



All-island Network Code Stakeholder Forum

12th August 2020

Webinar



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- Presentation recording may be possible – will be highlighted at the start of the webinar if this is the case.
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- Slides will be circulated in advance of the webinar and will be made available on-line after the meeting, subject to any error corrections that may be noted during the webinar.

Agenda

- 10:00-10:05 Intro and overview of proceedings
- 10:05-10:45 RAs high level overview of progress on 8 NC and CEP deliverables
- 10:45 -11:10 TSOs high level overview of progress
- 11:10 -11:35 DSOs high level overview of progress
- 11:35 -11:50 Stakeholder questions or further clarifications
- 11:50 – 12:20 Overview of forthcoming Stakeholder questionnaire on 15 min Imbalance Settlement Period
- 12:20 – 12:50 Emergency Restoration consultation overview
- 12:50 -13:00 Questions and answers and final wrap up.



Regulatory update on EU Network Codes and Clean Energy Package

Ian McClelland (UR)

Kenny McPartland (UR)

Heather Pandich (CRU)



Why should you be interested?

- **Changes to connection standards** – Generator Connections, Demand connections, HVDC connections (Interconnectors/Offshore etc)
- **Changes to System Operations, Data Exchange requirements, Grid codes, Black start services, Emergency procedures** - System Operation, Emergency Restoration
- **Changes to Market Operations, Harmonised EU Platforms, Interconnector Flows** - Electricity Balancing, CACM, FCA

EU Network Codes and Guidelines

Connections

Requirements for
Generators (RfG)

Demand Connection
(DCC)

High Voltage DC
(HVDC)

Operational

System Operation
(SOG)

Emergency Restoration
(ER)

Markets

CACM- Capacity and
Congestion
Management

Forwards and Liquidity
(FCA)

Balancing (EBGL)

Visibility of work underway

TSOs

SONI [website](#)

EirGrid [website](#)

DSOs

ESBN [website](#)

NIE
[website](#)

Regulatory Authorities

CRU
[website](#)

UR
[website](#)

All-EU Bodies

ENTSO-E [website](#)

CEER [website](#)

ACER [website](#)

Requirements for Generators (RfG)

- **UR/CRU Update** – Derogation requests received from TSOs on Articles 15.2.d (i), (ii) & (iii), 16.2, 18.2.b (i), 21.3.b (i) & (ii) and 25.5 of the RFG. Approval expected around the end of August from CRU. UR legal team are reviewing the derogations with a decision expected in the coming weeks.

Demand Connection Code (DCC)

- **UR** – SONI are proceeding to incorporate all UR approved DCC parameters in to SONI Grid code along with the clauses that have outstanding RfAs.
- It has been agreed with SONI that they will issue a holding response, in the form of a progress status, ensuring that the consultation explicitly states what parameters are being consulted upon, i.e. the approved parameters and the RfA.
- **CRU** - EirGrid has formally submitted requests for amendments (RfAs) on Articles 18.3, 19.1, 19.4 (a) & (c), 28.2 (e) & (l) and 29.2 (d) & (e). RA approval is expected around the end of August.
- Formal derogation requests for Articles 13.1 and 53.1 also received, approval expected around the end of August.

HVDC

- **UR** - SONI have responded to a RFA for their HVDC submission, this was received by UR in May 2020. After further discussions with SONI, the UR are currently reviewing the amendments and will be responding with our decision in the near future.
- **CRU** - CRU and EirGrid meeting on 17 August to finalise decision paper and set publication date.
- Information on derogations submitted under this network code (Articles 18.1, 39.8 and 40.1) will be discussed in the decision paper.

System Operation (SOGL)

- **UR/CRU recent approvals** - Article 6.3b Common provisions for each capacity calculation region for regional operational security coordination has been approved by CRU, UR and Ofgem in June 2020.
- **UR/CRU ongoing work** – UR and CRU are currently reviewing Article 6.3(a) Each synchronous area for the definition of minimum inertia and Article 145.2 Cost benefit of analysis of not implementing a Frequency Response Process (FRP). The RAs will aim to respond to these submissions in the near future.
- The UR have approved SONI's submission of Article 6.4(b) Scope of data exchange with DSOs and significant grid users in March 2020. CRU are currently working with EirGrid, and are close to reaching an approved decision on this Article.

Emergency & Restoration Code

- **Ongoing work** – Both EirGrid and SONI are currently consulting on 5 documents related to the Emergency Restoration Network code. The closing date to respond to the consultation is 21 August 2020. UR and CRU will be expecting formal submission of documents after SONI and EirGrid have received and reviewed responses.

MARKET CODES: FCA & CACM

- **FCA**

- April 2020 – IU RAs approved the amended IU TSOs’ proposal for a Common Capacity Calculation Methodology

- **CACM**

- No recent approvals
- “CACM Annual Report 2019” - published in July 2020 by All NEMO Committee
 - <http://www.nemo-committee.eu/assets/files/cacm-annual-report-2019.pdf>
 - Includes a review of the performance of the SDAC & SDIC and an assessment of scalability requirements based on a number of new legal requirements

- SDAC Products Consultation
 - May 2020 - the NEMO Committee consulted on the products that can be taken into account in the SDAC, under Article 12 of the CACM Regulation
 - This included a consultation on the inclusion of Scalable Complex Orders
 - A presentation on these can be found at:
 - http://www.nemo-committee.eu/assets/files/200408_SCOs_public_consultation_information-b28a39ed639f2676f5d7cd465eac5f16.pdf
 - A proposal is due to be submitted for consideration and approval by ACER

- Bidding Zone Review
 - Article 14 of new Electricity Regulation – by 5 October 2019, TSOs to submit proposal for methodology and assumptions to be used in bidding zone review process and for alternative bidding zone configurations to be considered by relevant RAs for approval
 - Dec 2019 – ACER determined initial submission incomplete due to absence of alternative configurations and requested the proposal be re-submitted
 - Feb 2020 – Updated proposal was re-submitted by the TSOs
 - Approval process now with ACER – intends to launch a public consultation in September 2020.

- Bidding Zone Review (continued)
 - First set of decisions on the methodology for review and limited bidding zone configurations expected in November 2020.
 - The current intention, subject to legal review, is to issue a second decision on remaining bidding zone configurations in 2021.

MARKET CODES: EBGL

Central Dispatching Model Notification (Article 14)

- May 2020 - TSOs notified RAs that they are applying a central dispatching model and intend to continue to apply this model (as per Article 14 requirement)
- <https://www.uregni.gov.uk/publications/notification-central-dispatching-model>
- https://www.cru.ie/document_group/eu-electricity-network-codes/

Methodologies (recent decisions by ACER)

- Art. 22 – Adoption of Implementation Framework for Imbalance Netting Process
- Art. 29 – Adoption of the Methodology for classifying Activation Purposes of Balancing Energy Bids

Methodologies (recent decisions by ACER) [continued]

- Art. 50 – Adoption of the TSOs' Settlement Rules applicable to all intended exchanges of energy
- Art. 52 – Adoption of the Harmonisation of the Main Features of Imbalance Settlement
- Details of all ACER Decisions can be found at:
https://acer.europa.eu/Official_documents/Acts_of_the_Agency/Pages/Individual-decision.aspx

Other

- RAs and TSOs are undertaking a local code review to assess the current Balancing Market's compliance with the EBGL.
- Future consultation on gap analysis. Information to be communicated in due course.

Clean Energy Package Update

Balance Responsibility and Aggregation

- Information Paper on Balance Responsibility in the SEM (SEM-20-027) to address Article 5.
- Consultation on Aggregation (SEM-20-042) to address Articles 6&7.
- Upcoming Work:
 - Decision on Aggregation in in the SEM

Clean Energy Package Update - Continued

Dispatch and Redispatch

- Consultation on Implementation of Regulation 2019/943 in relation to Dispatch and Redispatch (SEM-20-028) to address Articles 12&13.
- Upcoming Work:
 - Information Paper outlining upcoming Decisions in relation to Dispatch and Redispatch and for Compensation for Redispatch.
 - Eligibility for Priority Dispatch and significant modifications under Article 12(6).
 - Definition of non-market based redispatch and compensation under Article 13(7).
 - Treatment of new units in scheduling and dispatch and Energy Balancing.
 - Priority Dispatch Hierarchy.

Clean Energy Package Update - Continued

Market Parameters

- RAs submitted Information Notes on compliance with Article 10 Technical Bidding Limits to the DCCAE and DfE.
- Engagement ongoing with ACER on potential exemption from the 15-min imbalance settlement period requirement under Article 8.
- Engagement ongoing with ACER on the methodologies concerning calculations for VoLL, CoNE and Reliability Standard, and on the methodology for the ERAA as required under Article 23.
- Upcoming Work:
 - Updated SEM Calculations of VoLL, CoNE and Reliability Standard.

Clean Energy Package Update - Continued

Capacity Remuneration Mechanism

- 2024/25 T-4 Capacity Auction Parameters and Compliance with the Clean Energy Package (SEM-20-034) to address Article 22.
- Upcoming work:
 - Monitoring implementation of the Decisions

RCC Establishment

- Receipt of proposal on Regional Coordination Centre Establishment by TSOs in July as required by Article 35.
- Upcoming work:
 - RAs to assess and form a Decision on the proposal.



TSO update



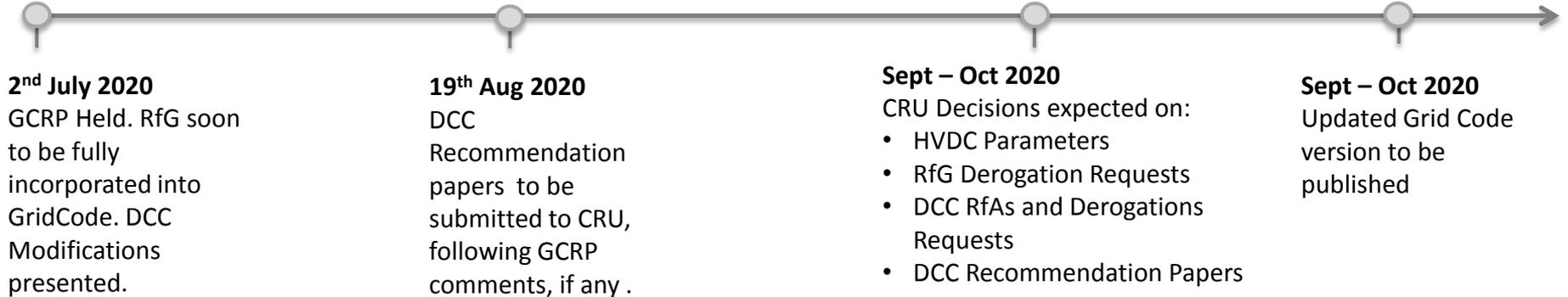
SOGL

- Operational Agreements between EirGrid and SONI
 - RAs approved the required subset of the methodologies in November 2019
 - EirGrid and SONI signed the agreements which came into force in February 2020
 - Available on our websites to download
 - The BMPS has been updated to reflect changes and is out for consultation
- [Regional Operational Security Coordination](#) (ROSC) Methodology for Ireland-UK has been approved by the RAs
- [DS3 Guidance document](#) has been updated
 - Mapping of names of existing services to EUNC names
 - Timelines for prequalification are highlighted to reflect SOGL requirements (no changes)
- KORRR (Data Exchange)
 - The SOs are currently considering a number of queries from the RAs

EirGrid Connection Codes

A successful GridCode Review Panel(GCRP) was held 2nd July, allowing progress of CNCs into BAU.

Key Activity Timeline



If you have any concerns or queries, please contact gridcode@eirgrid.com

SONI Connection Codes

- **Incorporation of the non-exhaustive requirements of the RfG into the Grid Code.**
Approved by UR. Latest version of Grid Code published February 2020.
- **Incorporation of the exhaustive requirements of the RfG into the Grid Code.**
Consultation complete, final version with UR for approval. Sent to UR on 10th July 2020.
- **Requests for amendments for DCC & HVDC, as detailed in the UR decision paper.**
Response letters submitted to UR in March 2020. (follow-up response for HVDC sent to UR on 10th July 2020)
- **Incorporation of the non-exhaustive & exhaustive requirements of the DCC into the Grid Code.**
Currently being progressed
- **Incorporation of the non- exhaustive & exhaustive requirements of the HVDC into the Grid Code.**
Currently being progressed

If you have any concerns or queries, please contact gridcode@soni.ltd.uk

EirGrid and SONI Emergency & Restoration Code (ER)

Working towards resubmission of ER documents to RAs and confirmation of compliance.

Key Activity Timeline

3rd July 2020
ER document
public consultation
opened

7th Aug 2020
Original ER
Closure date

12th Aug 2020
All Island Forum

21st Aug 2020
Extended ER
Closure date

30th Sept 2020
Planned submission date
for ER documents to RAs.
Dependent on
Consultation Responses

Please review and response to the Consultation at the below links:

SONI: <http://www.soni.ltd.uk/customer-and-industry/european-integration/integration/>

EirGrid: <http://www.eirgridgroup.com/customer-and-industry/european-integration/integration>

EBGL

EBGL implementation work over the past few months has primarily focussed in the following areas:

- Article 18 requirements to have certain rules in local Terms and Conditions;
- General gap analysis between the detail of the local arrangements and the EBGL requirements;
- Recent ACER decisions on EBGL all-TSO methodologies;
- 15 Minute Imbalance Settlement Period (separate agenda item on this).

EBGL

Current work is not focusing on EU balancing platforms (TERRE, MARI), instead focusing on local arrangements:

- Quotes from European Commission opinions on Ireland and Northern Ireland's market reform plans published 30/04/2020:
 - “The Commission considers that Ireland should join the EU platforms as soon as it becomes interconnected with the integrated electricity market of the EU. The Commission encourages Ireland to adopt a timetable for this.”
 - “The Commission notes that with the UK's departure from the EU Ireland's power system is currently not connected to any other power system in the EU.”
 - “The Commission considers that Northern Ireland should join the EU platforms as soon as the Island of Ireland becomes interconnected with the integrated electricity market of the EU. “

EBGL

Article 18 Terms and Conditions:

- Recently completed exercise mapping EBGL requirements to local codes (TSC, GC, System Services documents, etc.), and mapping European terminology/definitions to their equivalent in the SEM;
- This will act as the evidence that the EBGL elements which are relevant to the SEM and are required under Article 18 to have local terms and conditions are contained in an existing rules document, rather than creating any new Terms and Conditions documents or governance;
- This document will be going to public consultation soon on the EirGrid and SONI websites, before being formally submitted to the RAs for approval and therefore compliance with Article 18.

EBGL

Gap analysis between EBGL requirements and local arrangements:

- Focussed to analysing whether the detail of the local design matches the detail of the requirements in EBGL;
- Analysis includes all relevant articles in EBGL, with particular focus on the following topics:
 - Balancing Energy Pricing and Settlement: Articles 30, 44-49;
 - Imbalance Pricing and Settlement: Articles 52-55;
 - Publications and data: Articles 12, 59, 60;
 - Terms and conditions requirements, modifications, and approval: Articles 4-7, 10, 18, 24, 26;
 - Also considering the relevant EBGL methodologies, particularly the Imbalance Settlement Harmonisation Proposal (ISHP) and the Pricing Proposal (PP);
- Complex due to structural differences between SEM and European markets requiring interpretation:
 - E.g. Central Dispatch Integrated Scheduling Process approach makes differentiation between energy and non-energy less easy to determine than under Self Dispatch approach, but many EBGL requirements are based on energy actions specifically.
- Intended for separate consultation by RAs.

EBGL

ACER has recently made decisions approving a number of EBGL all-TSO methodologies:

- Methodologies which are relevant to the SEM or the MARI and TERRE platforms, incorporating impact into gap analysis work:
 - Imbalance Settlement Harmonisation Proposal (ISHP);
 - Activation Purposes Proposal (APP);
 - Settlement Proposal (SP) for intended exchanges of energy.
- Methodologies which are currently not relevant to the SEM:
 - Standard Products for Balancing Capacity (SPBC);
 - Co-Optimised Cross Zonal Capacity Allocation (CO CZCA);
 - Imbalance Netting Implementation Framework (INIF);
 - Settlement of intended exchanges of energy within a synchronous area;
 - Settlement of unintended exchanges of energy within a synchronous area;
 - Settlement of intended exchanges of energy between asynchronously connected TSOs for Frequency Containment Reserve and ramping (FSkar);
 - Settlement of unintended exchanges of energy between asynchronously connected TSOs.

CACM/FCA

CACM

- Current **Capacity Calc Region (CCR) revision** underway – following central EU legal decisions. Status quo proposal for all CCRs, follow on work on wider considerations will be addressed later.
- CCR consultation anticipated to start next week (on ENTSO-E website)
- The **2019 CACM cost report** has been approved by all TSOs and all NEMOs on the 29 July 2020 and submitted to all NRAs on the 30 July 2020. Link to the final report published on ENTSO-E website [here](#). The report has also been published on the NEMOs website.

FCA

- Interim Long Term capacity calculation [methodology](#) implementation underway until full process is available (requires CORESO services)

Clean Energy Package deliverables

- 6 April 2020: ACER approval [[DECISION No 10/2020](#)] of the TSO proposal for the **System Operation Region (SOR)**; including the proposal for the IU Region – IE/NI/GB and GB- BE, GB-FR, GB-NL Interconnectors. ACER approved noting UK Brexit Transition period *[Art 36 of Reg 2019/943]*.
- 27 April - 22 June: SEM-C [consultation](#) on **Dispatch and Redispatch** – TSOs submitted a response to the consultation *[Art 12 & 13 Reg. 2019/943]*
- 26 June: Submission of assessment of **regional crisis scenarios** to ENTSO-E *[Art 6 of Risk Preparedness Regulation]*

Clean Energy Package deliverables

- July 2020:– TSOs submitted a proposal for the **Regional Coordination Centre (RCC)** to CRU, UR and Ofgem [acknowledging need to address NGESO status as Third Country TSO - to be addressed later] *[Art 35 of Reg 2019/943]*.
- 3 July: ENTSO-E [submission](#) of the **Proposed methodologies, common rules and terms of operation** related to cross-border participation in capacity mechanisms. The ACER public [consultation](#) closed on 9 August – expected decision within 3 months. *[Art 26 of Reg 2019/943]*.



DSO update



ESBN updates

- RfG update
- DCC update

ESBN RfG update - 1

- Version 7 of D-Code with substantial RfG technical content with CRU for approval
- **Stop Press!! Version 7 has been approved!!!**
- D-Code mod for RfG derogation process out with DCRP members for voting on at September meeting

ESBN RfG update - 2

- ESBN Operational Notification [ON] process is well developed. However some fundamental technical issues to be resolved between ESBN/EirGrid
- For PPMs >5MW [1MW], process will look the same as existing Op Cert process but possibly more formalised
- For generators >100kW not controllable by EirGrid, this will be new departure – have not been issued Op Certs to date
- Process also mandates the issuance of a Power Generation Module Document [PGMD] for Types B and C generators – this will be like a “logbook” for the milestones necessary for ultimate issuance of ON
- Further socialization to follow.....

Item	Description	Status	Deadline
Operational Notification Confirmation Deadline			
Operational Certificate Deadline			
ON			
1	PCM Commissioning schedule (also updated) provided by PGSD	Open	E 2008 & E 1500 for update
2	Grid Requirements	Open	E 2008 before energisation
3	Power Quality Self Assessment Report by PGSD	Open	E 2008
4	Voltage Drop Test Through ESBN provided by PGSD	Open	E 2008
5	Dynamic Model provided by PGSD	Open	E 2008
6	Reactive Power Capability and Transmission System Voltage Profile	Open	E 2008 before energisation
7	Notification of Study Results?	N/A	4 weeks before energisation
8	Info on the design of TSO specific protection PGSD	Open	E 2008
New	TSO Signal set (with Requirements Devolving TSO Signal Set)	Open	E 2008
New	Info not to develop ESBN Signal sets provided by PGSD (for Reactive Power)	Open	E 2008
9	Confirmation of PGSD Capability by PGSD	Open	E 2008
10	Transmission System Emergency Ranges	Open	4 weeks before energisation
11	State Events - Submission of data whether from assumed data by PGSD	Open	E 2008
12	Grid Connected Transformer	Open	4 weeks before energisation
13	Agree Protection Settings?	Open	4 weeks before energisation
14	Implemented Protection Settings?	Open	4 weeks before energisation
15	Confirmation of PGSD Control settings (frequency Response, Voltage Drop etc.)	Open	E 2008
16	Meeting Equipment - Meeting Requirements by PGSD	Open	E 2008
17	Authorisation to Connect	Open	E 2008
18	Confirmation of Protection Requirements by PGSD	Open	E 2008
19	Market Registration provided by PGSD	Open	E 2008
20	Operational Information (e.g. Data contracts) provided by PGSD	Open	E 2008
21	Inspection of MFT Hardware	Open	4 weeks before energisation
22	Operation manual?	Open	4 weeks before energisation
23	Generation Instructions?	Open	1 week before energisation
24	Wiring Completion Certificate for wiring to TSO HV provided by PGSD	Open	1 week before energisation
New	Wiring Completion Cert for wiring to TSO HV provided by PGSD (for Reactive Power)	Open	
25	Pre-energisation Agreements and controls checks for TSO controls & interlocks	Open	1 week before energisation
New	Pre-energisation Agreements and Controls Cert for TSO controls & interlocks (for Reactive Power)	Open	
New	Interlock Protection	0	0
New	TSO Protection Settings	0	0
ON			
	Description	Status	Deadline
26	Harmonics Study	Open	Immediately following energisation
27	Post-energisation signals and controls checks - Test Cert provided by PGSD	Open	PCT - 1500
28	Signal Testing Program - TSO and Grid Controllability & Response response	Open	4 weeks after test WTS installed
29	Reactive Power Dispatch Test Program	Open	4 weeks after test WTS installed
30	WTS Transformer Test	Open	4 weeks after test WTS installed
31	Implemented Protection Settings	Open	4 weeks after test WTS installed
32	Interlock Protection	Open	4 weeks after test WTS installed
33	Harmonics Assessment	Open	4 weeks after test WTS installed
34	PGSD Confirmation, Make Good to Customer (Bridging)	Open	
35	Signal Test at MDC Test	Open	
36	TSO IEM	Open	
37	TSO IEM O	Open	
38	TSO IEM A	Open	
39	Reactive Power	Open	
ON			
	Description	Status	Deadline
40	Active Power Control	Open	12 months after energisation
41	Frequency Response	Open	12 months after energisation
42	Reactive Power Control	Open	12 months after energisation
43	Reactive Power Capability	Open	12 months after energisation
44	Black Start Capability	Open	12 months after energisation
45	Test Report	Open	12 months after energisation
46	Capacity Test	Open	12 months after energisation
47	Generator Data	Open	12 months after energisation
48	Model Validation	Open	12 months after energisation
49	Harmonics Assessment	Open	12 months after energisation
System Services			
	Description	Status	Deadline
44	Reserve Services	Open	12 months after energisation
45	Fast Start - Non Active Power Recovery & Dynamic Reactive Response	Open	12 months after energisation
46	Steady State Reactive Power	Open	12 months after energisation

ESBN DCC Update

- Currently preparing Distribution Code Modifications for presentation at next Distribution Code Review Panel Meeting

NIEN updates

- RfG update
- DCC update

NIEN RfG update

- Issue 5 of D-Code approved 26 April 2019
- New EREC G98/NI approved 26 April 2019
 - Replaces EREC G83; Applies to generation <16 Amps/phase & includes RfG requirements
- New EREC G99/NI approved 26 April 2019
 - Replaces EREC G59/1/NI; Applies to all generation >16 Amps/phase & includes RfG requirements
- New PPM Setting Schedule Issue 1 approved 26 April 2019
 - Replaces WFPS Setting Schedule; Applies to Type C & D PPM's and includes RfG requirements
 - Issue 2 approved 20 February 2020 following SONI consultation

NIEN DCC Update

- Issue 5 of D-Code approved 26 April 2019
 - New Connection Condition 13 – Demand Side Services includes DCC requirements

Update conclusion

- Questions?
- Please request workshops
- Watch out for consultations
- Engage at Grid Code/Distribution Code
- Please ensure your businesses are informed

Thank you



15 min Imbalance Settlement Period CBA – upcoming questionnaire

RA introduction

Background

- Guideline on Electricity Balancing (2017/2195) the “EBGL” puts an obligation on all Member States to implement a process of harmonisation whereby all Imbalance Settlement Periods (ISPs) will be set to 15 minutes by 3 years after entry into force
- The RAs do not believe that a 15-minute ISP can be implemented in the all-island Single Electricity Market (SEM) by January 2021
- Two possible options, seek a derogation or an exemption
- The RAs are seeking an exemption from the 15-minute ISP, and as part of this must undertake a Cost Benefit Analysis (CBA) in cooperation with ACER
- This CBA will look at the costs and benefits of changing from the current arrangements (30-minute ISP) to a 15-minute ISP

Cost-Benefit Analysis

- The original CBA that was used to support the ISP of 15 minutes in EBGL was published in 2016. This modelling was carried out by Frontier Economics in a report for ENTSO-E
- The RAs are taking this analysis published in 2016 as the starting point in carrying out an updated CBA for Ireland and Northern Ireland.
- As part of the CBA work a questionnaire is being developed
- This questionnaire will assemble data on the costs and benefits to stakeholders of changing the current imbalance settlement period from 30 minutes to 15 minutes
- The compiled results from this questionnaire will feed into the CBA
- The RAs have discussed and agreed this approach with ACER

Questionnaire

- The layout of the questionnaire has one tab/page for:
 - the respondent to identify themselves and describe what type of market participant they are
 - Costs
 - Benefits
- The costs/benefits tab/page lists different line items/questions to capture the costs and possible benefits of changing from the current arrangements to a 15-minute ISP
- This questionnaire will be published on the SEMC website in the next 1-2 weeks

Questionnaire 2

[Identifier code]

Please only submit costs applicable to your business. These costs will be distributed in proportion to the activities identified on the Respondent-ID sheet.

Only submit *additional* costs caused by the move to 15-minute ISPs.

Currency: EUR

Item	Unit
Trading systems/platforms	
Update to systems and processes to support trading systems	
Development of new trading algorithms	
Other (please specify)	
Metering and notification systems	
Cost of incremental changes to metering systems and processes to provide shorter timeline data relating to metering	
for meters on the transmission network	
for meters on distribution network	
Cost of incremental change to processes required to provide shorter timeline data relating to providing contract volume notifications for each ISP to the operator of the settlement system	
Cost of incremental change to processes required to provide shorter timeline data relating to physical generation and consumption plans to the TSO (or other service provider) prior to gate closure	
Change to systems and processes used to allocate volumes associated with non-ISP based metering to ISPs	
Other (please specify)	
Scheduling and settlement	
Change to the systems and processes used to schedule plant	
Change to central systems and processes to calculate and settle imbalances to deal with shorter ISP, and change to participant systems which interact with these	
Change to systems and processes to facilitate settlement of trades (bilaterally and on exchange) on a shorter ISP basis	
Data publication costs	
Other (please specify)	
Billing systems	
Change to systems and processes to facilitate billing of customers based on shorter ISP basis	

Navigation: Cover Respondent-ID **Costs** Benefits +

[Identifier code]

Please only submit benefits applicable to your business. These benefits will be distributed in proportion to the activities identified on the Respondent-ID sheet.

Only submit *additional* benefits caused by the move to 15-minute ISPs and not your total throughput or total price.

Currency: EUR

Item	Unit	
Reduced balancing costs		
Impact on intraday trading and physical balancing actions undertaken by BRPs and balancing actions undertaken by TSOs	a) Incremental annual volume of trading and physical balancing actions by BRPs / reduction in balancing actions by TSO	MWh
	b) Average price difference (balancing on intraday vs. imbalance settlement price achieved by TSO)	EUR/MWh
Impact on capacity withheld by the BRP	a) Volume of capacity with-held by BRPs	MW
	b) Average cost of with-holding reserve as BRP relative to cost of holding reserve as a TSO	EUR/MWh
Cross-border effect	c) Average reduction in reserve capacity by TSO	MW
	a) Price discount to be achieved relative to the cost of trading at higher granularity in the local intraday market	EUR/MWh
Impact on prices	b) Reduction in the cost of with-holding capacity for the BRPs	EUR/MWh
	a) Yearly average change in the wholesale price	EUR/MWh
Impact on entry of BSPs	b) Yearly average change in the balancing price	EUR/MWh
	c) Yearly average change in the imbalance settlement price	EUR/MWh
Further impact on balancing	a) Total volume of BSP capacity	MW
	b) Impact on average yearly balancing price	EUR/MWh
Other (please specify)	c) Impact on average intraday price	EUR/MWh
	d) Yearly volume of balancing actions	MWh
	a) Impact on volumes	MWh
	b) Impact on prices	EUR/MWh

Navigation: Cover Respondent-ID Costs **Benefits** +

Next steps

- The questionnaire will be published on the SEMC website in the next 1-2 weeks
- This consultation will open for 4 weeks
- It is important stakeholders respond to this questionnaire, in order to provide a broad and accurate set of data to feed into the CBA
- The compiled results from this questionnaire/consultation process will feed into the CBA
- The RAs will use this compiled data to feed into the CBA, and advance this work in cooperation with ACER

Emergency & Restoration Code- OVERVIEW

- The Network code for ER came into effect on 18/12/2017.
 - Objective being the establishment of rules relating to the management of the transmission system, in the event of :
 - Emergency
 - Blackout
 - Restoration

So that the transmission system can be brought back to the normal, stable state.
- On 02/09/2019 and 01/10/2019 respectively, the CRU and UR requested amendments to our proposals for the implementation of ER.
- The TSOs and DSO have rewritten these proposals and they are currently out for Public Consultation

ER Consultation – EirGrid

- The EirGrid Consultation Documents can be found at the below hyperlink.
- They include:
 - 1. System restoration plan for Ireland re-submission
 - 2. System defence plan for Ireland re-submission
 - 3. The terms and conditions to act as a restoration service provider for Ireland re-submission
 - 4. The terms and conditions to act as a defence service provider for Ireland resubmission
 - 5. The rules for the suspension and restoration of market activities for Ireland re-submission
 - 6. Response proforma Ireland re-submission

[EirGrid Group Website](#)



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Consultations

A number of consultations will be held prior to the submission of proposed new local, regional and European rules.

For European and Regional consultations please visit the [ENTSO-E consultation hub](#).

Local consultations related to the Network Codes are shown below.

- SOGL – Coordinated Security Analysis (CSA) Consultation – (Ireland & United Kingdom)
- Key Organisational Requirements, Roles and Responsibilities SGU Consultation – Ireland
- Electricity Emergency and Restoration Consultation – Ireland

08.07.2020 Regulation (EU) 2017/2196 establishing a network code on electricity emergency and restoration (NCER) aims to maintain operational safety and prevent the spread of an incident on the electricity network that could result in a widespread failure.

Consequential to a number of requirements mandated by NCER, the TSO (EirGrid) and DSO (ESB Networks) are seeking your feedback on a number of documents. The documents are available for download:

1. System restoration plan for Ireland re-submission
2. System defence plan for Ireland re-submission
3. The terms and conditions to act as a restoration service provider for Ireland re-submission
4. The terms and conditions to act as a defence service provider for Ireland re-submission
5. The rules for the suspension and restoration of market activities for Ireland re-submission
6. Response proforma re-submission

The consultation runs from 8 July 2020 to 5pm close of business 7 August 2020 inclusive.

We look forward to receiving your feedback and will use it to inform our submissions to the Commission for Regulation of Utilities. A response proforma has been provided to facilitate this feedback (see document 6 above). Please email your submission by 17.00 on 7 August 2020 to gridcode@eirgrid.com or for any material related specifically to Distribution System Operation, to DSOGenerators@esb.ie, with the subject title “Emergency and Restoration Consultation - Ireland”.

ER Consultation - SONI

- The SONI Consultation Documents can be found at the below link.
- They include:
 - 1. System restoration plan for Northern Ireland re-submission
 - 2. System defence plan for Northern Ireland re-submission
 - 3. The terms and conditions to act as a restoration service provider for Northern Ireland re-submission
 - 4. The terms and conditions to act as a defence service provider for Northern Ireland resubmission
 - 5. The rules for the suspension and restoration of market activities for Northern Ireland re-submission
 - 6. Response proforma Northern Ireland re-submission

[SONI Website](#)

[EirGrid Group Website](#)



Electricity Emergency and Restoration Consultation – Northern Ireland

08.07.2020 Regulation (EU) 2017/2196 establishing a network code on electricity emergency and restoration (NCER) aims to maintain operational safety and prevent the spread of an incident on the electricity network that could result in a widespread failure.

Consequential to a number of requirements mandated by NCER, SONI is seeking your feedback on a number of documents. The documents are available for download:

1. [System restoration plan for Northern Ireland re-submission](#)
2. [System defence plan for Northern Ireland re-submission](#)
3. [The terms and conditions to act as a restoration service provider for Northern Ireland re-submission](#)
4. [The terms and conditions to act as a defence service provider for Northern Ireland re-submission](#)
5. [The rules for the suspension and restoration of market activities for Northern Ireland re-submission](#)
6. [Response proforma re-submission](#)

The consultation runs from 8 July 2020 to 5pm close of business 7 August 2020 inclusive.

We look forward to receiving your feedback and will use it to inform our submissions to the Commission for Regulation of Utilities. A response proforma has been provided to facilitate this feedback (see document 6 above). Please email your submission by 17.00 on 7 August 2020 to gridcode@soni.ltd.uk with the subject title “Emergency and Restoration Consultation – Northern Ireland”.

ER Consultation Documents

EirGrid and SONI

System Restoration Plan (SRP) Ireland & System Restoration Plan(SRP) Northern Ireland

Key Aspects:

- Assumptions of SRP
- Activation of SRP
- Re-energisation procedure
- Frequency management
- Resynchronisation
- Resume normal Operation

ER Consultation Documents

EirGrid and SONI

System Defence Plan (SDP) Ireland & System Defence Plan (SDP) Northern Ireland

Key Aspects

- Operational Limits
 - Loss of supply
 - System frequency
 - Voltage
 - Power flows
 - System instability
- System Defence Plan Measures
 - Automatic under and over frequency control
 - Automatic scheme against frequency collapse
 - Frequency deviation management procedure
 - Voltage deviation management procedure
 - Power flow management procedure

ER Consultation Documents

EirGrid and SONI

The terms and conditions to act as a restoration service provider for Ireland re-submission & The terms and conditions to act as a restoration service provider for Northern Ireland re-submission

Key Aspects:

- Relevant Network Code Articles
- Legal Framework
- Characteristics of Restoration Service Providers
- Requirements for Aggregation
- Geographical Requirements
- Payments for Black Start Providers

ER Consultation Documents

EirGrid and SONI

The terms and conditions to act as a defence service provider for Ireland resubmission
& The terms and conditions to act as a defence service provider for Northern Ireland resubmission

Key Aspects:

- Relevant Network Code Articles
- TSO Consideration
- Individual Defence Service Provider Measures

ER Consultation Documents

EirGrid and SONI

The rules for the suspension and restoration of market activities for Ireland re-submission & The rules for the suspension and restoration of market activities for Northern Ireland re-submission

Key Aspects:

- Rules for suspension and restoration of market activities
- Specific rules for imbalance settlement and settlement of balancing energy in case of suspension of market activities.

ER Consultation Documents

EirGrid and SONI

Response proforma Ireland re-submission

Emergency and Restoration – Response Proforma Ireland

EirGrid invites responses to this consultation by 7 August 2020. The responses to the specific consultation questions (below) or any other aspect of this consultation can be provided by completing the following form.

Please return the completed form to gridcode@eirgrid.com

Respondent:	
Company Name:	
Does this response contain confidential information? If yes, please specify.	
Name of Consultation this response is in relation to:	

No	Question	Response (Y/N)	Rationale
1	Do you agree with the approach taken in the proposal? <i>please provide rationale</i>		
2	Do you agree that the proposal is consistent with the principle of minimum necessary change? <i>please provide rationale</i>		
3	Do you have any other comments in relation to the proposal? <i>please provide rationale</i>		

Response proforma Northern Ireland re-submission

Emergency and Restoration – Response Proforma Northern Ireland

EirGrid invites responses to this consultation by 7th August 2020. The responses to the specific consultation questions (below) or any other aspect of this consultation can be provided by completing the following form.

Please return the completed form to gridcode@soni.tld.uk

Respondent:	
Company Name:	
Does this response contain confidential information? If yes, please specify.	
Name of Consultation this response is in relation to:	

No	Question	Response (Y/N)	Rationale
1	Do you agree with the approach taken in the proposal? <i>please provide rationale</i>		
2	Do you agree that the proposal is consistent with the principle of minimum necessary change? <i>please provide rationale</i>		
3	Do you have any other comments in relation to the proposal? <i>please provide rationale</i>		

ER Consultation - EirGrid and SONI

- Any questions? (time dependent). Follow up questions can be sent to gridcode@eirgrid.com or gridcode@soni.ltd.uk
- Please respond formally through the Consultation process if you have any concerns with the content of the Consultation documents



Final Q&A, closing remarks and wrap up

- Meeting material publication
- Comments and queries on the session
- Feedback and planning for future sessions
- Thanks for your time & participation!

Abbreviations – to be updated

- SAOA – Synchronous Area Operational Agreement
- LFCBOA – Load Frequency Block Operational Agreement
- RA – Regulatory Authorities
- CSAm – Coordinated Security Analysis Methodology
- RAOAm – Relevant Assets Outage Coordination
- IU CCR – Ireland United Kingdom Capacity Calculation Region

- ER – Emergency and Restoration
- NCER – Network Code for Emergency and Restoration
- SRP – System Restoration Plan
- SDP – System Defence Plan
- SGU – Significant Grid User
- S&ROMA – Suspension and Restoration Of Market Activities
- RSC – Regional Security Coordinator
- ENTSOE – European Network of Transmission System Operators for Electricity

- RCC – Regional Control Centre
- SOR – System Operation Region