Transmission Constraint Management Requirement Notice: Invitation to Tender Pack, Letter 2 Haarith Dhorat Account Manager

haarith.dhorat@nationalgrid.com Direct tel: +44 (0)1926 655220 Direct fax: +44 (0)1926 656613 www.nationalgrid.com

To All Service Providers

3 April 2017 Issue 1

Dear Service Provider

TRANSMISSION CONSTRAINT MANAGEMENT REQUIREMENT NOTICE - TCMRN/01/17

The following Transmission Constraint Management Requirement was identified by National Grid Electricity Transmission ("National Grid") to manage forecast constraint costs and volumes, arising from asset health, planned outages and forecast system conditions. National Grid therefore, sought to procure constraint management services in order to economically and efficiently manage this potential constraint.

Constraint Requirement

Zonal Requirement:	South Coast			
Potential Service Providers:	Seabank / Marchwood / Didcot			
Additional Notes:	We require prices for the following options. Option 1 - where at the time of the instruction, PN < SEL in EFA block 6 and EFA block 3. Option 2 - where at the time of the instruction, PN >= SEL in EFA block 6 or where at the time of the instruction PN >= SEL in EFA block 3. Option 3 - where at the time of the instruction, PN >= SEL in EFA block 6 and			
	EFA block 3.			
Estimated volume required:	1 Unit			

For a full description of the service, please refer to 'Letter 1' below.

Assessment and Results

We would like to thank those who have taken the time to participate in this tender round. Tenders were received on behalf of Marchwood and Seabank. These offers are summarised in Appendix One to this letter. Following economic assessment of the tendered offers we would like to take forward services with Marchwood and Seabank Unit 1 – as highlighted in Appendix One.

Further Information

For further information and a more detailed explanation of the procurement process for the above or similar requirements, please contact your Balancing Services Account Manager.

Yours faithfully

Haarith Dhorat Account Manager

Appendix One

BMU ID	Strike Price (£/MWh)	MW Level (SEL)	MVAr Range Lead:Lag	Comments	Accepted/Rejected
T_MRWD-1	35.56	230	351:400	Option 1	Accepted
T_MRWD-1	24.4	230	351:400	Option 2	Accepted
T_MRWD-1	13.25	230	351:400	Option 3	Accepted
T_SEAB-1*	35.56	500	422:476	Option 1	Accepted
T_SEAB-1*	24.4	500	422:476	Option 2	Accepted
T_SEAB-1*	13.25	500	422:476	Option 3	Accepted
T_SEAB-2	34.38	385	187:173	Option 1	Rejected
T_SEAB-2	22.54	385	187:173	Option 2	Rejected
T_SEAB-2	10.71	385	187:173	Option 3	Rejected

*Please note, the previous results file contained the incorrect SEL and MVAR Range for SEAB-1

Transmission Constraint Management Requirement Notice: Invitation to Tender Pack, Letter 1 Haarith Dhorat Account Manager

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To All Service Providers

22 March 2017 Issue 1

Dear Service Provider

TRANSMISSION CONSTRAINT MANAGEMENT REQUIREMENT NOTICE - TCMRN/01/17

The following Transmission Constraint Management Requirement has been identified by National Grid Electricity Transmission ("National Grid") to manage forecast constraint costs and volumes, arising from asset health, planned outages and forecast system conditions. National Grid is therefore, seeking to procure constraint management services in order to economically and efficiently manage a potential constraint.

Index Price Only

Given the current uncertainty around plant running, National Grid is not looking to procure contracts for this requirement on a fixed price basis. We are inviting tenders based on an index price only as detailed below. Please note the below requirement is for a voltage only service at minimum output.

Constraint Requirement

Zonal Requirement:	South Coast				
Potential Service Providers:	Seabank / Marchwood / Didcot				
Additional Notes:	The default mechanism will continue to be used for the payment of MVarh				
Estimated volume required:	1 Unit				

Service providers are requested to provide prices for the following service: **Spread index linked**

Service description:	: Voltage Only			
Service Type:	Option price without availability component			
Term:	From: 14 APR 2017 (23:00) To: 11 SEP 2017 (07:00)			
Extension:	NG option for up to additional 1 month			
Period:	Overnight, 23:00 – 07:00 daily			
Payment Rate:	On days when National Grid enacts the option, National Grid payout to unit based on the difference between the day ahead spark/dark spread and pre- agreed strike price (SP) for the contracted period, as detailed in the Voltage Constraint Formula document.			

Notice:	10:00 within day for 23:00 same night
Additional notes:	We require prices for the following options. Option 1 - where at the time of the instruction, PN < SEL in EFA block 6 and EFA block 3. Option 2 - where at the time of the instruction, PN >= SEL in EFA block 6 or where at the time of the instruction PN >= SEL in EFA block 3. Option 3 - where at the time of the instruction, PN >= SEL in EFA block 6 and EFA block 3.

Please note that the above service is based on historic information and any service provider may offer an alternative if it is felt it may meet the requirement. Any new service offer, including prices, will be published as detailed below.

These requirements are National Grid's current best view based on OC2 generation availability, demand estimates, asset condition and forecast market conditions. However, if in National Grid's view the drivers change significantly then National Grid reserves the right to amend or withdraw these requirements. Where appropriate National Grid may republish the tender requirements and revise the relevant timescales accordingly.

Timescales

The timescales for this particular process are as follows:

Business Day 1, 17:00	Wednesday 22 March 2017	Requirement published
Business Day 6, 17:00	Wednesday 29 March 2017	Submission of prices & services
Business Day 9, 17:00	Monday 3 April 2017	Outcome published
Business Day 15, 17:00	Tuesday 11 April 2017	Contract in place
Business Day 18, 23:00	Friday 14 April 2017	Service commencement

Submission of Service and Price Offers

Should a service provider wish to submit service and price offers for these constraint management requirements, these should be submitted to Haarith Dhorat <u>and</u> the email address: <u>commercial.operation@nationalgrid.com</u> in accordance with the timescales above.

This process is not governed by National Grid standard contract terms, therefore the electronic submission of such offers are acceptable providing the above timescales are complied with.

A template for submissions is provided in Excel format on the constraint management website. Please use this Tender Sheet for your offer submission.

If there are any technical limitations on your stations ability to deliver this service, please ensure these are included in the tender for consideration in the assessment.

Publication of Information

National Grid shall publish and / or announce details of the information submitted for the provision of constraint management from any service provider, and the service provider is required to consent to the disclosure by National Grid of any such information. To this end, National Grid cannot accept an offer from any potential service provider unless they consent to the disclosure of such information.

Further Information

For further information and a more detailed explanation of the procurement process for the above or similar requirements, please contact your Balancing Services Account Manager.

Yours faithfully

Haarith Dhorat Account Manager

APPENDIX 1 - GAS

Contract Fee

The Contract Fee for each Service Period shall be determined as follows:-

Contract Fee (CF) = $(Max (0, SP - CSS_{d})) * SEL * H_{d}$					
Where:					
CF	=	the Contract Fee for the relevant Service Period.			
SP	=	the Strike Price, being [] £/MWh			
CSS_{d}	=	for Service Periods expiring in calendar day d, the day ahead Clean Spark Spread			
	Clean	ean Spark Spread =		GBPP – Gas Cost – Carbon Cost	
		Where:			
		Gas Cost	=	(Day Ahead NBP/ Gas Conversion Factor * 10)/ Gas Efficiency Constant	
		Carbon Cost	=	(Dec 2017EUA + CPS) * Gas Carbon Intensity	
	And w	nd where:			
	GBPP Day Ahead NBP Dec 2017EUA		=	a mean average across each Settlement Period throughout the Service Period of the clearing prices for those Settlement Periods published by APX following the day ahead auction on calendar day d-1, quoted as £/MWh	
			=	the Day Ahead Gas Index as published by Heren on calendar day d-1 (or, where this is not a Working Day , on the immediately preceding Working Day) or, where the Working Day immediately preceding calendar day d is a Friday, the Heren Weekend Gas Index published on that day, quoted as pence/therm	
			=	the European Union Allowance price (expressed in €/tonne) for December of the relevant year published by the Intercontinental Exchange as the 'Settle Price' within the end of day report for contract C-EUA and dated the Day in which the Settlement Period falls or, if no report is published for that Day, the report published most recently prior to that Day, converted to £/tonne at the Euro to Sterling daily spot exchange rate for that Day published by the Bank of England.	
	CPS		=	UK carbon price support being £18.00/tonne from 1 st April 2017	
	Gas C	arbon Intensity	=	0.41	

Gas Efficiency Constant = 0.49



Gas Conversion Factor = 29.3071

- SEL = the Contracted SEL
- H_d = the number of hours comprised in the relevant **Service Period** excluding periods of deemed unavailability pursuant to Sub-Clause 3.3.3 and any **Settlement Periods** in respect of which the **Generator** fails to comply with any of its obligations hereunder as referred to in Sub-Clause 3.5.2.

Euro GBP conversion = daily spot rate as published by the Bank of England.

APPENDIX 1 - COAL

Contract Fee

The Contract Fee for each Service Period shall be determined as follows:-

Contract Fee (CF) = $(Max (0, SP - CDS_{d})) * CO * H_{d}$					
Where:					
CF	=	the Contract Fee for the relevant Service Period.			
SP	=	the Strike Price, being [] £/MWh			
CDS_{d}	=	for Service Periods expiring in calendar day d, the day ahead Clean Dark Spread			
	Clean	Dark Spread	=	GBPP – Coal Cost – Carbon Cost	
		Where:			
		Coal Cost	=	(Front Month API2/ Coal Conversion Factor) / Coal Efficiency Constant	
		Carbon Cost	=	(Dec 2017EUA + CPS) * Coal Carbon Intensity	
	And w	And where:			
	GBPP=Front Month API2=Dec 2017EUA=		=	a mean average across each Settlement Period throughout the Service Period of the clearing prices for those Settlement Periods published by APX following the day ahead auction on calendar day d-1, quoted as £/MWh	
			=	the coal All Published Index number 2 closing price for the following calendar month as published by Bloomberg on calendar day d-1 (or, where this not a Working Day, on the immediately preceding Working Day), converted to £/ton	
			=	the European Union Allowance price (expressed in €/tonne) for December of the relevant year published by the Intercontinental Exchange as the 'Settle Price' within the end of day report for contract C-EUA and dated the Day in which the Settlement Period falls or, if no report is published for that Day, the report published most recently prior to that Day, converted to £/tonne at the Euro to Sterling daily spot exchange rate for that Day published by the Bank of England.	
	CPS		=	UK carbon price support being £18.00/tonne from 1 st April 2017	
	Coal Carbon Intensity =		=	0.94	
	Coal Efficiency Constant=			0.36	
				0.07	

Coal Conversion Factor = 6.97

CO = the Contracted Output

H_d = the number of hours comprised in the relevant **Service Period** excluding periods of deemed unavailability pursuant to Sub-Clause 3.3.3 and any **Settlement Periods** in respect of which the **Generator** fails to comply with any of its obligations hereunder as referred to in Sub-Clause 3.5.2.

Euro GBP conversion = daily spot rate as published by the Bank of England.