

BSCP32/4.1 Application for a Metering Dispensation**Part A – Applicant Details**

To: BSCCo		Date Sent: 22 nd June 2020
From: Requesting Applicant Details		
Name of Sender: _____		
Contact email address: _____		
Contact Tel. No. _____	Contact Fax. No. _____	
Name of Applicant Company: Total Gas & Power _____		
Address: Bridgeway, 55-57 High St, Redhill, Surrey		
Post Code: RH1 1RX _____		
Our Ref: Baddesley MPAN 1170000807160/170 _____		
Name of Authorised Signatory: _____		
Authorised Signature: _____	Password: _____	

Confidentiality:

Does any part of this application form contain confidential information?

Request for Confidentiality ~~YES~~/NO*

**Delete as applicable*

If 'YES', please state the parts of the application form that are considered confidential, including justification below. Information that is considered confidential:

Not Applicable

Reasons for requesting confidentiality:

.....

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 ___4___¹

Contact Name at Affected party:	
Contact email address:	
Contact Tel. No.	Contact Tel. No.
Company Name of Affected party: Equitix EEEF WTE (Baddesley) Ltd	
Address:	
3rd Floor (South)	
200 Aldersgate Street	
London	
Post Code: EC1A 4HD	

Contact Name at Affected party:	
Contact email address:	
Contact Tel. No:	Contact Tel. No.
Company Name of Affected party: Gravis Capital	
Address:	
24 Savile Row	
London	
Post Code: W1S 2ES	

¹ For more than one Affected party, Part B should be completed for each, using additional copies of Part B as required.

Contact Name at Affected party:	
Contact email address:	
Contact Tel. No.	Contact Tel. No.
Company Name of Affected party: OVO (S) Metering Ltd	
Address:	
Grampian House	
200 Dunkeld Road	
Perth	
Post Code: PH1 3GH	

Contact Name at Affected party:	
Contact email address:	
Contact Tel. No.	Contact Tel. No.
Company Name of Affected party: SmartestEnergy Ltd	
Address:	
The Columbus Building	
7 Westferry Circus	
London	
Post Code: E14 4HD	

Contact Name at Affected party:	
Contact email address:	
Contact Tel. No.	Contact Tel. No.
Company Name of Affected party: Western Power Distribution (East Midlands) plc	
Address:	
Avonbank	
Feeder Road	
Bristol	
Post Code: BS2 0TB	

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

Part C – Reason for Application

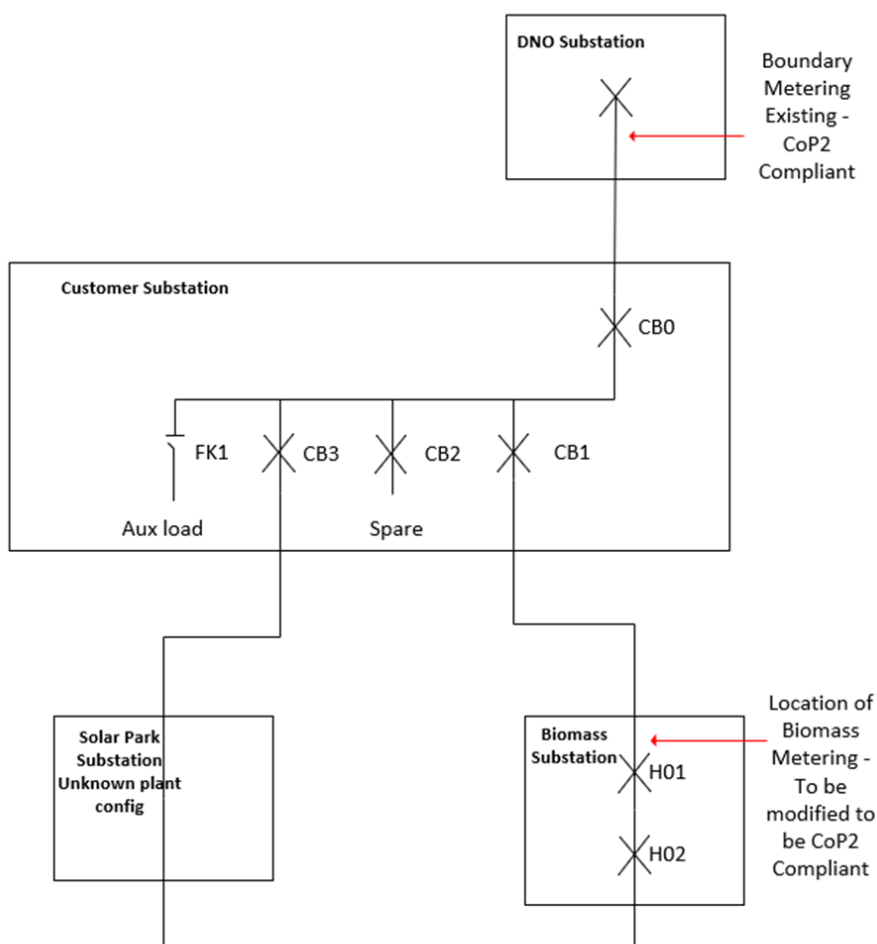
If the application is an extension or update for an existing Metering Dispensation, enter existing ref: D/..... Not Applicable.

Site Specific ~~/Generic~~ *Delete as applicable.

Describe why you require a Metering Dispensation. Include any steps you propose to limit the impact on Settlement and other Registrants:

The Metering Dispensation is required as Difference Metering is to be utilised on this Third Party network. The metering system will be CoP2 compliant however the Actual Metering Point (AMP) for one of the connected parties on the network will not be at the Designated Metering Point (DMP).

The single line diagram below describes the configuration of the 33kV Third Party Network.



The two connected Parties to this Third Party Network, Gravis Capital and Equitix EEEF WTE (Baddesley) Ltd, have been working together to develop the site. They are joint owners of common assets, primarily the Customer Substation, which is the 33kV switchgear that connects their respective generation plants to the DNO network.

By way of background the Solar Farm and the Customer Substation already exists. The Biomass Plant and associated 33kV cable are being added and the Biomass wishes to use Third Party Access arrangement and utilise a different Supplier than the Solar Farm. This needs the AMP to be distant from the DMP (a new DMP for the Biomass Plant is costly) and Difference Metering is required. This will ensure no other Registrants (apart from Solar Park) are impacted.

NB Gravis Capital are the Solar Park owner and Equitix EEEF WTE (Baddesley) Ltd own the Biomass plant identified on the single line diagram above.

There are two main sources of losses within the network.

- 1) Losses associated with the low voltage auxiliary supply to the Customer Substation for heating, lighting and substation battery chargers.

The two parties have a contractual arrangement between them, which provides for the allocation of the costs associated with is losses.

- 2) Losses associated with power flow on the 33kV (130m) cable from the Customer Substation to one of the plants. Details of this cable are known and a compensation factor will be incorporated into the metering system to correctly allocate the cost of these losses.

Period of Metering Dispensation required

Lifetime / ~~Temporary~~ *Delete as applicable.

If temporary, indicate for how long the Metering Dispensation is required.	
--	--

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

Rationale for duration of Metering Dispensation:

The Metering Dispensation is required for the lifetime of the Third Party Network as it not possible to connect two parties to this network and provide separate settlement metering without one party having their AMP distant from the DMP.

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:

~~Describe how do you propose to correct the Metering System to account for the losses of this power transformer?~~

~~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):~~

~~What are the iron losses for this power transformer?~~

~~What are the copper losses for this power transformer?~~

~~Are there any other losses that have been taken into account? Yes/No*. If Yes what are they?~~

~~Demonstrate how these elements of loss have been used in the corrections to the Metering System.~~

~~*Delete as applicable.~~

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 metering system.

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):

What is the type of power cable/line?

The power cable is a 33kV 150mm Cu XLPE insulated cable.

What is the length of this power cable/line?

The cable is 130m in length.

What is the DC resistance of this power cable/line?

The dc resistance is 0.124 Ω /km at 20°C.

What is the impedance of this power cable/line?

The impedance is 0.209 Ω /km.

What is the capacitance of this power cable/line?

The capacitance is 0.196 μ F/km.

Cable manufacturer and installation contractor data is appended below this table.

Are there any other losses that have been taken into account? Yes/~~No~~*. If Yes what are they?

There are losses associated with low voltage substation auxiliary supplies.

Demonstrate how these elements of loss have been used in the corrections to the Metering System.

A contractual agreement between the joint owner of the substation assets governs the allocation of the costs associated with the substation auxiliary supply losses.

*Delete as applicable.

Data Sheet for 33kV Cable

Moved to separate attachment - ELEXON

Materiality

Please complete the following:

What is the cost of providing compliant Metering Equipment?	What does this cost entail?
<p>There are two options for providing compliant Metering Equipment;</p> <p>1) A new DMP at the boundary with the LDSO. This would cost in the region of £45,000 to £60,000.</p> <p>2) Create an Associated Distribution System by metering all the feeders from the 33kV switchgear in the Customer Substation and de-registering the Boundary Point Metering System.</p>	<p>1) This will need another 33kV circuit breaker and associated protection and control equipment. This estimate assumes that the existing LDSO switchroom is large enough to accommodate another 33kV circuit breaker</p> <p>2) It is not possible to connect a VT to the feeder circuit breakers to the Solar Farm and the EfW with the 33kV switchgear selected. To create an Associated Distribution System it will be necessary to replace the 33kV switchgear. It is estimated that the cost would be in the order of £100 to £150K.</p>
What is the cost of the proposed solution?	What does this cost entail?
Approximately £4,000	This is to install CoP2 metering at the Biomass, which requires metering CTs, main/check meters, mounting panel and interconnecting wiring. An existing VT at this point is suitable specified for CoP2.
What is the impact to Settlement of your proposed solution?	Why?
There is no adverse impact to Settlement of this solution.	
What is the impact to other Registrants of your proposed solution?	Why?
There is no adverse impact to other Registrants of this solution.	

Site Details (for Site Specific Metering Dispensation)

Site Name:	Baddersley Energy Park
Site Address:	Coleshill Road, Baddersley Ensor, Warwickshire, CV9 2LE
MSID(s):	Import: 1170000807160 & Export: 1170000807170
Registered in: CMRS / SMRS*: *Delete as applicable.	SMRS
For SMRS, please advise of SMRA in space provided.	

Manufacturer Details (for Generic Metering Dispensation)

Manufacturer Name:	
Metering Equipment Details:	

BSCP32/4.1 Application for a Metering Dispensation (Cont.)**Part D - Technical Details****Code of Practice details**

Metering Dispensation against Code of Practice*	CoP 2
Issue of Code of Practice*:	Issue 4
Capacity of Metering Circuits/Site Maximum Demand (MW/MVA):	More than 10 MVA
(Proposed) Commissioning Date of Metering:	28/05/20
Accuracy at Defined Metering Point:	As defined in CoP 2 Section 4.2 'Accuracy Requirements'
Accuracy of Proposed Solution (including loss adjustments):	In accordance with CoP 2 Section 4.2 'Accuracy Requirements'. The meters have been compensated for electrical losses to DMP as per CoP 2 Section 4.2.3 As the CT and VT certificates are available then it has also been possible to calculate Compensation for Measurement Transformer Error (4.3.2 'Compensation for Measurement Transformer Error')
Outstanding non-compliances on Metering Systems:	None
Deviations from the Code of Practice (reference to appropriate clause):	<p>The existing configuration deviates from:</p> <p>CoP 2 Appendix A - 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.</p>
	CoP 2 Issue 4

* insert Code of Practice number and issue

Any Other Technical Information

CoP2 Issue 4

--

Endorsements

Moved to separate attachment - ELEXON

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:*

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