DS3 System Services Volume Uncapped Gate 6
Bidders' Information Session

Thursday 2nd December 2021 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	Time	Speaker
Introduction	10:00	Carole Devlin
Procurement Process Overview	10:10	Anna Pocock
Q&A	10:25	Attendees
Tender Pack and Technical Questionnaire	10:35	Carole Devlin
Q&A	10:50	Attendees
Testing and Signalling Requirements	11:00	Darren Molloy
Q&A	11:15	Attendees
Closing Comments	11:25	Carole Devlin
Webinar Ended	11:30	-



Introduction

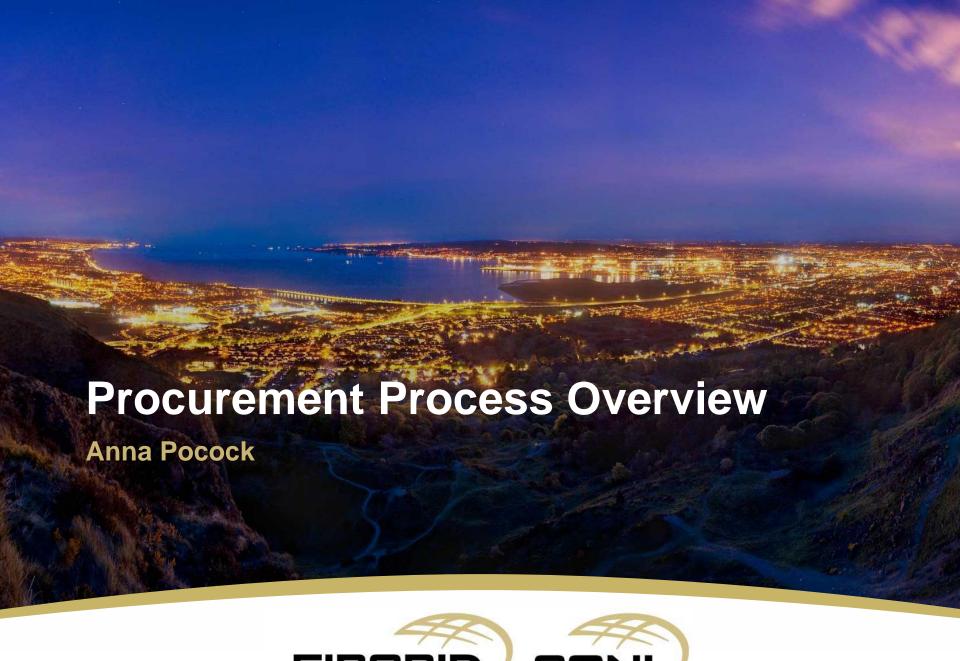
- Post webinar, queries can be emailed in the clarification template to Anna.Pocock@Eirgrid.com and tenders@eirgrid.com:
 - Closing date for receipt of queries is 12 noon on 7th December 2021.
- The presentation slides will be made available on eTenders and on the EirGrid and SONI websites.



Future Gates

Gate No	Indicative Contract Execution Date			
6	April 2022			
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 and Gate 5 in October 2021.



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 April 2022.



Gate 6

- OJEU Notice (2021/S 230-607158) published on 26th November 2021
 - ENQEIR793 DS3 System Services Volume Uncapped Gate 6
- 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 6

- Gate 6 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 6 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 6 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 07th December 2021.
- Addressed to: Anna Pocock at <u>anna.pocock@eirgrid.com</u> and <u>tenders@eirgrid.com</u>
- EirGrid will respond to all queries by 16th December 2021.



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 5th January 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 7 th December 2021
EirGrid and SONI to Respond to Queries	By close of business on (Irish Time) on 16 th December 2021
Deadline for Submission of Tenders	No later than 12:00 hrs (Irish Time) on 5 th January 2022
Notification of Successful Tenderers	10 th March 2022 (Indicative)
Standstill Period	14 days from Notification Date
Contract Commencement	1 st April 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 April 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 will reduce by 10% from 1st December 2021

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	MVArh	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)

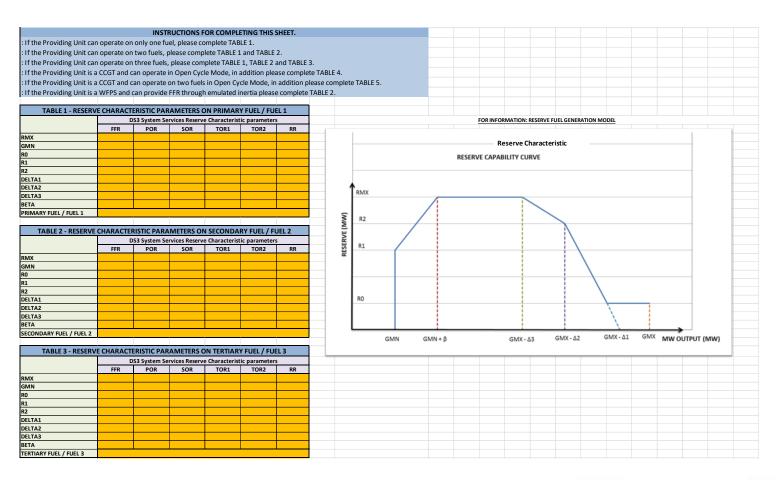


Technical Q - Guidance Sheet

The fullouing information is to assist Tenderers in completing the Tenderers must complete the relevant questionnaires for each lot Where additional information is required please input a cross refers SECTION A in each lot must be completed by a Tenderer that wishe whether the technical response is sufficient to achieve a Pass for t		
tochnical information provided and subsequently decide whether the SECTION C in each lot is for information purposes. However, wales: Where relevant, a Tenderer should provide details of the Providinal Tenderer should provide the state of the Providinal Tenderer school Complete all orange cells. If and applicable please FOR COMPLETION BY TELESCO		Section B is Pass/Fail for
Previding Unit (if applicable) If the Praviding Unit in connected to the Iroland/ Hurthern Iroland/ Distribution System, or uill All Providing Units must	If the Tenderer replies HO (i.e. dues ant give permission for the TSO to share the applicable)), the Tenderer must complete Section(s) A of the Procurement Que and must submit it to the DSO/DHO (as applicable) by 65th January 2022. This is electronic format to the following address (as applicable): EirGrid Contracts (DSO-connected Tenderers) submissions to: Killian Horgan	Illust be completed as specified.
the Lots being tendered for. 150 techers information	ESS Natuurks Laupardstuum Laupardstuum Rd Fazrack Dublin D1\$ ZH\$\$ Electronic zubmirzinn: Submirzinn via amail ir alru accaptable. A ziquad cupy z than 1\$th Fabruary 2\$22. SOHI Cuntracts (DHO-cunnacted Tanderers) zubmirzinns tu: David Hill HE Matuurks Ltd Cara Industrial Estate	For Distribution Connected Providing Units, TSO will share relevant information with the DSO/DNO if tenderer permits.
PLEASE COMPLETE THE FOLLOWING GUIDANCE TABLE	Partednum Cm. Armaqh B163 502) <u>Electroniczubmirzion;</u> Submizzion via email ir alro acceptable. A zigned copy s an later than 18th February 2022.	thweld be sent to Dovid.Hill@nienetumrks.couk ETSO TO ASSESS THE INFORMATION FOR COMPLIANCE

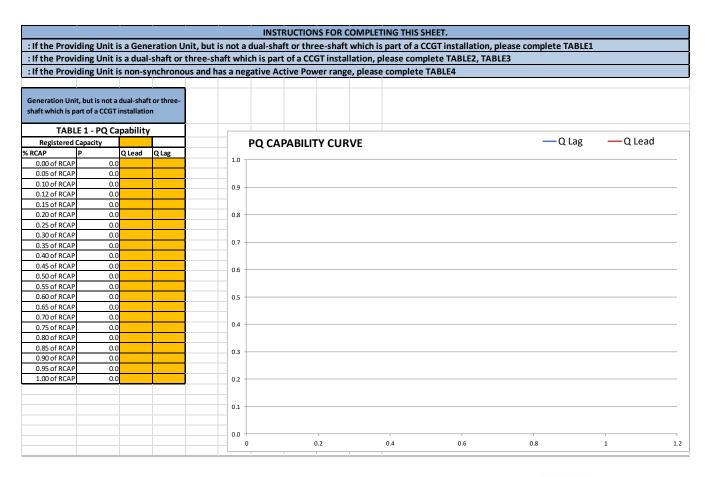


Technical Q – Reserve Characteristic





Technical Q – PQ Capability





Sample Lot – Section A

-						
	, .	SECTION A.1 - EXISTI	NTRACTED	ENTITIES ONLY	applying to amend	
	1.1	Has the Providing Unit an existing DS3 System Services Agreement for Regulated Arrangements for POR for a non-zero value and is applying to change the Reserve Characteristic for POR relative to the values specified in its DS3 System		Section B and all of Section C.	their existing	
		Services Agreement or to change from Static to Dynamic service provision or vice versa??		If the Providing Unit is an Aggregator	contracted service	
				MPRN meter numbers, and Individual Sites details, as outlined in the Grid C	values.	
				for AGU, SONI section PC.A3.4.3 for both for AGU, EirGrid section PC.A7 for DS Services Site Info tab. Aggregators mu contracted capability by 1 April 2022 an reflected on the Providing Unit's Opera 1 April 2022. Where an Individual Demand Site or Ge contracted with the Aggregator, the Properties of the Properties o	U) by filling out the System st be able to provide all d that capability must be tional Certificate on or before nerator Site is not currently oviding Unit must provide tter of intent, that such 2. Where an Individual Demand racted to another Aggregator, Individual Demand Site or rtificate of the tendering	•
	1.2A	Has the Providing Unit a TSO-approved System Services Test Report demonstrating the Providing Unit's capability to provide the POR service according to the applied for changes (i.e. changed Reserve Characteristic and/or		Providing Unit effective 1 April 2022, the confirmation from the Individual Demartenderer must respond either YES or Martin Tenderer responds YES. Tenderer must	nd Site or Generator Site 10. ISt provide the TSO-approved	
		Statio/Dynamic classification)? (This question is only pass / fail in combination with 1.2B & 1.2C.) Note: Test Reports must be in the correct System Services Test Report template. System Services Test Report templates are available here: http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-testing/sustem-services-testing/index.pml		System Services Test Report demonst capability. If Tenderer responds NO, Tenderer mus 1.2C and provide the associated eviden	Aggregators take	
	1.2B	If the answer to question 1.2A 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		Tenderer must respond YES. Tenderer must provide written confirm operator confirming that: Testing has taken place. Tenderer mus	specifically relating	;
		Has the Providing Unit submitted a Testing Request to the TSO and the TSO has agreed to a date, which must not be after 3 February 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		OR If a Testing Request has been submitte date, which must not be after 3 Februar place. Tenderer must state the test dat	currently contracte	
		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.		OR If test I performance data has been sub agreed to evaluate the Providing Unit's service 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.				



Section A.1 is for Candidates that are

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 April 2022.
- All necessary testing as specified under the procurement rules must be completed by the deadlines specified within the procurement.



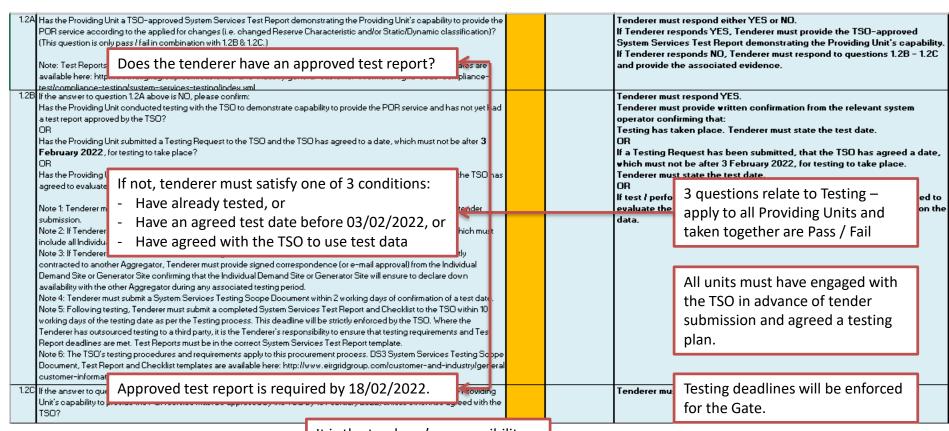
System Services Site Info

	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	3	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				
8	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>						
10	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 oiter).	(sec)							
must b	e completed for all		<insert here=""></insert>						
egators	sites and not just volumes being	(sec)	<insert here=""></insert>						

tendered for

EIRGRID SONI

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

	4405	(V)		•	IT I IUEO
ı	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			Tenderer must respond YES. Tenderer must provide written confirmation from the relevant system
ı		uet had a test report approved by the TSO?			operator confirming that:
ı		OR .			Testing has taken place. Tenderer must state the test date.
ı		Has the Providing Unit submitted a Testing Request to the TSO and the TSO has agreed to a date, which must not be			OR .
ı		after 3 February 2022, for testing to take place?			If a Testing Request has been submitted, that the TSO has agreed a
ı		OR			date, which must not be after 3 February 2022, for testing to take
ı		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?			place. Tenderer must state the test date. OR
ı		130 has agreed to evaluate the Frovioling only's capability to provide the Fort service based on the data?			If test / performance data has been submitted, that the TSO has
ı		Note 1: Tenderer must have engaged with the TSO regarding the Providing Unit's testing requirements in advance of			agreed to evaluate the Providing Unit's capability to provide the
ı		tender submission.			service based on the data.
ı		Note 2: If Tenderer is a DSU, Tenderer must submit a completed DSU application form when requesting a test date, which			
ı		must include all Individual Demand Sites that are to be tested.			
ı		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			
ı		Demand Site or Generator Site confirming that the Individual Demand Site or Generator Site will ensure to declare down			
ı		availability with the other Aggregator during any associated testing period.			
ı		Note 4: Tenderer must submit a System Services Testing Scope Document within 2 working days of confirmation of a			
ı		test date.			
ı		Note 5: Following to Does the unit comply with the Signalling			
ı		within 10 working day			
ı		Where the Tenderer requirements for the service? Specific Signalling			
,		template. requirements are noted per Lot.			
П	1.12C	If the answer to question high above is 100, 00 you understand that a bystem betwices nest neport demonstrating the			Tenderer must respond YES.
		Providing Unit's capability to provide the POR service must be approved by the TSO by 18 February 2022, unless			
Н	112.6	otherwise agreed with the TSO? Does the Providing Unit comply with the signalling requirements for the provision of the POR service, as applicable to the	_		Tenderer must respond either YES or NO.
	1.13A	Providing Unit's technology?			If Tenderer responds YES, Tenderer must provide a site-specific
					Viring Certificate confirming compliance with the signalling
		Note 1: There are specific signalling requirements for the provision of the POR service from Aggregated Generator Units,			requirements for the POR service.
		Demand Side Units, Energy Storage Providing Units (including batteries), and Wind Farms providing the service through			If Tenderer responds NO, Tenderer must respond to question 1.13B.
		emulated inertia.			
		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-			Questions relate to Signalling –
		information/grid-code-compliance-test/compliance-testing/sustem-services-testing/index-vml			apply to Providing Units
		r rest f m			111
		Signals Requiremen Site specific wiring cert is required by 18/02/2022.			depending on the technology and
'	1.13B	If the answer to question 1.13A above is NO, do you understand that where applicable the signalling requirements for the			Tenderer must re the service being tendered for.
		POR service must be met by the Providing Unit and that a site-specific Wiring Certificate must be provided to the TSO by			the service being tendered for.
1		18 February 2022?			



Sample Lot – Section A

1.5 Is the Providing Unit's technology designated as "Proven" for the POR service on the DS3 System Services Proven Technologies List? Is the unit's technology on the proven list?	Tenderer must I Section A.2 is for Tenderers that do not currently provide the service in the Lot.
.6A Is the Providing Unit a Demand Side Unit DSU? Note: Individual Demand Sites must be part of a DSU in order to qualify to provide this service.	Tenderer must respond YES or NO. If Tenderer responds YES, Tenderer must answer question 1.6B. If Tenderer responds NO, Tenderer does not need to answer ques 1.6B but must complete remaining questions in this section.
.6B Is the Providing Unit registered in SEM or will it be registered by 1 April 2022? Note: If the Providing Unit is a Demand Side Unit, it must be registered in SEM by 1 April 2022 in order to qualify to provide this service.	Tenderer must respond YES. Additional Pass / Fail questions
1.7 Can the Providing Response or Stat 1.8 Is the Reserve Tri 1.9 Can the unit provide the minimum service vol? 1.9 Can the Providing Unit provide a minimum of 1MV of POR?	Tenderer must apply to aspiring entrants, Tenderer must including:
Is the Providing Unit connected to the Ireland? Northern Ireland Transmission System or Distribution System or will the Providing Unit be connected by 1 April 2022? Is the unit connected to the transmission or distribution system?	Tenderer must respond TES. If the Providing Unit is not an Aggregator, please confirm the Connection Point. If the Providing Unit is an Aggregator, please shelow. If not currently connected to the Power System but planning to be connected by 1 April 2022 please provide a detailed project programme (MS Project Format or similar) and proof of connection agreement or letter from relevant system operator (EirGrid, SONI, ESB Networks, NIE Networks) confirming connection by 1 April 20 If the Providing Unit is an Aggregator, please see below. If the Providing Unit is an Aggregator please provide all associate MPRN meter numbers, and Individual Demand Sites or Generator Sites details, as outlined in the Grid Codes (SONI section PC A3 for AGU, EirGrid Services Site Information Contracted capa reflected on the 1 April 2022
1.11 Can the Providing Unit provide POR by 1 April 2022 as per the technical description in the DS3 System Services	Tenderer must ri A.1.
2A Has the Providing Unit a TSO-approved System Services Test Report demonstrating the Providing Unit's capability to provide the POR service according to the applied for changes (i.e. changed Reserve Characteristic and/or Static/Dynamic classification)? (This question is only pass / fail in combination with 1.12B & 1.22C.)	Tenderer must responds YES, Tenderer must provide the TSO-approx System Services Test Report demonstrating the Providing Unit's



Sample Lot – Section B

Section B is for Distribution-Connected Candidates only. PRIMARY OPERATING RESERVE (POR) SECTION B - PASSIFAIL TECHNICAL QUESTIONNAIRE FOR DISTRIBUTION CONNECTED PROVIDING UNITS ONLY Q No Description Response Minimum Evidence Required to demonstrate compliance Please provide document name, location and cross reference number in submission for explanation where 1.15 If the Providing Unit is connected to the Ireland/ Northern Ireland Distribution System or will be before 1 April 2022, do Tenderer must respond YES. you understand that formal notification must be provided from the relevant DSD/DNO confirming consent for the service Formal notification from the relevant DSO/DNO confirming consent to be provided by 18 February 2022? for the Providing Unit to provide the service must be provided by 18



Sample Lot – Section C

4					purposes but must be	
▼ ·					completed as specified.	
					completed as st	Jecineu.
PRIMARY OPERATING RESERVE (POR) SECTION C - TECHNICAL (FOR INFORMATION PURPOSES ONLY) QUESTIONNAIRE						
Q No Description		Respons		Notes		Please provide document
			(All orange fields must			name, location and cross reference number in
			be			submission for
			completed, if			explanation where
			not not			required (e.g. pg.4 POR
Operating Res	erve Questions Relating to POR (DYNAMIC RESPONSE)		1100			rodanoa (e.g. pg. 1 1 e.i
	Unit can provide a Dynamic Response please confirm and complete questions 2.1 - 2.10.					
	rve Trigger Capability of the Providing Unit? (Definition of Reserve Trigger Capability given below).					
	igger adjustable? (Definition of Reserve Trigger given below).				Tenderers must	specify the
	igger is adjustable what is the adjustable range? Please note that the lower limit of the range cannot					
be lower 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 Governor [Proop adjustable?				مالممانمما	
	ernor Droop adjustable range?				being applied fo	or.
	ernor Droop currently set at whether fixed or adjustable?					
	is the droop referenced?					
	normally referenced against Registered Capacity.					
	Unit is a part or whole of a CCGT Installation and can operate in Open Cycle Mode, what is the					
	adjustable range when operating in Open Cycle Mode?					
	Unit is a part or whole of a CCGT Installation and can operate in Open Cycle Mode, what is the					
	currently set at whether fixed or adjustable when operating in Open Cycle Mode?					
	Unit is a part or whole of a CCGT Installation and can operate in Open Cycle Mode, at what capacity is					
	nced if not referenced against Registered Capacity when operating in Open Cycle Mode?					
Operating Reserve Questions Relating to POR (STATIC RESPONSE)						
	Unit can provide a Static Response please confirm and complete questions 3.1-3.7.					
	rve Trigger Capability of the Providing Unit? (Definition of Reserve Trigger Capability given below).					
	igger is adjustable what is the adjustable range? Please note that the lower limit or the range cannot. 3 Hz and the upper limit of the range cannot be above 49.985 Hz.(Definition of Reserve Trigger given.					
	3 nz and the upper limit or the range cannot be above 43.363 nz. (Definition or neserve i rigger given) erve Trigger currently set at (where applicable)?					
3,4 Is the Reserve T						
	ngger aujustable : m number of Reserve Step Triggers? (Definition of Reserve Step Triggers given below).					
	Step Size adjustable? (Definition of Reserve Step Size given below).					
	juestion 3.6 is YES , please specify the Reserve Step Sizes which are adjustable and provide the					
	table range in MW.					
General Primary Operating Reserve (POR) Technical Questions						
	mum volume of POR that the Service Provider is seeking to contract for the Providing Unit under the					
Regulated Arran						
4.2 Please provide P	OR Reserve Characteristics.			Please complete "Reserve Characteristic" sh	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)
 - First date: Now
 - Last date: Thursday 3rd February 2022
 - Test dates must be agreed by: 05th January 2022
 - 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 18 February 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.
- Templates for the documents are available on the EirGrid website.



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.



Testing of DSUs

- Early engagement please
- When requesting a Testing Date:
 - > DSUs must submit a DSU application at the same time
 - This is required in order for the TSOs to understand the scope of the unit's testing requirements and to resource accordingly
 - 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 April 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 5
- 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



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 18th February 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

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Webinar - Concluded

Queries on Volume Uncapped Gate:

- Send no later than 12:00 hrs Irish Time on 07th December 2021.
- > To: anna.pockock@eirgrid.com and tenders@eirgrid.com

EirGrid will respond to all queries by 16th December 2021.

Webinar slide deck will be published shortly.

