

Approval of the Reference Network Mapping Statement 2019/2020 for use in BSC Year 2021/2022.

BSC Panel

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Purpose of paper **Decision**

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Summary We invite the BSC Panel to approve the draft reference Network Mapping Statement 2019/2020 for use in the BSC Year 2021/2022. We also invite the BSC Panel to delegate approval of the Network Mapping Statement to the Imbalance Settlement Group in future.

1. Introduction

- 1.1 When electricity is transmitted over the Transmission System some energy is 'lost'. This 'lost' energy is commonly referred to as 'transmission losses'. To account for transmission losses in Settlement, each Balancing Mechanisms (BM) Unit's Metered Volume is scaled by applying a Transmission Loss Factor (TLF) to it on an individual basis.
- 1.2 These TLFs are calculated by the TLF Agent (TLFA) for each TLF Zone. The TLF Zones are aligned with the existing Grid Supply Point (GSP) Groups so transmission losses can be allocated on a geographical basis.
- 1.3 Elexon allocates the TLFs to BM Units using the Network Mapping Statement (NMS). The TLFA also uses the NMS.

2. Draft Reference Network Mapping Statement

- 2.1 The NMS is based on historic data from a 'Reference Year', running from 1 September to 31 August each year, for use in the following BSC Year. This NMS contains data relating to the Reference Year 2019/2020 for use in the BSC Year 2021/2022.
- 2.2 The draft reference NMS must contain:
 - a) for each:
 - i BM Unit that is directly connected to the Transmission System;
 - ii GSP; and
 - iii Interconnector;
 - iv that was registered in the Central Registration Service (CRS) at any point between 1 September 2019 and 31 August 2020 (the Reference Year) a mapping to the Node which represents or best represents it (it being recognised that one Node may represent several such points);
 - b) for each Node, the Zone in which the Node lies;
 - c) for each BM Unit, the Zone in which the BM Unit lies; and
 - d) for each High Voltage Direct Current (HVDC) Boundary, the Node which represents or best represents the HVDC Boundary.

2.3 Elexon provided a copy of the draft reference NMS to the Panel at its August 2020 Meeting ([305/10](#)).

3. Consultation with BSC Parties and the BSC Panel on the draft reference NMS

3.1 Elexon issued the draft reference NMS for consultation on 28 August 2020 for 10 Working Days. Elexon published the draft reference NMS 2019/2020 on the [Consultations](#) page of our website, advertised it in [Newscast 817](#) and emailed it directly to BSC Parties via CVA and SVA Distribution lists. The deadline for responses was 17:00 on 14 September 2020.

3.2 Elexon did not receive any comments on the draft reference NMS from BSC Parties, however the following statics from our website show that it was viewed.

Page Title	Users	Unique Page views	Avg. Time on Page (Minutes)
P350 draft reference network mapping statement for Reference Year 2019-20	8	12	05:28

Downloaded File	Total Downloads
consultations/p350-draft-reference-network-mapping-statement-for-reference-year-2019-20/	14
consultations/p350-draft-reference-network-mapping-statement-for-reference-year-2019-20-pro-forma/	9

3.3 Between the versions of the NMS provided to the Panel in August 2020 and the consultation, the Energisation Date of the IFA2 Interconnector moved back from 25 August to September 2020. We therefore removed the interconnector IFA2, the associated Node ID and all associated BM Units from the NMS before the consultation. The following lines were removed:

Volume Allocation Unit (Interconnector) to Node Mapping			
	Interconnector Id	Node Id	% of Metered Volume
ITN	IFA2	CHIL4	100

Node to Zone Mapping			
	Node Id	TLF Zone Id	Node Name
NTZ	CHIL4	8	Chilling (IFA2)

BM Unit to Zone Mapping		
	BM Unit Id	Zone
BTZ	I_I2D-DSKC1	8
BTZ	I_I2D-DUGE1	8
BTZ	I_I2D-EDMK1	8
BTZ	I_I2D-ELTR1	8
BTZ	I_I2D-INCM1	8
BTZ	I_I2D-MCRA1	8
BTZ	I_I2D-PWMR1	8
BTZ	I_I2D-TGPL1	8
BTZ	I_I2G-DSKC1	8
BTZ	I_I2G-DUGE1	8
BTZ	I_I2G-EDMK1	8
BTZ	I_I2G-ELTR1	8
BTZ	I_I2G-INCM1	8
BTZ	I_I2G-MCRA1	8
BTZ	I_I2G-PWMR1	8
BTZ	I_I2G-TGPL1	8

BM Unit to Zone Mapping		
	BM Unit Id	Zone
BTZ	I_EAG-IFA2	8
BTZ	I_EAD-IFA2	8
BTZ	I_IED-IFA2	8
BTZ	I_IEG-IFA2	8

- 3.4 Following the August 2020 Panel meeting, Elexon and the National Electricity Transmission System Operator (NETSO) discussed the mapping of a couple of sites where the Node associated to the site in the NMS was not contained in the NETSO Node list. The following additional changes were made to the NMS before it was sent out for consultation to ensure that the Nodes in the NMS were in the NETSO Node list:

Volume Allocation Unit (Grid Supply Point) to Node Mapping				
	GSP Id	Previous Node Id and % of Metered Volume	New Node Id and % of Metered Volume	GSP Name
GTN	GSP STOR_P	STOR11: 100%	ARMO3-: 100%	Stornoway
GTN	GSP SALL1	NORM11: 33.33333% NORM12: 33.33333% NORM13: 33.33334%	NORM11: 50% NORM12: 50%	Sall (Sheringham Shoal)

Volume Allocation Unit (Directly Connected BM Unit) to Node Mapping			
	Unit Id	Previous Node Id	New Node Id
BTN	T_GYMRD-16	GWYO10	GWYO11
BTN	T_GYMRD-2	GWYO10	GWYO11
BTN	T_GYMRD-E10	GWYO10	GWYO11
BTN	T_GYMRD-E11	GWYO10	GWYO11
BTN	T_GYMRD-W10	GWYO10	GWYO11
BTN	T_GYMRD-W11	GWYO10	GWYO11

Node to Zone Mapping				
	Previous Node Id	New Node Id	Zone	Node Name
NTZ	GWYO10	GWYO11	4	Gwynt-Y-Mor Offshore Wind Farm
NTZ	NORM13	Node removed	1	Norwich Main
NTZ	STOR11	Node removed	14	Stornoway

4. Next Steps

- 4.1 The BSC Panel is required to approve the draft reference NMS with such amendments (if any) as the Panel may decide by no later than 19 October 2020, taking into account any representations or comments from BSC Parties.
- 4.2 Elexon believes that the draft reference NMS (provided as Attachments A and B) and updated with the changes in section 3.3 and 3.4, is fit for purpose and requests that the BSC Panel approves this as the reference NMS 2019/2020 for use in the BSC Year 2021/2022.
- 4.3 If approved by the Panel, Elexon will provide the reference NMS 2019/2020 to the TLFA no later than 19 October 2020. Elexon will also issue it to the NETSO and publish it on the BSC Website.
- 4.4 Following approval, Elexon updates the reference NMS on a periodic basis to contain any newly registered BM Units, GSPs and Interconnectors that were registered in the CRS, at which point it is called the prevailing NMS.

5. Delegated Authority to the Imbalance Settlement Group (ISG)

- 5.1 Section B3.2.1 (b) of the BSC allows the Panel to delegate any of the Panel's powers, functions and responsibilities to a Panel Committee.
- 5.2 The Panel delegated the ownership of the methodology for defining Load Periods (LPs) and Sample Settlement Periods (SSPs), which are used in the calculation of TLFs, to the ISG in July 2017.
- 5.3 The Panel is invited to delegate the approval of the NMS to the ISG¹ which would then be responsible for the approval of future versions of the reference NMS.

6. Recommendations

- 6.1 We invite you to:
 - a) **NOTE** that the draft reference NMS has been updated with comments from the NETSO since the previous version was provided to the Panel;
 - b) **APPROVE** the attached draft reference NMS 2019/2020 for use as the reference NMS in the BSC Year 2021/2022;
 - c) **NOTE** that Elexon will provide the reference NMS 2019/2020 to the TLFA and the NETSO and will publish it on the BSC Website no later than 19 October 2020; and
 - d) **AGREE** to delegate future approval of the NMS to the ISG.

Attachments

Attachment A – Draft reference Network Mapping Statement Reference Year 01/09/2019 – 31/08/2020 v1.0 (Excel document)

Attachment B – Draft reference Network Mapping Statement for the Determination of Transmission Loss Factors (Word document)

For more information, please contact:

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¹ The ISG is responsible for overseeing the operation of the Imbalance Settlement processes and systems in the Central Volume Allocation (CVA) Market.