

REFERENCE NETWORK MAPPING STATEMENT FOR USE IN BSC YEAR 2021-22

MEETING NAME	BSC Panel
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Date of meeting	13 August 2020
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Paper number	305/09
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Owner/author	Katie Wilkinson
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Purpose of paper	Information
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Classification	Public
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Summary	This paper presents the draft reference Network Mapping Statement (NMS) to the Panel for information. The NMS is used in the calculation and allocation of Transmission Loss Factors to BM Units. The draft reference NMS will be issued to BSC Parties for a 10 Working Day Consultation. At the October 2020 meeting the BSC Panel will be invited to approve the draft reference NMS, taking into account any amendments made following the Consultation.
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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 Statement.
- 1.4 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 2019/20 for use in the BSC Year 2021/22.
- 1.5 Elexon must produce and provide a copy of the draft reference NMS to the Panel and each Party, wherever practicable, no later than 31st August in the preceding BSC Year.
- 1.6 The BSC Panel must approve the NMS for use in a BSC Year by no later than 19 October 2020 for use in the BSC Year 2021/22. Prior to approval, the NMS is called the draft reference NMS; once approved it is the reference NMS. Elexon must provide the reference NMS to the TLFA and National Grid Electricity System Operator (NGESO) and must also publish it on the BSC Website.
- 1.7 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 Central Registration Service (CRS), at which point it is called the prevailing NMS.

2. Draft Reference Network Mapping Statement

- 2.1 The draft reference NMS must contain:
 - a) for each:
 - i) BM Unit that is directly connected to the Transmission System;
 - ii) GSP; and

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iii) Interconnector;

that was registered in the 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); and

- 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.

3. Consultation with BSC Parties

- 3.1 The BSC requires Elexon to provide a copy of the draft reference NMS to the Panel and each BSC Party by 31st August.
- 3.2 The draft reference NMS is provided to the Panel as part of this paper (Attachment A). Elexon will issue the draft NMS on 28 August 2020¹ for Consultation for 10 Working Days. As the Reference Year runs to 31 August 2020, Elexon will add any new BM Units or GSPs registered between the Panel meeting and 31 August to the draft reference NMS before it is issued for Consultation. Elexon will publish the draft reference NMS in Newscast, on the BSC Website and email it directly to BSC Parties via Elexon's CVA and SVA Programme Circulars Distribution lists.

4. Next Steps

- 4.1 Elexon will present the draft reference NMS highlighting any amendments made following the Consultation to the BSC Panel in October for approval.

5. Recommendations

- 5.1 We invite the BSC Panel to:
 - a) **NOTE** the draft reference NMS;
 - b) **NOTE** the Network Mapping Statement for the Determination of Transmission Loss Factors; and
 - c) **NOTE** that Elexon will present the draft reference NMS to the BSC Panel for approval at its October 2020 meeting.

Attachments

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

Attachment B – Draft Reference Network Mapping Statement Reference Year 01/09/2019 – 31/08/2020 Supporting Document (Word document)

¹ BSC Section T Annex T-2 Para 4.4 a) ii). states "For each BSC Year, BSCCo shall... provide a copy of the draft reference network mapping statement to the Panel and each Party, wherever practicable not later than 31st August in the preceding BSC Year". As 31 August 2020 is Bank Holiday Monday, the draft reference NMS will be issued for consultation on Friday 28 August 2020.

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