# **REACTIVE POWER MARKET**

# **OBLIGATORY AND ENHANCED**

#### REACTIVE POWER SERVICES

### **TENDER SHEETS AND**

**CERTIFICATE OF BONA FIDE TENDER**

**FOR REACTIVE POWER MARKET AGREEMENTS**

##### COMMENCING 1 October 2024

July 2024

Electricity System Operator

Faraday House

### Warwick Technology Park

Gallows Hill

Warwick

CV34 6DA

**PLEASE NOTE:**

This document forms part of the Invitation to Tender (ITT) information published by National Grid plc on behalf of National Grid Electricity System Operator Ltd (“The Company”) and should be read in conjunction with the other documents. In particular, you are referred to the document entitled “Invitation to Tender and Guidance Notes for the Completion of Tenders”. Particular guidance on how to complete these tender sheets is provided in Section 7 of the Invitation to Tender and Guidance Notes for the Completion of Tenders document.

Terms and phrases used in this document have the meanings set out or referred to in the Invitation to Tender and Guidance Notes for the Completion of Tenders document.

**IMPORTANT – PLEASE ENSURE:**

* **Part 1** of this document **must** be completed by **all** Tenderers
* **Part 2** of this document must be completed **if**:
* The tendered service exceeds a 12-month period; or
* The Tenderer wishes to restrict the selection of contract duration; or
* The tendered service can be provided when not providing Active Power
* **Part 3** of this document must be completed **if** the Tenderer is offering an Enhanced Reactive Power Service (ERPS)
* The **Certificate of Bona Fide Tender** in this document **must** be completed by **all** Tenderers

Completed tenders should be sent in sealed envelopes clearly marked on the outside as “TENDER FOR REACTIVE POWER MARKET OCTOBER 2024” by 17:00 hours on 9th August 2024 to:

Charlene Russell

Faraday House

Warwick Technology Park

Gallows Hill

Warwick

CV34 6DA

Or email to commercial.operation@nationalgrideso.com

**REACTIVE POWER MARKET TENDER SHEET 1a**

**PART 1 – TO BE COMPLETED BY ALL TENDERERS**

## Reactive Power Market Service from 1 October 2024 – Tenderer’s Details

|  |  |
| --- | --- |
| **Date of Tender:** |  |
| **Tenderer’s Name:** |  |
| **Ultimate Holding Company (if any): (1)** |  |
| **Registered Number of Tenderer: (2)** |  |
| **Address of Registered Office of Tenderer: (2)** |  |
| **Contact Name: (3)** |  |
| **Contact Address: (3)** |  |
| **Contact Telephone Number: (3)** |  |
| **Contact Facsimile Number: (3)** |  |
| **Contact E-mail Address: (3)** |  |

\*Note: superscript numbers (e.g. (2)) refer to guidance in the Invitation to Tender and Guidance Notes for the Completion of Tenders document **REACTIVE POWER MARKET TENDER SHEET 1b**

**PART 1 (continued) – TO BE COMPLETED BY ALL TENDERERS**

Tendered unit details and associated prices

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tendered unit ID: (4)** | |  | | |
| **Do you wish to submit the same breakpoints and prices to those of a previous reactive market Tender?** | | **NO / YES** *(delete as appropriate)*  If YES – then specify start date of previous tender: | | |
| **Contract duration tendered: (5)** | |  | | |
| Price indexation **(if applicable): (6)** | |  | | |
| Are there any restrictions on The Company’s selection of contract duration tendered?: (7) | | **NO / YES** *(delete as appropriate)*  (If YES – then also complete Part 2) | | |
| Can Reactive Power be provided when not providing Active Power?: (8) | | **NO / YES** *(delete as appropriate)*  (If YES – then also complete Part 2) | | |
| Does the Reactive Power capability range tendered below include an Enhanced Reactive Power Service?: (9) | | **NO / YES** *(delete as appropriate)*  (If YES – then also complete Part 3) | | |
| Nominated Registered Capacity (NRC) in MW: (10) | |  | | |
| Tendered Capability Breakpoints & Associated Prices at Commercial Boundary | | | | |
| LEADING | Low Point | | Mid Point | Maximum |
| Leading Capability (Mvar): (11) | **(TQ1lead)** | | **(TQ2lead)** | **(TQ3lead)** |
| **Leading Available Capability Prices (£/Mvarh): (12)** | **(CA1lead)** | | **(CA2lead)** | **(CA3lead)** |
| Leading Synchronised Capability Prices (£/Mvarh): (13) | **(CS1lead)** | | **(CS2lead)** | **(CS3lead)** |
| Leading Utilisation Prices (£/Mvarh): (14) | **(CU1lead)** | | **(CU2lead)** | **(CU3lead)** |
| LAGGING | Low Point | | Mid Point | Maximum |
| Lagging Capability (Mvar): (11) | **(TQ1lag)** | | **(TQ2lag)** | **(TQ3lag)** |
| **Lagging Available Capability Prices (£/Mvarh): (12)** | **(CA1lag)** | | **(CA2lag)** | **(CA3lag)** |
| Lagging Synchronised Capability Prices (£/Mvar/h): (13) | **(CS1lag)** | | **(CS2lag)** | **(CS3lag)** |
| Lagging Utilisation Prices (£/Mvarh): (14) | **(CU1lag)** | | **(CU2lag)** | **(CU3lag)** |

\*Note: superscript numbers (e.g. (12)) refer to guidance in the Invitation to Tender and Guidance Notes for the Completion of Tenders document

**REACTIVE POWER MARKET TENDER SHEET 2**

**PART 2 – TO BE COMPLETED WHERE TENDER EXCEEDS A 12 MONTH DURATION, OR WHERE A TENDERER WISHES TO RESTRICT THE SELECTION OF THE TENDER DURATION, OR WHERE THE TENDERED UNIT CAN PROVIDE REACTIVE POWER WHEN NOT PROVIDING ACTIVE POWER**

Additional Information

|  |  |
| --- | --- |
| **Tendered unit ID: (4)** |  |
| **Specify any restrictions on The Company selecting the contract duration: (15)** |  |
| **Where relevant, specify conditions under which Reactive Power can be provided when not providing Active Power: (16)** |  |

\*Note: superscript numbers (e.g. (15)) refer to guidance in the Invitation To Tender and Guidance Notes for the Completion of Tenders document

**REACTIVE POWER MARKET TENDER SHEET 3a**

**PART 3 – ONLY TO BE COMPLETED BY TENDERERS OFFERING AN ENHANCED REACTIVE POWER SERVICE (ERPS)**

Enhanced Reactive Power Service Tendered Information

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tendered unit ID: (4)** | |  | | | | |
| **Does TQ3lead and/or TQ3lag define a Grid Code Plus Enhanced Reactive Power Service? (17)** | | **NO / YES** *(delete as appropriate)*  If YES – then complete the following information:  **Voltage Range for TQ3lead and/or TQ3lag Capability** | | | | |
| At rated terminal voltage | | **TQ3lead (17)** | | **TQ3lag (17)** |
| **Maximum Voltage (%)** | |  | |  |
| **Minimum Voltage (%)** | |  | |  |
| **Grid Code Plus Enhanced Reactive Power Service Capability at generator stator terminal, for BM Units comprising a SINGLE Generating Unit (at rated terminal voltage)** | | | | | | |
| (18) | MW | | LEAD Mvar | | LAG Mvar | |
| AT RATED |  | |  | |  | |
| AT FULL OUTPUT |  | |  | |  | |
| AT MINIMUM OUTPUT |  | |  | |  | |
| **Grid Code Plus Enhanced Reactive Power Service Capability at generator stator terminal, for BM Units comprising several SEPARATE Generating Units**  **(at rated terminal voltage) (19)** | | | | | | |
| UNIT NO: | MW | | LEAD Mvar | | LAG Mvar | |
| AT RATED |  | |  | |  | |
| AT FULL OUTPUT |  | |  | |  | |
| AT MINIMUM OUTPUT |  | |  | |  | |
| UNIT NO: | MW | | LEAD Mvar | | LAG Mvar | |
| AT RATED |  | |  | |  | |
| AT FULL OUTPUT |  | |  | |  | |
| AT MINIMUM OUTPUT |  | |  | |  | |
| UNIT NO: | MW | | LEAD Mvar | | LAG Mvar | |
| AT RATED |  | |  | |  | |
| AT FULL OUTPUT |  | |  | |  | |
| AT MINIMUM OUTPUT |  | |  | |  | |
| UNIT NO: | MW | | LEAD Mvar | | LAG Mvar | |
| AT RATED |  | |  | |  | |
| AT FULL OUTPUT |  | |  | |  | |
| AT MINIMUM OUTPUT |  | |  | |  | |

\*Note: superscript numbers (e.g. (15)) refer to guidance in the Invitation to Tender and Guidance Notes for the Completion of Tenders document

**REACTIVE POWER MARKET TENDER SHEET 3b**

**PART 3 (continued) – ONLY TO BE COMPLETED BY TENDERERS OFFERING AN ENHANCED REACTIVE POWER SERVICE (ERPS)**

Enhanced Reactive Power Service Additional Information

|  |  |
| --- | --- |
| **Tendered unit ID: (4)** |  |
| **Are there any other additional services offered as part of an Enhanced Reactive Power Service?: (20)** | **NO / YES** *(delete as appropriate)*  If YES – then specify below: |
| **Are there any restrictions on The Company selecting part of the Enhanced Reactive Power Service?: (21)** | **NO / YES** *(delete as appropriate)*  If YES – then specify below: |

\*Note: superscript numbers (e.g. (20)) refer to guidance in the Invitation to Tender and Guidance Notes for the Completion of Tenders document

**REACTIVE POWER MARKET TENDER SHEET 3c**

**PART 3 (continued) – ONLY TO BE COMPLETED BY TENDERERS OFFERING AN ENHANCED REACTIVE POWER SERVICE (ERPS)**

Enhanced Reactive Power Service Information

|  |  |  |  |
| --- | --- | --- | --- |
| **Tendered unit ID: (4)** |  | | |
| **What ambient air temperature does the Enhanced Reactive Power Service apply to?: (22)** | ***(oC)*** | | |
| **Please supply details of the tendered Enhanced Reactive Power Service Capability at the Commercial Boundary at the Nominated Registered Capacity (at rated stator terminal and nominal system voltage) at the ambient air temperatures shown:** | **(23)** | **LEAD (Mvar)** | **LAG (Mvar)** |
| **-10oC** |  |  |
| **0oC** |  |  |
| **+10oC** |  |  |
| **+20oC** |  |  |
| **+30oC** |  |  |
| **+40oC** |  |  |
| **Are there any other factors (technical or otherwise) restricting or modifying the Enhanced Reactive Power Service tendered?: (24)** | **NO / YES** *(delete as appropriate)*  If YES – then specify below: | | |

\*Note: superscript numbers (e.g. (23)) refer to guidance in the Invitation to Tender and Guidance Notes for the Completion of Tenders document

**CERTIFICATE OF BONA-FIDE TENDER AND OF NON-CANVASSING**

**NATIONAL GRID ELECTRICITY SYSTEM OPERATOR LTD**

**OBLIGATORY AND ENHANCED REACTIVE**

**POWER SERVICES (“the Service”)**

To: National Grid Electricity System Operator Ltd (“The Company”)

The essence of selective tendering is that The Company shall receive bona fide competitive tenders from all parties tendering. In recognition of this principle:

I/WE certify that this is a bona fide tender, intended to be competitive and that I/WE have not fixed or adjusted the amount of the tender or the rates and prices quoted by or under or in accordance with any agreement or arrangement with any other person.

I/WE also certify that I/WE have not done and undertake that I/WE will not do at any time any of the following acts:-

(a) communicate to a person other than our professional advisers and The Company the amount or approximate amount of my/our proposed tender (other than in confidence in order to obtain quotations necessary for the preparation of the tender for insurance); or

(b) enter into any agreement or arrangement with any other person to restrain that other person from tendering or to fix the amount of any tender to be submitted by that other person;

(c) offer or agree to pay or to give, nor pay or give, any sum of money, inducement or valuable consideration directly or indirectly to any person for doing or having done or causing or having caused to be done any act or omission in relation to this or to any other tender or proposed tender for the Service.

In addition, I/WE hereby certify that I/WE have not canvassed or solicited any officer, employee or agent of The Company in connection with the award of this tender or any other tender or proposed tender for the Service and that no person employed by me/us or acting on my/our behalf has done any such act.

I/WE further hereby undertake that I/WE will not in the future canvass or solicit any officer employee or agent of The Company in connection with the award of this tender or any other tender or proposed tender for the Service and that no person employed by me/us acting on my/our behalf will do any such act.

Without limiting the foregoing I/We further undertake to comply with any applicable laws, statutes, regulations and codes relating to anti-bribery and anti-corruption including the Bribery Act and not to engage in any activity, practice or conduct which would constitute an offence under sections 1, 2 or 6 of the Bribery Act.

Signed: .........................................

Name: ......................................... (BLOCK CAPITALS)

Designation: .........................................

(For and on behalf of: .....................................................)[Tenderer]

Date: ........................................