Battery Storage & Skip Rates Webinar

27 February 2025



Presenters and Q&A Panel

Please note, we will be recording today's session.





Mili Gupta Head of Systems, Support & Insight



Cathy Fraser Head of Market Requirements



Hannah Kernthaler Head of Power Systems



Anna Blackwell Battery Storage Technical Manager



Jean Hamman Control Future Design Energy and Strategy Lead



Leon Walker Governance & Insights Manager



Sam Mancey Senior Engineer



Katherine Munns Senior Operational Insight Analyst



Alice Taylor European Industry Frameworks Manager



Will Seward Data Engineer

Welcome and Agenda



	Agenda Item	Presenter
13:05 – 13:10	2024 recap & 2025 roadmap	Anna Blackwell
13:10 - 13:40	Methodology & data interpretation	Sam Mancey Katherine Munns
13:40-13:50	Root Cause Analysis	Will Seward
13:50 - 14:00	30 min rule & GC0166	Cathy Fraser
14:00 - 14:10	P462 Update	Alice Taylor
14:10 - 14:15	Upcoming engagements	Cathy Fraser
14:15 - 14:30	Q&A	Bea Marques



To interact throughout the event, go to Sli.do code #NESO

Submit questions to be answered in a live Q&A

Please note the following:

- Ask your questions as early as possible to give our experts time to respond
- Please provide your name or organisation as we won't answer live questions from unidentified parties
- Questions will be answered in the upvoted order whenever possible
- All questions will be recorded and published, and any questions not answered on the day will be included, with answers, in the slide pack in our next webinar

Polls will also be provided throughout the event - please give us your thoughts!

The Sli.do link will remain open until **5.30pm Feb 27th** for questions and poll responses



2024 Recap & 2025 Roadmap Anna Blackwell



2024 Recap: What we've delivered

Battery Dispatch

- Release of Balancing Platform dispatch algorithm and dispatch efficiency constraint methodology
- Additional battery dispatch engineers provided to the Control Room
- Workflow automation for the OBP
- Implementation of VERGIL control room improvements to address constraint despatch
- Quick reserve penalties implemented
- Ofgem collaboration document exploring exclusion rationale and roadmap to improvement

LCP Methodology

- Industry Webinar held
- Full report published LCP Delta definition and methodology

New Transparency Tools

• All BM Skip rate and Post System Actions skip rate monitor live in the ENCC

Customer Engagement

- CEO Roundtable
- Customer visits to Control Room and NESO visits to Customer sites

Battery Storage Forum

• First Battery Storage forum hosted with the industry



External Dataset Release

3 datasets published

2025: What we're doing



Regular forums and webinars, supplemented by monthly drop-in sessions

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Methodology and data interpretation

Sam Mancey and Katherine Munns





Introduction to the LCP Delta methodology

The **LCPDelta** methodology focuses on measuring and improving the efficiency of operational decisions in the energy balancing process.



Skip rates | National Energy System Operator

Offer Skip Rate (All Technologies, Phase 2 approach)



Bid Skip Rate (All Technologies , Phase 2 approach)





Skip rate methodology



*All blocks represent 1 MWh





Low cost

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NESO exclusions



Exclusions are made because not all units can be dispatched in real time.





Public Sli.do #NESO

Exclusions example



Skip rate definitions



All Balancing Mechanism (BM) Skip Rate

A measure of skips, taking into consideration all BM actions we could have taken over the relevant period.

Post System Actions Skip Rate

A more targeted measure of skips; this measure disregards actions taken for system reasons.



Skip rate definitions



How to interpret the datasets

We published 4 datasets on the data portal <u>here</u> at Day + 1.

Skip Rates

A new dataset to calculate Skip Rates using the methodology developed with LCP Delta. For more information on this methodology see the <u>Skip Rate section</u> of the website. This dataset provides the skip rates per 30mins of each day following each stage of exclusions as set out in the methodology on the website.

Note: we are aware of an issue with the 'In Merit All BM' dataset not updating. As an interim solution we have created separate files for each month but we are working on an enduring solution.

Balancing costs

4 Data Files

Name	Format	Last Changed 个
Skip Rate - In Merit All Balancing Mechanism	CSV	2 hours ago
Skip Rate - In Merit Post System Action	CSV	1 day ago
Skip Rate - Exclusion Reasons	CSV	1 day ago
Skip Rate - Summary	CSV	1 day ago



Summary of the datasets



This dataset shows skip rate data aggregated to 30-minute Settlement Periods for all stages of the methodology



Note: Skipped volume is the same in All BM and PSA because the only difference is the denominator



'In Merit' dataset overview

- There are two 'In Merit' datasets which contain the same column headings one for All BM and one for Post System Action.
- These datasets show the units that were in merit and therefore should have been instructed if decisions were solely based on price.
- The difference between these datasets is that the All BM includes the system actions, which are assumed to have been taken in merit.

Date	BM Unit	Fuel	Bid/Offer	Stage	Available Volume MWh	Average Price £/MWh	Pair Id	Accepted Volume MWh	In Merit Volume MWh	Skipped Volume MWh
2025-02- 01T00:00:00	COSO-1	CCGT	Offer	0	62.76	130.0	1	0.0	18.37	18.37
2025-02- 01T00:00:00	CONTB-1	BATTERY	Bid	0	1.42	95.41	-1	1.42	1.42	0.0
2025-02- 01T00:00:00	MOYEW-1	WIND	Offer	0	4.33	95.0	1	Note: 1	this datase	t does not
2025-02- 01T00:00:00	PINFB-1	BATTERY	Bid	0	0.83	94.0	-1	shov	v all units th	nat were

It's possible that the list of units increases, decreases, or stays the same between stages, but the total 'In Merit Volume' will either remain the same (if no volume is excluded) or decrease (due to exclusions). Note: this dataset does not show all units that were instructed so the volume does not match the total accepted volume datasets in Elexon.



'In Merit' column guide



'In Merit' example



In Merit Volume (13.57 MWh) = Accepted Volume (9.58 MWh) + Skipped Volume (3.99 MWh)

Sum of In Merit Volume is the imbalance requirement -> filter by time, stage, bid/offer



'In Merit' edge cases



In Merit Volume = Accepted Volume + Skipped Volume

Except when...

1) The marginal unit is accepted and multiple units are available at same marginal price

At the marginal price, the remaining imbalance volume is divided proportionally based on available volume, between all units, capped at available volume at that price

For marginal units that have been accepted, their accepted volume can be greater than their in merit volume

2) The methodology deems feasible volume < accepted volume

The methodology can calculate the feasible volume as less than the accepted volume because of how the exclusions are applied

For these units, the accepted volume can be greater than the in merit volume



Exclusion reasons

This dataset shows the BMUs that have been excluded from one of the stages of the methodology with a reason for the exclusion

Whether volume was excluded from the

'Feasible Merit' stack or 'Accepted' stack

Date 个 Average Price £/MWh **BM Unit** Fuel Bid/Offer Excluded from Accepted or Feasible Merit Stack Exclusion Stage Pair Id **Excluded Volume MWh Exclusion Reason** 2025-02-2 -1 70.74 1.42 CLAYB-2 BATTERY Bid Feasible Merit Behind constraint 01T23:55:00 2025-02-2 -1 -4.75 7.83 WIND Bid Behind constraint VKNGW-1 Accepted 01T23:55:00 2025-02-0.58 AG-HLIM02 BATTERY Bid **Feasible Merit** 2 -1 70.04 Behind constraint 01T23:55:00 2025-02-EECL-1 CCGT Offer Accepted 2 1 129.0 15.48 Behind constraint 01T23:55:00 Stage the BMU was

NESO National Energy System Operator

Excluded volume &

reason for exclusion

Exclusion reasons

Stage	Exclusion Reason
1	Wind offer
2	Behind constraint
2	Unit ramping between 0 and SEL or 0 and SIL
2	Inaccessible very long notice unit
2	Invalid physical/dynamic parameter
3	System-tagged
4	Unwind
5	Inaccessible long notice unit
5	Long notice 0 to SIL or 0 to SEL
5	Inaccessible pumped storage through zero
5	Cannot take a long notice unit offline

If a unit if excluded for multiple reasons in the same stage, then all reasons will be listed.

5 -1	88.0	1.25	Long notice 0 to SIL or 0 to SEL, Cannot take a long notice unit offline
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If a unit has been excluded, it will not be checked against the exclusion reasons in subsequent stages.

Exception: if unit is behind a constraint but there is enough headroom for some volume, and the unit is excluded at a subsequent stage, both reasons will be given:

5	-1	73.39	0.58	Behind constraint, Cannot take a long notice unit offline

Let us know: Is this exception helpful or confusing? Contact us at <u>Box.SkipRates@nationalenergyso.com</u>

How to use these datasets

Example: 08/02/2025 03:40-03:45 Offers

Stage 0 Total In Merit Volume: 70.9 MWh

bm_unit	fuel	pair_id	average_price_per_MWh	in_merit_volume_MWh
BROCW-1	WIND	1	10.5	2.47
BNWKW-1	WIND	1	95	0.93
LCLTW-1	WIND	1	95	5.5
MOYEW-1	WIND	1	95	4.5
TULWW-1	WIND	1	95	1.25
TULWW-2	WIND	1	95	1.87
TRLGW-1	WIND	1	100	1.08
AG-JUKP01	BATTERY	1	120	0.17
EECL-1	CCGT	1	128.9	35
RHEI-4		1	128.9	0.92
RHEI-4		2	128.9	1.75
RHEI-4		3	128.9	1.42
MRWD-1	CCGT	1	129	14.04

Stage 1 Total In Merit Volume: 70.9 MWh

bm_unit	fuel	pair_id	average_price_per_MWh	in_merit_volume_MWh
AG-JUKP01	BATTERY	1	120	0.17
EECL-1	CCGT	1	128.9	35
RHEI-4		1	128.9	0.92
RHEI-4		2	128.9	1.75
RHEI-4		3	128.9	1.42
MRWD-1	CCGT	1	129	15
NTRVB-1	BATTERY	1	129.9	1.38
SHOS-1	CCGT	1	129.9	7.6
SHOS-1	CCGT	2	129.9	7.66

In Merit All BM

Exclusio	on	Reas	on
Excl	<u>usi</u>	ons	

bm_unit 💌	fuel 💌	excluded_fror 🔻	pair_id 💌	exclusion_reason
BNWKW-1	WIND	Feasible Merit	1	Wind offer
BROCW-1	WIND	Feasible Merit	1	Wind offer
LCLTW-1	WIND	Feasible Merit	1	Wind offer
MOYEW-1	WIND	Feasible Merit	1	Wind offer
TRLGW-1	WIND	Feasible Merit	1	Wind offer
TULWW-1	WIND	Feasible Merit	1	Wind offer
TULWW-2	WIND	Feasible Merit	1	Wind offer

Example: 08/02/2025 03:40-03:45 Offers

Stage 1 Total In Merit Volume: 70.9 MWh

bm_unit	fuel	pair_id	average_price_per_MWh	in_merit_volume_MWh			
AG-JUKP01	BATTERY	1	120	0.17			
EECL-1	CCGT	1	128.9	35			
RHEI-4		1	128.9	0.92			
RHEI-4		2	128.9	1.75			
RHEI-4		3	128.9	1.42			
MRWD-1	CCGT	1	129	15			
NTRVB-1	BATTERY	1	129.9	1.38			
SHOS-1	CCGT	1	129.9	7.6			
SHOS-1	CCGT	2	129.9	7.66			

Marginal unit

Stage 2 Total In Merit Volume: 70.9 MWh

bm_unit	fuel	pair_id	average_price_per_MWh	in_merit_volume_MWh
AG-JUKP01	BATTERY	1	120	0.17
EECL-1	CCGT	1	128.9	35
RHEI-4		1	128.9	0.92
RHEI-4		2	128.9	1.75
RHEI-4		3	128.9	1.42
MRWD-1	CCGT	1	129	15
NTRVB-1	BATTERY	1	129.9	3.14
SHOS-1	CCGT	1	129.9	2.78
SHOS-1	CCGT	2	129.9	2.8
ARNKB-1	BATTERY	1	129.94	3.83
COVNB-1	BATTERY	1	140	4.08

	bm_unit 💌	fuel	excluded_fror v pair_i	d 💌 exclusion_reason 🛛 💌
Exclusion Reasons	ARNKB-1	BATTERY	Accepted	1 Behind constraint
	COVNB-1	BATTERY	Accepted	1 Behind constraint
	NTRVB-1	BATTERY	Accepted	1 Behind constraint

Example: 08/02/2025 03:40-03:45 Offers

Stage 2 Total In Merit Volume: 70.9 MWh

hm unit	fuol	nair id averag	e price per MWh	in merit volume MWh		bm_unit	fuel	pair_id	average_price_per_MWh	in_merit_volume_MWh
	BATTERV		<u>e_price_per_nwn</u> 120	17 n_mem_votume_rivin		AG-JUKP01	BATTERY	·	120	0.17
	DATIENT	1	120	0.17		EECL-1	CCGT	1	128.9	35
EECL-1	CCGI	T	128.9	30		RHEI-4		1	128.9	0.92
RHEI-4		1	128.9	0.92		RHEI-4		2	128.9	1.75
RHEI-4		2	128.9	1.75	Marging	RHEI-4		3	128.9	1.42
RHEI-4		3	128.9	1.42		MRWD-1	CCGT	1	129	0.62
MRWD-1	CCGT	1	129	15	unit	NTRVB-1	BATTERY	′ 1	129.9	3.11
NTRVB-1	BATTERY	1	129.9	3.14		ARNKB-1	BATTERY	1	129.94	3.83
SHOS-1	CCGT	1	129.9	2.78		COVNB-1	BATTERY	′ 1	140	4.08
SHOS-1	CCGT	2	129.9	2.8		SEAB-2	CCGT	1	194	20
ARNKB-1	BATTERY	1	129.94	3.83						
COVNB-1	BATTERY	1	140	4.08						

	bm_unit 💌	fuel 🔽	excluded_fror 🔻 pair_id	<pre>vexclusion_reason</pre>
Exclusion Reasons	EECL-1	CCGT	Accepted	1 System-tagged
	SEAB-2	CCGT	Accepted	1 System-tagged

Stage 3 Total In Merit Volume: 70.9 MWh

Example: 08/02/2025 03:40-03:45 Offers

bm_unit	fuel	pair_id	average_price_per_MWh	in_merit_volume_MWh
AG-JUKP01	BATTERY	1	120	0.17
EECL-1	CCGT	1	128.9	35
RHEI-4		1	128.9	0.92
RHEI-4		2	128.9	1.75
RHEI-4		3	128.9	1.42
MRWD-1	CCGT	1	129	0.62
NTRVB-1	BATTERY	1	129.9	3.11
ARNKB-1	BATTERY	1	129.94	3.83
COVNB-1	BATTERY	1	140	4.08
SEAB-2	CCGT	1	194	20

Stage 3 Total In Merit Volume: 70.9 MWh

Stage 4 Total In Merit Volume: 70.9 MWh

bm_unit	fuel	pair_id	average_price_per_MWh	in_merit_volume_MWh
AG-JUKP01	BATTERY	1	120	0.17
EECL-1	CCGT	1	128.9	35
RHEI-4		1	128.9	0.92
RHEI-4		2	128.9	1.75
RHEI-4		3	128.9	1.42
MRWD-1	CCGT	1	129	0.62
NTRVB-1	BATTERY	1	129.9	3.11
ARNKB-1	BATTERY	1	129.94	3.83
COVNB-1	BATTERY	1	140	4.08
SEAB-2	CCGT	1	194	20

No exclusions

Example: 08/02/2025 03:40-03:45 Offers

Stage 4 Total In Merit Volume: 70.9 MWh

-		-	· · · · · · · · · · · · · · · · · · ·	1
bm_unit	fuel	pair_id	average_price_per_MWh	in_merit_volume_MWh
AG-JUKP01	BATTERY	1	120	0.17
EECL-1	CCGT	1	128.9	35
RHEI-4		1	128.9	0.92
RHEI-4		2	128.9	1.75
RHEI-4		3	128.9	1.42
MRWD-1	CCGT	1	129	0.62
NTRVB-1	BATTERY	1	129.9	3.11
ARNKB-1	BATTERY	1	129.94	3.83
COVNB-1	BATTERY	1	140	4.08
SEAB-2	CCGT	1	194	20

Stage 5 Total In Merit Volume: 70.9 MWh

bm_unit	fuel	pair_id	average_price_per_MWh	in_merit_volume_MWh		
AG-JUKP01	BATTERY	1	120	0.17		
EECL-1	CCGT	1	128.9	35	Mar	ginal
MRWD-1	CCGT	1	129	4.7	u	nit
NTRVB-1	BATTERY	1	129.9	3.11	-	
ARNKB-1	BATTERY	1	129.94	3.83	Sy	stem
COVNB-1	BATTERY	1	140	4.08	Tta	aaed
SEAB-2	CCGT	1	194	20		JJJ-

	bm_unit	✓ fuel	<pre>• excluded_fror •</pre>	pair_id 💌 exclusion_reason	
	RHEI-4		Feasible Merit	3 Inaccessible long notice unit	
•	RHEI-4		Feasible Merit	2 Inaccessible long notice unit	
3	RHEI-4		Feasible Merit	1 Inaccessible long notice unit	
	SHOS-1	CCGT	Feasible Merit	1 Inaccessible long notice unit	
	SHOS-1	CCGT	Feasible Merit	2 Inaccessible long notice unit	

Exclusion Reasons

What's next?

Methodology

Potential changes

- 1. Exclude units scheduled for **ancillary services**.
- 2. Treatment of **pumped storage units** when in either spin gen or spin pump mode.
- 3. Consider the **time required** for a unit to deliver an offer or bid acceptance.
- 4. Consider **unit ramp rates** to ensure feasible volume delivery.
- 5. Consider **State of Charge** this requires a review of GC0166

Datasets

Necessary data change:

• All datasets - Retrospectively rerun all data to remove nondeterminism

Note: There will be small changes to data, particularly for marginal units where multiple units could have met the requirement for the same price but this change shouldn't affect overall skip rate percentages

Potential changes to improve transparency:

In Merit datasets

- 1. Reorder columns to make more intuitive
- 2. Remove 'average' from price column heading
- 3. Consider only publishing stage 5 in merit data as the exclusions dataset provides similar information in smaller file
- Exclusion dataset Remove exception listed on exclusion slide

Would you value these potential changes?

Please contact us at <u>Box.SkipRates@nationalenergyso.com</u> or attend a drop-in session

Answer the poll on Sli.do now To what extent has this presentation improved your understanding of the skip rate methodology and data interpretation?



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Root Cause Analysis

Will Seward



Introduction to Root Cause Analysis

Our aim is to identify root causes of skips, propose changes and build data driven evidence to support changes.

- We are recording root causes and factors influencing skip rates and relating them to the energy team's process in the control room.
- We currently measure the output skip rate, but we intend to evaluate how different factors in the energy team's process impact skip rates.





Approach to Root Cause Analysis

Real-time analysis

Aim: identify when skips are happening in real-time, identify inefficiency when skips happen and find the root cause.

Process:

- Possible skips investigated in real time, on operational system, with Energy Team.
- Record root causes for all technologies are stored in a tracker.

Post-event analysis

Aim: use a data driven approach to evaluate contributing factors and propose high value changes.

Process:

- Identify and prioritise factorings contributing to higher skip rates.
- Collect relevant data and apply data analysis techniques such as correlation and regression analysis.
- Recording skip rate trends, contributing factors and the impact of changes & updates.

Please continue to send queries to: box.SkipRates@nationalenergyso.com



30-minute rule & GC0166

Cathy Fraser





30-minute rule & GC0166

Background:

- NESO cannot be sure of the available energy from a limited duration asset/ battery and so puts time limits on Bid Offer Acceptance (BOA) instructions to minimise the chance of instructions being rejected due to a lack of energy
- As of 25th March 2024, NESO provided guidance for storage providers to submit data that shows their ability to sustain Bid Offer Acceptance (BOA) instruction lengths for up to 30 minutes (this was previously 15 minutes)

30-minute rule operation:

- Once a BOA is received, the Maximum Import Level (MIL) and Maximum Export Level (MEL) of the unit is redeclared if required to reflect the updated energy availability.
- Once MEL/MIL is redeclared, NESO systems will continue to optimise battery volume in cost and issue further BOAs, meaning that in total **a provider will be instructed for longer than 30 minutes, just over several instructions.**

What is GC0166?

The GC0166 is a code change that will enable NESO to better understand and optimise dispatch of storage
providers allowing for instructions to use the full Power and Energy Volume capability with no time limits on a BOA



Next Steps for GC0166

What is the latest update?

- NESO have now completed Workgroup Consultation on GC0166
- Next workgroup meeting 4 March 2025
- NESO will develop detailed next steps and dates with participants for storage assets to transition away from 30-minute rule once GC1066 is ready for Ofgem decision; this will require collaborative support

For any questions specific to GC0166...

Please email

• <u>Box.Battery-Storage-Strategy@nationalenergyso.com</u> or box.SkipRates@nationalenergyso.com

For more detailed information, see our Industry Information site:

<u>GC0166: Introducing new Balancing Mechanism Parameters for Limited Duration</u> <u>Assets | National Energy System Operator</u>





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P462 Alice Taylor



P462



P462 is a BSC modification that seeks to resolve an identified structural issue with the interaction between the Balancing Mechanism (BM) and support mechanism arrangements

This aims to align bid price merit order with consumer cost of the transaction and promote competition to reduce balancing costs

What is the latest update?

- It is an ongoing <u>BSC modification</u> in the Assessment Stage. As part of the Assessment Stage, an
 independent Cost Benefit Analysis (CBA) is taking place, which has been approved by the BSC Panel with
 the contract having been awarded to the preferred supplier this month.
- We are aware of the concerns that have been raised around the possible impact of P462 on flexible assets and these wider impacts have been included within the scope of the CBA.

How to get involved?

- We encourage participation in the BSC Workgroups to ensure your views are heard and to bring forward alternative solutions. You can sign up <u>here</u>.
- We are also happy to have bi-lateral conversations if this is preferable.
- Please feel free to reach out to <u>alice.taylor@nationalenergyso.com</u>



Upcoming engagements Cathy Fraser





2025 Engagement





Drop-in sessions will run on all months with no other events

How to register

- Forum: Invites to be sent out. If you'd like to be included, please email us at:
 - <u>Box.Battery-Storage-Strategy@nationalenergyso.com</u> or box.SkipRates@nationalenergyso.com
- Webinars: Will be advertised on OTF and on our webpages: <u>Battery storage | National Energy System Operator & Skip rates |</u> <u>National Energy System Operator</u>

Drop-In Sessions:

- Please register <u>here</u> for 12.03.25 Methodology, data and tools session
- Up coming drop-in sessions will be advertised on OTF with registration links

Answer the poll on Sli.do now Which topics would you like us to cover during the drop-in sessions?



We want to hear from you!



Sli.do will remain open until 5.30pm 27th Feb.

Please continue to submit questions and respond to the polls until then.

You can contact us anytime...

...about queries, events, and 1-2-1 engagements at:

• Box.SkipRates@nationalenergyso.com

Stay up to date on our webpage

Battery storage | National Energy System Operator or Skip rates | National Energy System Operator (Q&A is published with slide packs)





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Q&A Sli.do code #NESO







(i) Start presenting to display the audience questions on this slide.

Useful Resources

- LCP Methodology
 - <u>Webinar</u> (7 November)
 - <u>Webinar</u> (19 December)
- Battery Storage Forum(4 December)
 - <u>Slidepack</u>
 - <u>Recording</u>
- <u>Skip Rate Webpage</u>
- <u>Battery Storage Webpage</u>
- GC0166 webpage
- <u>P462 webpage</u>



Introduction to the LCP methodology





Public Sli.do #NESO

NESO implementation: LCP method & constraints



Neglecting constraints is a key limitation of the LCP method.

- Units behind active constraints
 cannot be dispatched.
- These should be excluded as they are not available to the control room.

NESO's method includes constraints as an exclusion.



Calculating 'In Merit' volume

In Merit Volume = Accepted Volume + Skipped Volume

- 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
- 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)

- 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

 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



Public

Timeline

Objectives Review Worked Example



Workgroups	
GC0166 Workgroup 1	01/02/2024
GC0166 Workgroup 2	07/03/2024
GC0166 Workgroup 3	08/04/2024
GC0166 Workgroup 4	15/05/2024
GC0166 Workgroup 5	10/06/2024
GC0166 Workgroup 6	21/06/2024
GC0166 Workgroup 7	18/07/2024
GC0166 Workgroup 8	20/08/2024
GC0166 Workgroup 9	22/10/2024
GC0166 Workgroup 10	12/11/2024
GC0166 Workgroup Consultation	18/11/2024 - 06/12/2024
GC0166 Workgroup 11	20/01/2025
GC0166 Workgroup 12	04/02/2025
GC0166 Workgroup 13	04/03/2025
GC0166 Workgroup 14	01/04/2025
GC0166 Workgroup Report to Panel	23/04/2025
Post Workgroups	
GC0166 Code Administrator Consultation	06/05/2025 - 06/06/2025
GC0166 Draft Final Modification Report to	
Panel	18/06/2025
GC0166 Final Modification to Ofgem	08/07/2025
GC0166 Implementation Date	10 Business Days post Authority Decision

