

ELEXION

**1919-B Creation of a new Interconnector
Fuel Type for the Greenlink Interconnector
Progression Paper**

Public

Patrick Matthewson

06/02/2024

1919-B: Background and Issue

Background

- The new Greenlink Interconnector is being constructed to connect the existing grids in Ireland and Great Britain. It is necessary to make BSC Central System changes to the Insights Solution to add a new Interconnector fuel type, before the Interconnector becomes operational, in order that the Interconnector data can be published in a transparent manner

Issue

- Changes are needed to the Insights Solution to ensure data relating to the new Greenlink Interconnector is provided to market participants alongside existing data relating to Settlement arrangements in the Great Britain (GB) electricity market
- The BSC requires a separate 'Fuel Type Category' to be defined for each Interconnector for reporting purposes. It also requires the BSC Panel to approve all new fuel type categories. Therefore, for the Greenlink Interconnector data to be published on the Insights Solution, BSC Central System changes are needed, as is BSC Panel approval for this new 'Fuel Type Category'

1919-B: Solution

- The solution requires the new Fuel Type Category to be recognised within BSC and the Code Subsidiary Documents (CSDs) and the data reported through the BMRS service as defined in [BSC Section V 'Reporting', Balancing Mechanism Reporting Agent \(BMRA\) Service Description](#) and the [BMRA User Requirements Specifications](#)
- A new 'Fuel Type Category' will be created for the Greenlink Interconnector and the data will be subsequently published on the Insights Solution
- The NETA IDD Part 1 Document and Spreadsheet documentation will require updating with the new Fuel Type Category. This will be designated as INTGRNL. The redlining to the NETA IDD Part 1 spreadsheet will be developed in parallel to the BSC Central System changes as part of the implementation phase of this CP. The spreadsheet is updated as part of the design phase, which is initiated following approval

1919-B: Impacts & costs

Impacts:

BSC Party & Party Agent Impacts	
BSC Party/Party Agent	Impact
NGESO	Low - NGESO will be required to send data for the new Greenlink Fuel Type Category
BMRS/Insights Users	Low - Market participants consuming the data from BMRS/Insights will need to be aware of the addition of a new Interconnector Fuel Type Category

Central Impacts	
Document Impacts	System Impacts
<ul style="list-style-type: none">• NETA IDD Part 1 Document• NETA Interface Definition and Design (IDD) Part 1 Spreadsheet	<ul style="list-style-type: none">• Insights Solution

- The central implementation costs for this CP is estimated at approximately £65,000. This includes the costs to amend the Insights Solution and to implement the changes to the IDD documentation

1919-B: Implementation

- This CP is proposed for implementation on 1 August 2024 as a non-Standard BSC Release. This will ensure that the reporting changes are made prior to the Greenlink Interconnector becoming commercially operational by mid-September 2024

1919-B: Recommendations

We invite the ISG to:

- **NOTE** the proposed progression timetable for the CP; and
- **PROVIDE** any comments or additional questions for inclusion in the CP Consultation; and
- **NOTE** that, following CP Consultation, this CP will be presented to:
 - The ISG on 2 April 2024 to seek feedback;
 - and Panel on 11 April 2024 for decision

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**Compliance Approvals – EDM1 Meter
Types (firmware updates)**

PUBLIC

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We invite the ISG to:

- a) **NOTE** that, in relation to CoPs 2 and 3, Elexon issued a Certificate of Compliance to EDM I Europe Limited, a Meter manufacturer, for the EDM I Mk10A and Mk10E Meter types;
- b) **NOTE** that Elexon updated the 'CoP Compliance and Protocol Approval' list, and issued a Newscast article, about the compliance approvals; and
- c) **NOTE** that Elexon will present a similar paper to the Supplier Volume Allocation Group about the compliance approvals in relation to CoPs 3, 5 and 10, for the EDM I Mk7A, Mk7C, Mk10A, Mk10D and Mk10E Meter types.

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**Metering Dispensation D/570 – Wilton BESS
Public – ISG274/04**

Lee Walker

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- Tees Combined-Cycle Power Plant (CCPP) is a multi-stage development at Wilton comprising six separate construction stages, ultimately resulting in a total of 1700MW of generation being connected to Greystones A and Greystones B 275kV substations.
- Greystones A and Greystones B substations previously supplied a Combined-Cycle Gas Turbine (CCGT) Power Station that has now been demolished resulting in bays at Greystones A and Greystones B substation becoming available for connection of a new plant.
- This Metering Dispensation relates to the connection of Stage 1 of the new multi-stage development which is now in the construction phase.

Metering Dispensation application D/570 Wilton BESS

- Stage 1 connects 150MW of BESS to Station Transformer 2 bay (H20) at Greystones A 275kV substation. The Stage 1 design comprises a single 275/33kV transformer with three 33kV feeders connecting the BESS, which is arranged into three discrete 50MW modules.
- The Metering Dispensation is needed because the Metering Equipment for BM Unit (BMU) 4 cannot be located at the Defined Metering Point (DMP) because there are no metering class current transformers (CTs) in the existing bay, and the voltage transformer (VT) is not to CoP1 accuracy requirements.
 - The AMP for BMU 4 will be separated from the DMP by 300m of 275kV cable
 - Meters will be compensated for cable losses
- BMU 4 will account for the losses in the 275/33kV Transformer, cables, busbar and substation auxiliary demand.
- Code of Practice (CoP) 1 Meters will be installed on all three 33kV Wilton BESS modules (BMU 1, 2 & 3) and will meet overall accuracy requirements of CoP1 at their AMPs and at the DMP.

MDRG comments

- We circulated the Metering Dispensation application (and its attachments) to the Metering Dispensation Review Group (MDRG) for comments.
- One out of four MDRG Members responded. This MDRG Member supports the application as the losses have been accounted for in the BMU 4 metering. The MDRG Member noted that it appears that BMU 4 need to be in service if any of the other BMUs are live so, the losses will always be accounted for.

NETSO comments

- We circulated the Metering Dispensation application (and its attachments) to the National Electricity Transmission System Operator (NETSO) for comments.
 - The NETSO supports this application as it shows the metering accuracy will be maintained to the required standards

ELVA comments

- We circulated the Metering Dispensation application (and its attachments) to the Electricity Loss Validation Agent (ELVA).
 - ELVA has been charged with confirming that the proposed compensation for the losses incurred over a 300m 275kV cable, which will account for the difference between the DMP and the AMP, is correct.
 - ELVA confirmed the proposed compensation was suitable.

Elxon's view

- Elxon supports this site specific, lifetime Metering Dispensation application as accuracy will be maintained within CoP1 limits. No impact to Settlement as the Meters will meet CoP1 overall accuracy requirements at the DMP (and AMPs).

Recommendation

We invite the ISG to:

- a) **APPROVE** Metering Dispensation D/570, from Code of Practice 1, for the Metering Equipment associated with Wilton BESS, on a lifetime basis.