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Applicable Balancing Services Volume Data Methodology Statement

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Version Control

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04.10.04	2.0	Revisions to incorporate changes as a result of CAP071: the development of Maximum Generation Service
01.01.05	2.1	Revisions to incorporate changes relating to BETTA
15.7.05	2.2	Revisions to incorporate changes as a result of CAP076: Treatment of System to Generating Intertripping Schemes
01.04.07	2.3	Revisions to incorporate Short Term Operating Reserve (STOR)
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01.04.13	4.0	Revision following annual review
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15.11. 17	7.1	Proposed changes as a result of C16 ABSVD workgroup discussions
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01.04.23	15	Revision following annual review
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1.11.2026	22	Update to DFS volumes and addition of Quick and Slow Reserve Services (through DNO voltage control)

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Table of Contents

1 INTRODUCTION 6
1.1 Foreword 6
1.2 Purpose of Document 8
2. APPLICABLE BALANCING SERVICES VOLUME DATA 'ABSVD' FOR BM PARTICIPANTS 9
2.1 Definition of BM Unit 9
2.2 Basis of Calculation for BM ABSVD 9
2.3 ABSVD Provision for Applicable Balancing Services from BM Providers 12
2.4 Re-submission of ABSVD for Applicable Balancing Services from BM Providers 12
2.5 Disputes for BM ABSVD 13
3 APPLICABLE BALANCING SERVICES VOLUME DATA (ABSVD) FOR NON-BM PROVIDERS 15
3.1 Definition of Non- BM Provider 15
3.2 Basis of calculation for Non-BM providers 15
3.3 Registration of Metering System Identifier (MSID) pairs 19
3.4 ABSVD provision for Applicable Balancing Services for Non-BM Providers 19
3.5 Re-submission of ABSVD for Applicable Balancing Services from Non-BM Providers 20
3.6 Disputes for Non-BM ABSVD 21
3.6.1 Disputes relating to Non-BM Provider volumes passed to Elexon 21
3.6.2 Disputes relating to ABSVD volumes applied to Supplier Energy Accounts 22

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1 INTRODUCTION

1.1 Foreword

This Statement has been developed by the National Energy System Operator (NESO) in consultation with industry and approved by the Authority in accordance with our Electricity System Operator (ESO) Licence. The Statement may only be modified in accordance with the processes set out in Standard Condition C9 of the NESO's ESO Licence.

In this Statement, all references to NESO shall mean National Energy System Operator for Great Britain (GB), being the independent system planner and operator for GB's energy system, for the purposes of the Balancing and Settlement Code (BSC).

The Statement makes reference to a number of definitions contained in the Grid Code (GC), the Connection and Use of System Code (CUSC) and the BSC. In the event that any of the relevant provisions in GC, CUSC or BSC are amended it may become necessary for us to modify the Statement in order that it remains consistent with GC, CUSC or BSC.

In any event, where our statutory obligations or the provisions of GC, CUSC or BSC are considered inconsistent with any part of this Statement, then the relevant statutory obligation and/or GC, CUSC or BSC provision will take precedence.

Unless defined in this Statement, terms used herein shall have the same meanings given to them in the NESO ESO Licence, GC, CUSC and/or BSC as the case may be.

Where we buy, sell or acquire a Balancing Service of a kind or under a mechanism which potentially affects a Party's imbalance position, and it is not covered by this Statement then we shall promptly seek

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to establish a revised Statement covering such Balancing Services and/or mechanisms in accordance with the relevant provisions of Standard Condition C9 of the NESO ESO Licence.

The latest version together with the previous versions of this document are available electronically from the NESO Website:

C9 statements and consultations | National Energy System Operator

Alternatively, a copy may be requested from the following address:

Director of Markets

National Energy System Operator

Faraday House

Warwick Technology Park

Gallows Hill

Warwick CV34 6DA

Email address: customerservice@neso.energy

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1.2 Purpose of Document

This document sets out the Applicable Balancing Services Volume Data Methodology that the National Energy System Operator Limited (NESO) is required to establish in accordance with Standard Condition C9 of the NESO ESO License.

The purpose of this Statement is to outline the process NESO takes to determine and provide the volumes of Applicable Balancing Services which are to be taken into account in determining Applicable Balancing Services Volume Data under the BSC.

Balancing Services are defined in the NESO ESO Licence and described in more detail in the Procurement Guidelines, which the National Energy System Operator is required to establish in accordance with Standard Condition C9 of the NESO ESO Licence.

In general, Balancing Services, deemed to be applicable will be those services required by NESO for efficient and economic operation of the transmission system, that result in the service provider being exposed to imbalance charges whilst assisting in system balancing.

For the avoidance of doubt:

1. NESO is responsible for aggregating Applicable Balancing Services Volumes per Settlement Period (SP) and submitting those volumes to Elexon.

2. Elexon is responsible in accordance with BSC section T, part 4 of using Quantitative Ancillary Services (QAS) data (along with Bid-Offer acceptance (BOA), Transmission Loss Multipliers, Contracted Positions) to determine Balancing Mechanism (BM) imbalance volumes, and imbalance settlement.

3. Elexon is responsible in accordance with BSC, Annex S-2 to correct Balancing Responsible Party (BRP) imbalance positions.

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2. APPLICABLE BALANCING SERVICES VOLUME DATA 'ABSVD' FOR BM PARTICIPANTS

2.1 Definition of BM Unit

BM Units are used as units of trade within the BM. Any energy produced or consumed by the contents of a BM Unit is accredited to that BM Unit.

BM Units can be classed as either a Primary BM Unit or a Secondary BM Unit. The definition of Primary BM Unit and Secondary BM Unit shall have the same meaning given to them by Elexon in the documents related to the BM Units (e.g. BM-Units-v16.0.docx).

The BM Units are visible in Balancing Mechanism data by BMU view | Insights Solution

2.2 Basis of Calculation for BM ABSVD

The ABSVD is specified in Section Q, Paragraph 6.4 of the Balancing and Settlement Code and consists of QASij, being the Applicable Balancing Services Volume Data in respect of BM Unit i, in Settlement Period j, determined in accordance with this Statement.

The following Applicable Balancing Services will be included in the calculation of the ABSVD:

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Table 1 BM ABSVD Volumes Supplied to Elexon

Balancing Service	Data Volume Source
Frequency Response Services (Dynamic Containment (DC) High/Low, Dynamic Moderation (DM) High/Low and Dynamic Regulation (DR) High/Low)	Response Energy Volumes computed in accordance with clause 4.1.3.9A of the CUSC – SECTION 4.
Commercial Intertrips	Volume Computed in accordance with the Commercial Services Agreement
System to Generator Operational Intertripping	Export Restricted Volume computed from the time of the trip to end of the Balancing Mechanism Window
Maximum Generation Service	Service Volume computed in accordance with clause 4.2.5 of the CUSC - SECTION 4.
Demand Flexibility Service (DFS)*	DFS Settlement Volume (See Note 4)
Quick and Slow Reserve services (through DNO voltage control) (see Note 5)	A proportion equal to Half-Hourly settled meter distribution (see Note 5) of Delivered Volume restricted to Instructed Volume (see Note 1)

*DFS - Non-Balancing Mechanism (Non-BM) Half Hourly (HH) settled Domestic consumers whose Metering System Identifier (MSID) is

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signed up to provide DFS with the supplier that has an ELEXON BM Unit Identifier (ID).

With respect to DFS BM ABSVD volumes submitted to Elexon, the reporting process covers aggregated DFS Settlement Volumes for Half-Hourly (HH) settled domestic consumers participating in the DFS Non-Balancing Mechanism (Non-BM). This applies where the consumer's Metering System Identifier (MSID) is registered for DFS with a supplier that holds an ELEXON BM Unit Identifier (ID), and dispatch is undertaken by NESO outside the Balancing Mechanism.

For the avoidance of doubt, NESO submits BOA instructions to Elexon through a process that is separate from the ABSVD process

Table 2 – BOA Instruction Data Supplied to Elexon

Balancing Service	**Data Volume Source**
Short Term Operating Reserve (STOR)	BOA Instruction
Negative Balancing Reserve (NBR)	BOA Instruction
Positive Balancing Reserve (PBR)	BOA Instruction
Negative Quick Reserve (NQR)	BOA Instruction
Positive Quick Reserve (PQR)	BOA Instruction
Negative Slow Reserve (NSR)	BOA Instruction
Positive Slow Reserve (PSR)	BOA Instruction

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2.3 ABSVD Provision for Applicable Balancing Services from BM Providers

ABSVD will be submitted in accordance with BSC, Section Q, Paragraph 6.4. This entails the submission of ABSVD within two Business Days following the relevant Settlement Day.

The ABSVD data is sent to Elexon to be used in their imbalance calculation process as specified in Section T, Paragraph 4.3 of the BSC and is displayed under Balancing Services Volume on Balancing Mechanism data by BMU view | Insights Solution .

2.4 Re-submission of ABSVD for Applicable Balancing Services from BM Providers

In the event that an error or incompleteness is identified in the submitted ABSVD, the data will be investigated, re-calculated and re-submitted to Elexon, as soon as reasonably practicable, once the corrected data is available.

Any queries related to the calculation and submission of ABSVD should be addressed to settlement.queries@neso.energy.

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2.5 Disputes for BM ABSVD

A dispute arises where the Lead Party of the relevant BM Unit disagrees with the value of QASij notified by NESO. Where such a dispute arises, a representative of NESO and each BSC Party concerned who has authority to resolve the dispute shall meet (either in person or virtually) within 10 Business Days of a request by either party (or within such longer period as may be agreed, acting reasonably) and seek to resolve it. If the parties to the dispute are unable to resolve it within 10 Business Days of the meeting (or within such longer period as they may agree within that initial 10 Business Day period, both parties acting reasonably as to the length of the period), then the parties' obligations under this paragraph to undertake such discussions shall no longer apply in relation to that dispute. Either party may then refer the dispute to arbitration pursuant to the rules of the London Court of Arbitration in force from time to time.

The laws of England shall be the proper law of reference to arbitration under this paragraph and in particular (but not so as to derogate from the generality of the foregoing) the provisions of the Arbitration Act 1996 shall apply to any such arbitration wherever it or any part of it shall be conducted.

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Any arbitrator or panel of arbitrators appointed under this Paragraph 3 shall determine such issues as are referred to him or them consistently with any determination by the Authority, whether or not relating to the same or different facts.

For the avoidance of doubt, a party may only raise a dispute in respect of QASij where they are Lead Party of the relevant BM Unit.

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3 APPLICABLE BALANCING SERVICES VOLUME DATA (ABSVD) FOR NON-BM PROVIDERS

3.1 Definition of Non- BM Provider

Non-BM Provider refers to a provider that is dispatched by NESO outside the Balancing Mechanism (BM). If a company supplies a balancing service to NESO but its units are not registered as BMUs, these are considered as Non-BM units for the purposes of ABSVD calculation and submission to Elexon.

3.2 Basis of calculation for Non-BM providers

The following Applicable Balancing Services will be included in the calculation of the ABSVD:

Table 3 - Non-BM ABSVD Volumes Supplied to Elexon

Unit Type	Balancing Service	Data Volume Source
Non-BM	Short Term Operating Reserve (STOR)	Delivered Volume restricted to Instructed Volume (see Note 1)
Non-BM	Fast Reserve (FR)	Delivered Volume restricted to Instructed Volume (see Note 1)
Non-BM	Negative Quick Reserve (NQR)	Delivered Volume restricted to Instructed Volume (see Note 1)
Non-BM	Positive Quick Reserve (PQR)	Delivered Volume restricted to Instructed Volume (see Note 1)
Non-BM	Negative Slow Reserve (NSR)	Delivered Volume restricted to Instructed Volume (see Note 1)

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Non-BM	Positive Slow Reserve (PSR)	Delivered Volume restricted to Instructed Volume (see Note 1)
Non-BM	MW Dispatch (MWD)	Delivered Volume restricted to Instructed Volume (see Note 1)
Non-BM Assets HH settled*	Local Constraint Market (LCM)	Delivered Volume restricted to Instructed Volume (see Note 1)
Non-BM Industrial and Commercial consumers (except for Industrial and Commercial Consumers in Profile Class 3 and 4) Renewable Assets	Demand Flexibility Service (DFS)	DFS Settlement Volume
Non-BM	Frequency Response Services (Dynamic Containment (DC) High/Low, Dynamic Moderation (DM) High/Low and Dynamic Regulation (DR) High/Low)	Expected Volume

Note 1: If additional energy is shown as a positive Value then Min(Delivered MWh, Instructed MWh), if a Reduction in energy to the system is shown as a negative value then Max(Delivered Volume MWh, Instructed MWh)

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Note 2: Providing the necessary data to meet the NESO ABSVD process requirements, will be part of the contract terms for each Applicable Balancing Service.

Note 3: NBM Providers can see the monthly volumes submitted for ABSVD in the utilisation files for the appropriate service in the Ancillary Services Backing Reports Guide in the following location: Settlements | National Energy System Operator

Note 4: ABSVD volumes calculated as follows:

- For Frequency response (DC/DM/DR), ABSVD expected volumes are calculated using an initial 1MW calculation to determine difference between Actual and Target Frequency. This is then multiplied by the tendered MW value to give the expected volume.
- For DFS the volumes reported are the actual DFS Settlement volumes.
- For all other services in the table, volumes reported are actual metered but capped by instruction. Therefore, always reporting the minimum of expected and delivered.

Note 5: For Balancing service delivery volume from DNOs participating in Balancing Services through voltage control (e.g. Customer Load Active System Services), NESO will apportion the volume to Supplier BMUs within the same DNO area in proportion to their share of half-hourly settled import volumes for meters on HV and LV, such

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proportion to be advised by the DNO or Elexon from time to time in accordance with the following methodology (or equivalent):

$$Market\ Share_i = \frac{\sum_{jN} C_{ijN}}{\sum_{ijN} C_{ijN}}$$

Where:

C_{iNj} is Half Hourly Consumption (Non Losses) for BM Unit i, Consumption Component Class N and Settlement Period j (as defined in the BSC); and

Summations are for:

- Supplier BM Units (i) in the GSP Group
- Settlement Periods (j) in a [e.g. one month] reference period
- Consumption Component Classes (N) that are associated with Active Import in Measurement Classes 'C', 'E', 'F' or 'G' (for pre-MHHS) or Connection Types 'W', 'L' or 'H' (for MHHS). Where information is available (and provided to NESO by the DNO or Elexon) for consumption of Extra High Voltage (EHV) sites that have not migrated to half-hourly settlement, these volumes shall be excluded.

  *LCM - NESO submit ABSVD to Elexon with respects to eligible non-BM providers delivered HH-settled volumes, where it is feasible to do so. With the optionality to opt out of ABSVD for eligible Non-BM providers and calculation in accordance with the relevant CSA.

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3.3 Registration of Metering System Identifier (MSID) pairs

As a condition of Elexon's acceptance of the ABSVD volumes (calculated and submitted by NESO), NESO is required to notify Elexon of all MSID Pairs that may be used for the provision of Non-BM Unit ABSVD, before it sends MSID Pair Delivered Volumes. In accordance with Section Q, 6.4.8 of BSC, the high-level requirements of registration of MSID pairs with Elexon are:

- The Non-BM Providers submit via the relevant customer registration system for each service the information about MSID pairs for every unit that provides a Non-BM Service
- NESO submit to Elexon the data received from the Non-BM providers
- Elexon confirm to NESO the eligibility and registration of MSID pairs

Note: A failure to register MSID pairs may result in a unit being disqualified from providing a service.

3.4 ABSVD provision for Applicable Balancing Services for Non-BM Providers

For the purpose of calculation and submission of ABSVD volumes to Elexon, the following steps are required to be undertaken:

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- NESO calculate energy volumes per Non-BM units as specified in the Non-BM ABSVD Volumes Supplied to Elexon table
- Providers allocate the energy volume to four decimal places for each MSID pair via the relevant customer registration system for each service
- The volume allocation against registered MSID pairs is validated via the relevant customer registration system for each service
- The ABSVD allocated volumes, in respect of any MSID pair and Settlement Period within a Settlement Day expressed in MWh, will be submitted by NESO to Elexon

Note: If an energy allocation is not given by the registered service provider, a default allocation will be conducted, dividing the energy volume equally between MSIDs registered to the unit providing the service.

In accordance with BSC, Section Q, 6.4 MSID Pair Delivered Volume shall be sent to the SVAA by the fifteenth day after such Settlement Day to the extent such data has been received by the NESO, and in any event by the forty fifth day after such Settlement Day, as stated in 6.4.7, b.

3.5 Re-submission of ABSVD for Applicable Balancing Services from Non-BM Providers

In the event that an error or incompleteness is identified in the submitted ABSVD, the data will be investigated, re-calculated and re-

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submitted to Elexon, as soon as reasonably practicable, once the corrected data is available but not later than the Final Reconciliation Run.

Any queries related to the calculation and submission of ABSVD should be addressed to settlement.queries@neso.energy.

3.6 Disputes for Non-BM ABSVD

3.6.1 Disputes relating to Non-BM Provider volumes passed to Elexon.

A dispute may arise relating to Non-BM Provider volumes passed to Elexon. Where such a dispute arises, a representative of NESO and the BSP concerned who has authority to resolve the dispute shall meet (either in person or virtually) within 10 Business Days of a request by either party (or within such longer period as may be agreed, acting reasonably) and seek to resolve it. If the parties to the dispute are unable to resolve it within 10 Business Days of the meeting (or within such longer period as they may agree within that initial 10 Business Day period, both parties acting reasonably as to the length of the period), then the parties' obligations under this paragraph to undertake such discussions shall no longer apply in relation to that dispute. Either party may then refer the dispute to arbitration pursuant to the rules of the London Court of Arbitration in force from time to time.

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The laws of England shall be the proper law of reference to arbitration under this paragraph and in particular (but not so as to derogate from the generality of the foregoing) the provisions of the Arbitration Act 1996 shall apply to any such arbitration wherever it or any part of it shall be conducted.

Any arbitrator or panel of arbitrators appointed under this Paragraph 3 shall determine such issues as are referred to him or them consistently with any determination by the Authority, whether or not relating to the same or different facts.

For the avoidance of doubt, a party may only raise a dispute in respect of non-BM ABSVD where they are the contracted BSP for the service.

In the event that an error is identified in the ABSVD, the data will be re-submitted and corrected, as soon as reasonably practicable, but not later than the Final Reconciliation Run, once the corrected data is available.

3.6.2 Disputes relating to ABSVD volumes applied to Supplier Energy Accounts

These will be dealt with via Elexon through BSC Trading Disputes processes (BSCP11). Where the dispute requires investigation into the

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source data provided to Elexon, NESO will seek to provide supporting information to resolve this matter.

In the event that an error is identified in the ABSVD, the data will be re-submitted and corrected, as soon as reasonably practicable, but usually not later than the Final Reconciliation Run, once the corrected data is available.

If a Trading Dispute relating to ABSVD is upheld, NESO may be required to resubmit ABSVD after Reconciliation Final (up to DF at D+28 months, or potentially up to D+40 months for an Extra Settlement Determination).