

Public

You have been joined in listen only mode with your camera turned off

Live captioning is available in Microsoft Teams

- Click on the 3 dots icon / 'More'
- Click 'Turn on live captions'

NESO Operational Transparency Forum

2 April 2025

NESO has been commissioned by Government to conduct a review of the power outage incident at the North Hyde substation.

To avoid prejudicing the review being undertaken by our independent investigations team we will not be accepting questions about this incident at the OTF until the review has published its findings.

Slido code #OTF

To ask questions live & give us post event feedback go to Sli.do event code #OTF

- **Ask your questions as early as possible** as our experts may need time to ensure a correct answer can be given live.
- **Please provide your name or organisation.** This is an operational forum for industry participants therefore questions from unidentified parties will not be answered live. If you have reasons to remain anonymous to the wider forum, please use the advance question or email options below.
- **The OTF is not the place to challenge the actions of individual parties** (other than the NESO), and we will not comment on these challenges. This type of concern can be reported to the Market Monitoring team at: marketreporting@nationalenergyso.com
- **Questions will be answered in the upvoted order whenever possible.** We will take questions from further down the list when: the answer is not ready; we need to take the question away or the topic is outside of the scope of the OTF.
- **Sli.do will remain open until 12:00**, even when the call closes earlier, to provide the maximum opportunity for you to ask questions. After that please use the advance questions or email options below.
- **All questions will be recorded and published.** Questions which are not answered on the day will be included, with answers, in the slide pack for the next OTF.
- **Ask questions in advance** (before 12:00 on Monday) at: <https://forms.office.com/r/k0AEfKnai3>
- **Ask questions anytime** whether for inclusion in the forum or individual response at: box.nc.customer@nationalenergyso.com

Stay up to date on our webpage: <https://www.neso.energy/what-we-do/systems-operations/operational-transparency-forum> (OTF Q&A is published with slide packs)

Note: to access previous OTF webinars from Slido click on the three lines to the left of forum title

Future deep dive / focus topics

Slido code #OTF

Today's Focus Topics/deep dives

Overview of NESO Network Access Planning process

Future

NESO Market Monitoring activities – 9 April (moved from 19 March)

March Balancing Costs – 16 April

There will be **no OTF on 23 April** (week after Easter)

Introduction to contracts for Difference (CfD) – 30 April

If you have questions/suggestions of areas to cover during above presentations or ideas for deep dives or focus topics you would like us to consider, please send them to us at:

box.nc.customer@nationalenergyso.com

New OTF Calendar Invite

Slido code #OTF

We have updated our Operational Transparency Forum calendar invitation ahead of the 2025–26 Financial Year.

Please [subscribe](#) to receive OTF communications (make sure to tick Operational Transparency Forum). You will then receive pre-event emails which contain the joining link and calendar invitation for you to download and save in your calendars.

If you have already subscribed to receive OTF communications, you do not need to re-subscribe. Just download the new calendar invite once you receive the email with the relevant links.

Future Event Summary

Slido code #OTF

Event	Date & Time	Link
Quick Reserve Phase 2 – IT integration drop-in sessions covering OBP, Settlement and Operational Metering	Weekly until 10 April (10:30 – 11:30)	Register here
Strategic Spatial Energy Plan (SSEP) technical webinar	3 rd April (11:00–12:30)	Register here
GB Pricing Methodology Consultation	Closes: 4 th April 2025	Consultation Documents Responses to: box.eft@nationalenergyso.com
Joint C9 and Dynamic Response A18 Consultation	7 th April 2025	Provide your response here
FRCR 2025 Consultation – response (new) deadline	Extended deadline to 7th April (17:00)	Documents Response Form
Skip Rate methodology and dataset drop-in	15 th April (16:00–16:45)	Register here
Long-term 2029 tender – consultation and expression of interest	Consultation feedback deadline: 17 th April Expression of interest deadline: 28 th April	Further details
Balancing Programme Technology Stakeholder Focus Group	28 th April 2025 (11:30–13:00)	Register here
Skip Rate In-Person Forum	1 st May	Register here

Check out the [NESO Events Calendar](#) for more...

NESO's 2025 Markets Roadmap

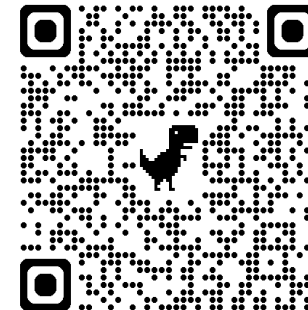
Slido code #OTF

NESO are pleased to publish our 2025 Electricity Markets Roadmap.

The roadmap details our forward-looking view of our markets, our market design principles and plans to reform and evolve our markets.

As always, we'd welcome any feedback on this iteration of the Markets Roadmap as well suggestions for content to include in future publications.

2025 Electricity
Market Roadmap



[Link – Markets Roadmap](#)

Feedback form



[Link – Feedback Form](#)

If you have any questions, contact us at
box.market.dev@nationalenergyso.com

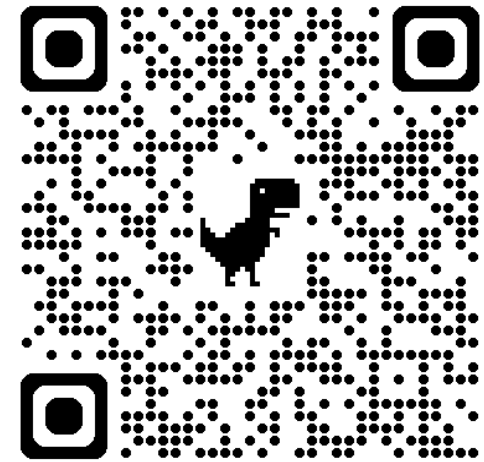
NESO's 2025 Operability Strategy Report

Last Friday, NESO published the 2025 Operability Strategy Report.

This report outlines our strategy for ensuring an operable clean power electricity system and explores how NESO will overcome the associated challenges. It includes how we will be building on NESO's "Clean Power 2030" advice and highlights our work with industry to develop new tools, processes, strategies and capabilities.

If you have any questions, please contact us at sof@nationalenergyso.com

2025 Operability Strategy Report



[Link - System Operability Framework \(SOF\)](#)

Future of Reactive Power

Approval of the Mid-Term Reactive Power Market

NESO has approved the implementation of a Mid-Term Reactive Power Market.

More information on the proposed design can be found on our [Mid-Term \(Y-1\) webpage](#).

As we continue to progress through implementation, progress updates will be shared via:

- Our Mid-term market (Y-1) webpage
- NESO's Energise Newsletter
- Operational Transparency Forums

Mid-term market (Y-1) webpage



NESO's Energise Newsletter



If you have any questions, contact us at box.voltage@nationalenergyso.com

Frequency Risk and Control Report (FRCR) 2025 Consultation: **Extended to 7th April 2025**

Slido code #OTF

- In line with SQSS requirement, NESO is obliged to produce an annual FRCR report and consult with industry on the assessment and policy recommendation presented in the report on how we manage frequency risks.
- **We will be consulting on the 2025 version of FRCR between the 3rd March and 7th April 2025.** The associated documents is published on [FRCR webpage](#).
- NESO is proving **integrated technical assurance** whereby Accenture, with whom NESO has an Engineering Services Framework, is performing an independent review. The phase 1 report is now available on [FRCR webpage](#).
- We held a webinar on **Wednesday 19th March 13:00–14:00**. You can find the recording and slides on [FRCR webpage](#).
- To further facilitate your understanding of FRCR 2025 modelling approach and data used, please refer to the recordings of
 - [FRCR 2025 Technical Webinar 1 Framework and Methodology](#)
 - [FRCR 2025 Technical Webinar 2 Model and Data](#)

Please send your response proforma to box.FRCR@nationalenergyso.com or complete the [online Response Form](#) by 5pm on Monday 7th April 2025

GB Pricing Methodology Consultation

Slido code #OTF

21st March – 4th April 2025

- Article 6(4) of Regulation (EU) 2019/943 obliges TSOs to settle balancing energy (utilisation) on a Pay as Cleared (PAC) basis for standard and specific balancing products. Most balancing products in GB use a Pay as Bid (PAB) settlement for balancing energy as an Alternative Payment Mechanism.
- In 2022, Ofgem approved a pricing proposal methodology for the settlement of balancing energy (utilisation) in GB.
- The methodology is currently being reviewed as part of the requirement to review every 3 years by NESO. As part of the review, NESO is running a consultation for industry feedback on the methodology.

Access the Consultation documents

[HERE](#)

Please send your response proforma to: box.eft@nationalenergyso.com by 5PM on Friday the 4th of April 2025

The Consultation is now open, and we are seeking your views.

Consultation Closes: 4th April at 5PM

Long-term 2029 Expression of Interest Stage Now Open

If you have any questions, please email box.voltage@nationalenergy.gov.uk or box.stability@nationalenergy.gov.uk

- NESO are pleased to announce the launch of the **Long-term 2029** tender
- A simultaneous tender process seeking reactive power services, stability services and restoration services across Great Britain from 2029 onwards
- This marks the first long-term (Y-4) tender being run under both the Stability Market and the Reactive Power Market
- **Market participants are invited to:**
 - **Provide consultation feedback by 17 April 2025**
 - **Express their Interest by 28 April 2025 to take part**

Public

Balancing Programme Technology Stakeholder Focus Group

Slido code #OTF

Date: 28 April 2025

Time: 11:30 – 13:00

Location: Microsoft Teams

Join our second Balancing Programme Technology Stakeholder Focus Group of 2025 to learn more about the EDL/EDT transition to the Open Balancing Platform, with details of cutover plans and timelines for transition activity and provider testing outlined. This session will be useful for providers of EDL/EDT software, and market participants interacting with the submission/receipt of EDL/EDT data.

If you are not signed up to our Balancing Programme Technology Stakeholder Focus Group and would like to attend this session, please register for the Focus Group [here](#) – a calendar invite will be sent to you following sign up.

If you have any questions, please contact the team at:
box.balancingprogramme@nationalenergyso.com

Webinar: Strategic Spatial Energy Plan (SSEP) technical webinar

Slido code #OTF

We are hosting an SSEP technical webinar on **3 April 11:00–12:30**.

Event details

The webinar will provide an in-depth overview of the economic modelling process and geospatial evaluation for the SSEP.

The economic model plays a crucial role in simulating and analysing the operation and evolution of the energy system under various inputs and scenarios. Geospatial data will help to determine areas where generation and storage infrastructure development may be possible.

Audience

The webinar is open to all interested parties. Please be aware that the content will cover technical detail and will assume prior knowledge of the SSEP modelling approach.

Background

In December 2024, we consulted on three strategic energy planning methodologies, including the draft SSEP methodology. To support this consultation, we held a webinar detailing our proposed approaches. The webinar recording and FAQs can be found [here](#). You may find this helpful ahead of the SSEP technical webinar.

[Register here](#)

Date: 3 April
Time: 11:00–12:30

Contact: [box.sep-
engagement@nationalenergyso.com](mailto:box.sep-engagement@nationalenergyso.com)

Skip Rate In-Person Forum

Secure your place at our upcoming in-person Skip Rates Programme Engagement Event.

Date: [Thursday 1 May](#)

Location: [Hilton London Paddington](#)

This event is open to all stakeholders taking part in Balancing Services, and will cover updates on NESO Skip Rate methodology and data sets, as well as provide opportunities to speak to our Subject Matter Experts on the day.

A detailed agenda for the day will be made available closer to the event. If there are specific topics you would like to hear about, please email us at:

box.SkipRates@nationalenergyso.com

[REGISTER HERE](#)



Public

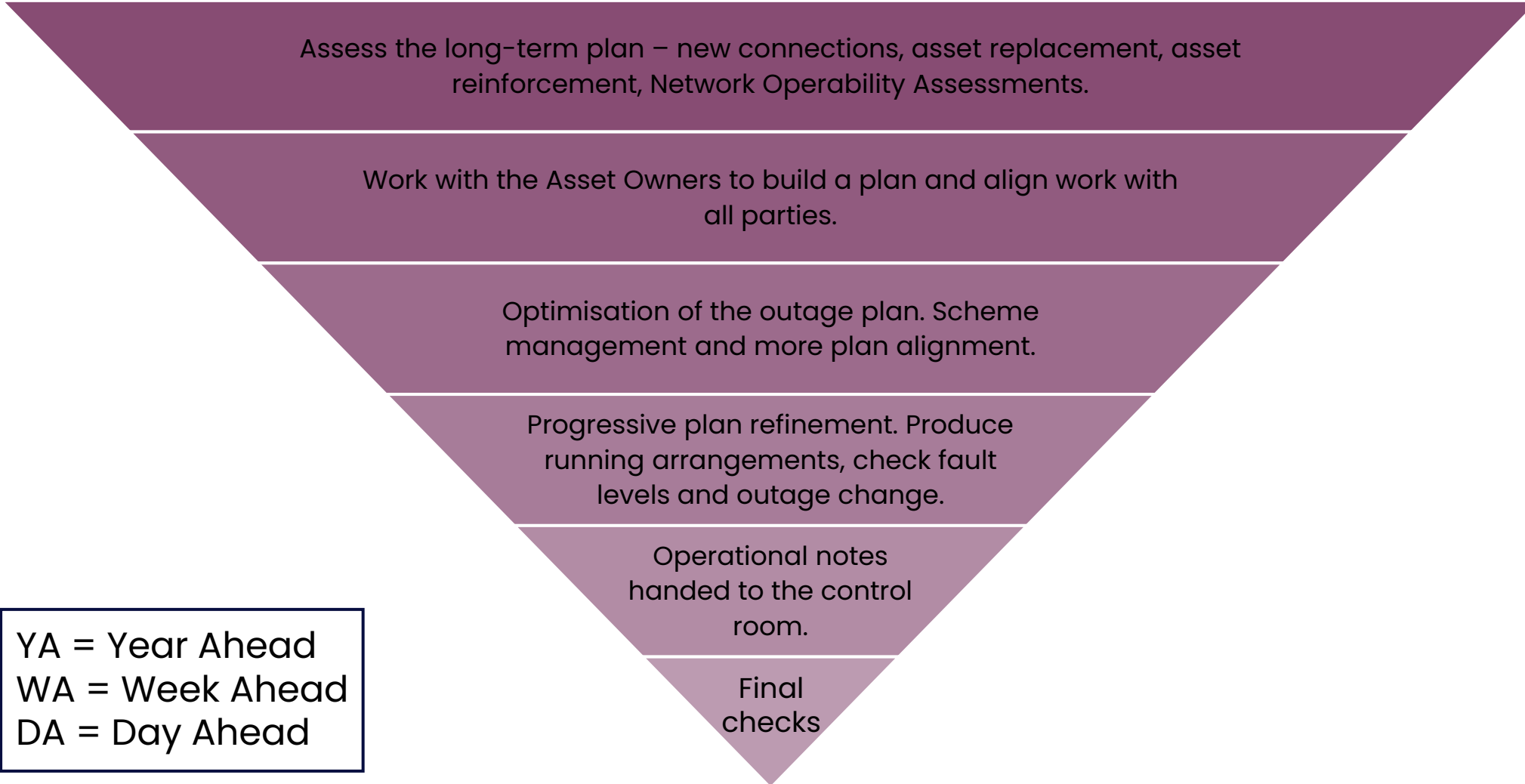
Slido code #OTF

Network Access Planning (NAP) Process

Matt Chapman

Delivery to the control room

Slido code #OTF



YA = Year Ahead
WA = Week Ahead
DA = Day Ahead

6YA-YA

YA

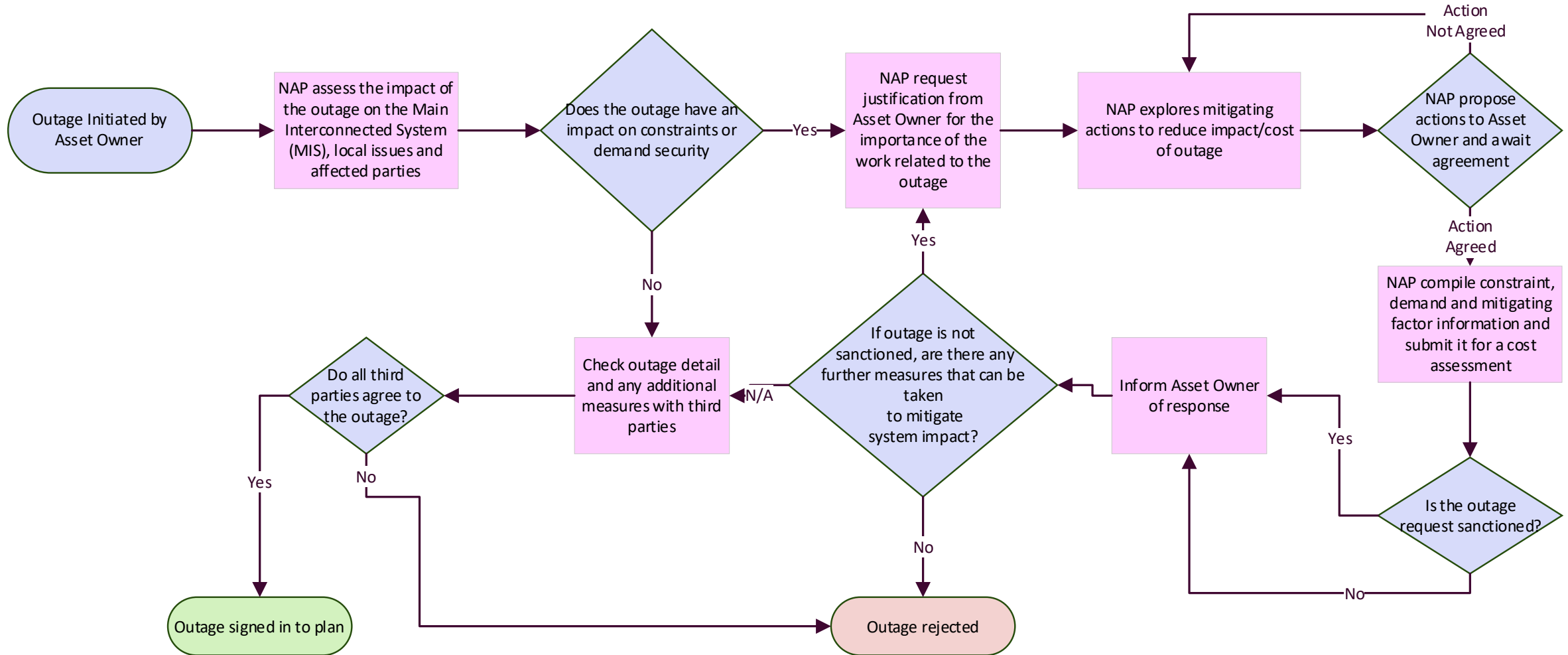
YA-4WA

2WA

WA

DA

Journey of an outage



Assessments carried out by NAP

Slido code #OTF

MIS-Related

Ensuring outage plan meets SQSS
(Security and Quality of Supply Standards)

Identification of system constraints and
planning of viable options to resolve
overloaded equipment.

Ensure voltages are within limits and network
stability checked.

Compare constraint assessments on the
network with and without the requested
outage

Local Issues

Demand at risk is assessed

Fault Level Assessment

Optimise Substation Running Arrangements

Protection Systems Checked

Details of outage communicated with
Asset Owners and affected parties

Mitigations

Rating Enhancement

Change network topology

Optimise Outage Schedule

Generator Contracts

Check for flexible Emergency Return To
Service on outage

MIS = Main Interconnected System

What is a constraint?

A constraint is defined by a critical fault that requires action, the overloading circuit as a consequence of that critical fault, and any generation, demand and equipment that are effective in managing the constraint.

Slido code #OTF

Position of the boundary:

- Cuts through the critical fault
- Cuts through the critical overload
- Encompasses “effective” plant

Contents of the boundary:

- Generators driving an overload
- Demand driving an overload
- Reactive equipment
- Substations with effective running arrangements
- Phase shifter transformer (Quad Boosters)

Types of constraint

Thermal

Limited by the current capacity and heating

Can be export or import

Voltage

Limited by SQSS steady-state or step-change limit

More challenging in areas with lots of underground cables

Stability

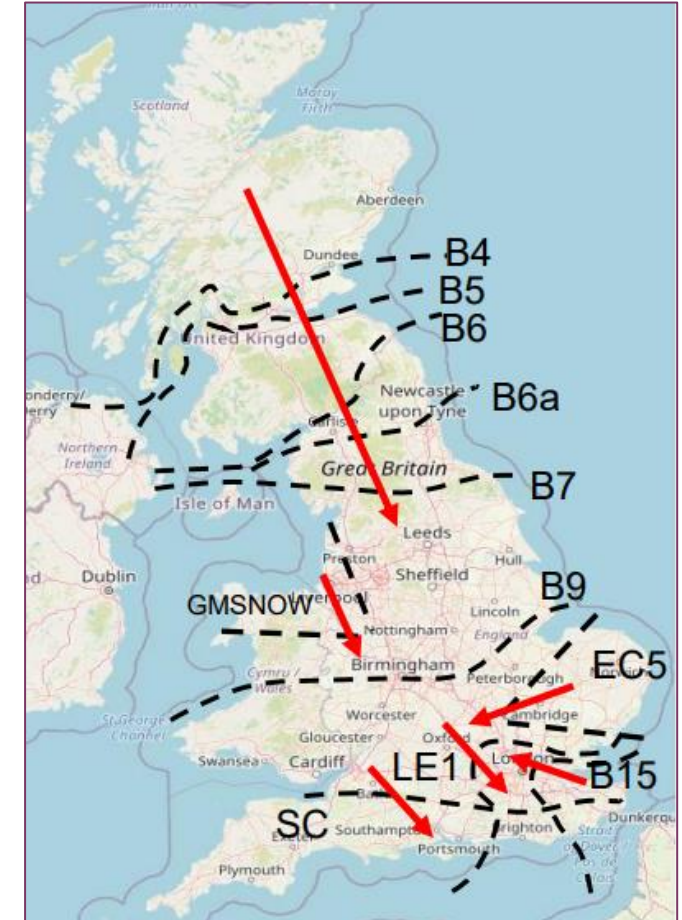
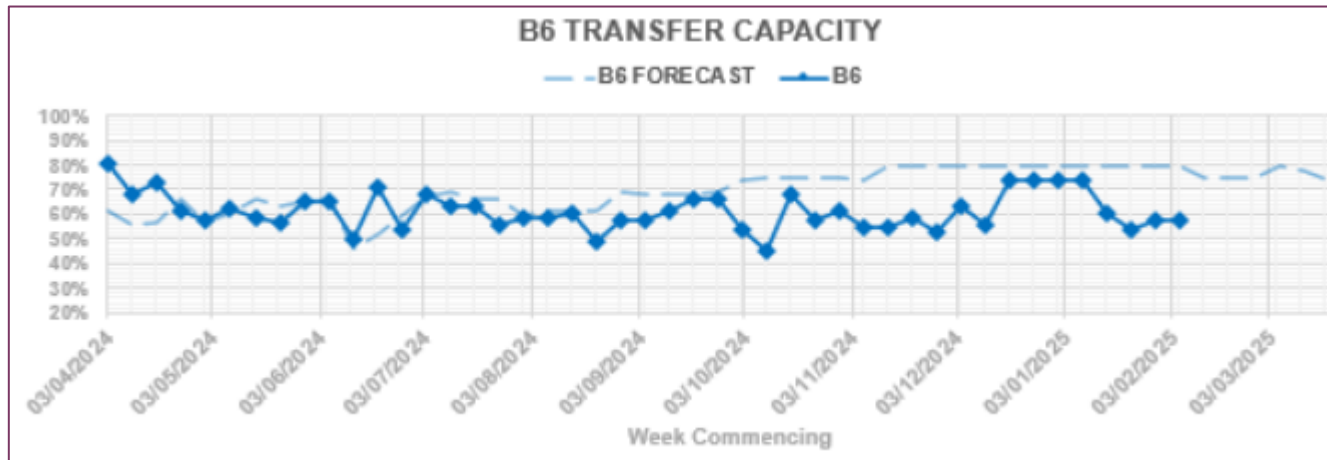
Limited by the transient stability of synchronous generators

Stability is dependant on inertia

Constraint transparency

Slido code #OTF

- **Maximum Limit (100%):** Highest value achieved at Day-Ahead within the last 12-months
- **Forecast Limit (%) (Dashed Line):** Limit achieved by Year-Ahead & Medium-Term
- **Current Capacity (%) (Solid Line):** Actual limit handed over at Day-Ahead

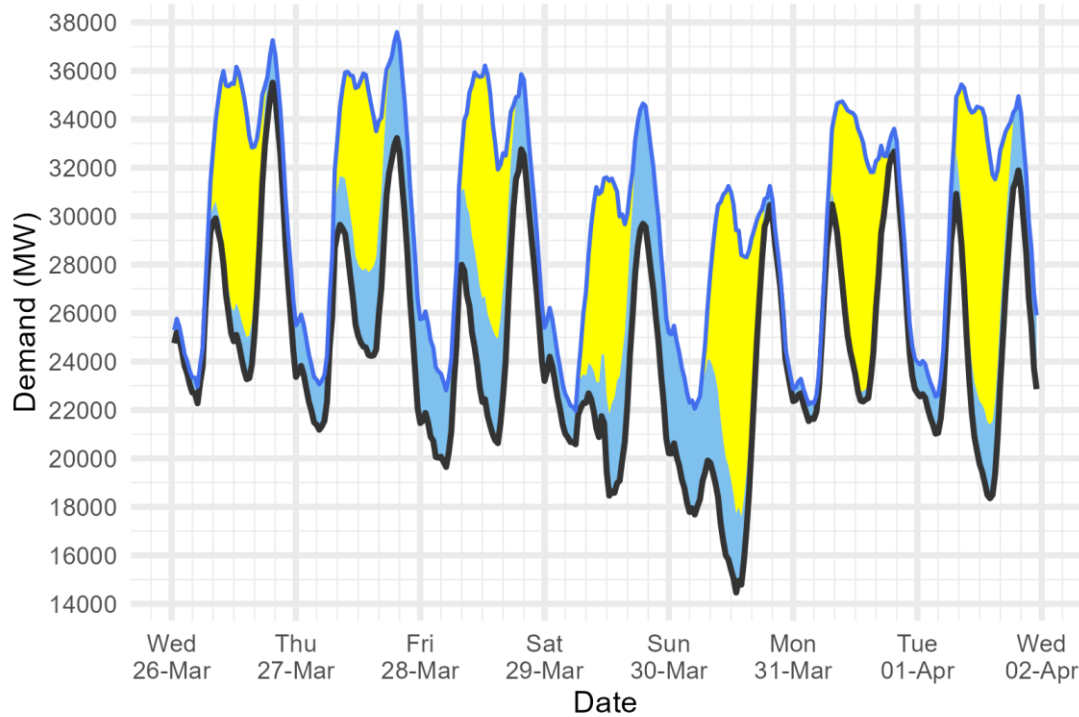


Thank You

Demand | Last week demand out-turn

Slido code #OTF

NESO National Demand outturn 26 March-01 April 2025



Demand type

- National Demand (ND) transmission connected generation requirement within GB
- ND + est. of PV & wind at Distribution network

Renewable type

- Distributed_PV
- Distributed_Wind

The black line (National Demand ND) is the measure of portion of total GB customer demand that is supplied by the transmission network.

ND values do not include export on interconnectors or pumping or station load

Blue line serves as a proxy for total GB customer demand. It includes demand supplied by the distributed wind and solar sources, but it does not include demand supplied by non-weather driven sources at the distributed network for which NESO has no real time data.

Historic out-turn data can be found on the [NESO Data Portal](#) in the following data sets: [Historic Demand Data](#) & [Demand Data Update](#)

Distributed generation

Peak values by day

Date	OUTTURN	
	Daily Max Dist. PV (GW)	Daily Max Dist. Wind (GW)
26 Mar 2025	9.8	2.1
27 Mar 2025	8.1	4.7
28 Mar 2025	9.9	4.4
29 Mar 2025	9.6	5.1
30 Mar 2025	11.9	4.9
31 Mar 2025	10.6	1.2
01 Apr 2025	12.2	3.2

National Demand

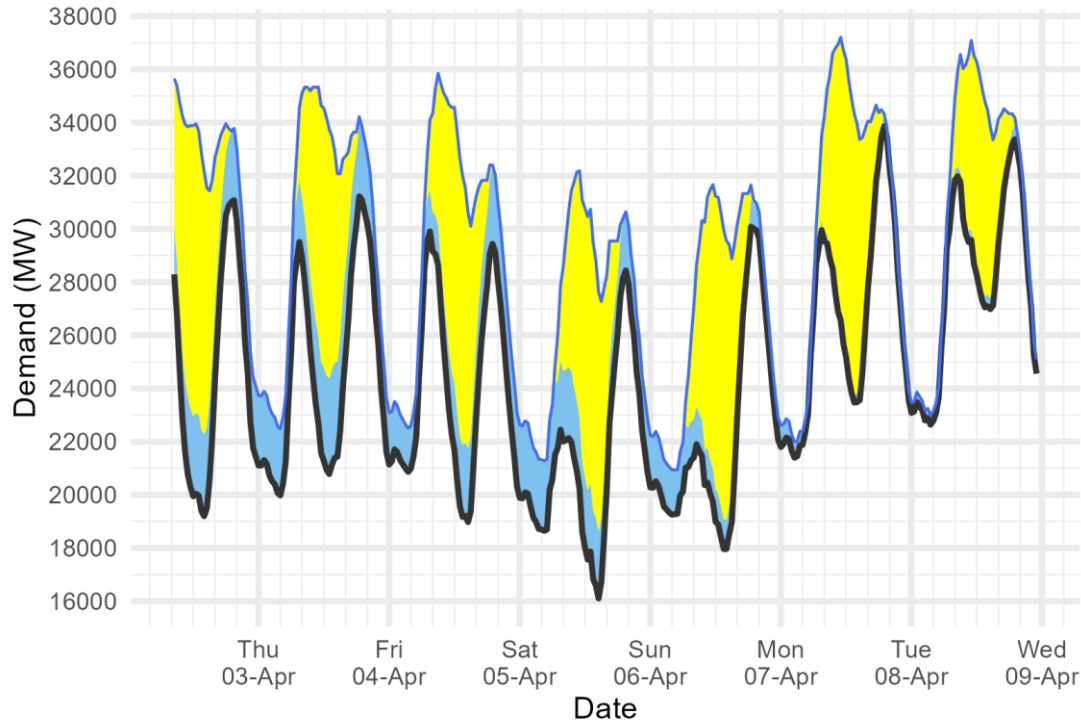
Peaks and troughs

Date	Forecasting Point	FORECAST (Wed 26 Mar)		OUTTURN	
		National Demand (GW)	Dist. wind (GW)	National Demand (GW)	Dist. wind (GW)
26 Mar 2025	Evening Peak	35.1	1.8	35.5	1.8
27 Mar 2025	Overnight Min	20.8	2.0	21.2	1.9
27 Mar 2025	Evening Peak	32.6	3.7	33.2	4.4
28 Mar 2025	Overnight Min	19.6	2.9	19.6	3.2
28 Mar 2025	Evening Peak	33.7	2.5	32.8	3.1
29 Mar 2025	Overnight Min	20.5	1.6	20.6	1.4
29 Mar 2025	Evening Peak	29.9	3.6	29.7	5.0
30 Mar 2025	Overnight Min	17.2	3.8	17.7	4.4
30 Mar 2025	Evening Peak	28.7	2.2	29.6	1.0
31 Mar 2025	Overnight Min	20.5	1.6	21.5	0.7
31 Mar 2025	Evening Peak	33.4	1.0	32.1	0.8
01 Apr 2025	Overnight Min	21.4	1.2	21.0	1.5
01 Apr 2025	Evening Peak	32.4	1.9	31.2	2.9

Demand | Week Ahead

Slido code #OTF

NESO Demand forecast for 02-08 April 2025



Demand type

- National Demand (ND) transmission connected generation requirement within GB
- ND + est. of PV & wind at Distribution network

National Demand
Peaks and troughs

Renewable type

- Distributed_PV
- Distributed_Wind

The black line (National Demand ND) is the measure of portion of total GB customer demand that is supplied by the transmission network.

ND values do not include export on interconnectors or pumping or station load

Blue line serves as a proxy for total GB customer demand. It includes demand supplied by the distributed wind and solar sources, but it does not include demand supplied by non-weather driven sources at the distributed network for which NESO has no real time data.

		FORECAST (Wed 02 Apr)		
Date	Forecasting Point	National Demand (GW)	Dist. wind (GW)	Dist. PV (GW)
02 Apr 2025	Afternoon Min	19.2	3.1	9.9
03 Apr 2025	Overnight Min	20.0	2.5	0.0
03 Apr 2025	Afternoon Min	20.8	3.6	9.4
04 Apr 2025	Overnight Min	20.9	1.6	0.0
04 Apr 2025	Afternoon Min	19.0	2.8	8.9
05 Apr 2025	Overnight Min	18.6	2.6	0.0
05 Apr 2025	Afternoon Min	16.1	2.5	9.0
06 Apr 2025	Overnight Min	19.3	1.7	0.0
06 Apr 2025	Afternoon Min	18.0	1.1	10.9
07 Apr 2025	Overnight Min	21.4	0.6	0.0
07 Apr 2025	Afternoon Min	23.5	0.3	10.5
08 Apr 2025	Overnight Min	22.6	0.4	0.0
08 Apr 2025	Afternoon Min	27.0	0.4	6.4

Historic out-turn data can be found on the [NESO Data Portal](#) in the following data sets: [Historic Demand Data](#) & [Demand Data Update](#)



Operational Margins | Week Ahead

Slido code #OTF

How to interpret this information

This slide sets out our view of operational margins for the next week. We are providing this information to help market participants identify when tighter periods are more likely to occur such that they can plan to respond accordingly.

The table provides our current view on the operational surplus based on expected levels of generation, wind and peak demand. This is based on information available to NESO as of the day these slides are being published and is subject to change. It represents a view of what the market is currently intending to provide before we take any actions. The interconnector flows are equal to those in the Base case presented in the Winter Outlook.

The indicative surplus is a measure of how tight we expect margins to be and the likelihood of the NESO needing to use its operational tools.

For higher surplus values, margins are expected to be adequate and there is a low likelihood of the NESO needing to use its tools. In such cases, we may even experience exports to Europe on the interconnectors over the peak depending on market prices.

For lower (and potentially negative) surplus values, then this indicates operational margins could be tight and that there is a higher likelihood of the NESO needing to use its tools, such as interconnector trading and issuing margins notices. We expect there to be sufficient supply available to respond to these signals to meet demand.

Margins are adequate for the next week.

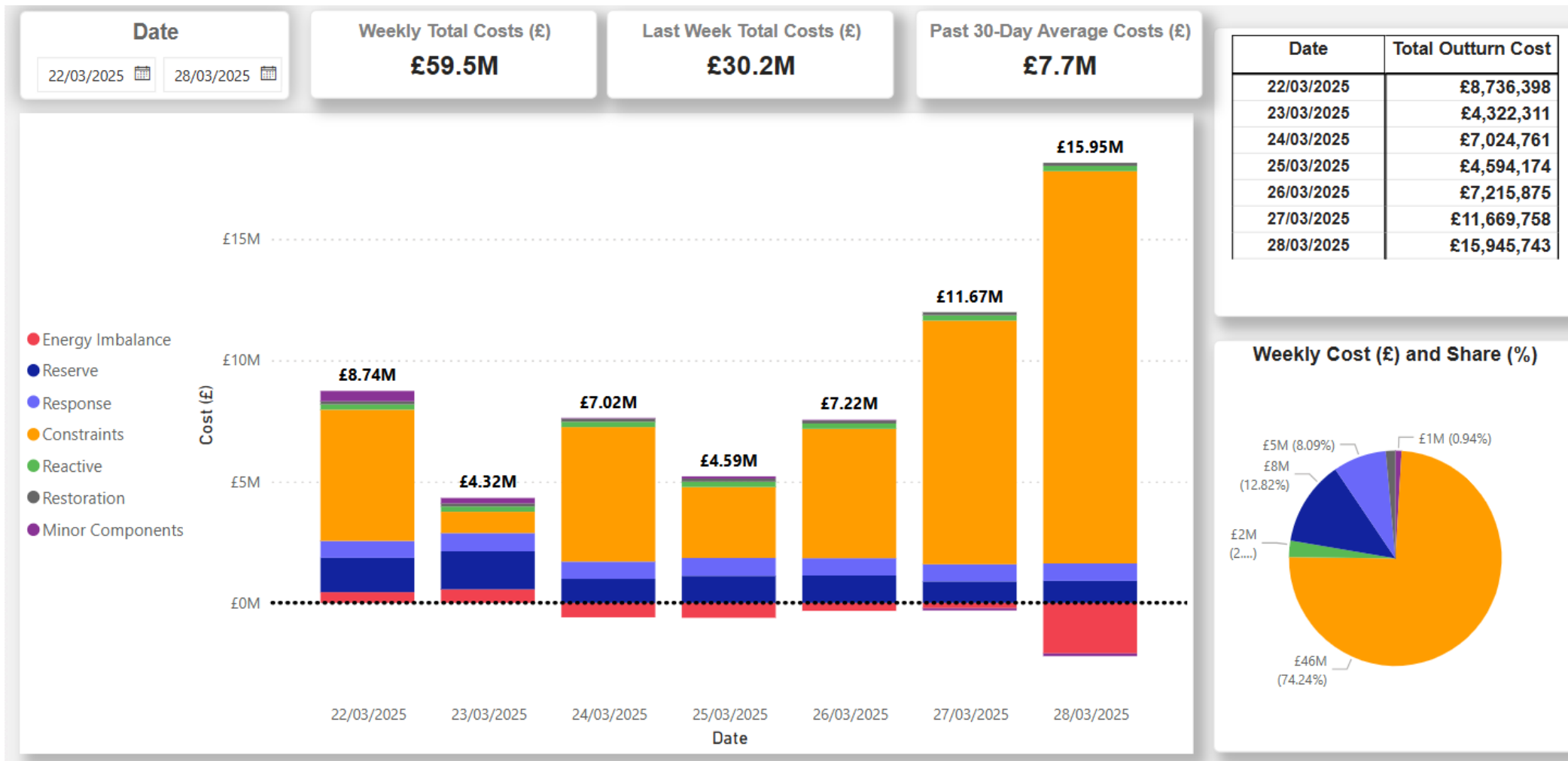
Day	Date	Notified Generation (MW)	Wind (MW)	IC Flows* (MW)	Peak demand (MW)	Indicative surplus (MW)
Thu	03/04/2025	39142	12700	4740	31670	19080
Fri	04/04/2025	39665	8820	4740	30430	17740
Sat	05/04/2025	39431	9170	4740	28530	20530
Sun	06/04/2025	39435	4270	4740	30100	14770
Mon	07/04/2025	40691	1860	4740	33490	10390
Tue	08/04/2025	39993	2370	4740	33400	9740
Wed	09/04/2025	39878	4370	4740	33140	11840

*Interconnector flow in line with the Winter Outlook Report Base Case but will ultimately flow to market price

Margins do not include NESO enhanced or emergency actions

NESO Actions | Category Cost Breakdown

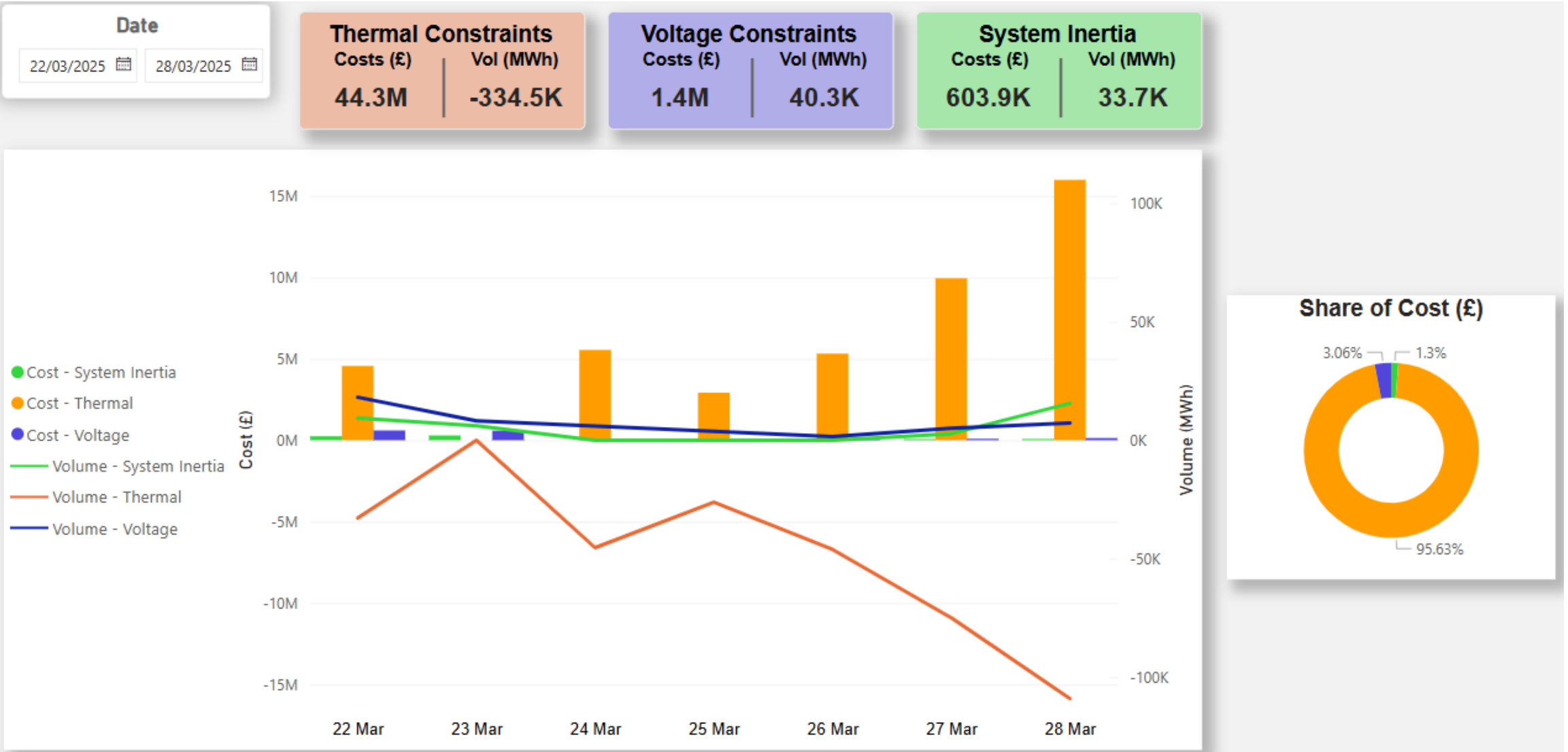
Slido code #OTF



January 2025 MBSS report update: please note this is still in progress and will be published later than usual

NESO Actions | Constraint Cost Breakdown

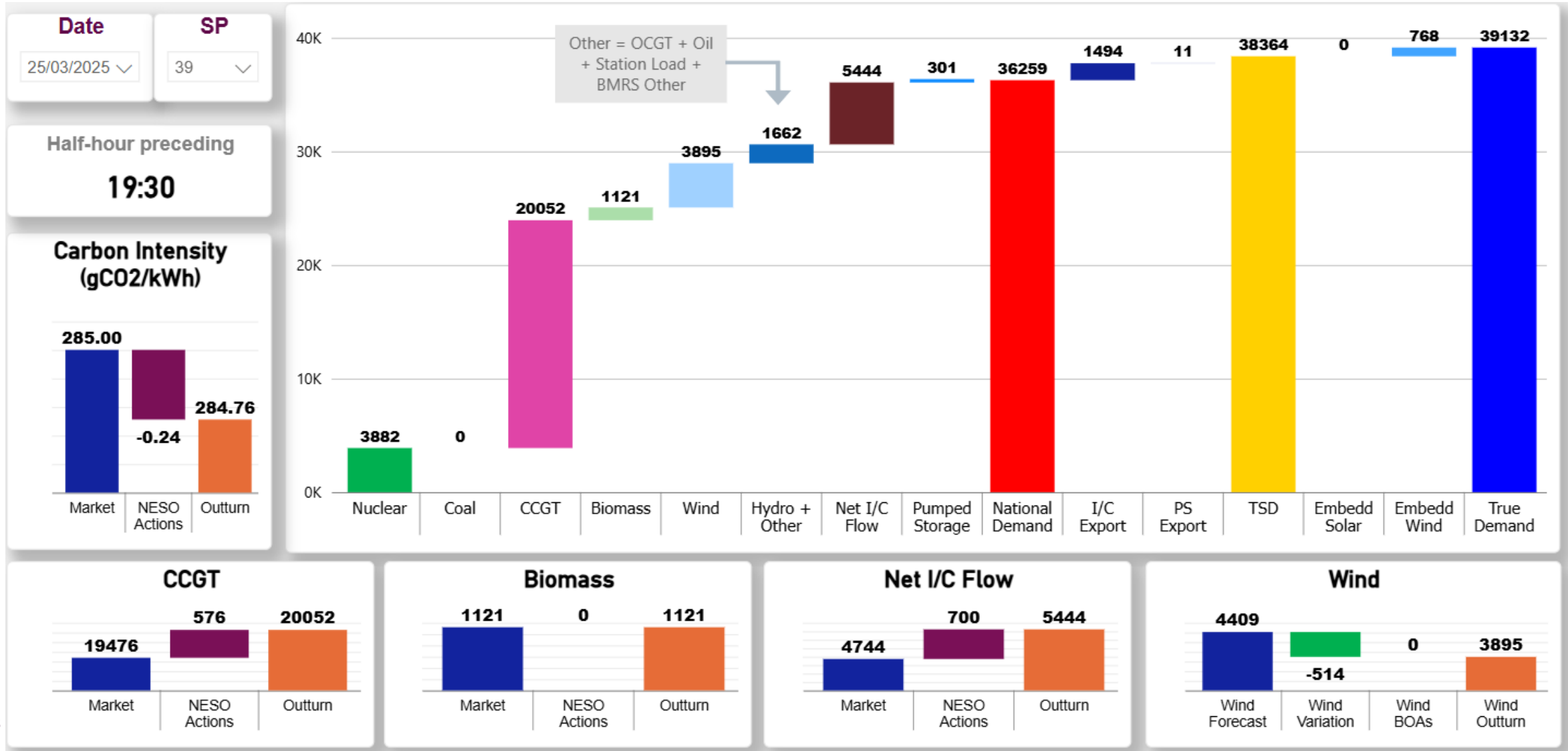
Slido code #OTF



NESO Actions | Peak Demand – SP spend ~ £50k

Tuesday 25th March

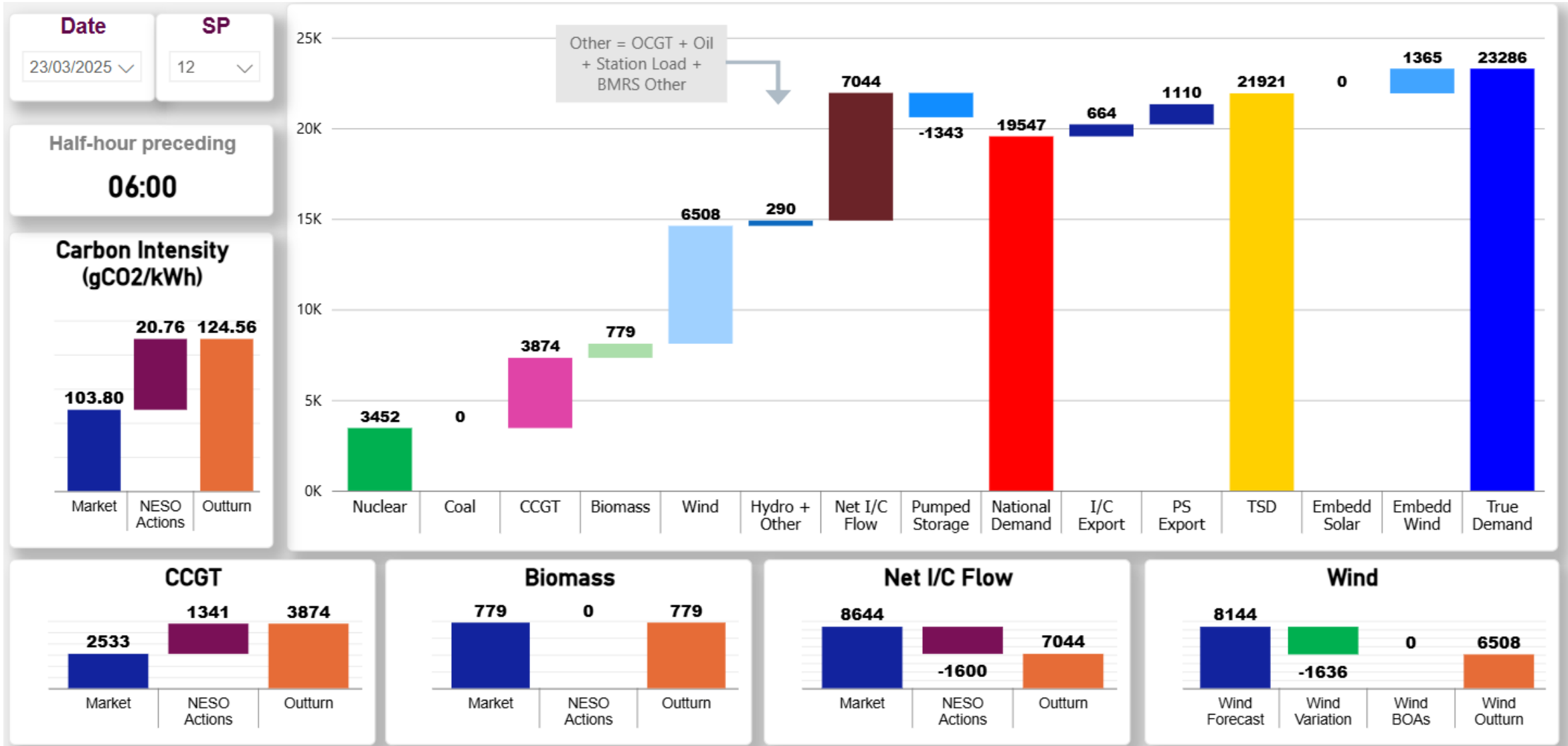
Slido code #OTF



NESO Actions | Minimum Demand – SP spend ~ £120k

Sunday 23rd March

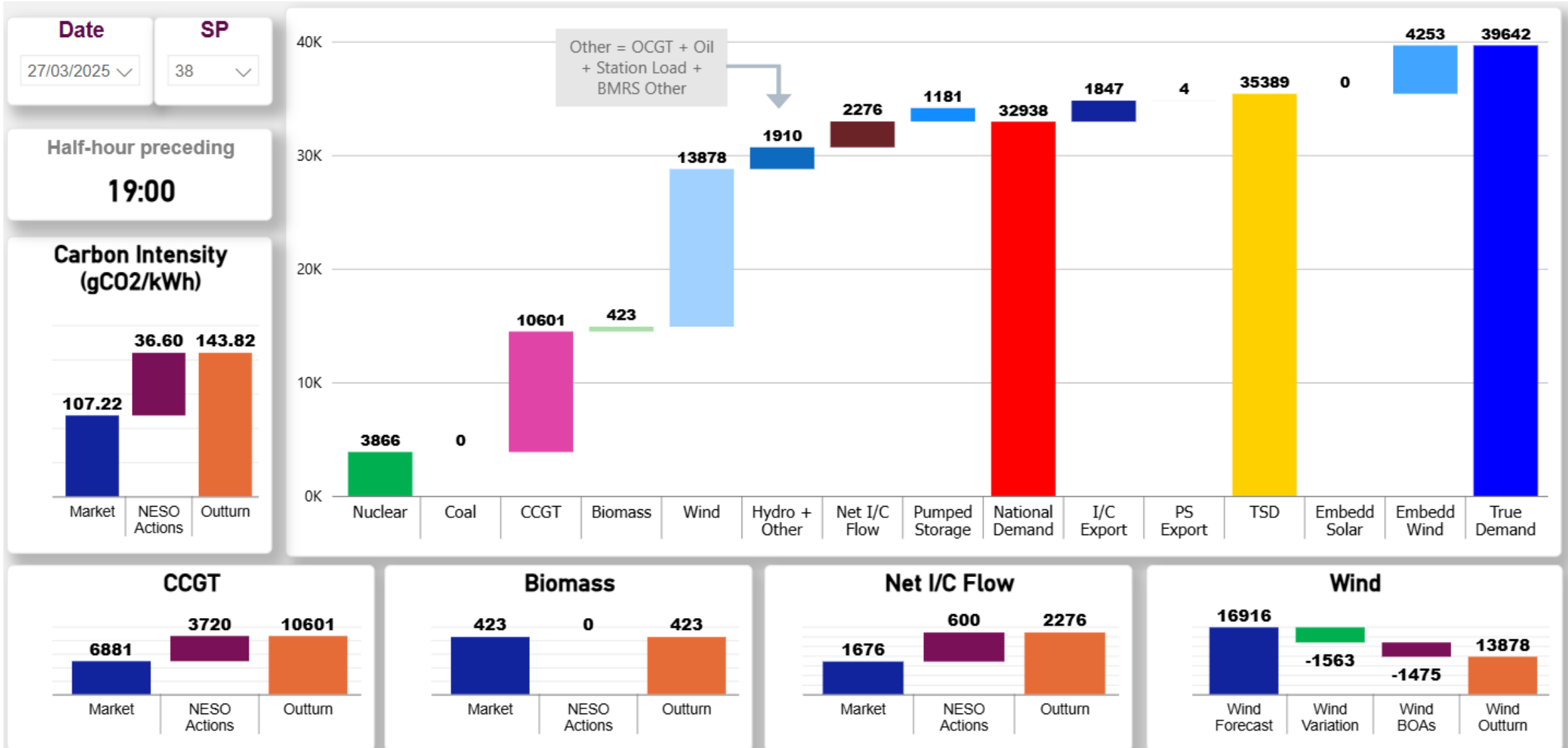
Slido code #OTF



NESO Actions | – Highest SP spend ~ £512k

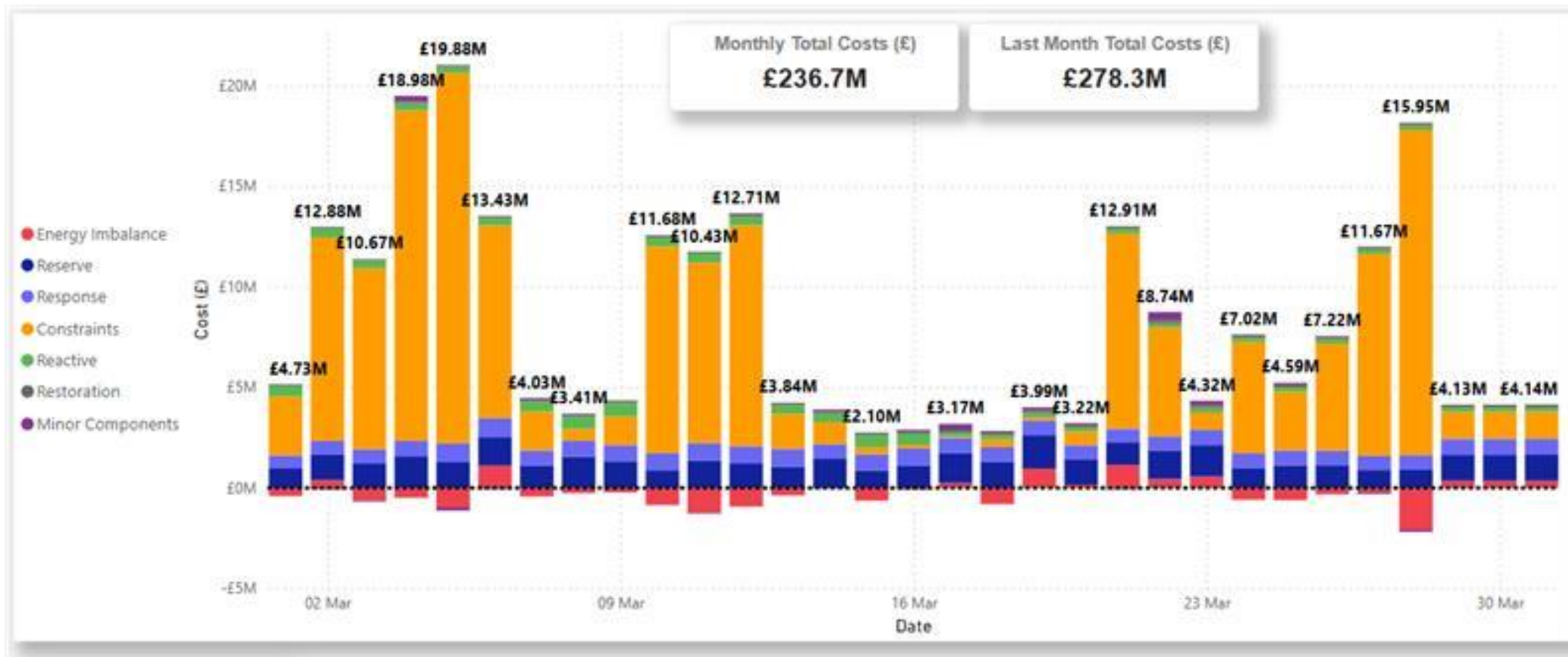
Thursday 27th March

Slido code #OTF

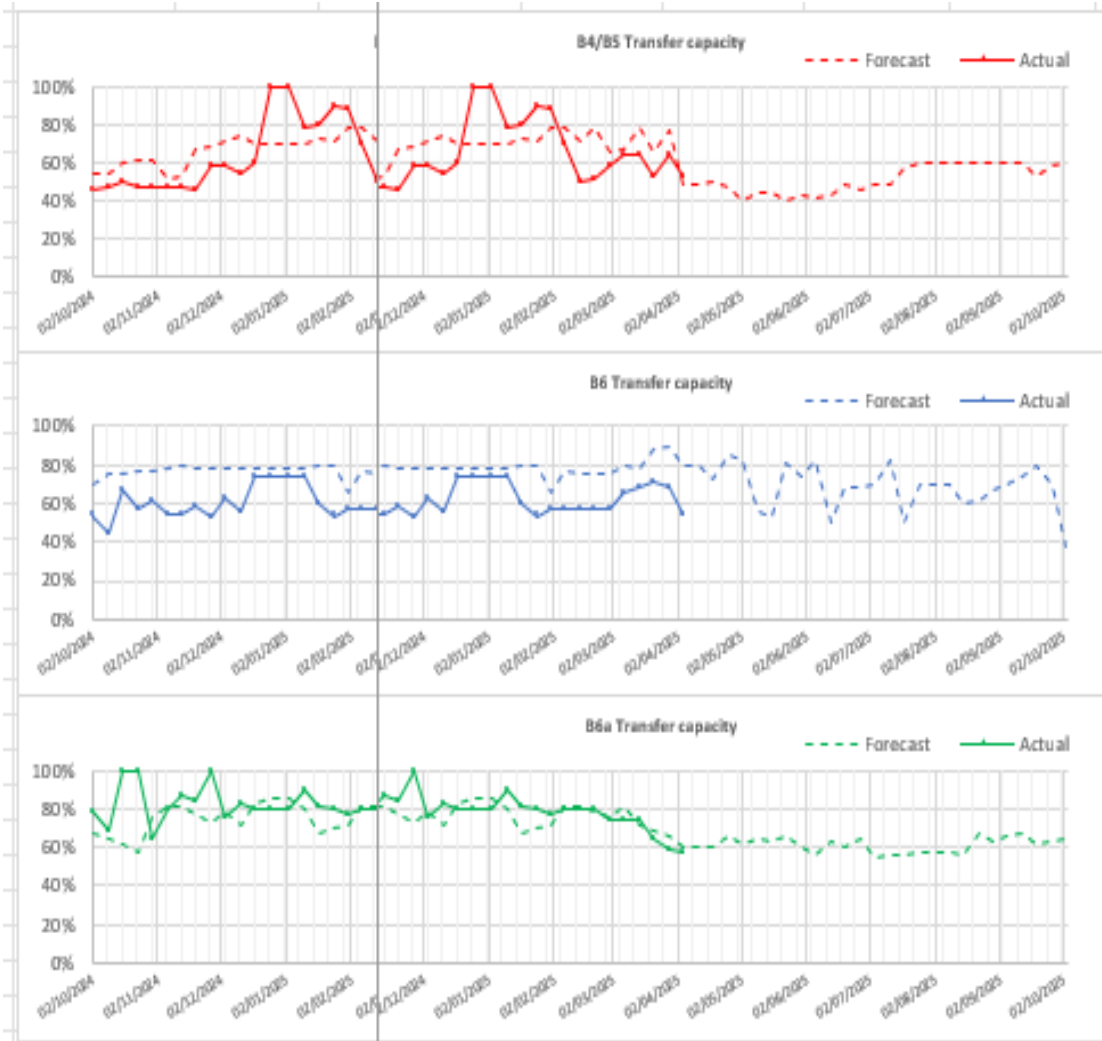


NESO Actions | – Monthly Spend March 2025

Slido code #OTF

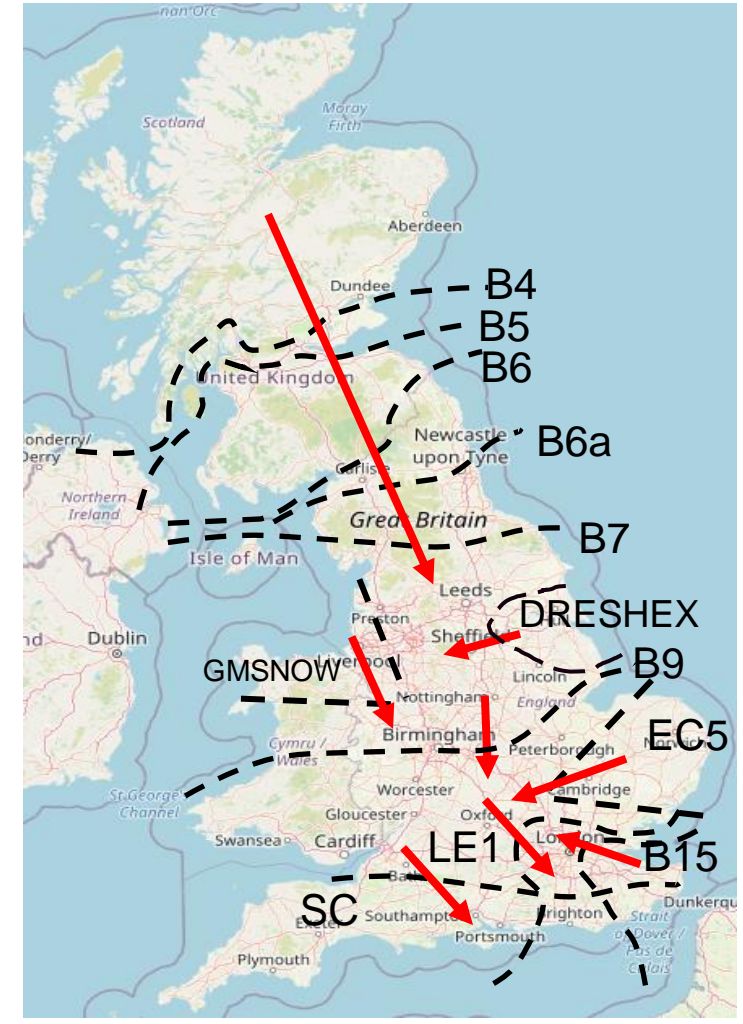


Transparency | Network Congestion

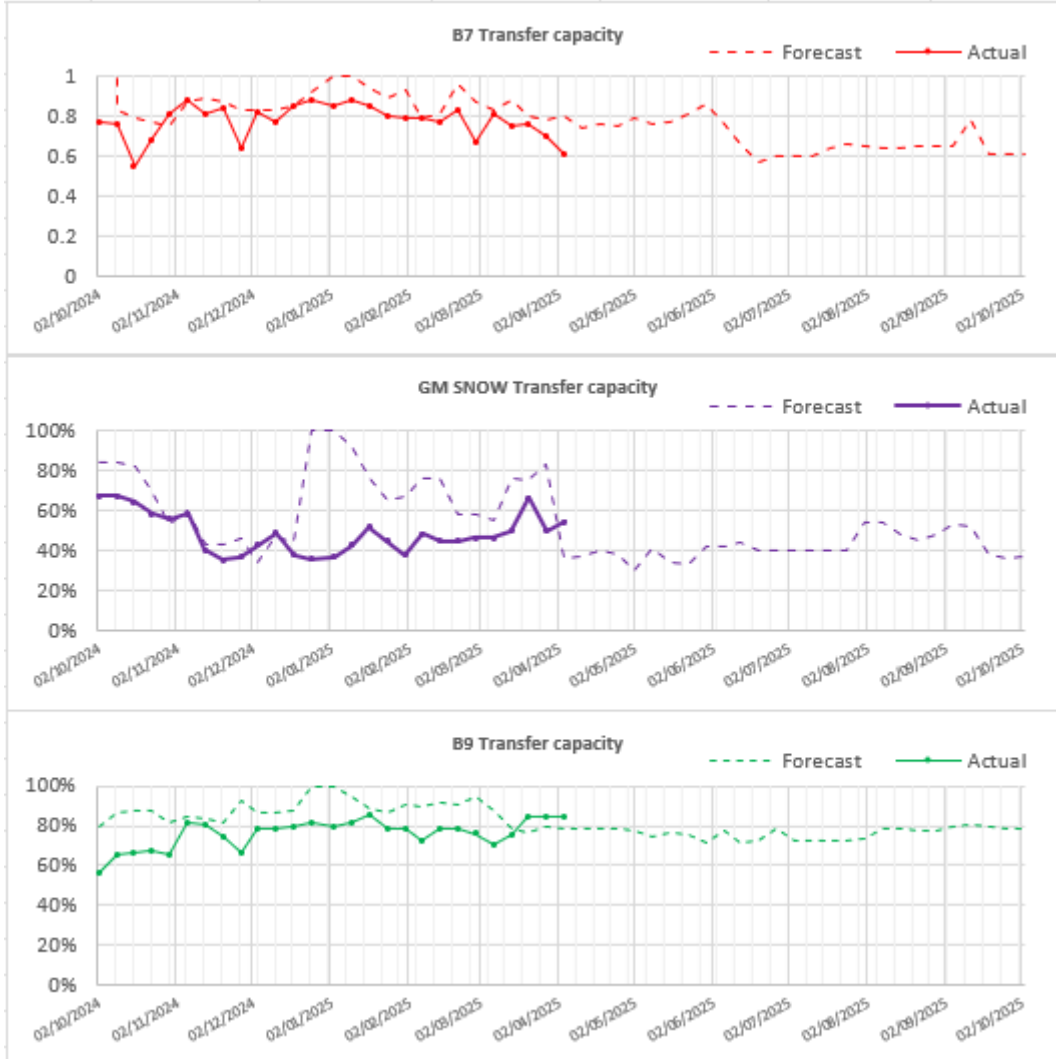


Boundary	Max. Capacity (MW)	Current Capacity (%)
B4/B5	3400	53%
B6 (SCOTEX)	6800	54%
B6a	8000	57%
B7 (SSHARN)	9850	61%
GMSNOW	5800	54%
FLOWSTH (B9)	12700	84%
DRESHEX	9675	79%
EC5	5000	100%
LE1 (SEIMP)	8750	65%
B15 (ESTEX)	7500	99%
SC1	7300	65%

Slido code #OTF

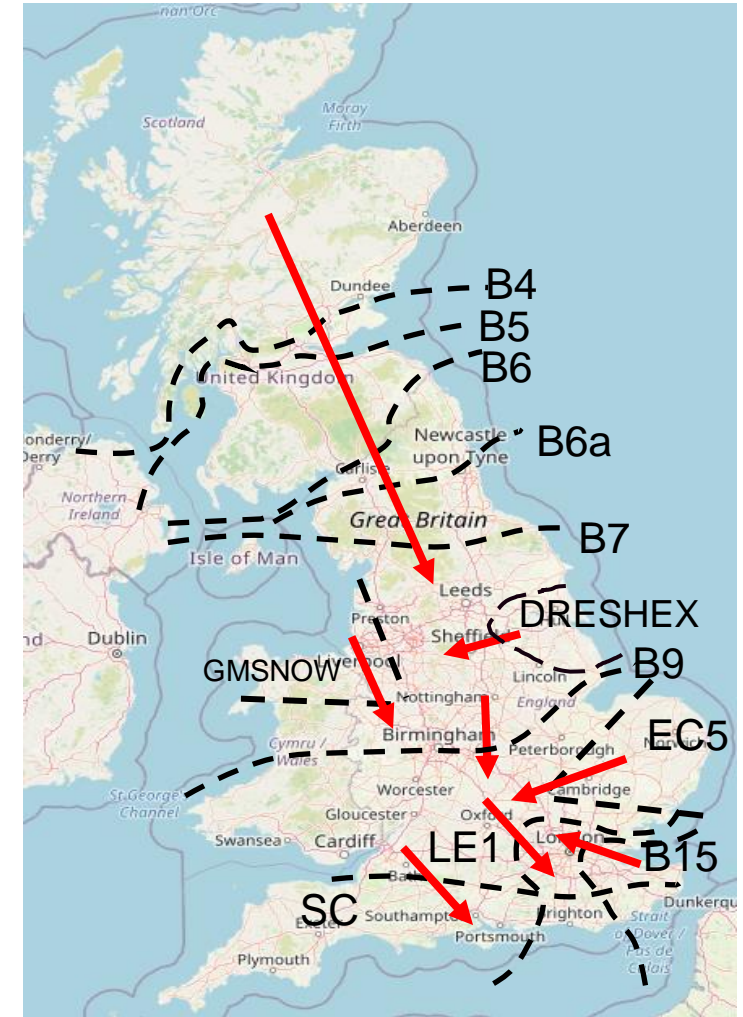


Transparency | Network Congestion



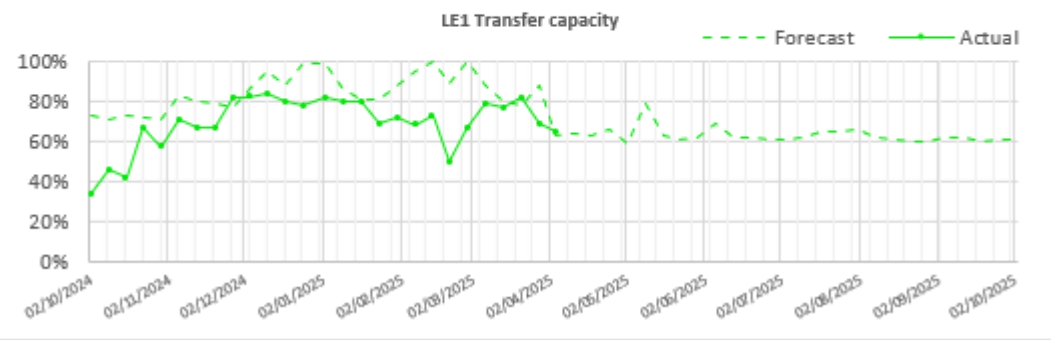
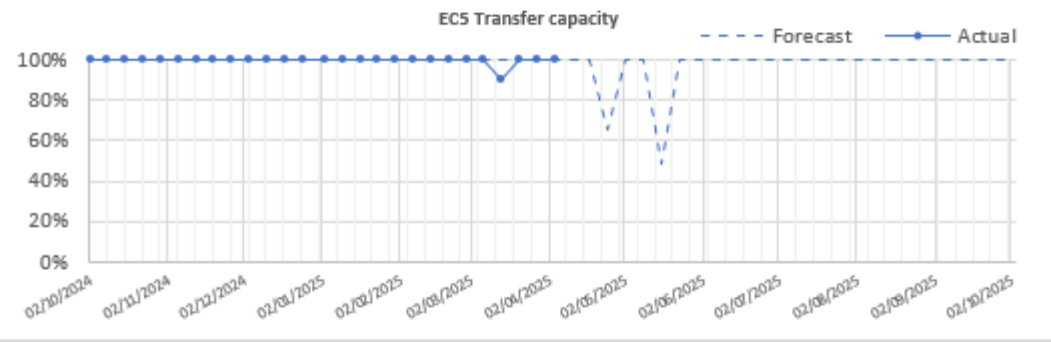
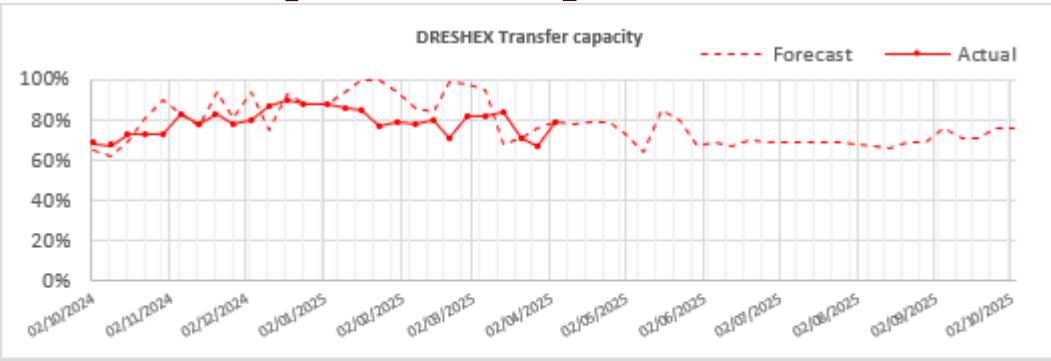
Boundary	Max. Capacity (MW)	Current Capacity (%)
B4/B5	3400	53%
B6 (SCOTEX)	6800	54%
B6a	8000	57%
B7 (SSHARN)	9850	61%
GMSNOW	5800	54%
FLOWSTH (B9)	12700	84%
DRESHEX	9675	79%
EC5	5000	100%
LE1 (SEIMP)	8750	65%
B15 (ESTEX)	7500	99%
SC1	7300	65%

Slido code #OTF

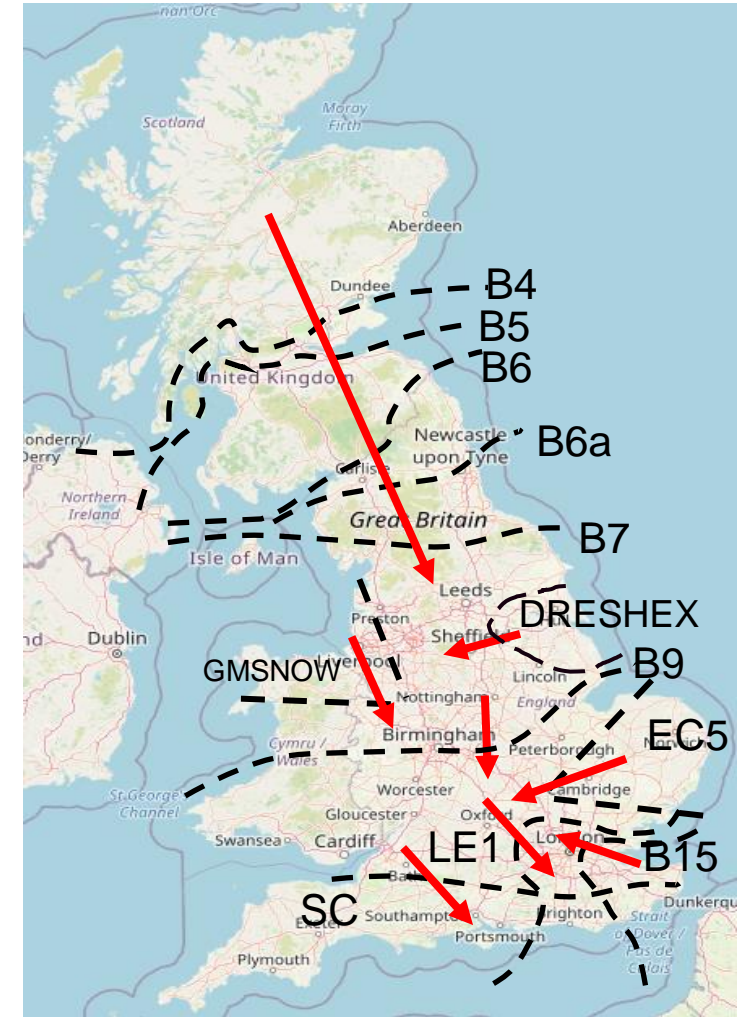


Transparency | Network Congestion

Slido code #OTF

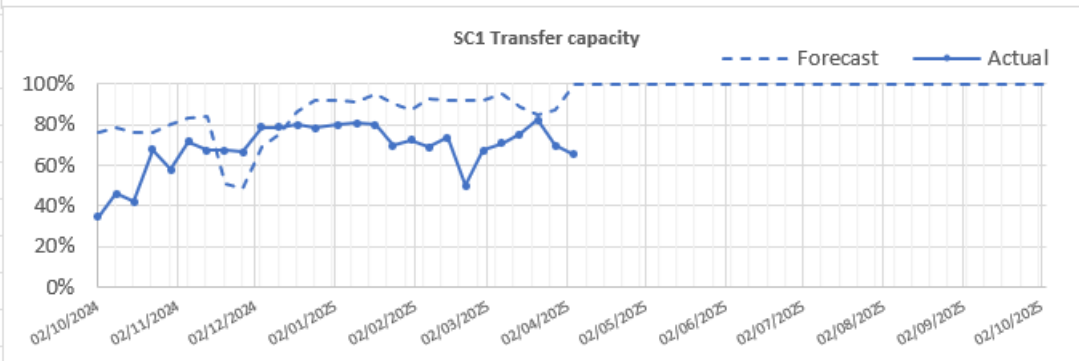
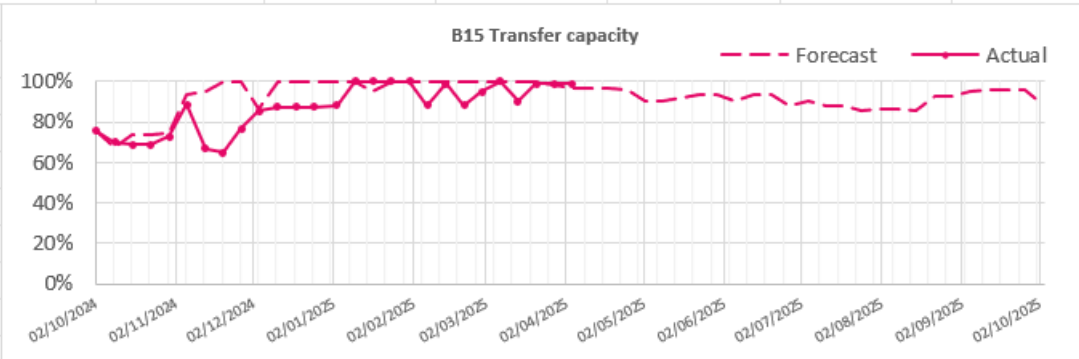


Boundary	Max. Capacity (MW)	Current Capacity (%)
B4/B5	3400	53%
B6 (SCOTEX)	6800	54%
B6a	8000	57%
B7 (SSHARN)	9850	61%
GMSNOW	5800	54%
FLOWSTH (B9)	12700	84%
DRESHEX	9675	79%
EC5	5000	100%
LE1 (SEIMP)	8750	65%
B15 (ESTEX)	7500	99%
SC1	7300	65%

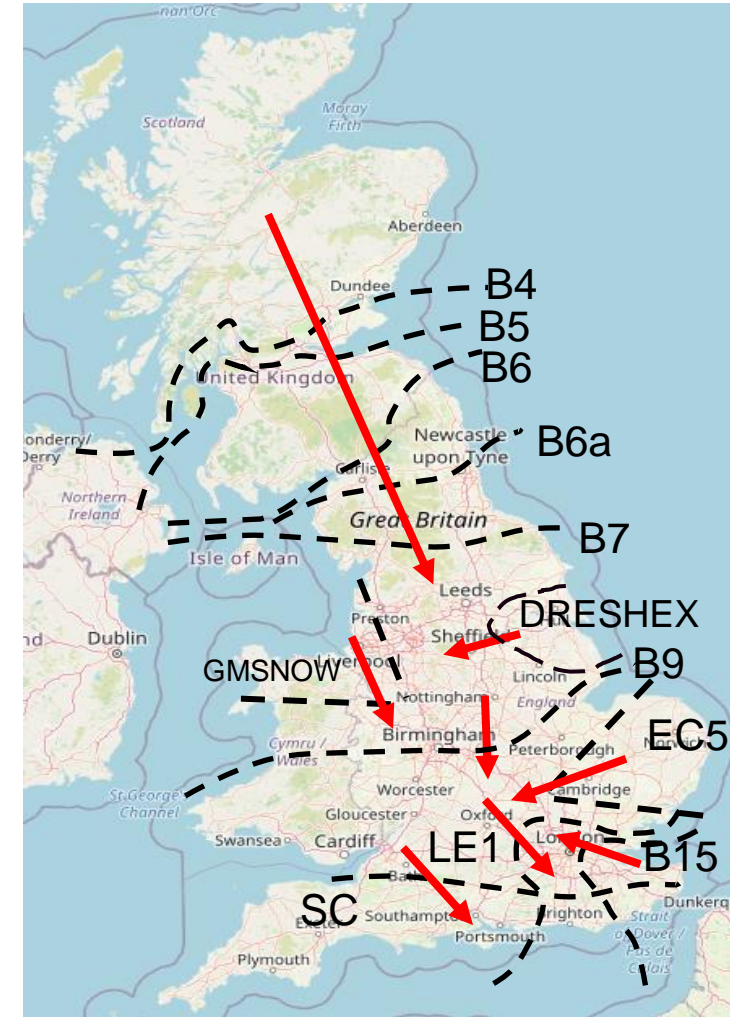


Transparency | Network Congestion

Slido code #OTF



Boundary	Max. Capacity (MW)	Current Capacity (%)
B4/B5	3400	53%
B6 (SCOTEX)	6800	54%
B6a	8000	57%
B7 (SSHARN)	9850	61%
GMSNOW	5800	54%
FLOWSTH (B9)	12700	84%
DRESHEX	9675	79%
EC5	5000	100%
LE1 (SEIMP)	8750	65%
B15 (ESTEX)	7500	99%
SC1	7300	65%



Skip Rates

Slido code #OTF

We are now sharing the summary skip rate data on a rolling 4-week basis. We welcome your comments on if you find this valuable and feedback on how we present this data.

Weekly Average w/e	Offers - All BM	Offers - PSA	Bids - All BM	Bids - PSA
09/03	12%	29%	4%	36%
16/03	21%	27%	7%	50%
23/03	15%	35%	20%	51%
30/03	14%	29%	5%	48%

Monthly Average	Offers - All BM	Offers - PSA	Bids - All BM	Bids - PSA
January	18%	34%	11%	53%
February	15%	33%	5%	49%
March (MTD)	15%	29%	6%	47%

Bids: Average Skip Rate and Total Skipped Volume (Daily)



Offers: Average Skip Rate and Total Skipped Volume (Daily)



w/e 30th March: High winds leading to a high volume of system flagged bids Thu-Sun afternoon, giving large difference between All BM & PSA bid skip rates. Higher bid skipped volume on Sunday due to more energy bids taken as demand was below forecast.

Note: due to size issues, both 'In Merit' datasets now have a separate file for each month. Based on feedback we intend to maintain this method of publishing the data. We endeavour to publish by 5pm each day.

[Skip rate data](#) and more info on [skip rates](#) and [battery storage](#) including methodology.

Skip Rates & Dispatch Transparency

Slido code #OTF

Note: The [Dispatch Transparency dataset](#) will no longer be published after end of March.

Dispatch Transparency

This dataset is a component of the Forward Plan 2020-21 commitment to increase the transparency of our operational decision making in the Balancing Mechanism (BM). It includes the publication of actions taken in the BM, reasons for them and includes a methodology document for the process.

NOTE: This dataset will not be published after the 31st March 2025 as the methodology and datasets have been superseded by the new Skip Rates methodology. The new datasets can be found [here](#) Alternative BOA data can be accessed via the Elexon website [here](#). If these datasets do not meet your needs then please contact us at opendata@nationalenergyso.com

We are hosting another drop-in session on the Skip Rate methodology and datasets on 15th April 16:00-16:45. Please register [here](#).

We will not be presenting any new information. Please come with your questions/feedback on the information presented on the 27th February. the webinar [recording](#) and [slides](#).

Please consider filling out this [feedback form](#) to let us know how you are using the data and how we can improve it.

Previously Asked Questions

Q: any concerns as a result of very low levels of gas in Europe?

A: Gas storage in Europe is low relative to the mild winters of 22/23 and 23/24, however against a longer history we would not consider European gas storage levels to be atypically low (for this stage of Winter). We work closely with Government, Ofgem and National Gas to assess and monitor emerging risks in global energy markets and any potential impacts on available supply.

Our latest assessment of electricity security of supply will be communicated in our Summer Outlook Report which is due for publication on 16th April. National Gas will be publishing their Summer Outlook on the same date.

Q: Is any wind curtailment done in merit during low demand periods or is it all for constraints?

A: It is in NESO's license obligation to optimise costs over a day, and any bids and offers are taken in accordance with this obligation. If the system requirements allow (e.g. the merit order would optimise costs over a day, and the merit order would relieve the system constraints needing resolved), then actions will be taken in merit order.

The control room will always try to take the lowest cost action when relieving system constraints. Low demand periods are often characterised by higher stability and voltage constraint actions, rather than thermal constraints.

Previously Asked Questions

Q: Does NESO have any longer term plans for how they are going to reduce the amount of wind curtailment consistently seen on the system – prioritise improvement in network congestion etc?

A: As observed, thermal constraints costs tend to be characterised by wind curtailment actions, and consequent offers to replace the energy.

Historically, wind generation has been built more quickly than the network infrastructure to transport the electricity to centres of demand, leading to curtailment. High constraints costs are expected to continue into the 2030s.

NESO are involved in many projects and initiatives to try and reduce curtailment and the costs associated with thermal constraints, which include the trial of a Local Constraint Market (LCM) and the Constraint Management Intertrip Scheme. We are actively investigating a scheme to incentivise more flexible strategic demand behind constrained boundaries (please see [Constraints Collaboration Project | National Energy System Operator](#)).

An example of how NESO is involved in longer-term ways to reduce thermal constraint costs is through our strategic recommendations of where to build network to most effectively relieve congestion. We have also highlighted the need for electricity market reform through DESNZ's REMA programme so that a locational signal is incorporated into the wholesale electricity price.

All of this will be covered in detail in our upcoming Balancing Costs Yearly Report, which will provide a long-term outlook on all Balancing Costs.

Previously Asked Questions

Slido code #OTF

Q: Relating to the TCLC guidelines and general wind constraint levels seen in Feb/March and beyond, is it justifiable that CCGT units are pricing their bid down/off levels much further below units in England knowing it is an inevitability?

A: TCLC applies to all fuel sources and states that they should not seek excessive benefits from a reduction in power output behind a constraint. The Market Monitoring team assess all market prices against this rule and escalate to OFGEM and/or the provider where appropriate.

Thank you for sharing your concerns, we will share your question with the Market Monitoring team. This is the team responsible for investigating and raising concerns or reporting potential market abuse to Ofgem where appropriate. This function is independent from the wider business and able to investigate internal actions alongside external actions.

You can contact them at: MarketReporting@nationalgrideso.com or you can contact Ofgem directly with any concerns at market.conduct@ofgem.gov.uk.

Q: Wrt historic skip rates (pre-Dec 2024) you've said 5 minute granularity data isn't available but I'm yet to see anyone look at skips at that level (NESO included). Can you not derive historic data at a HH granularity and just caveat it? It's important historic skip rates are published transparently

A: We understand the importance of this request but some of the real time data used in the calculations is not stored long term so this is not available before mid-December.

Previously Asked Questions

Q: (26/03/2024) 2029 is a long time to wait for the 1st and 2nd Eastern Green Links (EGL) projects to come online and alleviate Scottish constraints. When are the ongoing upgrade works (which hugely exacerbate the problem) expected to complete? Will they add to maximum transfer capacity on B4/B6 in the meantime?

A: Due to ongoing project work for increased power flow from North to South across two Transmission Owner (TO) regions and the interaction of the outage plans, increased capacity across the boundary will be limited and intermittent till 2029. The works include to install 2 phase shifting transformers to control the power flow and upgrade an existing major power carrying corridor from 275kV to 400kV, benefits which will be realised after all works are completed. Further information on delivery timelines will need to come from the Transmission Owners (see below).

- Eastern Green Link 1: [Home - Eastern Green Link 1](#) (SP Energy Networks and National Grid Electricity Transmission (NGET))
- Eastern Green Link 2: [Home | EGL2](#) (SSEN Transmission and National Grid Electricity Transmission (NGET))

Outstanding Questions

Q: (29/01/25) NESO only send IPs to the BMU – this is a limitation of EDL – was this not meant to be resolved in the EBS1 2010 system refresh parties paid for?

Q: (26/03/2025) PEHE was bid off for most of yesterday and was SO flagged as usual, apart from a few hours in the afternoon with no flag. Is this correct? Fundamentals weren't suggesting it would be needed for energy balancing reasons. It created some uncertainty in the market so would be good to understand further

Q: (19/03/2025) Is the procurement of more services from non BM providers not just going to increase the issue highlighted by Celyn earlier regards publication of incorrect imbalance prices. Do NESO consider this before contracting more services or just say 'it's an Elexon issue' ?

We met with Elexon yesterday to discuss the above question and we are further investigating and reviewing the exchange of data between the 2 companies given some delays in publication. We will come back to OTF ASAP with some further information once we have received analysis from Elexon.

Advance Questions

Slido code #OTF

Q: (27/03/2025) How can I access the exact temperature readings from the weather stations that Elexon uses to get the "Noon Effective Temperature" which enters the load profile regression model to get PPCCs?

I would like to access historical values of these measurements, not just at 12 noon but at other times as well. Many thanks in advance!

A: According to Elexon's Glossary, they calculate the noon effective temperature (NET) using data received directly from the MET office. We would therefore suggest enquiring about this data via Elexon, as they will be able to advise exactly what they have contracted the MET office to provide. Screenshot from Elexon website with further detail:

Glossary Term: Noon Effective Temperature



Acronym: NET

This is a weighted average temperature using the noon temperature from three days.

BSC defined definition

The Noon Effective Temperature is a weighted average temperature using the noon temperature from three days. Today's temperature is given the weight 0.57, then 0.28 on the day before that and 0.15 on the day before that.

This calculation takes into account temperature lag, where electricity demand today is influenced by the temperature over the last few days.

Note: Net is calculated by the Supplier Volume Allocation Agent (SVAA) using data provided by the temperature provider (Met Office).

Advance Questions

Slido code #OTF

Q: (31/03/2025) The recurring Teams invite for the OTF seems to have expired – please can NESO send out the new invites?

A: We have updated our Operational Transparency Forum calendar invitation ahead of the 2025–26 Financial Year.

Please [subscribe](#) to receive OTF communications (make sure to tick Operational Transparency Forum). You will then receive pre-event emails which contain the joining link and calendar invitation for you to download and save in your calendars.

If you have already subscribed to receive OTF communications, you do not need to re-subscribe. Just download the new calendar invite once you receive the email with the relevant links.

Q: (01/04/2025) The Markets Roadmap recently published doesn't mention moving BR to the EAC co-optimized auction. NESO previously stated that this was a priority (the co-optimized auction resulted in significant savings), so it's surprising not to see anything about it. When does NESO expect this will happen?

A: We have been exploring options for achieving this in tandem with the Quick Reserve and Slow Reserve consultations to ensure that we don't consult with terms referencing unapproved services while also ensuring that co-optimisation definitions are correct, without multiple re consultations after each service goes live. At the time of market roadmap publishing, we did not have a clear timescale for this that we had agreed with the regulator, but this remains a priority and we expect to be able to share a plan promptly.

Advance Questions

Slido code #OTF

Q: (25/03/25) PEHE was bid off at £44/MWh for a large part of 25th March. There were a couple of hours in the afternoon where this action was not SO flagged - that seems to us to be erroneous as it was SO flagged all morning and then again in the evening and the system fundamentals in the mid afternoon would suggest that would be a system balancing action throughout. Please can you confirm this and that the actions will be amended retrospectively in order to contain the flag? It had a big impact on market confidence, thanks

Q: (26/03/2025) Are Co-ordinated Third Party Trades (CTPT) published before delivery? If so, please provide a link

Reminder about answering questions at the NESO OTF

Slido code #OTF

- **Questions from unidentified parties will not be answered live.** If you have reasons to remain anonymous to the wider forum, please use the advance question or email options. Details in the appendix to the pack.
- **The OTF is not the place to challenge the actions of individual parties** (other than the NESO), and we will not comment on these challenges. This type of concern can be reported to the Market Monitoring team at: marketreporting@nationalenergyso.com
- **Questions will be answered in the upvoted order whenever possible.** We will take questions from further down the list when: the answer is not ready; we need to take the question away or the topic is outside of the scope of the OTF.
- **Slido will remain open until 12:00**, even when the call closes earlier, to provide the maximum opportunity for you to ask questions.
- **All questions will be recorded and published** All questions asked through Sli.do will be recorded and published, with answers, in the Operational Transparency Forum Q&A on the webpage: <https://www.neso.energy/what-we-do/systems-operations/operational-transparency-forum>
- **Takeaway questions** – these questions will be included in the pack for the next OTF, we may ask you to contact us by email in order to clarify or confirm details for the question.
- **Out of scope questions** will be forwarded to the appropriate NESO expert or team for a direct response. We may ask you to contact us by email to ensure we have the correct contact details for the response. These questions will not be managed through the OTF, and we are unable to forward questions without correct contact details. Information about the OTF purpose and scope can be found in the appendix of this slide pack

slido



Audience Q&A

① Start presenting to display the audience questions on this slide.

Feedback

Slido code #OTF

Please remember to use the feedback poll in Sli.do after the event.

We welcome feedback to understand what we are doing well and how we can improve the event for the future.

If you have any questions after the event, please contact the following email address:
box.nc.customer@nationalenergys.com

Appendix

Purpose and scope of the NESO Operational Transparency Forum

Slido code #OTF

Purpose:

The Operational Transparency Forum runs once a week to provide updated information on and insight into the operational challenges faced by the control room in the recent past (1-2 weeks) and short-term future (1-2 weeks). The OTF will also signpost other NESO events, provide deep dives into focus topics, and allow industry to ask questions.

Scope:

Aligns with purpose, see examples below:

In Scope of OTF

Material presented i.e.: regular content, deep dives, focus topics
NESO operational approach & challenges
NESO published data

Out of Scope of OTF

Data owned and/or published by other parties
e.g.: BMRS is published by Elexon
Processes including consultations operated by other parties e.g.: Elexon, Ofgem, DESNZ
Data owned by other parties
Details of NESO Control Room actions & decision making
Activities & operations of particular market participants
NESO policy & strategic decision making
Formal consultations e.g.: Code Changes, Business Planning, Market development

Managing questions at the NESO Operational Transparency Forum

Slido code #OTF

- OTF participants can ask questions in the following ways:
 - Live via Slido code #OTF
 - In advance (before 12:00 on Monday) at <https://forms.office.com/r/k0AEfKnai3>
 - At any time to box.nc.customer@nationalenergyso.com
- **All questions asked through Sli.do** will be recorded and published, with answers, in the Operational Transparency Forum Q&A on the webpage: [Operational Transparency Forum | NESO](#)
- **Advance questions** will be included, with answers, in the slide pack for the next OTF and published in the OTF Q&A as above.
- **Email questions** which specifically request inclusion in the OTF will be treated as Advance questions, otherwise we will only reply direct to the sender.
- **Takeaway questions** – we may ask you to contact us by email in order to clarify or confirm details for the question.
- **Out of scope questions** will be forwarded to the appropriate NESO expert or team for a direct response. We may ask you to contact us by email to ensure we have the correct contact details for the response. These questions will not be managed through the OTF, and we are unable to forward questions without correct contact details. Information about the OTF purpose and scope can be found in the appendix of this slide pack.

Skip Rates – ‘In Merit’ datasets

We recognise that these datasets aren't as intuitive as they could be – specifically the column headings. Please be reassured that we are looking at ways to improve this – we will update the documentation to include this information and will also discuss the datasets in more detail at the webinar on 27th February.

We will use ‘accepted’ and ‘instructed’ differently in this context, even though they are normally the same.

These datasets show the units that should have been instructed if decisions were solely based on price, rather than all units that were instructed. Therefore this dataset does not match the total accepted volume datasets in Elexon.

In Merit Volume = Accepted Volume + Skipped Volume

In Merit Volume

- This is the recreated in merit stack showing the lowest cost units that were available to meet the requirement, where the requirement is based on the volume of units that were actually instructed
- Therefore this is the volume that should have been accepted if decisions were solely based on price
- The sum of this column is the total instructed volume in the 5 minute period (subject to the relevant exclusions)

Accepted Volume

- This is the volume that was accepted in merit, as a subset of the ‘In Merit Volume’ column – i.e. how much volume was accepted in merit
- The sum of this column will be less than the sum of the ‘In Merit Volume’ column, unless there is no skipped volume
- Note: this column does not list all instructed units

Skipped Volume

- This is the volume that was skipped, as a subset of the ‘In Merit Volume’ column – i.e. of the volume that we should have instructed, how much was skipped

It's possible that the list of units increases, decreases, or stays the same between stages, but the total ‘In Merit Volume’ will always remain the same (or no volume is excluded) or decrease (due to exclusions).