sent out,
following up with one-to-one
meetings



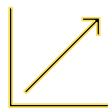
Positive response to ongoing
engagement and collaboration



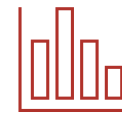
Demand turn down generally
less concerning, see risk
increasing with rising uptake in
flexibility



Demand turn up likely to pose
more challenges



Transparent data sharing and
coordinated scheduling of NESO
and DNO services is vital



Sharing of a Risk of Conflict
Report on a regular basis to
help mitigate any challenges



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Negative Margin Forecast

Understanding Negative Margin

Negative margin is the difference between NESO's expected operating position, and the absolute minimum supply that NESO can achieve. It will sometimes be referred to as "footroom" or "downward/negative flexibility".

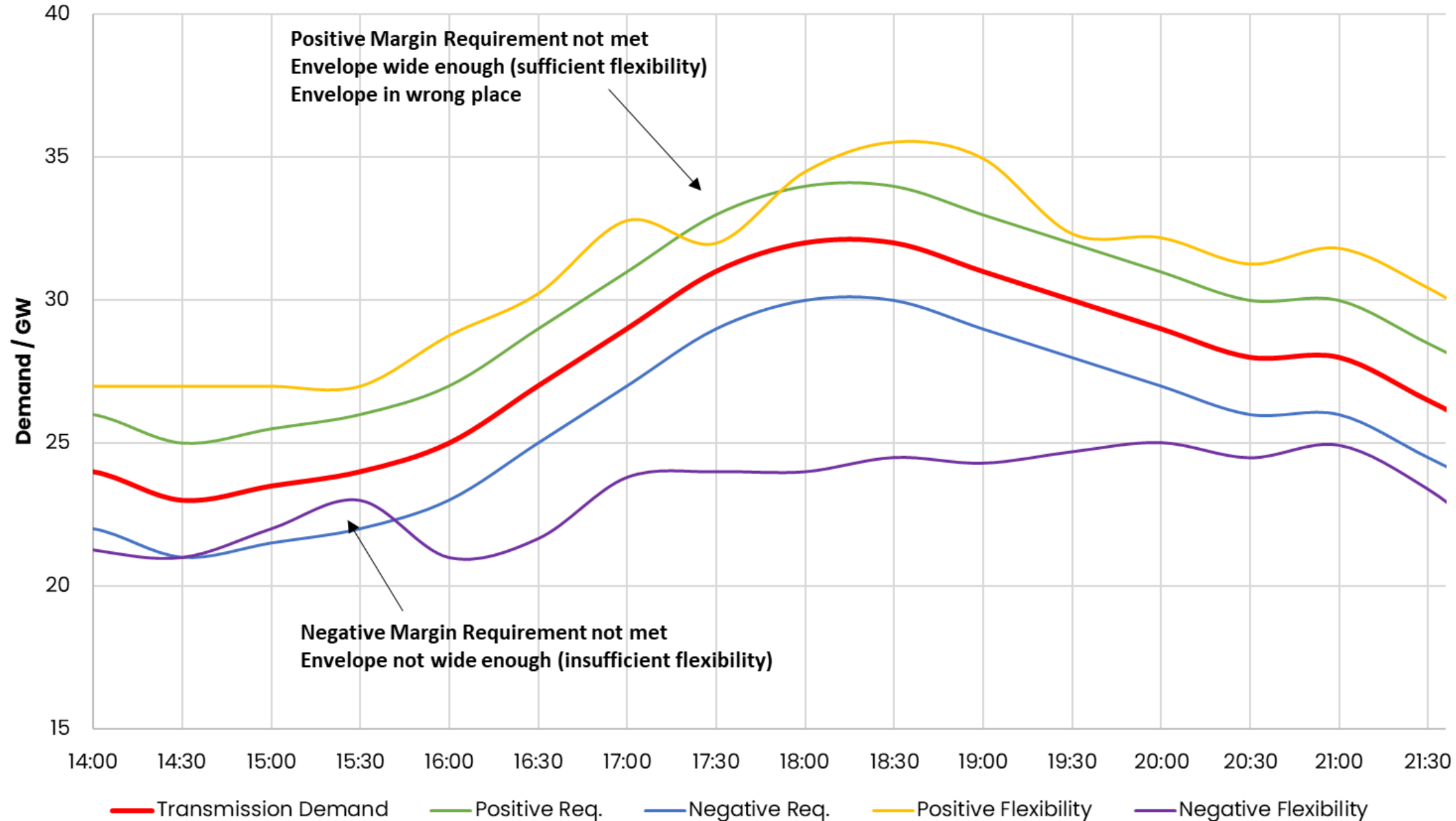
Why do we need it?

- To manage uncertainty – for example a higher than expected wind output, or lower than expected demand out-turn.
- To manage demand losses (e.g. an exporting interconnector). Losing a source of demand leaves the system with excess energy, and we need to rebalance by reducing supply or increasing demand.

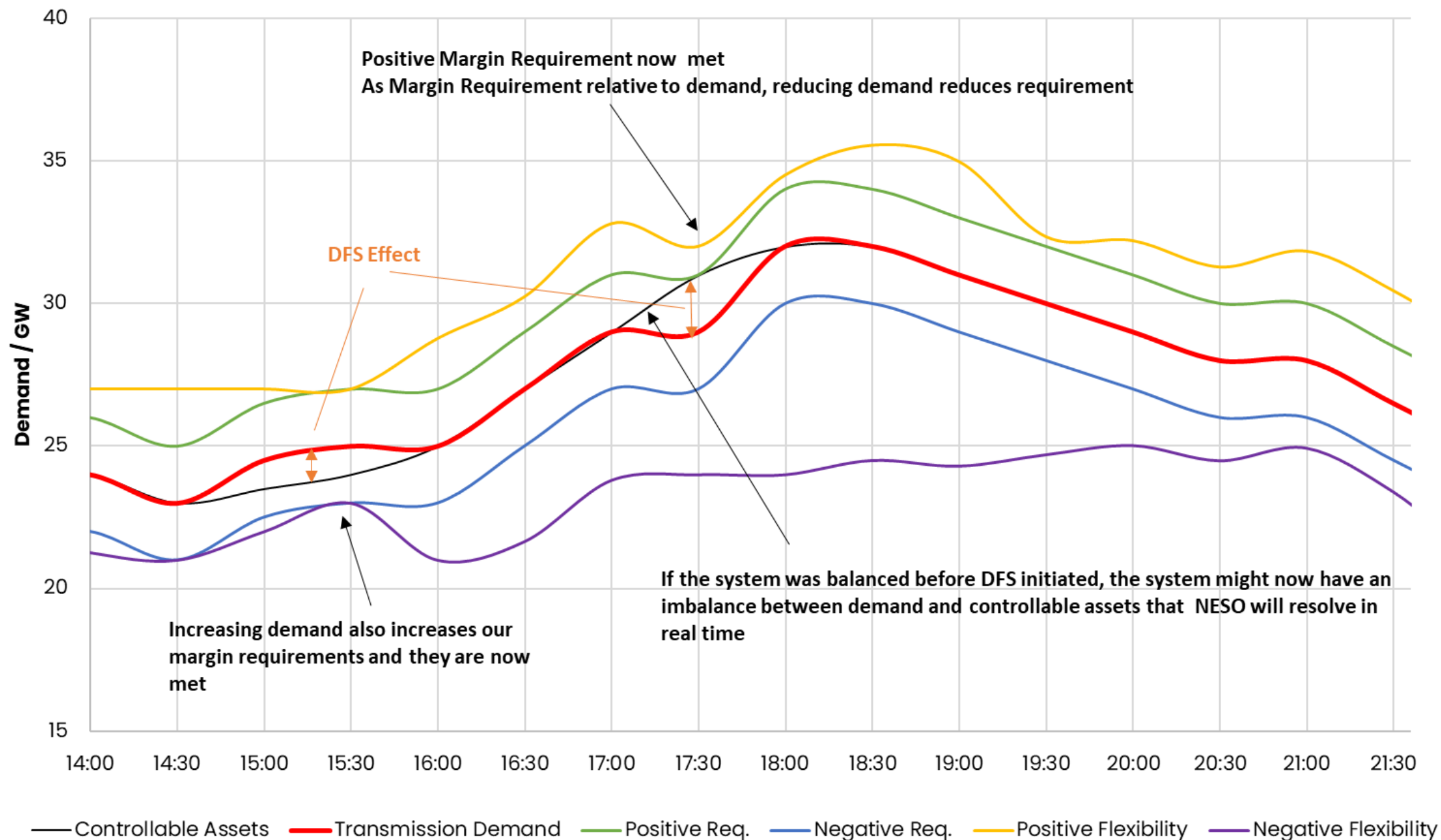
How does this link with Negative Reserve?

- Holding Reserve (either as a service or through the BM) is a way of creating margin.

Available Flexibility – relative to Demand Forecast and Margin Requirements

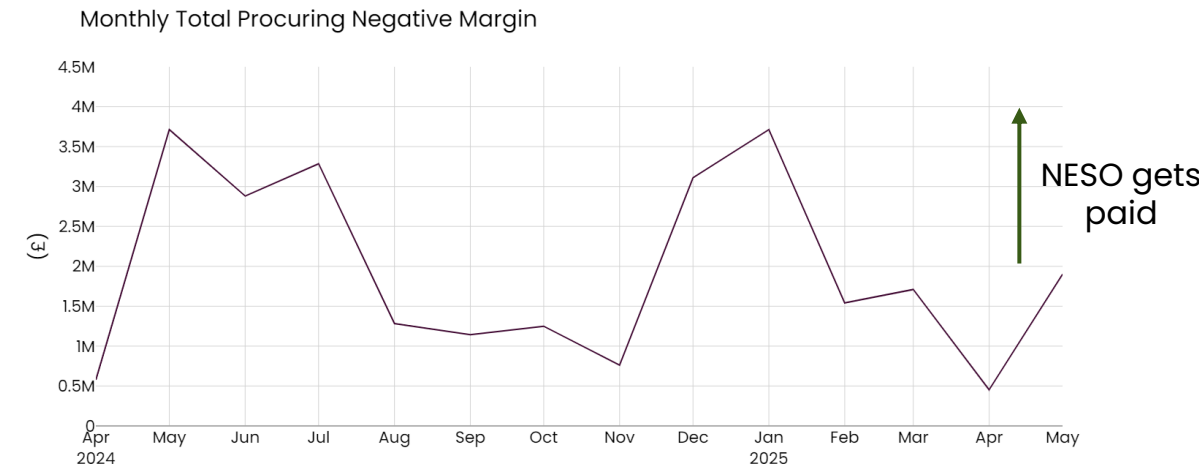
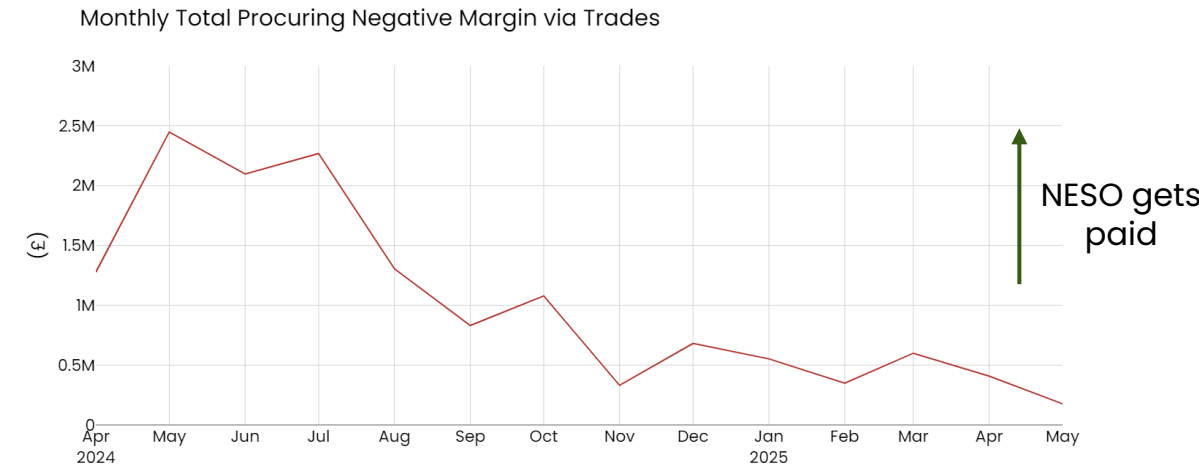


DFS effect, the envelope now covers the requirements



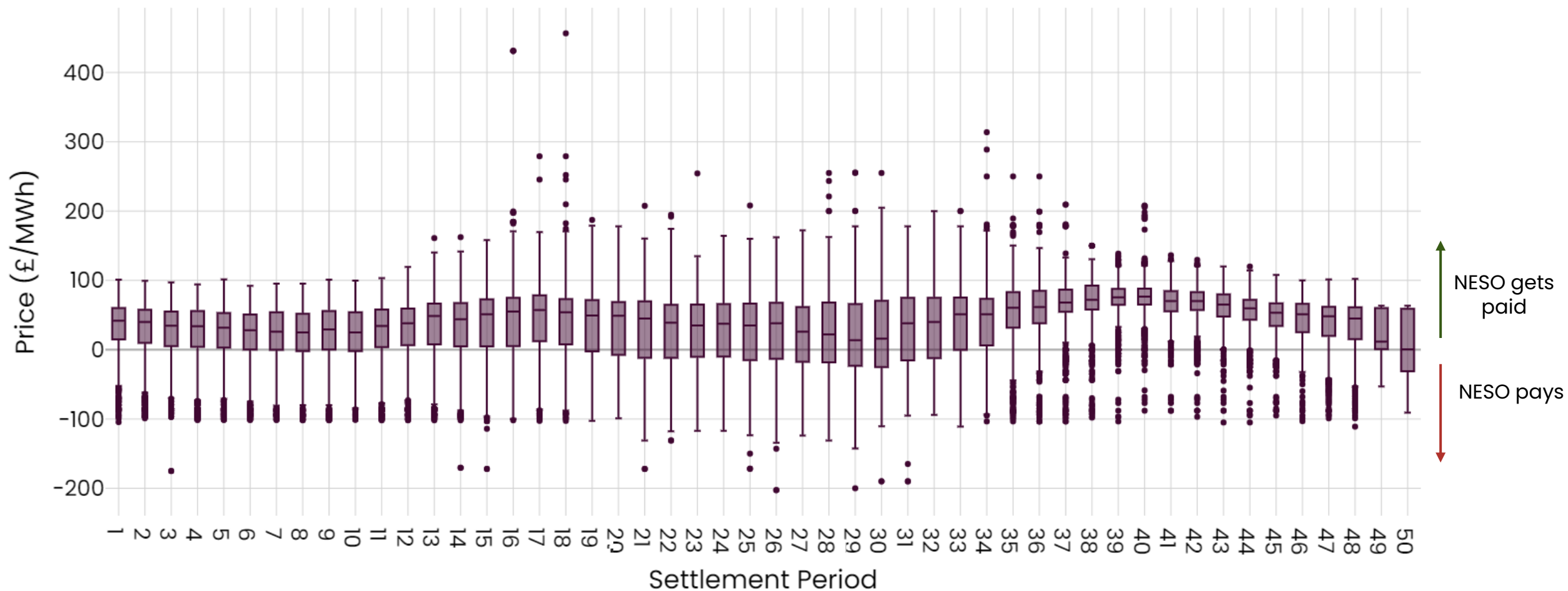
Current Market

- In general NESO is **paid** for negative margin actions
- This reflects electricity being sold to providers – so some generators save fuel and storage assets get charged.
- Our core services (BM and reserve) will be the biggest markets for this and if capable providers should aim for these.
- But there are increasingly times where assets such as wind and solar lose subsidies by turning down and so charge NESO to turn down.



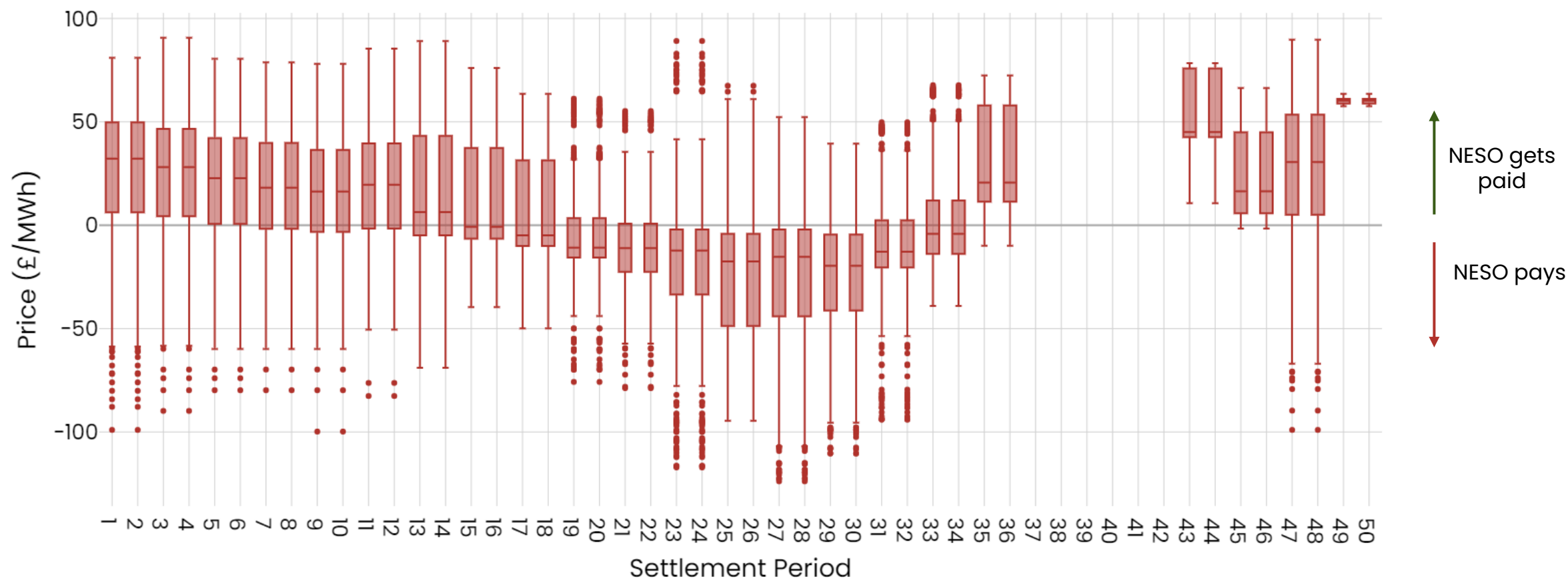
Balancing Mechanism

Distribution of bid prices per settlement period



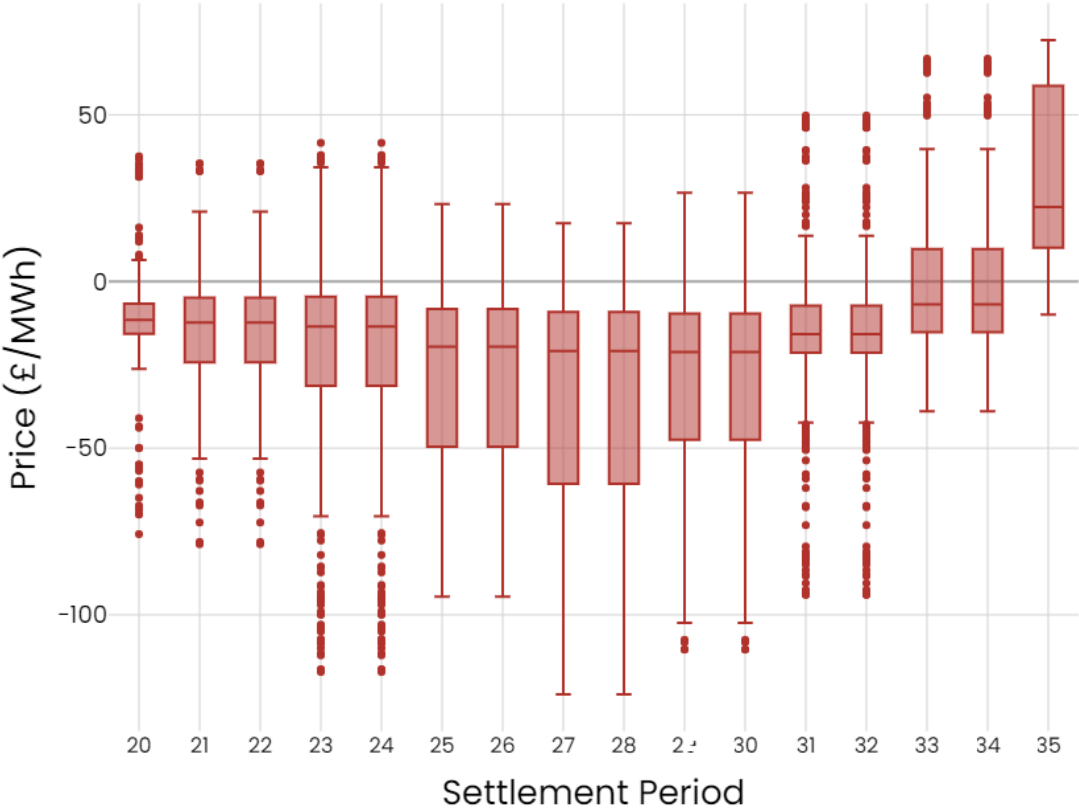
Trades

Distribution of bid prices for Trades per settlement period



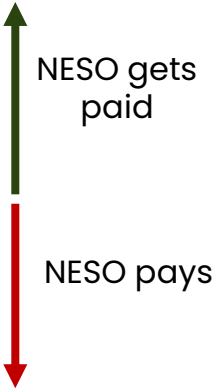
Weekend

9:30am–5:30pm



Date Range – April 2024 to May 2025

| Price Range (£/MWh) | Volume (MWh) | SPs |
|---|--------------|------|
| $\geq \text{£}50$ | 3775 | 91 |
| $\text{£}0 \leq \text{PB} < \text{£}50$ | 50086 | 1193 |
| $\text{£}-50 \leq \text{PB} < \text{£}0$ | 172136 | 4455 |
| $\text{£}-100 \leq \text{PB} < \text{£}-50$ | 28602 | 919 |
| $\text{PB} < \text{£}-100$ | 2345 | 106 |



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DFS Initial Service Design Proposals

ABSVD

- Previous industry feedback has highlighted an issue regarding some Balancing Responsible Parties being unfairly impacted when their imbalance position is adjusted (using ABSVD) when delivering certain Balancing Services.
- Issue Group 114 set up to co-ordinate and agree on a resolution
- Elexon have proposed a resolution of 'Direct Compensation' for Issue 1
- NESO raising proposal for code modification
- DFS looking to adopt this process, ensuring consistency across services
- [Issue Group Survey](#)

Baseline Methodology

- Currently using the P376 methodology as this is the most widely recognised industry baseline methodology
- Self-nominated baseline used by other core services – may not be the best option for DFS
- Considerations:
 - Apply weather adjustment correction
 - Within-day adjustment – could reinstate as now procuring DFS closer to real time
 - Baseline options for renewable assets e.g. wind and solar
 - Potential to introduce 2 different baselines

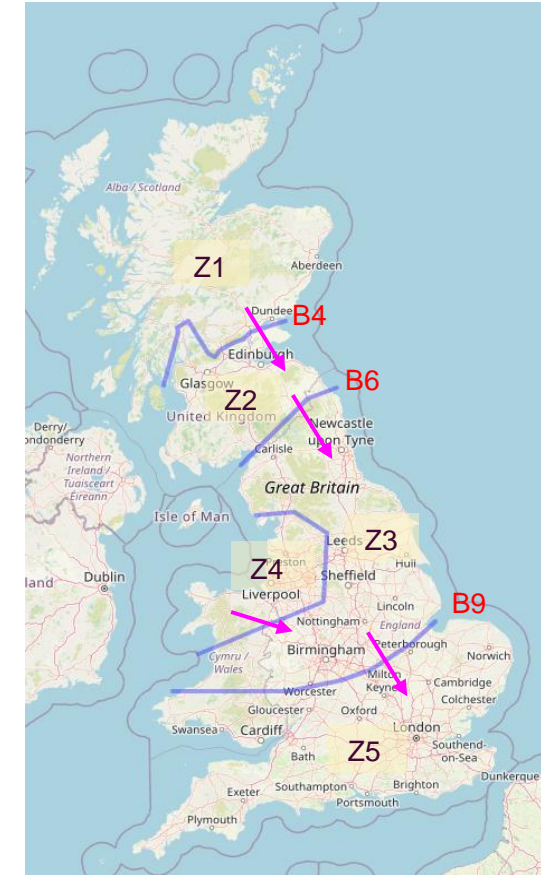
Bi-directional

- Accessing negative margin – considerable market interest
- Unlocking ODFM (optional downward flexibility management) volume.
- Process timings vs positive margin service
- Operating outside core hours
- Complimentary stacking rules

Locational Considerations

- Aligning with broader Response and Reserve reform
- Introducing Zones, for DFS procurement.
- The minimum number of zones we are considering is 2.
- These zones will be aligned with the most congested network boundaries.
- Zones are likely to straddle DNO regions.

Example 5-Zones

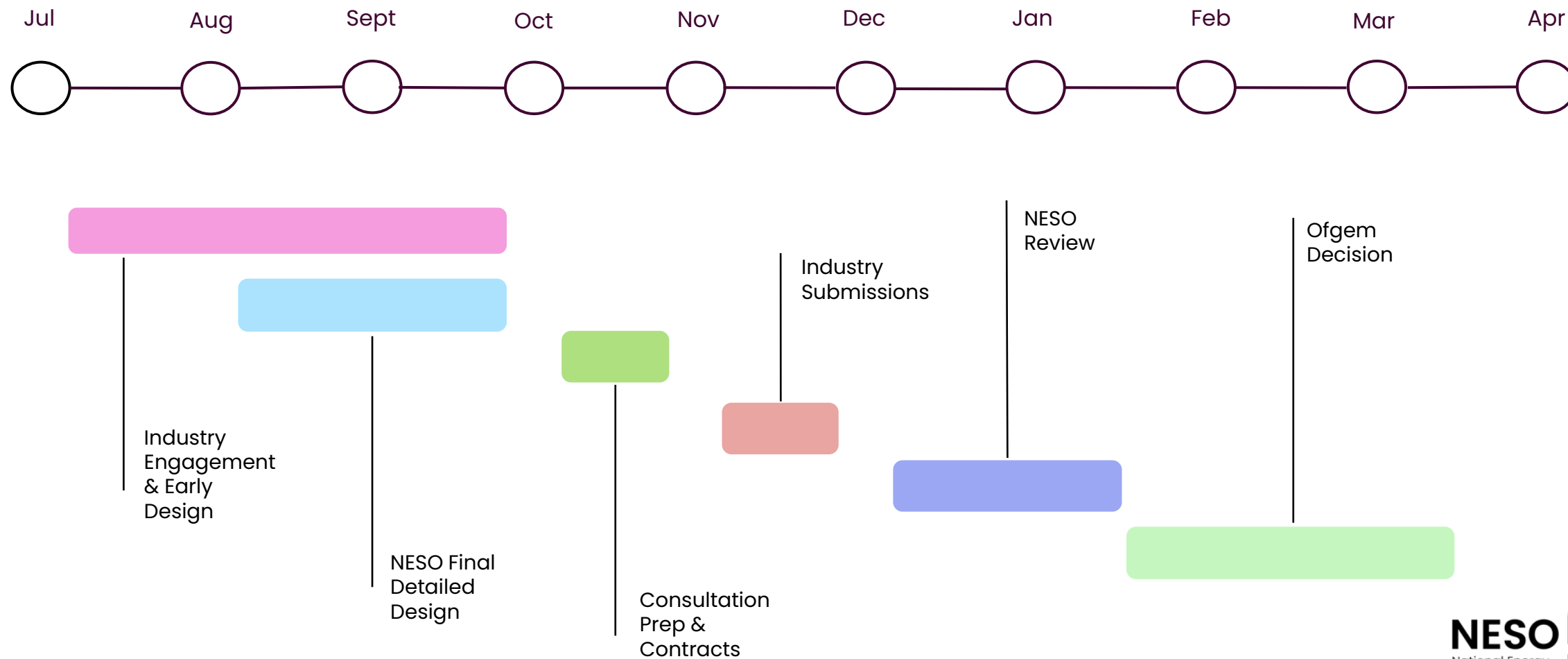


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Timelines and What's Next

DFS Indicative Timeline*



Deep Dive Workshops



Baseline & ABSVD



Locational Procurement



Demand Turn-Up



Eligibility Rules & Process

Keep in touch

Any questions & queries or would like to arrange a direct call

demandflexibility@neso.energy

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