

DATED

202[]

NATIONAL GRID ELECTRICITY SYSTEM OPERATOR LIMITED

and

[AR CONTRACTOR NAME]

ANCHOR PLANT CAPABILITY (TRANSMISSION)

at

[Site name]

Contract Log No: [National Grid to provide]

Subject to Contract

Draft v.1.0

CONTRACT FORM

Parties:

NATIONAL GRID ELECTRICITY SYSTEM OPERATOR LIMITED, a company registered in England with number 11014226 whose registered office is at 1-3 Strand, London, WC2N 5EH ("**NGESO**"); and

[], a company registered in [] with number [Company number] whose registered office is at [registered office] ("**AR Contractor**").

Background:

NGESO issued an Invitation to Tender ("**ITT**") for the provision of Electricity System Restoration Services [in the Northern region] on [].

The AR Contractor is the owner of the Anchor Plant and has been awarded a contract to provide Anchor Plant Capability in accordance with the ITT.

This form ("**Contract Form**") together with the document titled the "Service Terms & Conditions for the Provision of Anchor Plant Capability (Transmission)" ("**Service Terms & Conditions**") attached (including the annexes and schedules thereto) shall form the entire agreement between NGESO and the AR Contractor regarding the provision of Anchor Plant Capability.

Words and expressions used in this Contract Form and not defined herein shall have the meanings ascribed to them in the Service Terms and Conditions.

Part 1 – Conditions Precedent

The AR Contractor shall use its reasonable endeavours to ensure that each of the following conditions precedent are satisfied by not later than [] (the "**Final Consent Date**"):

- | |
|---|
| A. [The AR Contractor obtaining all necessary Consents for commencing the Works]. |
| B. [Delivery to NGESO of a Project Plan]; |
| C. [The AR Contractor entering into a construction agreement for the Works with its contractor]. |
| D. [The variation of the Balancing and Ancillary Services Agreement] ¹ |
| E. [The AR Contractor has entered into an agreement for the supply of electricity required for the purposes of providing Anchor Plant Capability] |
| F. [Delivery by the AR Provider to NGESO of evidence to NGESO's satisfaction of its ability to deliver Acceptable Security for an amount equal to the Security Amount ²]. |

¹ Interconnectors only

² If required by the tender rules.

Part 2 - Works

- A) Scope of Works: [] [No works other than a Commissioning Assessment required]
- B) Scheduled Commercial Operations Date: []

Part 3 - Works Contribution Payment

A) External Costs

	Party/Contractor	Description of Cost	Maximum Amount
1.			
2.			
3.			

B) External Costs Cap

The maximum amount reimbursable in respect of **External Costs** is £[].

C) Internal Costs

	Party/Contractor	Description of Cost	Maximum Amount
1.			
2.			
3.			

D) Internal Costs Cap

The maximum amount reimbursable in respect of **Internal Costs** is £ [].

E) **Works Contribution Period:** [] months

Part 4 – Security

[Clause 4.9 applies and the Guarantor's Minimum NAV is []³ /Clause 4.10 applies and the Guarantor Minimum Credit Rating is []]

³ Applicable where a PCG is the selected form of security. Delete the option that does not apply

Part 5 –Contracted Anchor Requirements

Auxiliary Unit(s)	Technology Type(s)	Reference(s) / Id(s)	Description
	[]	[]	Example: 7 Gas Reciprocating Engines, XXMW p/Unit

Requirement	Contracted Value	Description
Auxiliary Unit(s)	[]MW	Contracted Auxiliary Generation. Examples: Diesel Gen, small OCGT, Gas Reciprocating Engine(s).
Number of contracted main units	[] Unit(s) & Id(s)	Unit or units contracted for the provision of Anchor Plant Capability.
Contracted Power	[] MW	Contracted power for the service and information on how that can be delivered (Example: if two units are needed that will mean that if only one is available at a given point in time the service will be unavailable or depleted).
Time to Connect	[] hours	Time taken to start-up the Contracted Anchor Plant from shutdown without the use of external power supplies, and to energise part of the network, within two hours of receiving an instruction.
Service Availability	[]%	The ability to deliver Anchor Plant Capability over 80% of a year. Note: It is the responsibility of the AR Contractor to demonstrate its service availability. By submitting a tender, the AR Contractor commits to ensuring availability at least 80% in each year of the service.
Voltage Regulation	Un+10% - Un-10% [] kV – [] kV	Ability to create a voltage source and remain connected within acceptable limits during energisation/block loading ($\pm 10\%$).
Frequency Regulation	Existent 47.5-52Hz	Ability to manage frequency level when block loading (47.5Hz – 52Hz).
Resilience of Supply, Restoration Service	[] hours	When instructed, the minimum time the Contracted Anchor Plant will deliver the contracted service.
Resilience of Supply, Auxiliary Unit(s)	[] hours	Run continuously at the output required to support / deliver the contracted restoration Service
Reactive Capability	[] MVar	Ability to energise part of the network, managing Voltage with Leading or lagging capability whilst active power is zero.

Requirement	Contracted Value	Description
Sequential Restoration attempts	[] start-ups	Ability to perform at least three sequential start-ups.
Short-circuit level (SCL) (Following the start of a system disturbance)	$t \leq 80\text{ms}$, [] kA $t > 80\text{ms}$, [] kA	For $t \leq 80\text{ms}$: $I \geq 240 \text{ [MVA]} \sqrt{3 \cdot U} \text{ [kA]}$ For $t > 80\text{ms}$: $I \geq 100 \text{ [MVA]} \sqrt{3 \cdot U} \text{ [kA]}$ $U \equiv$ connection voltage [kV]
Inertia Value	[] MVA.s	Stored energy available in the Contracted Anchor Plant for immediate release in response to changes in power levels and thereby helping to maintain frequency and voltage on the power island within acceptable bounds. (This can be real, physical inertia as in a rotating machine, or virtual inertia as in converter-connected resources with suitable control).
Minimum Stable Operating Level	[] MW	The minimum load the Contracted Anchor Plant will have to go up to as quickly as possible to enable a stable operation.
Block Loading Size	[] MW	Ability to accept instantaneous loading of demand blocks.
Initial Block Load	[] MW	To reflect any specific requirements the Contracted Anchor Plant might have around sizes of load blocks.
Maximum Block Load	[] MW	Normally aligned with the (contracted) block loading size but the Contracted Anchor Plant might be able to accommodate larger blocks.
Hold Points	(variable)	If applicable, any necessary hold points when progressing with the start-up of the Unit/Service (Example: remain 15 minutes at 150MW to allow the Steam Turbine to join the power island created by the Gas Turbine).
Time Between Blocks	[] min	Time needed between blocks of load.
Interim power output levels (MW):	[] MW within ½ hour of Connection Event [] MW within 1 hour of Connection Event [] MW within 1½ of Connection Event	

Part 6 – Availability Price

£[]/Settlement Period

Part 7 – Target Availability

<u>Availability Assessment Period:</u>	<u>Target Availability for Availability Assessment Period y (A_y):</u>	<u>Scheduled maintenance days in Availability Assessment Period y:</u>

Part 8 – Notices

A) NGESO's address for service of Notices:

National Grid Electricity System Operator Limited

Faraday House

Warwick Technology Park

Gallows Hill

Warwick CV34 6DA

Email:

[]

For the attention of:

[]

Commercial contact

[]

B) The AR Contractor's address for service of Notices:

[Company name]

[Company Address]

Email: []

For the attention of: []

Operational telephone contact number []

Operational contact []

Part 9 – Senior Representatives (Disputes)

NGESO: []

AR Contractor: []

Part 10 - Special Conditions

The following provisions shall supplement and, where inconsistent with the Service Terms & Conditions, apply in place of the relevant provision of the Service Terms & Conditions⁴.

Signed for and on behalf of NATIONAL GRID ELECTRICITY SYSTEM OPERATOR LIMITED by: []	
Dated:	
Signed for and on behalf of [AR CONTRACTOR] by []:	
Dated:	

⁴ This is intended to reflect technical differences between different plant types.