Draft Modification Report

P386 'Corrections and Clarifications to the P344 'Project TERRE' legal text'

Two incorrect provisions, as well as a number of opportunities to add clarity and correct manifest errors have been identified in the approved P344 'Project TERRE' legal text. This Modification will ensure that the legal text accurately reflects the P344 Workgroup's intended solution, as approved by the BSC Panel and the Authority.



The BSC Panel initially recommends approval of P386

This Modification is expected to impact:

ELEXON



Phase

Initial Written Assessment

Definition Procedure

Assessment Procedure

Report Phase

Implementation

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This is the P386 Draft Modification Report, which ELEXON will present to the Panel at its meeting on 13 June 2019. It includes the responses received to the Report Phase Consultation on the Panel's initial recommendations. The Panel will consider all responses, and will agree a final recommendation to the Authority on whether the change should be made.

There are seven parts to this document:

- This is the main document. It provides details of the solution, impacts, costs, benefits/drawbacks and proposed implementation approach.
- Attachment A contains the draft redlined changes to the BSC for P386.
- Attachments B-E contain the draft redlined Code Subsidiary Documents for P386.
- Attachment F contains the full responses received to the Panel's Report Phase Consultation.



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Summary

Why Change?

P344 'Project TERRE implementation into GB market arrangements' was implemented on 28 February 2019, as part of the February 2019 BSC Release. This was a substantial change, impacting 88 BSC documents. As the P344 implementation activities have progressed, inaccuracies, manifest errors and minor ambiguities have been identified that did not accurately reflect the Workgroup's intentions. This Modification will ensure that the legal text accurately reflects the P344 Workgroup's intended solution, as approved by the BSC Panel and the Authority, as detailed in the P344 Business Requirements.

Solution

Corrections and clarifications will be made to the P344 legal text to ensure clarity and alignment with the Workgroup intentions as reflected in the Workgroup agreed business requirements.

Impacts & Costs

Implementing the changes into the relevant BSC Sections and Code Subsidiary Documents required by this Modification will cost approximately £2520.

No impacts on market participants have been identified via the Report Phase Consultation.

Implementation

Implementation of this Modification should be on **7 November 2019**, as part of the BSC November Release. This will allow clarifications to be made to the P344 solution, before the TERRE product will go live, and all BSC obligations become active. This is the next available BSC Release.

Recommendation

The BSC Panel unanimously agreed that P386 would better facilitate BSC Objective (d) and so should be **approved.** The BSC Panel unanimously agreed that P386 should be progressed as a **Self-Governance** Modification and that it should be sent directly to the Report Phase at its meeting on <u>9 May 2019.</u>

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2 Why Change?

P344 'Project TERRE implementation into GB market arrangements' was implemented on 28 February 2019, as part of the February 2019 BSC Release. This was a substantial change, impacting 88 BSC documents. Whilst the documentation was implemented, only the provisions relating to Market Entry and registrations are currently active. The system and TERRE go live is scheduled for December 2019, when all BSC obligations will become active.

P344 'Project TERRE implementation into GB market arrangements'

Project TERRE (Trans European Reserves Exchange) was developed by a group of European Transmission System Operators (TSOs). National Grid ESO participated on behalf of Great Britain (GB). Project TERRE will implement a new Replacement Reserve (RR) balancing product. Project TERRE will fulfil incoming legal requirements on TSOs included in the European Electricity Balancing Guideline (EB GL). The EB GL requires those TSOs that use RR¹ to implement and make operational a new European platform for the exchange of energy. The TERRE product will harmonise the despatch of RR across several TSO areas including Great Britain, France, Italy, Portugal, Spain, Switzerland, Romania, Poland, Hungary and Bulgaria (Greece, Czech Republic and Norway are currently observers).

The EB GL came into force on 18 December 2017, and the legal deadline for National Grid to utilise the TERRE platform for GB balancing of RR products will be 18 December 2019 subject to intermediary proceeding.

P344 Solution

P344 aligned the BSC with the European Balancing Project TERRE requirements. This was in order to allow the implementation of the project at national level and be compliant with the first portion of obligations in the European Network Codes (ENCs).

National Grid worked in collaboration with the Department for Business, Energy and Industrial Strategy (BEIS), Ofgem and ELEXON on deciding the GB implementation approach to obligations stemming from the EB GL. The outcome of these discussions was that the GB implementation approach to the EB GL requirements seek to maximise the exchange or cross border (XB) products in a manner that is proportionate to, and recognises the specific need of GB balancing.

The TERRE product has enabled all TERRE participating Balancing Service Providers (BSPs) to submit bids (upwards or downwards) to their national TSO (i.e. National Grid for BSPs in GB) on an hourly basis to fulfil 15 minute delivery periods. The TSO will forward these Bids to a central platform (termed LIBRA) which will process them in order to meet the Replacement Reserve (RR) requirements specified by TSOs. Activations and associated delivery instructions will be passed back to the BSP via the national TSO.

P344 has implemented the TSO-BSP Settlement solution of the TERRE balancing product within the GB electricity market arrangements. It facilitates payments between National Grid and GB BSPs for activations issued to GB BSPs by the LIBRA platform via National

¹ Replacement Reserves (RR) are formally defined within the legally-binding European 'Guideline on System Operation' (Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation).

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Grid. Payments to BSPs are subject to validation of expected delivered volumes against actual metered data (with any non-delivery subject to imbalance charges and potentially additional Non-Delivery Charges). Project TERRE has also introduced a TSO-TSO settlement process (which will, for example, pay National Grid for RR delivered by GB BSPs to meet a non-GB requirement); but this is outside the scope of P344 (and of the BSC).

TERRE implementation in the GB market has interlinked impacts with National Grid's Grid Code (GC) through Modification <u>GC0097 'Grid Code Processes Supporting TERRE'</u> which focusses on the physical balancing of the system, from bid formats to the dispatch of BSPs.

The P344 solution allows customers and independent aggregators (as mandated by the EB GL) to participate in the TERRE balancing product (using embedded generation or demand side response to deliver RR, independently of their electricity Supplier). The BSC changes for P344 have removed all BSC barriers to customers and independent aggregators participating directly in the existing Balancing Mechanism (BM).

What is the issue?

The <u>P344</u> legal text was implemented on 28 February 2019 as part of the February 2019 BSC Release, with the go-live date for the balancing product scheduled for December 2019.

P344 was the largest Modification to be approved under the BSC and impacted 88 BSC documents. As the P344 implementation activities have progressed, inaccuracies, manifest errors and minor ambiguities have been identified that did not accurately reflect the Workgroup's intentions. Adding clarity will assist BSC Party understanding of the TERRE / Wider Access processes.

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3 Solution

Proposed solution

This Modification proposes to correct the errors in the P344 legal text, detailed below, as well as provide clarification in time for December 2019, when the TERRE product will go live, and all BSC obligations become active.

This Modification will ensure that the legal text accurately reflects the P344 Workgroup's intended solution, as approved by the BSC Panel and the Authority, as detailed in the P344 Business Requirements. We believe the clarifications and corrections are self-evidently wrong or ambiguous.

Please see the table below for details of the proposed solution to deliver P386:

| P386 Proposed solution | | |
|----------------------------------|-------------------|--|
| BSC Section | Type of Change | Description |
| J3.9.5 | Manifest Error | Amend to clarify that Virtual Lead Parties (VLPs) (like other BSC Parties) are not able to benefit from the J3.9 provisions relating to Derogations (which are intended only for Party Agents). |
| K8.1.2 | Clarification | Amend to clarify that only Half Hourly Metering Systems (as opposed to Non Half Hourly Metering Systems) can be registered in Secondary BM Unit. |
| K8.1.4 | Clarification | Amend to include additional detail of the existing K8.1.3 requirement that Secondary BM Units can be classified as Production or Consumption. |
| Q4.3.2 | Clarification | Added a reference to the specific Grid Code section (B4.5) that governs the submission of specific GC obligation omitted |
| S10.2.1 – 10.2.3 | Clarification | Clarify that Metering Systems included in MSID Pairs must be Half Hourly Metering Systems. Consequential change from K8.1.2 (see above). |
| S11.2.3(d) | Manifest Error | Corrected to refer to BSC Procedure BSCP507 ('Supplier Volume Allocation Standing Data Changes) rather than BSCP508. |
| Annex S-2, 7.2.4 and 7.2.5 | Manifest Error | Amend algebra to include correct subscripts |
| T1.2.2 | Manifest Error | Corrected to refer to (i) to (vii) rather than (i) to (v). |
| T3.4.2A | Correction | Algebra amended to bring it in line with the intent of P344 business requirement 20.1 (from the Final Modification Report), and deliver the intent of the solution. The business requirement includes a check that: Acceptance Volume MW value < RR Schedule MW value |

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| | | and the algebra has been amended to clarify that the MW values referred to are the deviation from the baseline, not the absolute level of the instruction. |
|------------------------|----------------|--|
| T3.18.1 | Clarification | Clarify that $DSP^{J_{it}}(t)$ is to be defaulted to $DSP^{J-1}_{it}(t)$ |
| T4.2A.1 | Manifest Error | Remove unnecessary 'and' (typo) |
| T4.3B.4 | Correction | Removed TLM _{ij} from the calculation of QSD _{iji2} , in order to avoid this volume being adjusted twice for transmission losses. |
| T4.4.2(a) | Manifest Error | Amended to correctly balance the brackets. |
| T4.4.3(a) | | |
| T4.5.1 | Clarification | Amended to clarify that Credited Energy Volume (QCE _{iaj}) is required in relation to Primary BM Units only. |
| T4.6.1 | Clarification | Amended to clarify that Account Credited Energy Volume (QACE _{aj}) includes volumes for Primary BM Units only. |
| T4.6.4 | Manifest Error | Amended to include Virtual Balancing Accounts |
| T4.7.1 | Clarification | Amended to clarify that Energy Imbalance Cashflow is required for Virtual Balancing Accounts, as per P344 business requirements. |
| T4.8.3 – 6 T4.8.11 | Clarification | Clarification that accepted offer ranked set includes DSPO and IOD (as specified in 4.8.3) |
| T4.8.7 – 10 T4.8.12 | Clarification | Clarification that accepted bid ranked set includes DSPB and IBD (as specified in 4.8.7) |
| T4.8.17-18 | Clarification | Brackets added around data item names. |
| T4.8.20-21 | | |
| Annex X-1 | Clarification | Add 'Half Hourly' to MSID Pair description |
| Annex X-2 | Manifest Error | Add acronym (RRAPj) for Replacement Reserve Action Price, which was omitted in error. |
| Annex X-2 | Manifest Error | Add acronym (RRAUSB _j) for Replacement Reserve Aggregated Unpriced System Buy Action, which was omitted in error. |
| Annex X-2 | Manifest Error | Add acronym (RRAUSS _i) for Replacement Reserve Aggregated Unpriced System Sell Action, which was omitted in error. |

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| Section C Section F Section H | Housekeeping | Replace references to Transmission Company with NETSO to reflect intent of implemented Modification P369 'National Grid Legal Separation changes to BSC' |
|-------------------------------------|--------------|--|
| Section Q | | |
| Section S | | |
| Annex S-2 | | |
| Section T | | |
| Section X | | |
| Annex X-1 | | |
| Section X | | |
| Annex X-2 | | |
| BSCP15 | | |
| BSCP508 | | |
| CVA Data | | |
| Catalogue | | |
| SAA SD | | |

Double Accounting of Transmission Losses in the Approved P344 Solution

As described above we are correcting a manifest error in T4.3B.4 to remove Transmission Loss Multiplier TLM_{ij} from the calculation of Period Secondary BM Unit Supplier Delivered Volume (QSD_{iji2}), in order to avoid this volume being adjusted twice for Transmission Losses. This is because BSC Section T4.3B.4 was introduced by Modification P344, and calculates the Period Secondary BM Unit Supplier Delivered Volume (QSD_{iji2}) i.e. the energy delivered by a Secondary BM Unit as a result of receiving an acceptance from National Grid. As part of this calculation the Transmission Loss Multiplier (TLM_{ij}) is applied, to account for transmission losses:

$$QSD_{iji2} = (QSD_{i2j} * TLM_{ij}) * SP_{iji2}$$

Unfortunately this leads to double charging of transmission losses, because the TLM_{ij} adjustment will be applied again (for a second time) later in the settlement calculation:

- The QSD_{iji2} value is aggregated (across all relevant Secondary BM Units) to give a Period Supplier BM Unit Delivered Volume (QBSD_{ij}) for each Supplier BM Unit (T4.3B.5).
- The QBSD_{ij} value is included in the value of QBS_{ij} for the Supplier BM Unit
 (BSC Section T4.3.2). Note that none of the other quantities included in QBS_{ij}
 have yet been adjusted for transmission losses (and therefore QBS_{ij} is a
 mixture of adjusted and non-adjusted values).
- The QBS_{ij} value is then multiplied by TLM_{ij} and aggregated across all of the Supplier's BM Units, to give the Account Period Balancing Services Volume (QABS_{aj}) – see T4.6.2. At this point the element of QBS_{ij} that came from QBSD_{ij} has had TLM_{ij} applied to it twice (double-correcting for transmission losses).

This was not an intended feature of the P344 solution. There is no reason for any energy volume in Settlement to be adjusted for Transmission Losses twice. To correct the issue, BSC Section T4.3B.4 must be amended to remove the adjustment for transmission losses:

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Bids Offers Acceptance (BOA) and Replacement Reserve (RR) interaction

We have amended T3.4.2A for correction purposes to align with the Business Requirements for P344. P344 business requirement BR20 (developed by the P344 Workgroup) is intended to ensure that Settlement works appropriately when an RR Schedule (derived from the results of the TERRE auction) is in the same direction (up or down) but larger in magnitude than a previously-issued BOA. For example, consider a scenario in which:

- The Final Physical Notification (FPN) is 40 MW
- The BM Unit receives a 100 MW RR Activation (and associated RR Schedule) increasing its output from 40 MW to 140 MW)
- A 60 MW Bid Offer Acceptance (BOA) is issued to the BM Unit, before it receives the results of the Auction, increasing its output from 40 MW to 100 MW

In this situation, BR20 requires that the RR Activation should take precedence in Settlement (so the BM Unit is paid for increasing its output at the TERRE auction price, not the Offer Price).

The above scenario is handled correctly by the P344 legal text, but other scenarios are not. For BR20 to work correctly in all cases, the magnitude of the BOA and the RR Schedule (used in testing whether the BR20 applies) must be calculated from the correct baseline (i.e. the Final Physical Notification, as modified by any previous instructions). The P344 legal text does not do this, but instead uses the absolute magnitude of the acceptance (i.e. measured from a baseline of zero). The following scenario illustrates the problem:

- The Final Physical Notification (FPN) is 80 MW
- The BM Unit receives a 40 MW downwards RR Activation (and associated RR Schedule) decreasing its output from 80 MW to 40 MW
- A 70 MW Bid Acceptance is issued to the BM Unit, before it receives the results of the Auction, decreasing its output from 80 MW to 10 MW

In this case the we understand that the intent of the Workgroup was that the Lead Party should pay for the 40 MW RR Activation at the TERRE Clearing Price, and the additional 30 MW of Bid Acceptance at the Bid Price. However, because the Bid takes the BM Unit to 10 MW (which is smaller in magnitude than the 40 MW level of the RR Schedule), the current legal text would entirely disregard the Bid i.e. the only payment would be for the 40 MW RR Activation. The revised legal text resolves this issue by measuring the size of a BOA or RR Schedule based on its difference from the baseline (not the absolute level to which the BM Unit was despatched), in order to achieve the intent of the Workgroup.

Virtual Balancing Accounts

BSC Section T4.7.1 has been amended correct that Energy Imbalance Cashflow is required for Virtual Balancing Accounts, as per the P344 business requirements. The intent of the

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P344 Workgroup (as documented in the Business Requirements and Modification Report) is that Virtual Lead Parties (VLPs) should be exposed to Imbalance Charges on any Bid Offer Acceptance or RR Activation that they do not deliver (in the same way that a Supplier or Generator would be). BSC Section T4.6.3 has therefore been amended to calculate an Imbalance Volume for Virtual Balancing Accounts as well as Energy Accounts. Unfortunately the same change was not made to the calculation of Energy Imbalance Charges in T4.7.1. This Modification includes Virtual Balancing Accounts in T4.7.1, in order to provide clarity that VLPs are subject to Imbalance Charges (on non-delivered volumes).

P369 'National Grid Legal Separation'

On the 1 April 2019 a new legal entity National Grid Electricity System Operator (NGESO) was established within the National Grid (NG) Group that is legally separate from the transmission owner, NG Electricity Transmission (NGET) to take on the role of the Electricity System Operator (ESO).

The Modification <u>P369 'National Grid Legal Separation'</u> introduced a definition for the term 'National Electricity Transmission System Operator' and abbreviation 'NETSO' to refer to the entity named National Grid Electricity System Operator Limited. There are a number of instances in the BSC where this update was not done. Therefore, we have taken the opportunity in this Modification to amend reference to the Transmission Company and replace them with NETSO.

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4 Impacts & Costs

P386 Estimated Costs

Implementing the changes into the relevant BSC Sections required by this Modification will cost approximately £2520.

This is a document only change for ELEXON. Some of the clarifications to Section T relate to the P344 changes that the ELEXON service provider is currently making to the Settlement Administration Agent (SAA) system. No re-work to the system design will be needed, because the Modification is aligning the legal text with the service provider's design. In most cases this was because the intent of P344 was already clear to the ELEXON service provider from the P344 business requirements and legal text. In the specific case of the clarification to Section T4.3B.4 it was because ELEXON requested the service provider to include the clarification in their design in order to avoid a manifest error in Imbalance Charges. None of the clarifications introduced by this Modification have other impacts and they are not thought to impact ELEXON processes in any way.

Indicative industry costs of P386

No Market Participant impacts or costs associated with this Modificationhave been identified via the Report Phase Consultation.

P386 impacts

| Impact on BSC Parties and Party Agents | |
|--|--------|
| Party/Party Agent | Impact |
| Parties/ Party Agents | None |

| Impact on Transmission Company | |
|--------------------------------|--|
| None | |

| Impact on BSCCo | |
|-----------------|--------|
| Area of ELEXON | Impact |
| None | None |

| Impact on BSC Settlement Risks |
|--------------------------------|
| None |

| Impact on BSC Systems and process | |
|-----------------------------------|---|
| BSC System/Process | Impact |
| SAA | No impact, as proposed clarifications are consistent with the design for P344 changes to SAA. |

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| Impact on BSC Agent/service provider contractual arrangements | |
|---|--------|
| BSC Agent/service provider contract | Impact |
| None | None |

| Impact on Code | |
|----------------|--|
| Code Section | Impact |
| Section X1 | |
| Section S | |
| Section S2 | |
| Section J | |
| Section K | Correcting and clarifying manifest errors. |
| Section X2 | |
| Section T | |
| Section Q | |
| Section X2 | |
| Section C | |
| Section F | |
| Section H | |

| Impact on Code Subsidiary Documents | | |
|-------------------------------------|---|--|
| CSD | Impact | |
| BSCP15 | | |
| BCP508 | Replacing 'Transmission Company' with 'NETSO' | |
| CVA Data Catalogue | | |
| SAA SD | | |

| Impact on other Configurable Items | | | |
|------------------------------------|--------------------|--|--|
| Configurable Item | urable Item Impact | | |
| None | None | | |

| Impact on Core Industry Documents and other documents | | |
|---|--------|--|
| Document | Impact | |
| Ancillary Services Agreements | None | |
| Connection and Use of System Code | | |

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| Impact on Core Industry Documents and other documents | | |
|---|--------|--|
| Document | Impact | |
| Data Transfer Services Agreement | | |
| Distribution Code | | |
| Distribution Connection and Use of System Agreement | None | |
| Grid Code | | |
| Master Registration Agreement | | |
| Supplemental Agreements | | |
| System Operator- Transmission Owner Code | | |
| Transmission Licence | | |
| Use of Interconnector Agreement | | |

Impact on a Significant Code Review (SCR) or other significant industry change projects

P386 has no impact on any open Significant Code Reviews. ELEXON requested exemption from the Authority on 2 May 2019, and received a response from the Authority on 10 May confirming P386 will not impact any ongoing SCRs.

Impact on Consumers

The day to day operation of Balancing and Settlement would remain unaffected so there would be no direct impact to consumers.

Impact on the Environment

The day to day operation of Balancing and Settlement would remain unaffected so there would be no direct impact to the environment.

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5 Implementation

Recommended Implementation Date

7 November 2019, as part of the BSC November 2019 Release. This will allow clarifications to be made to the P344 solution, before the TERRE product will go live, and all BSC obligations become active. This is the next available BSC Release.

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6 Panel's Initial Discussions

The BSC Panel's discussion of P386

The P386 Initial Written Assessment (IWA) was presented to the BSC Panel at its meeting on 9 May 2019 (Panel 290/06). The Panel agreed with all recommendations unanimously.

Self-Governance

At the BSC Panel meeting on 9 May 2019 the Panel unanimously agreed with the Proposer that P386 should be treated as a Self-Governance Modification Proposal. This Modification does not require any changes to the solution ELEXON is implementing, and we do not anticipate it to impact market participants. Therefore, P386 does not have a detrimental material effect on the Self-Governance Criteria.

Applicable BSC Objectives

The BSC Panel unanimously agreed that P386 would better facilitate Applicable BSC Objective (d), as it will promote efficiency in the implementation of the Balancing and Settlement arrangements by adding clarity and correcting errors in the P344 solution. This will enable P344 to be better aligned with the Workgroup's intention.

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7 Report Phase Consultation Responses

This section summarises the responses to the Panel's Report Phase Consultation on its initial recommendations. You can find the full responses in Attachment F.

| Summary of P386 Report Phase Consultation Responses | | | | |
|---|-----|----|---------------------------|-------|
| Question | Yes | No | Neutral/ No Comment | Other |
| Do you agree with the Panel's initial unanimous recommendation that P386 should be approved? | 1 | 0 | 0 | 0 |
| Do you agree with the Panel that the redlined changes to the BSC deliver the intent of P386? | 1 | 0 | 0 | 0 |
| Do you agree with the Panel's recommended Implementation Date? | 1 | 0 | 0 | 0 |
| Do you agree with the Panel's initial view that P386 should be treated as a Self-Governance Modification? | 1 | 0 | 0 | 0 |
| Will P386 impact your organisation? | 0 | 1 | 0 | 0 |
| Will your organisation incur any costs in implementing P386? | 0 | 1 | 0 | 0 |
| Do you have any further comments on P386? | 0 | 1 | 0 | 0 |

We received one response to the Report Phase Consultation from a Supplier. The respondent agreed with the proposed solution, draft redlining and implementation approach for P386. The respondent did not identify any costs that would be incurred as a result of P386 and confirmed that they would not be impacted by the change.

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8 Recommendations

We invite the Panel to:

- AGREE that P386:
 - o **DOES** better facilitate Applicable BSC Objective (d).
- **DETERMINE** (in the absence of any Authority direction) that P386 is a Self-Governance Modification Proposal;
- **APPROVE** an Implementation Date for P386 of:
 - o 7 November 2019, as part of the BSC 2019 November Release.
- APPROVE the P386 draft legal text;
- APPROVE the draft changes to the P386 Code Subsidiary Documents; and
- **APPROVE** the P386 Modification Report.

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Appendix 1: Glossary & References

Acronyms

Acronyms used in this document are listed in the table below.

| Acronyms | |
|----------|---|
| Acronym | Definition |
| BEGCT | Balancing Energy Gate Closure Time |
| BEIS | Department for Business, Energy and Industrial Strategy |
| BSC | Balancing and Settlement |
| EB GL | Electricity Balancing Guideline |
| ENC's | Energy Network Code |
| ESO | Electricity System Operator |
| НН | Half Hourly |
| IWA | Initial Written Assessment |
| RR | Replacement Reserve |
| SAA | Service Description for Settlement Administration |
| TERRE | Trans European Replacement Reserves Exchange |
| TSO | Transmission System Operator |
| MSID | Metering System Identifier |
| VBA | Virtual Balancing Accounts |
| VLP | Virtual Lead Parties |
| ХВ | Cross Border |

DTC data flows and data items

DTC data flows and data items referenced in this document are listed in the table below.

| DTC Data Flows and Data Items | | |
|-------------------------------|------|--|
| Number | Name | |
| None | | |

External links

A summary of all hyperlinks used in this document are listed in the table below.

All external documents and URL links listed are correct as of the date of this document.

| External Links | | |
|----------------|------------------------------|---|
| Page(s) | Description | URL |
| 3 | BSC Panel meeting 9 May 2019 | https://www.elexon.co.uk/meeting/bsc- panel-290/ |

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| External Links | | | |
|----------------|--|---|--|
| Page(s) | Description | URL | |
| 4 | P344 'Project TERRE' | https://www.elexon.co.uk/mod- proposal/p344/ | |
| 4 | European 'Guideline on System Operation' | https://eur-lex.europa.eu/legal- content/EN/TXT/PDF/?uri=CELEX:32017 R1485&from=EN | |
| 5 | GC0097 'Grid Code Processes Supporting TERRE' | https://www.nationalgrideso.com/codes/ grid-code/modifications/gc0097-grid- code-processes-supporting-terre | |

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