**BSCP32/4.1 Application for a Metering Dispensation**

Part A – Applicant Details

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| **To: BSCCo** | **Date Sent:** \_04/04/2022 |
| **From: Requesting Applicant Details** | |
| Name of Sender: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Contact email address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Contact Tel. No. \_\_\_\_ | Contact Fax. No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Name of Applicant Company: Statkraft Markets GmbH \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Address: 22 Bishopsgate | |
| London | |
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|  | |
| Post Code: EC2N 4BQ\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Our Ref: STATERA\_DISP\_MINETY2\_\_\_\_ |
| **Name of Authorised Signatory:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Authorised Signature: By email\_\_\_\_\_\_\_\_ | Password:\_\_ \_\_\_\_\_\_\_ |

**Confidentiality:**

Does any part of this application form contain confidential information?

**Request for Confidentiality No/\***

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| If ‘YES’, please state the parts of the application form that are considered confidential, including justification below. Information that is considered confidential: |
| ………………………………………………………………………………………………  number, site name, expiry date (if any) and BSC Panel determinations will routinely be made available in the public domain unless the applicant informs BSCCo otherwise at the time of application |

**BSCP32/4.1 Application for a Metering Dispensation (Cont.)**

**Part B - Affected Party Details**

Number of Affected parties\_\_\_1\_\_[[1]](#footnote-1)

Does this Metering Dispensation affect the metering arrangements for a generator that has applied for/obtained a CFD Agreement? Yes No

If Yes, you must contact the Low Carbon Contracts Company and advise them of your Metering Dispensation application and include them as an Affected Party.

Have you notified all Affected Parties? Yes No

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| Contact Name at Affected party: | |
| Contact email address: | |
| Contact Tel. No. | Contact Tel. No. |
| Company Name of Affected party: Scottish and Southern Electricity Networks | |
| Address: 1 Forbury Place, 43 Forbury Road, Reading | |
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|  | |
| Post Code: RG1 3JH |  |

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| --- | --- |
| Contact Name at Affected party: | |
| Contact email address: | |
| Contact Tel. No: | Contact Tel. No. |
| Company Name of Affected party: | |
| Address: | |
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| Post Code: |  |

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| --- | --- |
| Contact Name at Affected party: | |
| Contact email address: | |
| Contact Tel. No. | Contact Tel. No. |
| Company Name of Affected party: | |
| Address: | |
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| Post Code: |  |

**BSCP32/4.1 Application for a Metering Dispensation (Cont.)**

**Part C – Reason for Application**

If the application is an extension or update for an existing Metering Dispensation, enter existing ref: D/……..

Site Specific

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| Describe why you require a Metering Dispensation. Include any steps you propose to limit the impact on Settlement and other Registrants:  The dispensation relates to two battery storage projects: Minety South Storage Limited & Minety South Storage 2 LTD. Though a dispensation is only being requested for Minety South Storage 2 LTD (as the other project will still have a compliant meter at the boundary and is already operational).  A Metering Dispensation will allow for optimum registration of the Metering System for the site connecting the project, through a dedicated circuit, to the wider DNO network.  One of the unique requirements for a dispensation arises as a result of two projects being built at the same time on land directly adjacent to one another. This allows for the amalgamation of two separate Points of Connection into a single location, with the Defined Metering Point being in the same location for both MPANs - captured as Compliant Metering under the Materiality section below. However, due to the need to meter each project independently the second project (Minety South Storage 2) requires a dispensation to meter at its project boundary. Without this, two separate connections would be required, which is highly inefficient and uneconomic (please refer to appended SLDs).  As a result, the proposed solution will:   * Simplify the design and environmental footprint of required infrastructure * Provide significant cost savings relative to the overall project cost * Deliver COP1 metering for both projects rather than COP2 metering arrangement (which would have been used with two separate connections).   Note: While it is technically possible to provide a COP compliant metering solution by amalgamating the two c50MW projects into a single c100MW project, such a proposal would mean the project capacity being above thresholds for: commercial (risk + licencing); funding, and; it was designed to meet the town and country planning act (Development Consent Order to Secretary of State vs Local Planning Authority) restrictions in place at the time –leading to cost and timescale increases.  **Simplify the design and footprint of the required infrastructure**  A fully compliant system, metering at the DMP, would require additional infrastructure in the existing or new DNO substation and two each project – increasing both cost and timescales for completion. Furthermore, such infrastructure would cause increased levels of environmental impact; such as increased land-take/footprint, noise, construction traffic, and carbon-emissions from additional piling & infrastructure.  The proposed reduction in plant and machinery is looked on favourably by the Local Planning Authority, lessening visual impact and other related environmental impacts.  **Provide significant cost savings relative to the overall project cost**  The Materiality section below highlights savings of £1.26m per project when compared with Compliant Metering Option 1 (a total of £2.52m across both projects), representing c5-7% reduction in total CAPEX for each project.  Given this project will enter the capacity market, these savings will ultimately benefit the Consumer.  **Deliver for a more accurate metering arrangement going forward, whilst maintaining the integrity of Settlement**  Were these to be directly connected (i.e. under compliant metering option 2), individual 50MW projects they would be COP2. However, under this arrangement the dispensation will result in higher accuracy COP1 metering for both projects.  Given the proposed private network is connected to a dedicated circuit out of the DNO substation, there will be no impact on Settlement or other Registrants. |

**Period of Metering Dispensation required**

Lifetime

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| --- | --- |
| If temporary, indicate for how long the Metering Dispensation is required. | N/A |

Provide justified reasoning for the period of Metering Dispensation requested in the box below:

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| Rationale for duration of Metering Dispensation:  A dispensation is required for the lifetime of the assets as there is no intention for the connection arrangement to change through the project lifetime. |

**Part D1 - Loss Adjustments for Power Transformer and/or Cable/Line Losses**

Where loss adjustments are proposed and applied (or are to be applied) to the Metering System for power transformer and/or cable/line losses, provide the following information:

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| Describe how do you propose to correct the Metering System to account for the losses of this power transformer? |
| Please see Appendix 1 calculation [Note: As tested data of transformer provided]. |
| In order to validate the loss adjustments applied (or to be applied) to the Metering System please provide the following information together with supporting data (e.g. power transformer test certificates): |
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| What are the iron losses for this power transformer? |
| 44.69KW |
| What are the copper losses for this power transformer? |
| 344.375kW at nominal tap. |
| Are there any other losses that have been taken into account? Yes/No\*. If Yes what are they? |
| Earthing Transformer (Details in Appendix 1) |
| Demonstrate how these elements of loss have been used in the corrections to the Metering System. |
|  |
| \*Delete as applicable. |

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| Describe how do you propose to correct the Metering System to account for the losses of the power cable/line? |
| A compensation factor will be applied to the Meter. |
| In order to validate the loss adjustments applied (or to be applied) to the Metering System please provide the following information together with supporting data (e.g. cable/line manufacturer’s data sheet): |
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| What is the type of power cable/line? |
| Please refer to Appendix 1 |
| What is the length of this power cable/line?  Please refer to Appendix 1 |
|  |
| What is the DC resistance of this power cable/line?  Please refer to Appendix 1 |
|  |
| What is the impedance of this power cable/line? |
| Information not available from manufacturer’s datasheet. |
| What is the capacitance of this power cable/line? |
| Please refer to Appendix 1  Circuit Capacitance: 0.0608 µF |
| Are there any other losses that have been taken into account? Yes/No\*. If Yes what are they? |
| No |
| Demonstrate how these elements of loss have been used in the corrections to the Metering System. |
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| \*Delete as applicable. |

**Materiality**

Please complete the following:

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| What is the cost of providing compliant Metering Equipment? | What does this cost entail? |
| £3,336,045.73 | Compliant Metering  1 x 55MVA 33/132kV Power Transformers  1 x 132kV Voltage Transformers  1 x 132kV Dead Tank Circuit Breakers & Current Transformers.  2 x 132kV Disconnectors & Earth Switches  1 x 132kV Sets of Surge Arrestors  Secondary Equipment  Associated Civil & Piling Works  *Note: We are only detailing areas of difference rather than listing all of the equipment.* |
| What is the cost of the proposed solution? | What does this cost entail? |
| £2,075,001.56 | 1 x 110MVA ONAN/120MVA ONAF 33/132kV Power Transformer  1 x 132kV Voltage Transformers  1 x 132kV Dead Tank Circuit Breakers & Current Transformers.  2 x 132kV Disconnectors & Earth Switches  1 x 132kV Set of Surge Arrestors  Secondary Equipment  Associated Civil Works  Reduced land requirements  *Note: We are only detailing areas of difference rather than listing all of the equipment. Asset infrastructure shared with co-located with Minety 1.* |
| What is the impact to Settlement of your proposed solution? | Why? |
| This metering dispensation will have no impact on Settlement | None as compensations will be applied to the metering system.  Applying the proposed compensation factors there will result in no impact to settlements of the proposed structure.  Both plants will be metered with Settlement Meters. There will be a complex table written and issued from MOA and in summary: MS2= AMP2 |
| What is the impact to other Registrants of your proposed solution? | Why? |
| This metering dispensation will have no impact on other Registrants | Considering losses are accounted for there should be no further implications. |

**Site Details (for Site Specific Metering Dispensation)**

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| Site Name: | Minety South Storage 2 LTD |
| Site Address: | 1, The Old Barn Purlieus, Minety, Malmesbury, SN16 9RP |
| MSID(s): | [TBC – MPANs not yet issued] |
| Registered in:SMRS\*: | SMRS |
| For SMRS, please advise of SMRA in space provided. | Scottish and Southern Electricity Networks |

**Manufacturer Details (for Generic Metering Dispensation)**

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| Manufacturer Name: | N/A |
| Metering Equipment Details: | N/A |

**BSCP32/4.1 Application for a Metering Dispensation (Cont.)**

**Part D - Technical Details**

**Code of Practice details**

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| Metering Dispensation against Code of Practice\* | CoP1 (@DMP) |
| Issue of Code of Practice\*: | Version 12, Issue 2 (Latest) |
| Capacity of Metering Circuits/Site Maximum Demand (MW/MVA): | 120MVA |
| (Proposed) Commissioning Date of Metering: | Mid 2022 |
| Accuracy at Defined Metering Point: | +/- 0.5% @120% to 10% incl. @pf=1.0 Active energy.  CT Class 0.2S, VT Class 0.2S |
| Accuracy of Proposed Solution (including loss adjustments): | +/- 0.5% @120% to 10% incl. @pf=1.0 Active energy  Note: All transformer losses, LLFs, and measurement transformer errors, etc, will be compensated in the meters so the accuracy will be as if they were at the DMP. |
| Outstanding non-compliances on Metering Systems: | N/A – New site. |
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| Deviations from the Code of Practice (reference to appropriate clause): | APPENDIX A DEFINED METERING POINTS  6. For transfers between a Distribution System operated by a Licensed Distribution  System Operator and Generating Plant, the DMP shall be at the point(s) of  connection of the generating station to the Distribution System operated by a  Licensed Distribution System Operator. AMP2 is not at the DMP.  Metering System will comply with CoP 1, 4.3.3 Compensation for Power Transformer and Line Losses. |
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\* insert Code of Practice number and issue

**Any Other Technical Information**

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**Declaration**

We declare that other than as set out above we are in all other respects, in compliance with the requirements of the relevant Code of Practice and the BSC. A schematic is attached to this application for clarification of the metering points involved.

*Signature: Date: 04/04/2022*

*Password:*

Duly authorised for and on behalf of Applicant Company

**Confirmation of Receipt and Reference**

BSCCo acknowledges receipt of this document and has assigned the reference number as indicated on the first page.

*Signature: Date:*

Duly authorised for and on behalf of BSCCo

1. For more than one Affected party, Part B should be completed for each, using additional copies of Part B as required. [↑](#footnote-ref-1)