DS3 System Services Volume Uncapped Gate 5
Bidders' Information Session

Tuesday 22<sup>nd</sup> June 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	Michael Beggs
Q&A	11:15	Attendees
Closing Comments	11:25	Carole Devlin
Webinar Ended	11:30	-



#### Introduction

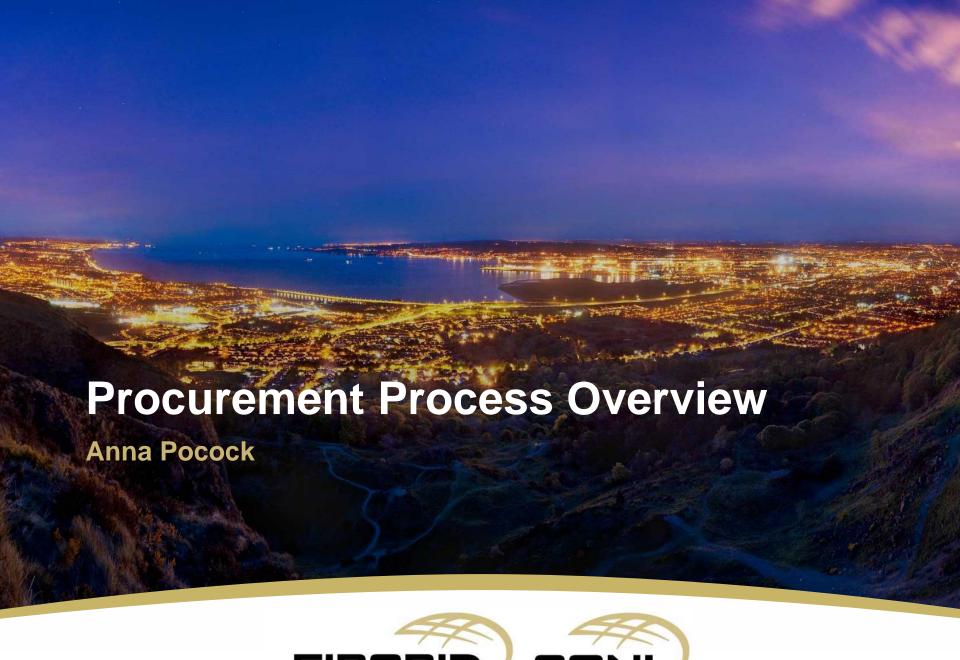
- Post webinar, queries can be emailed in the clarification template to Anna.Pocock@Eirgrid.com and tenders@eirgrid.com:
  - Closing date for receipt of queries is 12 noon on 28<sup>th</sup> June 2021.
- The presentation slides will be made available on eTenders and on the EirGrid and SONI websites.



#### **Future Gates**

Gate No	Indicative Contract Execution Date					
5	October 2021					
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 and Gate 4B in July 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 1<sup>st</sup> October 2021.



#### Gate 5

- OJEU Notice (2021/S 115-303439) published on 16<sup>th</sup> June 2021
  - ENQEIR758 DS3 System Services Volume Uncapped Gate 5
- 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 5

- Gate 5 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 5 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 5 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 28<sup>th</sup> June 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 2<sup>nd</sup> July 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 14<sup>th</sup> July 2021 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 28 <sup>th</sup> June 2021
EirGrid and SONI to Respond to Queries	By close of business on (Irish Time) on <b>02</b> nd <b>July 2021</b>
Deadline for Submission of Tenders	No later than 12:00 hrs (Irish Time) on 14 <sup>th</sup> July 2021
Notification of Successful Tenderers	03 <sup>rd</sup> Sept 2021 (Indicative)
Standstill Period	14 days from Notification Date
Contract Commencement	1 <sup>st</sup> October 2021



#### **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 2021

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



### 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 <sup>2</sup>	N/A

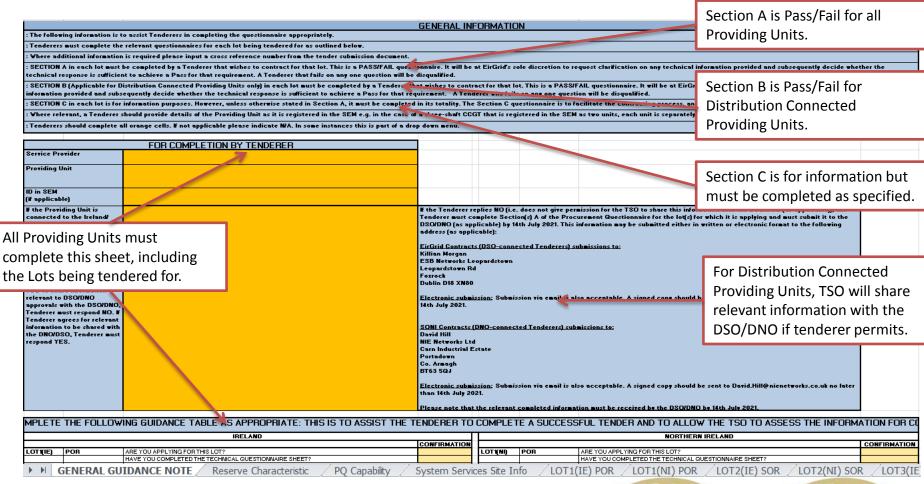


#### **Technical Questionnaire**

- 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)

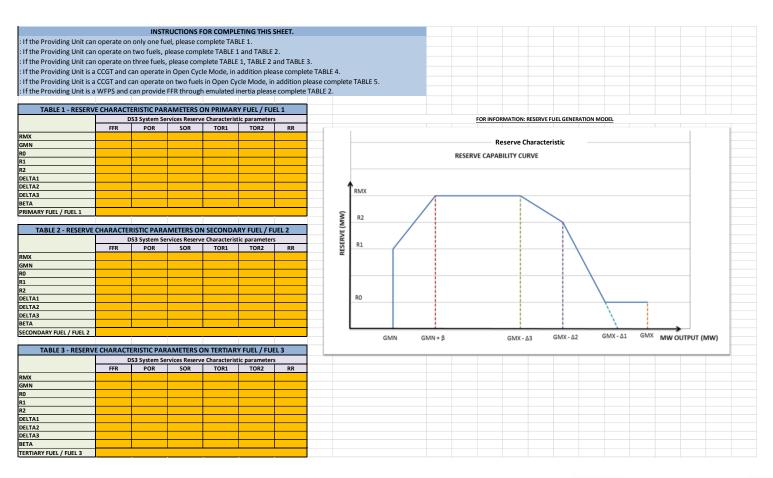


#### **Technical Q - Guidance Sheet**



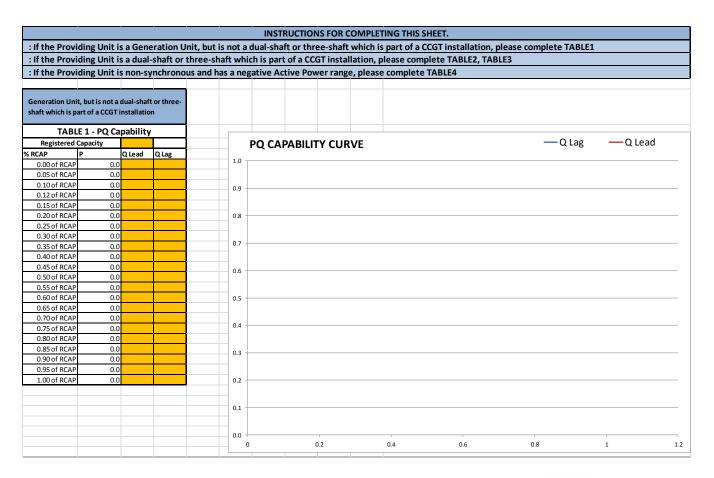


#### **Technical Q – Reserve Characteristic**





### Technical Q – PQ Capability





## Sample Lot – Section A

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 Services Agreement or to change from Static to Dynamic service provision or vice versa??	Tenderer must respond YES and must answer questions 1.2A - 1.4, Section B and all of Section C.  If the Providing Unit is an Aggregator please provide all associated MPRN met, numbers, and movirous Demand Sites of cuencrator Sites details, as outlined in the Grid Codes (SOM) section PC.A3.4.2 for AGU, SOMI section PC.A3.4.3 for DSU, EirGrid section PC.A4.13 for AGU, EirGrid section PC.A4.13 for AGU, EirGrid section PC.A7 for DSU by filling out the System Services Site Info tab. Aggregators must be able to provide all contracted capability by 1 October 2021 and that capability must be reflected on the Providing Unit's Operational Certificate on or before 1 October 2021.  Where an Individual Demand Site or Generato Site is not currently		Candidates that are applying to amend their existing contracted service values.
		contracted with the Aggregator, the Providing Unit must provide satisfactory evidence, for example a letter of intent, that such contracts will be in place by 1 October 2021. Where an Individual Demand Site or Generator Site is currently contracted to another Aggregator, in order to complete the transfer of an Individual Demand Site or Generator Site into the Operational Certuicate of the tendering Providing Unit effective 1 October 2021, the 1'80 will		
	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 StatidOynamic classification)? (This question is only pass / fail in combination with 128 & 120.)  Note: Test Reports must be in the correct System Services Test Report templates are available here: http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-test/ang/system-services-testing/index.mil  I the answer to question 128 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 stree 6 August 2021, 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: IT enderer in a DSU, Tenderer must submit a completed DSU application form when requesting a test date, which must include all individual Demand Stee that are to be tested.	Tenderer must respond either YES or NO.  # Tenderer must respond either YES or NO.  # Tenderer must responds YES, Tenderer must provide the TSO-approved System Services Test Report demonstrating the Providing Unit's capability.  # Tenderer responds NO, Tenderer must respond to questions 1.2B - 1.2C and provide the associated evidence.  Tenderer must respond YES.  Tenderer must provide written confirmation from the relevant system operator confirming that:  Testing has taken place. Tenderer must state the test date.  OR  # a Testing Request has been submitted, that the TSO has agreed a date, which must not be after 6 August 2021, for testing to take place. Tenderer must state the test date.  OR  # 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.	_	Aggregators take note of Q1.1 – specifically relating to individual sites that are not currently contracted with the Providing Unit.
	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 will ensure to declare down availability with the other Aggregator during any associated testing period.  Note 4: Tenderer must submit a System Services Testing Secope 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 days of the testing date as per the Testing process. This deadline will be strictly enforced by the TSO. Where the Tenderer has outsourced testing to a third party, it is the Tenderer's responsibility to ensure that testing requirements and Test Report deadlines are met. Test Reports must be in the correct System Services Test Report template.  Note 5: The TSO's testing procedures and requirements apply to this procurement process. DSS System Services Testing Secope Document, Test Report and Checklist templates are available here:  2 the answer to question 12.84 above is NO, do you understand that a System Services Test Report demonstrating the	Tenderer must respond YES.		
1.20	Providing Unit's capability to provide the POR service must be approved by the TSO by 20 August 2021, unless otherwise agreed with the TSO?	The state of the s		



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:
  - o 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 1<sup>st</sup> October 2021.
- Where another aggregator has advised the TSO that an Individual Demand Site or Generator Site will remain contracted with it beyond 1<sup>st</sup> October 2021, the TSO will not proceed with any transfer to an Ops Cert.
- All necessary testing as specified under the procurement rules must be completed by the deadlines specified within the procurement.

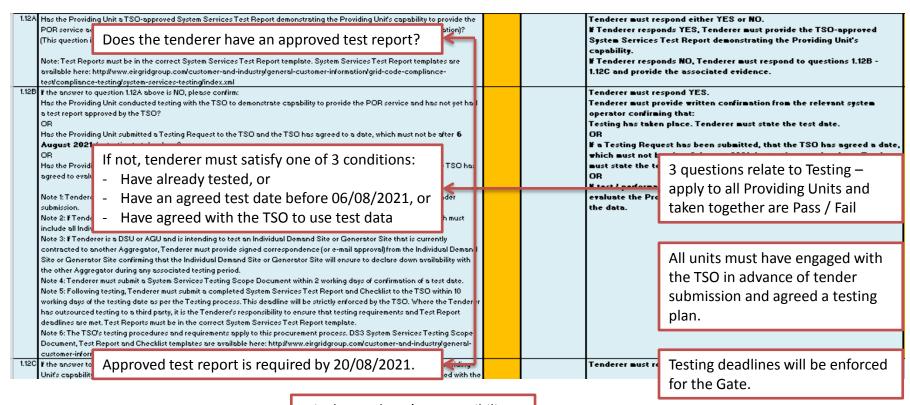
### **System Services Site Info**

		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				
		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 (Toiter).	(sec)							
m	nust be	completed for all		<insert here=""></insert>						
		sites and not just	(sec)	do contillo	de-cont Heren	d	danash Hanna	document House	document Harry	do cod Usero
				<insert here=""></insert>						

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



## Sample Lot – Section A – Testing

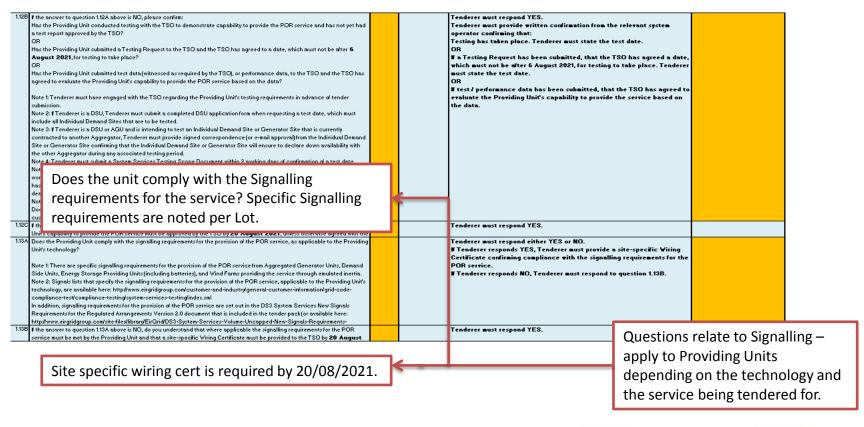


We encourage units to test early!

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

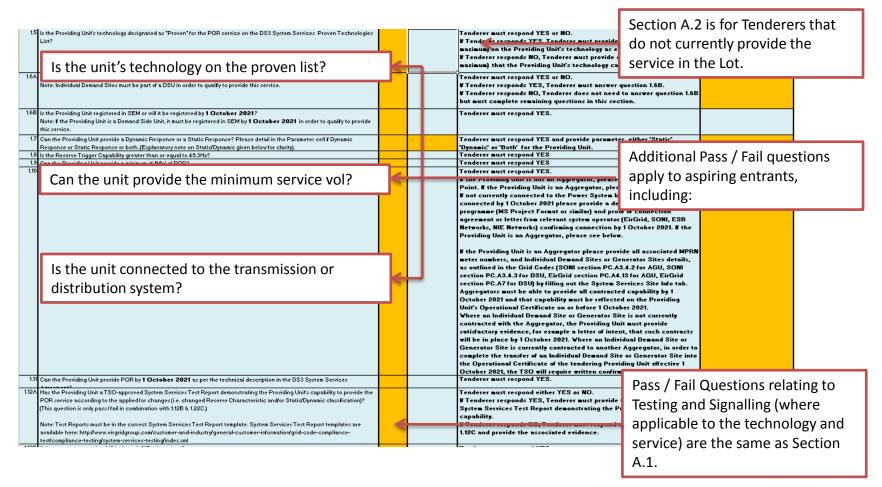


## Sample Lot – Section A – Signals





### Sample Lot – Section A





### Sample Lot – Section B

Section B is for Distribution-Connected Candidates only. PRIMARY OPERATING RESERVE (POR) SECTION B - PASS/FAIL 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 required (e.g. pg.4 POR 1.15 If the Providing Unit is connected to the Ireland' Northern Ireland Distribution System or will be before 1 October 2021, do you Tenderer must respond YES. understand that formal notification must be provided from the relevant DSQ/DNQ confirming consent for the service to be provided by 13 Formal notification from the relevant DSC/DNO confirming consent for the Providing Unit to provide the service must be provided by 13 August 2021.



## Sample Lot – Section C

Q No C			•		completed as sp					
Q No C				<b>▼</b>						
Q No C					completed as sp	Jecineu.				
Q No C	PRIMARY OPERATING RESERVE (POR) SECTION C -	TECHNIC		MATION PURPOSES ONLY) QUESTIONNAIRE						
	Description	Respons		Notes		Please provide document				
			(All orange			name, location and cross				
			fields must			reference number in				
			be completed, if			submission for				
			completea, ir not			explanation where required (e.g. pg.4 POR				
	· D C · D L · D D (DVILL) IIO DECRONOS		riot			required (e.g. pg.4 FOR				
	perating Reserve Questions Relating to POR (DYNAMIC RESPONSE)									
	the Providing Unit can provide a Dynamic Response please confirm and complete questions 2.1 - 2.10.					1				
	/hat is the Reserve Trigger Capability of the Providing Unit? (Definition of Reserve Trigger Capability given below). the Reserve Trigger adjustable? (Definition of Reserve Trigger given below).				Tenderers must	specify the				
	the Reserve Trigger adjustable? (Definition or Reserve Trigger given below). the Reserve Trigger is adjustable what is the adjustable range? Please note that the lower limit of the range cannot									
	the neserve ingger is adjustable what is the adjustable range? Hease note that the lower limit or the range cannot e lower than 49.3 Hz and the upper limit of the range cannot be above 49.985 Hz.				total contracted	l volume that is 👢				
	the Governor Droop adjustable?									
	rhat is the Governor Droop adjustable range?				being applied fo	or.				
	hat is the Governor Droop currently set at whether fixed or adjustable?				8					
	what capacity is the droop referenced?									
	DTE: Droop is normally referenced against Registered Capacity.									
	the Providing Unit is a part or whole of a CCGT Installation and can operate in Open Cucle Mode, what is the									
	overnor Droop adjustable range when operating in Open Cycle Mode?									
	the Providing Unit is a part or whole of a CCGT Installation and can operate in Open Cycle Mode, what is the									
	overnor Droop currently set at whether fixed or adjustable when operating in Open Cycle Mode?									
	the Providing Unit is a part or whole of a CCGT Installation and can operate in Open Cycle Mode, at what capacity is									
	e droop referenced if not referenced against Registered Capacity when operating in Open Cycle Mode?									
	perating Reserve Questions Relating to POR (STATIC RESPONSE)									
3 lf	the Providing Unit can provide a Static Response please confirm and complete questions 3.1-3.7.									
	hat is the Reserve Trigger Capability of the Providing Unit? (Definition of Reserve Trigger Capability given below).									
	the Reserve Trigger is adjustable what is the adjustable range? Please note that the lower limit of the range cannot									
	e lower than 49.3 Hz and the upper limit of the range cannot be above 49.985 Hz.(Definition of Reserve Trigger given									
	hat is the Reserve Trigger currently set at (where applicable)?				·					
	the Reserve Trigger adjustable?									
	hat is maximum number of Reserve Step Triggers? (Definition of Reserve Step Triggers given below).									
	each Reserve Step Size adjustable? (Definition of Reserve Step Size given below).									
	the answer to question 3.6 is YES, please specify the Reserve Step Sizes which are adjustable and provide the									
	sociated adjustable range in MW.									
	eneral Primary Operating Reserve (POR) Technical Questions									
	hat is the maximum volume of POR that the Service Provider is seeking to contract for the Providing Unit under the									
	egulated Arrangements?			DI L. ID CI						
4.2 PI	ease 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 <a href="http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-testing/system-services-testing/index.xml">http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-testing/system-services-testing/index.xml</a>
- 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: Friday 6<sup>th</sup> August 2021
  - Test dates must be agreed by: 14th July 2021
    - 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 20 August 2021 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**

- WFPS Operating Reserve
  - May not witness unless Emulated Inertia
  - > Tests will still be scheduled via existing calendar process
- Conventional TOR2
  - EDIL instruction or suitable alternative
- Battery Ramping Services
  - Alternative options if EDIL instruction and TOD are not feasible



### **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 1<sup>st</sup> October 2021, 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 4B
- 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 20st August 2021:
  - 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.

All queries will receive a written response following the webinar.



#### Webinar - Concluded

#### **Queries on Volume Uncapped Gate:**

- > Send no later than 12:00 hrs Irish Time on 28th June 2021.
- > To: anna.pockock@eirgrid.com and tenders@eirgrid.com

EirGrid will respond to all queries by 02<sup>nd</sup> July 2021.

Webinar slide deck will be published shortly.

