

METERING DISPENSATION D/501 – BURNFOOT EAST WIND FARM

MEETING NAME	ISG
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Date of meeting	7 April 2020
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Paper number	228/01
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Owner/author	Chris Day
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Purpose of paper	Decision
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Classification	Public
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Summary	EDF Energy Customers Limited (EDF) has applied for a lifetime Metering Dispensation (D/501) from Code of Practice 2 (CoP2) for the Metering Equipment associated with Burnfoot East wind farm. EDF wish to install Metering Equipment for the Burnfoot East wind farm below the Defined Metering Point. We invite the ISG to approve Metering Dispensation D/501 on a lifetime basis.
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1. BSC requirements

1.1 [Section L](#) 'Metering' of the Balancing and Settlement Code (BSC) requires all Metering Equipment to either:

- comply with the requirements set out in the relevant Code of Practice (CoP) at the time the Metering System is first registered for Settlement; or
- be the subject of, and comply with, a Metering Dispensation.

1.2 Section L allows the Registrant of a Metering System to apply for a Metering Dispensation if, for financial or practical reasons, Metering Equipment will not or does not comply with some or all the requirements of a CoP.

1.3 The process for applying for a Metering Dispensation is set out in [BSC Procedure \(BSCP\) 32](#) 'Metering Dispositions'.

2. Background to Metering Dispensation application D/501

2.1 Rhodders windfarm is rated at 12.95MVA and is connected and metered for Settlement purposes at the point of connection to Licensed Distributor Scottish Power Energy Networks (SPEN), which is the Defined Metering Point (DMP). The existing wind farm provides active (and reactive) data to SPEN.

2.2 Rhodders has Renewables Obligation Certificates (ROC's). In order to continue receiving ROCs payments for Rhodders wind farm, it has to be separately metered from the proposed new Burnfoot East wind farm.

2.3 EDF are proposing to install a wind farm named Burnfoot East. This wind farm will be rated at 10.8MW and will be subject to a Power Purchase Agreement.

3. Metering Dispensation application D/501 – Burnfoot East

3.1 EDF has applied for a lifetime Metering Dispensation (D/501) from CoP2 for the Metering Equipment associated with Burnfoot East wind farm (Attachment A).

3.2 The Actual Metering Point (AMP) of the Metering Equipment associated with Burnfoot East will be the connection point to the Rhodders substation. The Settlement values for Rhodders wind farm will be calculated by differencing the metered volumes of the Metering Equipment associated with Burnfoot East wind farm from the Boundary Point Meter.

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- 3.3 EDF are proposing that the new Burnfoot wind farm will share the existing cable (currently servicing Rhodders wind farm) for 6500m to the Defined Metering Point. A single line diagram showing the points of connection for Rhodders and Burnfoot is included (Attachment B).
- 3.4 EDF have calculated that the introduction of the new wind farm to the existing connection will result in a negligible increase in losses (0.2% increase at 100% generation of both wind farms). Given the minimal increase in losses, EDF are not proposing to compensate for any errors introduced by the new wind farm. Attachments C – F to this paper detail the loss calculation and supporting evidence to justify the calculation.
- 3.5 The applicant has stated that to provide compliant Metering Equipment at the Defined Metering Point would cost circa £491,000.
- 3.6 The proposed solution is expected to cost circa £65,000.
- 3.7 The applicant has stated that the proposed solution will have no impact to Settlement.
- 3.8 EDF have applied for a lifetime Metering Dispensation as the expected service life of the wind farm is another 20 years.

4. MDRG comments

- 4.1 We circulated the Metering Dispensation application to the Metering Dispensation Review Group (MDRG) for comments.
- 4.2 Two of four MDRG members responded to the consultation.
- 4.2.1 One member supported the application as the proposal was reasonable and did not adversely affect Settlement.
- 4.2.2 One MDRG member had the following queries:
- Who will be allocated the losses? It would appear the existing wind farm will as the existing wind farm allocation will become boundary meter – new wind farm. So the additional private cable losses will be attributed/payable by the existing wind farm. Are they aware of this and confirmed they are agreeable?
 - The losses calculation only calculate the I2R losses, so does not take account of the capacitive losses – is that correct? Would the losses be material at 33kV, I suspect they would and they would be continuous not load related?
- 4.2.3 The responses from the applicant were lengthy (particularly to the second question) and detailed. As such they have been included as an attachment to this paper (Attachment G).
- 4.2.4 Following response from the applicant the MDRG member was satisfied and happy to support the application.

5. LDSO comments

- 5.1 We circulated the Metering Dispensation application to the LDSO for comment.
- 5.2 At time of writing we have not yet had a response from the LDSO to this application.

6. ELEXON's view

- 6.1 ELEXON supports this lifetime Metering Dispensation application as:
- Overall Accuracy will be maintained within the limits defined within CoP2 referred to the DMP and no other Registrants will be impacted other than the existing windfarm.

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7. Recommendation

7.1 We invite you to:

- a) **APPROVE** Metering Dispensation D/501 for the Burnfoot East wind farm on a lifetime basis.

Attachments

Attachment A – Metering Dispensation application D/501

Attachment B – Boundary and Metering Single Line Diagram.

Attachment C – Data sheet for Copper and Aluminium Cable

Attachment D – Rhodders WF electrical cable losses – in Private Cable

Attachment E – Combined Rhodders and Burnfoot East WFs electrical losses - in Private Cable

Attachment F – Increase in Rhodders electrical losses - in Private Cable

Attachment G – Applicant response to MDRG queries.

For more information, please contact:

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