DS3 System Services Volume Uncapped Gate 7
Bidders' Information Session

Wednesday 29th June 2022 10:00 - 11:30

Please keep mic muted Please keep video off

*6 on conference line is to mute / unmute
Raise queries during webinar to DS3@EirGrid.com



Agenda

Topic	Speaker
Introduction	Anna Pocock
Procurement Process Overview	Anna Pocock
Q&A	Attendees
Tender Pack and Technical Questionnaire	Paul Stanley
Q&A	Attendees
Testing and Signalling Requirements	Eduardo Galeazzo
Q&A	Attendees
Closing Comments	Anna Pocock
Webinar Ended	-



Introduction

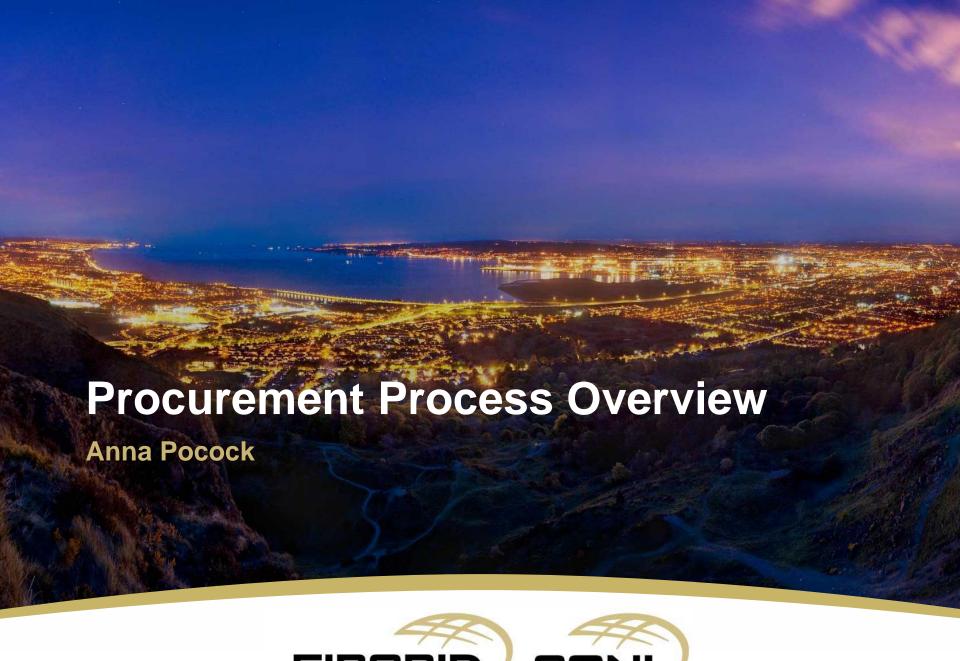
- Post webinar, queries can be emailed in the clarification template to Anna.Pocock@Eirgrid.com and tenders@eirgrid.com:
 - Closing date for receipt of queries is 12 noon on 1st July 2022.
- The presentation slides will be made available on eTenders and on the EirGrid and SONI websites.



Future Gates

Gate No	Indicative Contract Execution Date				
7	October 2022				
8	April 2023				
9	October 2023				







Qualification System

- Qualification System refers to the system that is in place to enable interested parties to submit a Response and subsequently qualify for award of Contract for provision of DS3 System Services (under Volume Uncapped Arrangements).
- Qualification System will last until April 2024, with the option to extend at the Contracting Entities' discretion and subject to Regulatory Authority approval (1 extension of up to 18 months). This is pursuant to SEM Committee decision paper (SEM 21-021).
- > 14 System Services in total are being procured as part of the Qualification System, over 28 lots (14 for EirGrid and 14 for SONI). The remaining 2 services, DRR and FPFAPR, may be added at a future procurement gate of the Qualification System.
- > 12 services have been procured to date in accordance with Phase 1 and Phase 2 in 2018, Gate 1 in September 2019, Gate 2 in April 2020, Gate 3 in October 2020, Gate 4 in April 2021, Gate 4B in July 2021, Gate 5 in October 2021 and Gate 6 April 2022.



Gate Process

- Gate Process refers to the period after the initial procurement Phases 1 and 2 whereby Tenderers may apply for a place on the Qualification System at any time.
- New applicants may submit a completed Response for a place on the Qualification System at any time.
- ➤ It is intended that specific contracts will be awarded every six months these periods are referred to as Gate Dates. EirGrid will issue periodic notices on the OJEU / EirGrid websites outlining the requirements and timeframes involved. Indicative dates are contained in the briefing document.
- Exception to the 6-month process is Gate 4-B.



DS3 System Services Agreement

- This procurement is being run by EirGrid on behalf of both EirGrid and SONI for their respective DS3 System Services Agreement.
- A separate DS3 System Services Agreement is in place for:
 - EirGrid (as contracting entity for the DS3 System Services Agreement applicable to Ireland) and
 - SONI (as contracting entity for the DS3 System Services Agreement applicable to Northern Ireland).
- Existing holders of an agreement will receive an amended Schedule 9; new parties to the Qualification System will receive an agreement dated 1st October 2022.



Gate 7

- OJEU Notice (2022/S 118-333983) published on 16th June 2022
 - ENQEIR800 DS3 System Services Volume Uncapped Gate 7
- Two stages in this procurement process (submitted together):
 - Pre-Qualification; and
 - Tender
- Lots
 - Lots 1-12 IE
 - Lots 1-12 NI
- Documents available on eTenders <u>www.etenders.gov.ie</u>



Gate 7

- Gate 7 applies to 3 scenarios:
 - Providing Unit that is not currently contracted for the provision of any System Service and wishes to tender for one, some or all services;

Tenderer will receive a new agreement

 Providing Unit intends to amend its contracted values for a service that it currently provides (this may be enhancing or reducing its capability);

Tenderer will receive an amended Schedule 9

- 3) Providing Unit that is contracted for the provision of one or more services and wishes to tender for additional services.
- Providing Units that do not wish to amend their existing provision of a particular service must <u>not</u> submit a tender for the respective Lot.



Gate 7 Lot Numbers – EirGrid

	Existing Services									
POR L1IE	Primary Operating Reserve	SSRP L7IE	Steady State Reactive Power							
SOR L2IE	Secondary Operating Reserve	SIR L8IE	Synchronous Inertial Response							
TOR1 L3IE	Tertiary 1 Operating Reserve	RM1 L9IE	Ramping Margin 1 Hour							
TOR2 L4IE	Tertiary 2 Operating Reserve	RM3 L10IE	Ramping Margin 3 Hour							
RRD L5IE	Replacement Reserve (De-Synchronised)	RM8 L11IE	Ramping Margin 8 Hour							
RRS L6IE	Replacement Reserve (Synchronised)	FFR L12IE	Fast Frequency Response							



Gate 7 Lot Numbers – SONI

	Existing Services									
POR L1NI	Primary Operating Reserve	SSRP L7NI	Steady State Reactive Power							
SOR L2NI	Secondary Operating Reserve	SIR L8NI	Synchronous Inertial Response							
TOR1 L3NI	Tertiary 1 Operating Reserve	RM1 L9NI	Ramping Margin 1 Hour							
TOR2 L4NI	Tertiary 2 Operating Reserve	RM3 L10NI	Ramping Margin 3 Hour							
RRD L5NI	Replacement Reserve (De-Synchronised)	RM8 L11NI	Ramping Margin 8 Hour							
RRS L6NI	Replacement Reserve (Synchronised)	FFR L12NI	Fast Frequency Response							



Tender Response

- Tenderers must submit a separate standalone tender for each and every Providing Unit.
- Note: A Tenderer may have more than one Providing Unit.
- Tenders should be split into two constituent parts (submitted at the same time):
 - A pre-qualification section; and
 - A tender section.
- Tenderers' response for each Providing Unit should consist of:
 - Part 2 of the Qualification System Briefing Document, including Forms 1, 2 and 3;
 and
 - A Completed **Technical Questionnaire** sheet for each Lot they are submitting for (must be completed in Excel).



Tender Evaluation

- All Responses will be evaluated, on a lot by lot basis and Providing Unit by Providing Unit basis, against the qualification and award criteria outlined in the tender pack.
- Tender evaluation:
 - against the Pass / Fail pre-qualification minimum requirements for the lot concerned; and
 - against the award criteria for compliance in line with the technical requirements for the lot concerned.
- As the payment rate (tariff) for each System Service will be fixed, Responses will be assessed under the award criteria based upon quality (technical compliance) only.



Tender Queries

Queries Arising from this Webinar

- We will verbally answer some queries received via Q&A today.
- Formal response will issue to all Tenderers which may supersede information provided today.
- We request Tenderers to formally submit queries via email.

General Queries

- Submit by email.
- In Clarification Template.
- Not later than 12:00 noon Irish Time on 1st July 2022.
- Addressed to: Anna Pocock at <u>anna.pocock@eirgrid.com</u> and <u>tenders@eirgrid.com</u>
- EirGrid will respond to all queries by 8th July 2022.



Submission of Tenders

- Interested Tenderers must submit a tender response through the eTenders portal in respect of the relevant Lot.
- Tender box close time 12 noon, Irish Time, on Wednesday 20th July 2022 eTenders will not allow upload after this time.
- The Tenderer is fully responsible for the timely delivery of the tender.



Tender Timetable

Event	Date
Deadline for Submission of Queries	No later than 12:00 hrs (Irish Time) on 1st July 2022
EirGrid and SONI to Respond to Queries	By close of business on (Irish Time) on 8 th July 2022
Deadline for Submission of Tenders	No later than 12:00 hrs (Irish Time) on 20th July 2022
Notification of Successful Tenderers	5 th September 2022 (Indicative)
Standstill Period	14 days from Notification Date
Contract Commencement	1 st October 2022



Procurement Process Overview

Q & A

TSOs will provide a verbal response to queries received during the webinar.

All queries will receive a written response following the webinar.







Contractual Arrangements

Scenario 1 – agreement is dated 1 October 2022

Scenario 2 & 3 – amended Schedule 9 via Side Letter DS3 System
Services
Agreement

- Standard contractual provisions
- Term
- Schedules for 14 DS3 System Services
- Scaling Factor details
 - Product Scalars
 - Locational Scalar

Clause 15.1 –
Changed from
Counterparts to
Electronic Signature
clause

Protocol Document

- Operational Requirements
- Performance Scalar Details
- Performance Monitoring Methods and infrastructure requirements
- Temporal Scarcity Scalar values
- Governance

Version 3 – Effective 1 October 2020

Statement of Payments

• DS3 System Service Payment rates



DS3 System Services Tariffs

Per SEM Committee decision (21-089) tariffs for FFR-TOR2 reduced by 10% from 1st January 2022

Service	Service Name	Unit	Payment Rate (€)
SIR	Synchronous Inertial Response	MWs ² h	0.0050
FFR	Fast Frequency Response	MWh	1.94
POR	Primary Operating Reserve	MWh	2.92
SOR	Secondary Operating Reserve	MWh	1.76
TOR1	Tertiary 1 Operating Reserve	MWh	1.40
TOR2	Tertiary 2 Operating Reserve	MWh	1.12
RRD	Replacement Reserve (De-Synchronised)	MWh	0.56
RRS	Replacement Reserve (Synchronised)	MWh	0.25
RM1	Ramping Margin 1 Hour	MWh	0.12
RM3	Ramping Margin 3 Hour	MWh	0.18
RM8	Ramping Margin 8 Hour	MWh	0.16
SSRP	Steady State Reactive Power		0.23
DRR	Dynamic Reactive Response	MWh	0.04
FPFAPR	Fast Post Fault Active Power Recovery	MWh	0.15



Service Maximum Capability Volumes

Briefing Document Section 1.6.4 – maximum capability volumes to apply per service.

Service	Max Volume - Normal Operation	Max Volume - Requested by TSO
FFR	75 MW	100 MW
POR	75 MW	100 MW
SOR	75 MW	100 MW
TOR1	75 MW	100 MW
TOR2	75 MW	100 MW
RRD	300 MW	N/A
RRS	300 MW	N/A
RM1	450 MW	N/A
RM3	500 MW	N/A
RM8	500 MW	N/A
SSRP	400 Mvar	N/A
SIR	120,000 MWs ²	N/A



Technical Questionnaire

- Excel document that is used to determine a unit's technical capability to provide a service
- Technical Questionnaire contains:
 - General Guidance sheet
 - Reserve Characteristic and PQ Capability sheets
 - System Services Site Info sheet for aggregated Providing Units
 - Individual sheets for each Lot (24 in total)

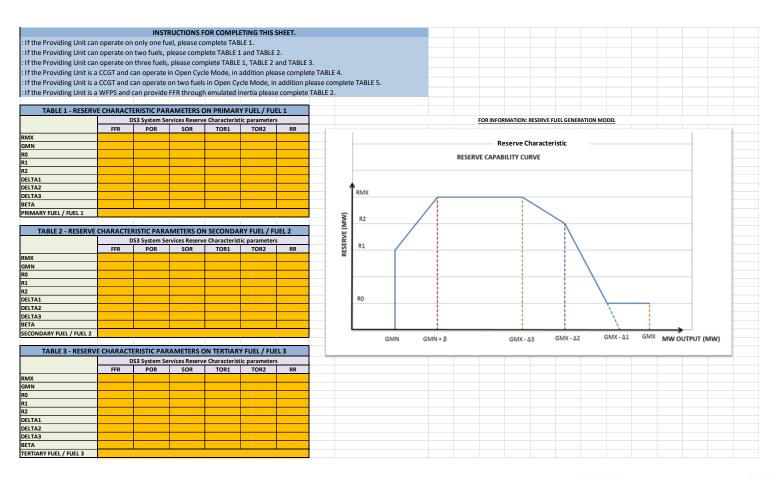


Technical Q - Guidance Sheet

	Section A is Pass/Fail for a	II I						
The following information is to assist Tenderers in completing the questionnaire appropriately.		Providing Units.	1					
: Tenderers must complete the relevant questionnaires for each lot being tendered for as outlined below.		Providing Units.	l l					
Where additional information is required please input a cross reference number from the tender submission document.								
: SECTION A in each lot must be completed by a Tenderer that wishes to contract for that lot. This is a PASS/F (acctionnaire, It will be at EirGrid's sole discretion to request clarification on any technical information provided and subsequent decide whether the technical response is sufficient to achieve a Pass for that requirement. A Tenderer that fails on any one question will be disqualified.								
: SECTION B (Applicable for Distribution Connected Providing Units only) in each lot must be completed by a on any technical information provided and subsequently decide whether the technical response is sufficient to					Section B is Pass/Fail for			
: SECTION C in each lot is for information purposes. However, unless otherwise stated in Section A, it must l			•		Distribution Connected			
: Where relevant, a Tenderer should provide details of the Providing Unit as it is registered in the SEM e.g. in			-	o units, each				
: Tenderers should complete all orange cells. If not applicable please indicate N/A. In some instances this is	part of a drop dow	Yn me	ienu.		Providing Units.			
FOR COMPLETION BY TENDERER								
Service Provider								
Providing Unit								
					Section C is for information	on but		
ID in SEM (if applicable)					must be completed as sp	ecified		
If the Providing Unit is	If the Tenderer re	replies	s NO (i.e. does not give permission for the TSO to	share this info	mast be completed as sp	cerrica.		
All Providing Units must	DSO/DNO (as appliaddress (as appliaddress) EirGrid Contract:	pplical	ete Section(s) A of the Procurement Questionnaire able) by 20th July 2022. This information may be : le): \$0-connected Tenderers) submissions to;					
complete this sheet, including the Lots being tendered for.	Killian Morgan ESB Networks Le Leopardstown Ro Fozrock Dublin D18 XN80	}d `	rdstown		For Distribution Connect Providing Units, TSO will			
does not wish the TSO to share information relevant to DSO/DNO approvals with the	Electronic submi: 20th July 2022.		a; Submission via email is also acceptable. A signe	d copy should b	relevant information with			
DSO/DNO, Tenderer must respond NO. If Tenderer agrees for relevant information to be shared with	SONI Contracts (SONI Contracts (DNO-connected Tenderers) submissions to:			DSO/DNO if tenderer pe	mits.		
the DNO/DSO, Tenderer must respond YES.	MIE Networks Ltd Cara Industrial E. Portadowa Co. Armagh BT63 5QJ		¢					
	Electronic submis than 20th July 20		a; Submission via email is also acceptable. A signe	d copy should b	e sent to David.Hill@nienetworks.co.uk no later			
PLEASE COMPLETE THE FOLLOWING GUIDANCE TABLE AS APPROPRIATE: THIS IS TO ASSIST THE TENDERER TO COMPLETE A SUCCESSFUL TENDER AND TO ALLOW THE TSO TO ASSESS THE INFORMATION FOR COMPLIA								
IRELAND		П		NORTHERI	N IRFI AND			
II Habi IIII	CONFIRMATION			i i i i i i i i i i i i i i i i i i i		CONFIRMATION		
LOT1(IE) POR ARE YOU APPLYING FOR THIS LOT?		LO.	OTTI(NI) POR ARE YOU APPLYING FOR	RTHIS LOT?				

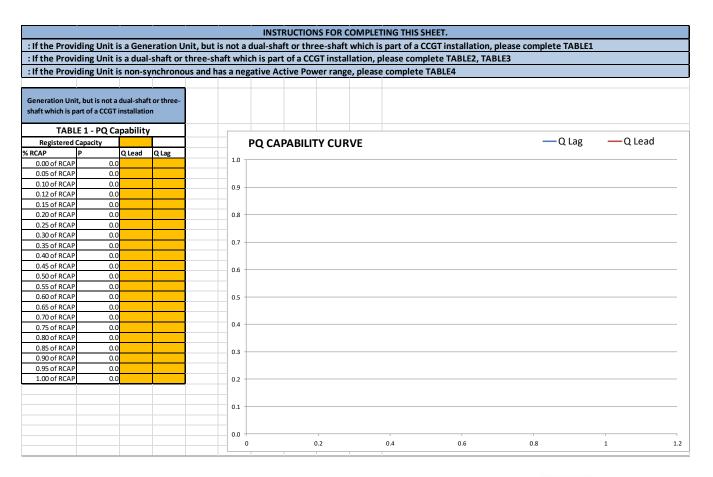


Technical Q – Reserve Characteristic





Technical Q – PQ Capability





Sample Lot – Section A

					Candidates tr	nat are
			SECTION A.1 - EXIST	ING CONTRACTED ENTITIES ONLY	applying to a	mend
	1.1 Has the Providing Unit an existing DS3 System Services Agreement for Regulated Arrangements for POR for a non-zero	4		forer must respond YFS and must answer qu		
	value and is applying to change the Reserve Characteristic for POR relative to the values specified in its DS3 System Services Agreement or to change from Static to Dynamic service provision or vice versa??	-	Sect	tion B and all of Section C.	their existing	
	cervices regretified to disalige from class to by familio service provision of the versa.		If the	Providing Unit is an Aggregator please pro	contracted se	rvice
				N meter numbers, and Individual Demand Si		.i vicc
				ils, as outlined in the Grid Codes (SONI sect	values.	
				, SONI section PC.A3.4.3 for DSU, EirGrid s		
			AGU	, EirGrid section PC.A7 for DSU) by filling out	the System Services	
			Site I	Info tab. Aggregators must be able to provide	all contracted	
			сара	ability by 1 October 2022 and that capability n	nust be reflected on	
			the F	Providing Unit's Operational Certificate on or	before 1 October	
			2022			
				re an Individual Demand Site or Generator Si		
				racted with the Aggregator, the Providing Un	•	
				factory evidence, for example a letter of inte		
				racts will be in place by 1 October 2022. Whe		
				and Site or Generator Site is currently contra		
				regator, in order to complete the transfer of a		
				or Generator Site into the Operational Certifi iding Unit effective 1 (12) ober 2022, the TSO		
				irmation from the Individual Demand Site or G		
	1.2A Has the Providing Unit a TSO-approved System Services Test Report demonstrating the Providing Unit's capability to		Tend	derer must respond either YES or NO.		Ī
	provide the POR service according to the applied for changes (i.e. changed Reserve Characteristic and/or		If Ter	nderer responds YES, Tenderer must provide	the TSO-approved	
	Statio/Dynamic classification)? (This question is only pass / fail in combination with 1.28 & 1.20.)			em Services Test Report demonstrating the P	roviding Unit's	
				ability.		
	Note: Test Reports must be in the correct System Services Test Report template. System Services Test Report templates			nderer responds NO, Tenderer must respond	🛰 ¶ Aggregato	rs take
	are available here: http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-		1.2C	and provide the associated evidence.		
_	compliance-test/compliance-testing/system-services-testing/index.xml 1.2B If the answer to question 1.2A above is NO, please confirm:		T4	derer must respond YES.	note of Q:	1.1 –
	Has the Providing Unit conducted testing with the TSO to demonstrate capability to provide the POR service and has not			derer must respond 1 63. derer must provide written confirmation from t	specifically	vrolating
	vet had a test report approved by the TSO?			rator confirming that:	specificali	y relatilig
	IOB			ing has taken place. Tenderer must state the	to individu	ial sites
	Has the Providing Unit submitted a Testing Request to the TSO and the TSO has agreed to a date, which must not be after		OR	-		
	5 August 2022, for testing to take place?		lf a T	esting Request has been submitted, that the	ты that are n	ot
	OR		date.	, which must not be after 5 August 2022, for	esti currontly	contractor
	Has the Providing Unit submitted test data (witnessed as required by the TSO), or performance data, to the TSO and the			derer must state the test date.	currently of	contracted
	TSO has agreed to evaluate the Providing Unit's capability to provide the POR service based on the data?		OR		with the P	roviding
				st / performance data has been submitted, the	at th	
	Note 1: Tenderer must have engaged with the TSO regarding the Providing Unit's testing requirements in advance of			ed to evaluate the Providing Unit's capability	™r Unit.	
	tender submission.		servi	ice based on the data.		
	Note 2: If Tenderer is a DSU, Tenderer must submit a completed DSU application form when requesting a test date, which must include all Individual Demand Sites that are to be tested.					
	Mote 3: If Tenderer is a DSU or AGU and is intending to test an Individual Demand Site or Generator Site that is currently					
	Invoke 5. In Terrocal is a 555 or Motoral to is interrolling to test air introducial perhandratic or Generator Site (nat is currently					



Section A.1 is for

Aggregator Site Switching

- A service provider managing an aggregated DSU / AGU may submit a tender in respect of a Providing Unit comprising a list of constituent sites where for such sites there is either:
 - an active contract in place between the service provider and the site; or
 - where a site is not currently contracted with the Aggregator, satisfactory evidence, for example a letter of intent, that such contracts will be in place by 1st October 2022.
- All necessary testing as specified under the procurement rules must be completed by the deadlines specified within the procurement.



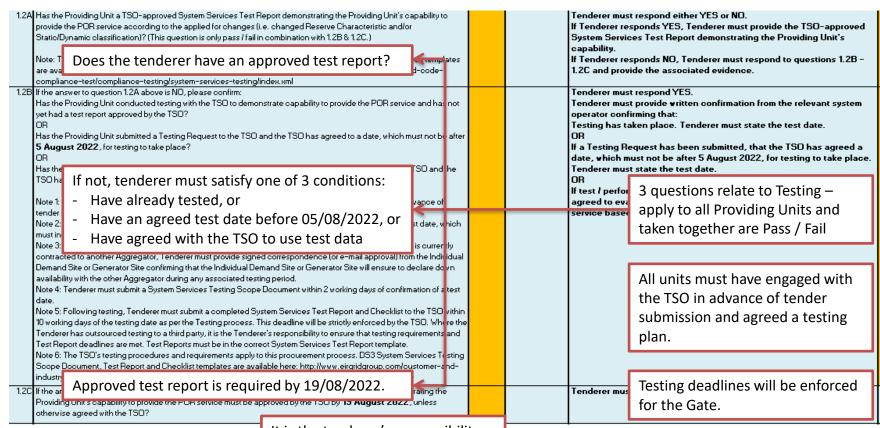
System Services Site Info

_										
		Site No.	Tenderer should align the Site no. with site numbers isted in the DSU Application form / AGU Application form / DSU Ops Cert / GASOA Schedule	1	2	з	4	5	6	7
	1	Is this site providing DS3 System Services?	Yes / No	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List				
	2	Name of Individual Demand Site		<insert here=""></insert>						
	3	MPRN		<insert here=""></insert>						
	4	Irish Grid Co-ordinates of the Connection Point		<insert here=""></insert>						
	5	Maximum Export Capacity	(MW)	<insert here=""></insert>						
	6	Maximum Import Capacity	(MW)	<insert here=""></insert>						
	7	Performance Measurement Device Standards for Fast Acting Services installed in agreement with TSO.	Yes / No	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List				
		The Trigger Point that the IDS is expected to start responding at (F Trigger On).	(Hz)	<insert here=""></insert>						
	9	The frequency range over which the IDS will go from minimum to maximum declared response (F Trigger Range).	(Min Hz - Max Hz)	<insert here=""></insert>						
		The frequency at which the IDS will begin to cease responding at (F Trigger Off).	(Hz)	<insert here=""></insert>						
	11	Time delay to the F Trigger Off characteristic that the IDS will continue to respond for thereafter (T loiter).	(sec)							
m	ust be	completed for all		<insert here=""></insert>						
regators sites and not just										
itional valumes being				<insert here=""></insert>						

This must be completed for all aggregators sites and not just additional volumes being tendered for



Sample Lot – Section A – Testing



We encourage units to test early!

It is the tenderer's responsibility to ensure that testing activities are conducted within the required timeframes.

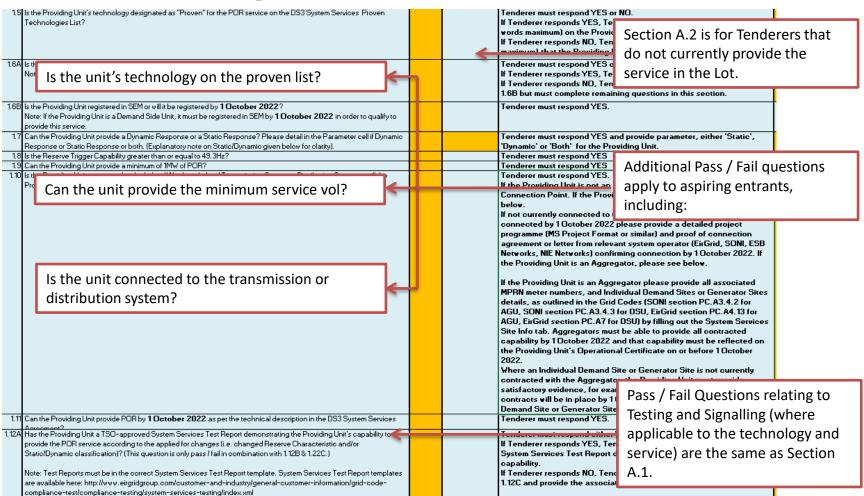


Sample Lot – Section A – Signals

1.12B If the answer to question 1.12A above is NO, please confirm: Has the Providing Unit conducted testing with the TSO to demonstrate capability to provide the POR service and has not yet had a test report approved by the TSO? OR Has the Providing Unit submitted a Testing Request to the TSO and the TSO has agreed to a date, which must not be after 5 August 2022, for testing to take place? OR Has the Providing Unit submitted test data (witnessed as required by the TSO), or performance data, to the TSO and the TSO has agreed to evaluate the Providing Unit's capability to provide the POR service based on the data? Note 1: Tenderer must have engaged with the TSO regarding the Providing Unit's testing requirements in advance of tender submission. Note 2: If Tenderer is a DSU, Tenderer must submit a completed DSU application form when requesting a test date, which must include all Individual Demand Sites that are to be tested. Note 3: If Tenderer is a DSU or AGU and is intending to test an Individual Demand Site or Generator Site that is currently contracted to another Aggregator, Tenderer must provide signed correspondence (or e-mail approval) from the Individual Demand Site or Generator Site confirming that the Individual Demand Site or Generator Site will ensure to declare down availability with the other Aggregator during any associated testing period. Note 4: Tenderer must submit a System Services Testing Scope Document within 2 working days of confirmation of a test date. Note 5: Following testing, Tenderer must submit a completed System Services Test Report and Checklist to the TSO within 10 working Tenderer h Test Repor Note 6: The Scope Doc industryige Does the unit comply with the Signalling requirements are noted per Lot.	operator confirming that: Testing has taken place. Tenderer must state the test date. OR If a Testing Request has been submitted, that the TSO has agreed a date, which must not be after 5 August 2022, for testing to take place. Tenderer must state the test date. OR If test / performance data has been submitted, that the TSO has agreed to evaluate the Providing Unit's capability to provide the service based on the data.
1.12C If the answer Providing Unit's capability to provide the POR service must be approved by the TSO by 19 August 2022 , unless otherwise agreed with the TSO?	Tenderer must respond YES.
1.13A Does the Providing Unit comply with the signalling requirements for the provision of the POR service, as applicable to the Providing Unit's technology? Note 1: There are specific signalling requirements for the provision of the POR service from Aggregated Generator Units, Demand Side Units, Energy Storage Providing Units (including batteries), and Wind Farms providing the service through emulated inertia.	Tenderer must respond either YES or NO. If Tenderer responds YES, Tenderer must provide a site-specific Wiring Certificate confirming compliance with the signalling requirements for the POR service. If Tenderer responds NO, Tenderer must respond to question 1.13B.
Note 2: Signals lists that specify the signalling requirements for the provision of the POR service, applicable to the Providing Unit's technology, are available here: http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-testing/system-services-testing/index.xml In addition, Signals Research Site specific wiring cert is required by 19/08/2022.	Questions relate to Signalling – apply to Providing Units depending on the technology and
Signals-Requirements-vz.u.par). 1.13B If the answer to question 1.13A above is NO, do you understand that where applicable the signalling requirements for the POR service must be met by the Providing Unit and that a site-specific Wiring Certificate must be provided to the TSO by 19 August 2022?	Tenderer must respond Y the service being tendered for.



Sample Lot – Section A





Sample Lot – Section B

TECHNICAL QUESTIONNAIRE FOR DISTRIBUTION CONNECTED PROVIDING UNITS ONLY

Minimum Evidence Required to demonstrate compliance

Please provide document name, location and cross reference number in submission for explanation where required (e.g. pg. 4 POR Testing Report)

Section B is for Distribution-

	PRIMARY OPERATING RESERVE (POR) SECTION B - PASS/FAIL TECHNICAL QUESTIONNAIRE FOR DISTRIBUTION CONNECTED PROVIDING UNITS ONLY									
Q No	Description	lesponse	Minimum Evidence Required to demonstrate compliance	Please provide document name, location and cross reference number in submission for explanation where required (e.g. pg. 4 PDR Testing Report)						
	If the Providing Unit is connected to the Ireland/Northern Ireland Distribution System or will be before 1 October 2022, do you understand that formal notification must be provided from the relevant DSO/DNO confirming consent for the service to be provided by 19 August 2022?	2	Tenderer must respond YES. Formal notification from the relevant DSO/DNO confirming consent for the Providing Unit to provide the service must be provided by 19 August							



Sample Lot – Section C

1					purposes but must be		
▼ ·						completed as specified.	
					completed as sp	Jecineu.	
PRIMARY OPERATING RESERVE (POR) SECTION C - TECHNICAL (FOR INFORMATION PURPOSES ONLY) QUESTIONNAIRE							
Q No Desci	ription	Respons		Notes		Please provide document	
			(All orange fields must			name, location and cross reference number in	
			heias must			submission for	
			completed, if			explanation where	
			not			required (e.g. pg.4 POR	
Opera	ating Reserve Questions Relating to POR (DYNAMIC RESPONSE)		1100			rodanoa (e.g. pg. 1 1 e.i	
	Providing Unit can provide a Dynamic Response please confirm and complete questions 2.1 - 2.10.						
	s the Reserve Trigger Capability of the Providing Unit? (Definition of Reserve Trigger Capability given below).						
	Reserve Trigger adjustable? (Definition of Reserve Trigger given below).				Tenderers must	specify the	
	Reserve Trigger is adjustable what is the adjustable range? Please note that the lower limit of the range cannot						
be lowe	er than 49.3 Hz and the upper limit of the range cannot be above 49.985 Hz.				total contracted	i volume that is 📲	
2.4 Is the G	Governor Droop adjustable?				مالممانمما		
	s the Governor Droop adjustable range?				being applied fo	or.	
	is the Governor Droop currently set at whether fixed or adjustable?						
	at capacity is the droop referenced?						
	: Droop is normally referenced against Registered Capacity.						
	Providing Unit is a part or whole of a CCGT Installation and can operate in Open Cycle Mode, what is the						
	nor Droop adjustable range when operating in Open Cycle Mode?						
	Providing Unit is a part or whole of a CCGT Installation and can operate in Open Cycle Mode, what is the						
	nor Droop currently set at whether fixed or adjustable when operating in Open Cycle Mode?						
	Providing Unit is a part or whole of a CCGT Installation and can operate in Open Cycle Mode, at what capacity is						
	oop referenced if not referenced against Registered Capacity when operating in Open Cycle Mode?						
	Operating Reserve Questions Relating to POR (STATIC RESPONSE)						
	Providing Unit can provide a Static Response please confirm and complete questions 3.1-3.7.						
	s the Reserve Trigger Capability of the Providing Unit? (Definition of Reserve Trigger Capability given below).						
	Reserve Trigger is adjustable what is the adjustable range? Please note that the lower limit of the range cannot						
	er than 49.3 Hz and the upper limit of the range cannot be above 49.985 Hz.(Definition of Reserve Trigger given						
	s the Reserve Trigger currently set at (where applicable)?						
	Reserve Trigger adjustable?						
	s maximum number of Reserve Step Triggers? (Definition of Reserve Step Triggers given below).						
	n Reserve Step Size adjustable? (Definition of Reserve Step Size given below). answer to question 3.6 is YES , please specify the Reserve Step Sizes which are adjustable and provide the						
	answer to question 3.61s. TES, please specify the neserve step sizes which are adjustable and provide the ated adjustable range in MW.						
	ral Primary Operating Reserve (POR) Technical Questions						
	is the maximum volume of POR that the Service Provider is seeking to contract for the Providing Unit under the						
	is the maximum volume of Form that the Service Froylder is seeking to contract for the Froylding only under the ated Arrangements?						
4.2 Please	provide POR Reserve Characteristics.			Please complete "Reserve Characteristic" st	neet		



Section C is for information

Tender Pack and Technical Questionnaire

Q & A

TSOs will provide a verbal response to select queries received during the webinar.

All queries will receive a written response following the webinar.







DS3 System Services Compliance Webpage

- EirGrid website has a DS3 System Services compliance webpage at http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-testing/system-services-testing/index.xml
- System Services test reports and procedures per technology type
- > System Services signalling requirements / lists per technology type
- Any questions on testing / signals can be directed to the relevant testing team:
 - Generator_Testing@EirGrid.com
 - Generator Testing@SONI.ltd.uk
 - DSU@eirgrid.com (for DSU related queries)



Tender Testing Requirements

- > Tenderers **must** engage with our testing teams prior to tender submission
- Tender submissions must be accompanied by:
 - Approved recent DS3 System Services Test Report
 Or
 - Evidence of recent testing, where a Test Report has not yet been approved
 Or
 - Confirmed Testing DateOr
 - Confirmation from TSOs that alternate test data can be used for the purpose of demonstrating capability



Testing Dates

- **Early engagement** please.
- Please contact us now to book testing slots if you intend to tender for services.
- Testing Dates (subject to availability) Gate 7
 - First date: Now
 - Last date: Friday 05th August 2022
 - Test dates must be agreed: Before the tender submission.
 - This applies to all testing whether witnessed or unwitnessed by TSOs
- Testing deadlines will be enforced e.g. 10 working days to submit a report post test (note – TSOs may return reports that are incomplete)
- Friday 19th August 2022 is the deadline for an approved test report.



Testing Documentation

- Scope Document to be submitted 2 BD following confirmation of test date outlining the services the unit wishes to contract for including a detailed plan and timeline of how they will achieve these goals.
- Checklist A checklist is to be completed with each report to ensure all required aspects of a complete report are met. This is to help mitigate delays at the report reviewing stage. Must be fully completed.
- Templates for the documents are available on the EirGrid website.



Testing Documentation

Good practices:

- File name ie. Reports, to be named contained the name of the unit, testing type and version. (*UnitName OR Test Report v2*)
- Version history on both file name and section history inside the document, any header and footer should match.
- Operating Reserve reports: Pre-event output as per tender document.
- Colour Code on the changes from existing contracts and new proposals.



Updated Testing Documentation

- Testing to reset performance scalar.
 - The existing report template was designed for contracting. It uses 'minimum sustained MW' to determine achieved volumes.
 - New report template will be published for units who carry out testing to reset performance scalar. The assessment methodology (and pass criteria) will be as per performance monitoring.

Technology	Report	Test Procedure		
WFPS	Published	N/A		
Conventional	Drafted	Drafted		
Batteries	Drafted	Drafted		
DSU	To be drafted	TBC		



Testing of DSUs

- Early engagement please
- When requesting a Testing Date:
 - DSUs must submit a DSU application at the same time
 - Ramping or Capacity tests only witnessed as needed new DSU or testing > 10 MW
 - Tests will still be scheduled via existing calendar process
- Individual Demand Site switching:
 - Please ensure that applications are supported by satisfactory evidence, for example a letter of intent, that contracts with the site will be in place by 1st October 2022, as well as consent from the sites to be tested
 - The Providing Unit must provide signed correspondence (or e-mail approval) from the site confirming that it will ensure to declare down availability with another Aggregator during any associated testing period



Reserve Testing Standards

- No change to the testing standards from Gate 6
- For reserve services, the following standards apply:
 - Conventional units a frequency injection of 200 mHz to 500 mHz
 - Wind farms a frequency injection of 200 mHz
 - Aggregators based on the unit's reserve trigger(s)
 - Interconnectors based on the unit's reserve trigger(s)
 - Batteries based on the unit's reserve trigger(s)
- TOR2 assessment:
 - TOR2 may be assessed from a frequency injection
 - > TOR2 may be assessed based on approved TOD and verify through real dispatch.



Signalling Requirements

- Certain DS3 System Services have specific signalling requirements:
 - Dependent on the Providing Unit's technology
 - Noted in the relevant Lot of the Technical Questionnaire
 - Published on the DS3 System Services Compliance webpage
 - Refer to 'DS3 System Services New Signaling Requirements for the Regulated Arrangements' document dated November 2019 (in tender pack)
- Signalling requirements obligations must be met by Friday 19th August 2022:
 - Providing Unit must request a site-specific Signal List
 - > TSO issues site-specific signal list (based on TSO templates & site-specific info)
 - Providing Unit must make the signals available to the TSO (at interface)
 - Providing Unit must complete, sign and submit the site-specific Wiring Certificate



Testing and Signalling

Q & A

TSOs will provide a verbal response to select queries received during the webinar.

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Webinar - Concluded

Queries on Volume Uncapped Gate:

- > Send no later than 12:00 hrs Irish Time on 01st July 2022.
- > To: anna.pockock@eirgrid.com and tenders@eirgrid.com

EirGrid will respond to all queries by 08th July 2022.

Webinar slide deck will be published shortly.

