

## Metering Dispensations D/540 – Burwell Solar PV Farm

### Imbalance Settlement Group (ISG)

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Owner/author	<b>Lee Walker</b>	Purpose of paper	<b>Decision</b>
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**Summary** **EDF Energy Limited has applied for a lifetime Metering Dispensation (D/540) from Code of Practice (CoP) 2. The application relates to the location of the Metering Equipment associated with a proposed new 49.9MW Solar Photo Voltaic (PV) Farm, connected at Burwell Main 400kV substation via the 13kV 60MVA tertiary of SGT1. We invite the ISG to approve Metering Dispensation D/540 on a lifetime basis**

### 1. BSC requirements

- 1.1 Section L<sup>1</sup> 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 under the BSC (L3.2.2); or
  - Be the subject of, and comply with, a Metering Dispensation (L3.4).
- 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 [BSCP32](#)<sup>2</sup>.

### 2. Background to Metering Dispensation D/540

- 2.1 EDF Renewables (EDFR) is installing a 49.9MW Solar Photo Voltaic (PV) Farm at the EDF Burwell Switching Station. The Burwell Solar PV Farm will be connected at Burwell Main 400kV substation via the 13kV 60MVA tertiary winding of Super Grid Transformer (SGT) 1. The secondary winding of SGT1 is metered at the Defined Metering Point (DMP) for Burwell Grid Supply Point (GSP).
- 2.2 For practical reasons a Metering Dispensation is required as the Actual Metering Point (AMP) cannot be at the DMP, which is the point of connection to the Transmission System or Grid Entry Point (GEP).

<sup>1</sup> 'Metering'

<sup>2</sup> 'Metering Dispensations'

### 3. Metering Dispensation D/540 – Burwell Solar PV Farm

- 3.1 EDF Energy Limited (EDF) has applied for a lifetime Metering Dispensation (D/540) from [CoP2<sup>3</sup>](#) as the proposed Registrant of the Metering Equipment/System (Attachment A). This is for the location of the Metering Equipment related to the Burwell Solar PV Farm.
- 3.2 The reason for the application is two-fold:
- The AMP needs to be moved because of the space constraints within National Grid Electricity Transmission's (NGET's) existing 400kV compound. The planned area for the assets that make up EDFR's connection (13kV & 33kV Switchgear and 60MVA transformer) are densely packed in the compound. The additional space required for the 33kV High Accuracy Metering (HAM) unit<sup>4</sup> would have proved to be a risk to the project; and
  - The CoP2 metering panels for Burwell Solar PV Farm will be installed in the EDFR substation within the metering room. The distance between the metering panels and the HAM Units would have exceeded 100m, providing concerns regarding the accuracy of metering due to the resistance of the secondary wiring runs from the current transformers (CTs), and voltage transformers (VT), to the Meters
- 3.3 The intent is for EDFR to install the metering CTs and the VT on the incoming circuit breaker within the EDFR owned and operated switching station, adjacent to the SGT1 bay. The applicant has recently confirmed that the circuit between the DMP and the proposed AMP will be approximately 92m.
- 3.4 The Metering Dispensation aims to secure BSC Panel approval for EDFR to install the metering instrument transformers on EDFR's most upstream circuit breaker, and to register this as the metering point for Settlement purposes.
- 3.5 The applicant currently understands that there will be no impact on other Registrants. NGET initially worked with EDFR to devise this solution, and the National Grid Electricity System Operator (NGESO) has been informed without any concerning feedback returned.
- 3.6 The applicant calculated the estimated losses to be less than 0.0055% so losses will not be applied.

### 4. MDRG comments

- 4.1 We circulated the Metering Dispensation application and its attachment to the Metering Dispensation Review Group (MDRG) for comments (Attachments A - B).
- 4.2 1 response received in support of the application

### 5. NETSO comments

- 5.1 We circulated Metering Dispensation application and its attachment to the National Electricity Transmission System Operator (NETSO) for comments (Attachments A - B).
- 5.2 ~~Awaiting comments.~~ Will provide verbal update on day of ISG meeting 05 July 2022.

### 6. Elaxon's view

- 6.1 Elaxon supports this site specific Metering Dispensation application. The impact on Settlement will be limited due to the insignificant losses between the DMP and AMP.

### 7. Recommendation

- 7.1 We invite the ISG to:
- a) **APPROVE** Metering Dispensation D/540 from CoP2, for the location of the Metering Equipment associated with the Burwell Solar PV Farm, on a lifetime basis.

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## Attachments

Attachment A – Metering Dispensation application D/540 – Burwell Solar PV Farm

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<sup>3</sup> 'Code of Practice for the metering of circuits with a rated capacity not exceeding 100MVA for Settlements purposes'

<sup>4</sup> The HAM Unit contains the Settlement metering current and voltage transformers.

**For more information, please contact:**

Lee Walker, Metering Analyst

[Lee.Walker@elexon.co.uk](mailto:Lee.Walker@elexon.co.uk)

020 7380 4168