

7th April 2021

Market Suspension related to Emergency and Restoration (amended proposal)

Dear Ofgem,

In accordance with *COMMISSION REGULATION (EU) 2017/2196 of 24 November 2017 establishing a network code on electricity emergency and restoration (referred to as NCER)*, and *COMMISSION REGULATION (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation (referred to as SOGL)* the Transmission System Operators (TSO) of a member state are required to submit the following proposals to the regulatory authority.

Market Suspension Rules, comprising of:

- a) the rules for suspension and restoration of market activities, in accordance with E&R Article 36(1);
- b) specific rules for imbalance settlement and settlement of balancing energy in case of suspension of market activities, in accordance with E&R Article 39(1); and
- c) a proposal specifying the level of demand loss at which the transmission system shall be in the blackout state, in accordance with SOGL Article 18(3-4).

In Ofgem's¹ "Minded to decision assignment of TSO Obligations under three EU Network Codes" dated 10th January 2018², the obligations to develop the above rules and proposal was assigned to National Grid in its role as Electricity System Operator (NGESO).

NGESO is resubmitting this Market Suspension Proposal to reflect changes made to the Emergency and Restoration Code via the Statutory Instrument The Electricity Network Codes and Guidelines (System Operation and Connection) (Amendment etc.) (EU Exit) Regulations 2019/533³ which amends this regulation as retained in GB law through the European Union (Withdrawal) Act 2018/16⁴, and in exercise of the powers conferred by section 8(1) of, and paragraph 21 of Schedule 7 of this to ensure its ongoing operability.

The detailed market suspension rules proposed are the BSC and Grid Code rules set out in Table 1 attached to this letter. Table 1 in Annex A is provided to help show the existing Market Suspension rules for GB. It has also been updated to reflect changes made to the Emergency and Restoration Code via the Statutory

¹ The terms "the Authority" and "Ofgem" are used interchangeably in this document. Ofgem is the Office of the Gas and Electricity Markets Authority (the Authority).

² <https://www.ofgem.gov.uk/publications-and-updates/minded-decision-assignment-tso-obligations-under-three-eu-network-codes>

³ <https://www.legislation.gov.uk/uksi/2019/533/made>

⁴ <https://www.legislation.gov.uk/ukpga/2018/16/contents/enacted>

Instruments. Following the industry consultation that closed on 16 January 2020, NGESO has drafted an interim methodology that covers the specific requirements of Article 35(1)(b) as these are not currently in the Grid Code. Consequential BSC changes will be needed to ensure market suspension rules and settlement are aligned.

In accordance with E&R Article 36(3), whilst considering the rules for the suspension and restoration of market activities NGESO have also considered the harmonisation and compatibility of the rules with the following:

36(3)(d) The rules for provision of modifications of the position of balance responsible parties. Under the EBGL, 'position' is defined (EBGL Article 2(16)) as 'the declared energy volume of a balance responsible party used for the calculation of its imbalance'. Position is distinct from 'allocated volume' in the EBGL, where 'allocated volume' means energy volumes 'physically injected or withdrawn from the system and attributed to a balance responsible party, for the calculation of the imbalance of that balance responsible party'. Therefore, it is clear that the GB concept that is equivalent to 'modifications of the position of balance responsible parties' is an Energy Contract Volume Notification (ECVN) declared by a BSC Party pursuant to the BSC Section P.

Under the BSC, Section G3.2.1(c), there are already provisions to suspend the notification of contract volumes in accordance with BSC Section P1.6. As our proposal is that these rules form part of the rules concerning the suspension and restoration of market activities required by NCER Article 36(1), then the rules that we propose are compatible with the rules for the modification of position as required by NCER Article 36(3)(d).

36(3)(e) the rules for provision of schedules referred to in SOGL Article 111(1), namely the generation schedules, consumption schedules, internal commercial trade schedules and external commercial trade schedules. In the GB context, these schedules are partly made up of ECVNs (equivalent to commercial trade schedules), which have already been considered for compatibility above. But these schedules also include, in the GB context, external commercial trade schedules produced by TERRE and Physical Notifications (equivalent to generation and consumption schedules). The compatibility of our proposal for market suspension and restoration and the provision of TERRE commercial trade schedules will be achieved by our proposals for BSC and Grid Code changes to address RR Market Suspension set out in this letter.

Request for Amendment

On 21 November 2019, Ofgem requested amendments to the blackout state proposal, market suspension and restoration rules, and the settlement rules for market suspension. This letter details our responses to the request for amendment and the steps required to ensure compliance of NCER.

The Blackout State Proposal

Ofgem asked the ESO to ensure that the amended proposal in accordance with SOGL Article 18(4) refers only to the level of demand loss and makes no implication that would amend the definition as prescribed in Article 3(2) (22) of SOGL.

From a practical perspective, a blackout state as defined in SOGL Article 18(4) leading to NGENSO activating measures of its restoration plan can occur under two conditions these being either a total shutdown of the GB National Electricity Transmission System or a partial shutdown.

Considering a total blackout, there are various conditions under which this could occur, but a likely scenario would be in the event that all stages of the Low Frequency Demand Disconnection Scheme as defined in section CC.A.5.1 and ECC.A.5.1 of the Grid Code would have operated between 48.8Hz and 47.8Hz. Under this scenario, over 50% of demand would have been lost through disconnection and whilst it is still technically possible that a reduced network could be operated below 47.8Hz, and before the final threshold of 47.5Hz (for a period of 20 seconds) at which generators will disconnect was reached, stable operation at these frequency levels is unpredictable.

Considering a partial blackout, a likely scenario for this is the disconnection of a part of the network due to the loss of a number of transmission facilities and a consequential loss of demand in the disconnected area. This could also be characterised as a system split, in which two or more separate areas of the transmission system are established and in which demand may be retained in one or more of the resulting areas.

On this basis, and recognising these multiple scenarios, NGENSO's proposal for the definition of a "Blackout State" is that either the final stage of Low Frequency Demand Disconnection has operated or that over 50% of National Demand has been disconnected from the Main Interconnected Transmission System as prescribed in SOGL. In the case of emergency state, section 2.1.1 of the System Defence Plan aligns the definition of an emergency state with conditions laid out in SOGL Article 18(3) as follows:

- The reserve capacity in the GB Synchronous Area is reduced by more than 20% for longer than 30 minutes and there is no mechanism to recover the deficit in reserve capacity; or
- A situation when Unacceptable Frequency Conditions as defined under the National Electricity Transmission System Security and Quality of Supply Standard (NETS SQSS) have occurred; or
- An event which leads to a violation of the security limits even with remedial actions.

In taking this approach to the proposal for the E&R Market Suspension Rules, and the SOGL blackout state level of demand loss, we are following the principle set out in Ofgem's open letter of 18 December 2014 (Implementing the Electricity EU Network Codes⁵), to only make changes to the existing GB frameworks where necessary to ensure compliance with requirements of the network codes.

Market Suspension and Restoration Rules

According to Ofgem, the mapped provisions only provided rules for suspension in two of the four situations described in Article 35(1) of NCER, specifically points (a) and (c). Ofgem therefore requested ESO to convert the situations referred to in NCER Articles 35(1)(b) and (d) into objectively defined parameters pursuant to Article 36(4).

⁵ <https://www.ofgem.gov.uk/publications-and-updates/implementing-eu-electricity-network-codes-and-consulting-ofgem%E2%80%99s-proposed-application-process-nemo-designation>

In response to this request to define the parameters in Article 35(1) (b) where the TSO has exhausted all options provided by the market and continuation of market activities would deteriorate system emergency state conditions, NGESO currently issues system warnings that alert users to possible or actual plant shortages, system problems and likely or actual demand reductions under conditions as detailed in section OC7.4.8.4 of the Grid Code. Currently, once a system warning has been issued and before it has been cancelled, the market will not be suspended until such time and date that the Market Suspension Threshold has been met, or deemed to have been met, in accordance with the provisions of Section G3 of the BSC and as summarised in section 2.1.7 of the System Restoration Plan.

There are currently no parameters that allow for the further suspension of the market in an emergency state hence BSC and Grid Code changes will be necessary to define these if required in relation to Article 35(1) (b). These modifications will need to go through due industry process as summarised in the Intermediate Market Suspension Rules Methodology.

With regards to Article 35(1) (d) where market activities can be suspended in the absence of necessary tools and communication means for TSOs to facilitate market activities, section BC2.9.7 of the Grid Code already contains a clear process and procedures to be followed in the event of unplanned outages of electronic communication and computing facilities. While the tools are unavailable, the Grid Code provisions will apply, and no data will be transferred from NGESO to the Balancing Mechanism Reporting Agent. Additionally, section BC4.9 of the Grid Code allows for the TERRE market to be suspended as a result of loss of tools and communication to the central algorithm.

Furthermore, Ofgem requested clarity on the time delay to be respected for each parameter defined in Article 36(4) of NCER. In accordance with G3 of the BSC, the market is suspended immediately in a total shutdown. The market can be suspended 72 hours after commencement of a partial shutdown or sooner than the 72-hour backstop if any other part of the market suspension threshold is met.

Necessary changes required to align BSC with the Grid Code on rules for Market Suspension

BSC changes

In their letter, Ofgem requested the ESO to work with the BSCCo to assess whether different provisions in the Grid Code and the BSC lead to any practical implication to the settlement of TERRE bids when the market has been suspended. NGESO and the BSCCo have determined that changes are necessary to align the two codes as follows:

Section G of the BSC sets out or refers to provisions of the Code which are to apply in certain contingencies, and related provisions. Section G3 details the BSC arrangements should a Total Shutdown or a Partial Shutdown exist and that the NGESO intends to implement a Black Start. Currently this includes a list of the rules that vary under a Market Suspension Period (G3.2). The following amendments to the BSC are needed:

- Suspension of the RR Market is to be added to G3.2
- The actual provisions for a RR Market Suspension is to be detailed in section Q

In section Q of the BSC an "Outage" means any withdrawal by the NGESO (for maintenance or otherwise), breakdown or failure of any electronic data communications systems by which the NETSO receives and accesses communications made by Lead Parties. Currently, provisions exist that require NGESO to tell the BSCCo "Outage" start and end time as per section Q1.2.5). The following amendments to the BSC are needed:

- Definition of "Outage" to be expanded to include inability to receive RR Bid Data
- A new section to be added detailing RR Bids during a period of "Outage" (to align with BC4.5.1)

Section Q includes a section on the Suspension of the Balancing Mechanism (Q5.4). An equivalent is needed for the RR Market as follows:

- Add section to detail provisions for RR Market Suspension e.g.
 - No communication to be issued by NGESO regarding RR Bid data, RR Auction Result Data or RR Flagged Acceptance data
 - Any Communication received from NGESO not classed as RR Bid data, RR Auction Result Data or RR Flagged Acceptance data
 - Therefore, no RR related calculations shall trigger
- There is a need to reference a notification from NGESO for RR Market Suspension
 - Needs to be distinct from existing "Outage" notification (RR provisions to be covered in Section Q as per above) and / or Partial/Total shutdown notification (RR provisions to be added to Section G for this scenario as per above)
 - Because there will be scenarios where RR Market is to be suspended in isolation (as per BC4.9)
 - This notification will need to be added to the Grid Code

Grid Code changes

Necessary changes are as follows:

- Provisions that if TERRE market is suspended in accordance with BC4.9 of the Grid Code, NGESO will as soon as reasonably practical, inform Users and the BSCCo that TERRE market has been suspended.
- The BSSCO and users will need to be notified if TERRE market tools are on outage. In this case no data will be transferred from NGESO to the BSCCo regarding RR Bid data, RR Auction Result Data or RR Flagged Acceptance data until the communication facilities are re-established.

Justification for Article 36(3) NCER

NGESO responses on providing more details on the compatibility of the submitted market suspension rules listed in Article 36(3) are included in the Table submitted with this letter. National rules for GB are contained in the Grid Code and BSC. Grid Code provisions mandate Emergency Instructions and Emergency

Assistance for all GB users, including interconnectors. Communication with non-GB TSOs is carried out through the European Awareness System which informs member state TSOs on system states.

Mapping for the settlement rules cross-referenced in BSC G3.

Ofgem has also asked to include in the mapping for the settlement rules for market suspension the sections which are cross-referenced from BSC Section G3.2. The following BSC Sections are cross-referenced from G3.2 and have been included in Table 1 (mapping from E&R Article 36(1) and Article 39)) attached to this letter as follows (considered in the order in which they appear in BSC Section G3.2):

- BSC Q5.4 - as it forms part of the rules during market suspension.
- BSC Q8 – BSC Section G3.2 states that BSC Q8 does not apply during market suspension. As such the rules in BSC Q8 do not form part of the rules during market suspension and so BSC Q8 has not been mapped in Table 1.
- BSC P1.6 - as it forms part of the rules during market suspension.
- BSC P5 - BSC Section G3.2 states that BSC Section P5 does not apply during market suspension. As such the rules in BSC P5 do not form part of the rules during market suspension and so BSC P5 has not been mapped in Table 1.
- BSC T1.7 – as it forms part of the rules during market suspension.
- BSC Section M – Section M does not form part of the settlement rules for market suspension, so Section M has not been mapped in Table 1.
- BSC Q2, Q3, Q4 do not form part of the settlement rules for market suspension so these sections have not been mapped in Table 1.

Communication Procedure

Ofgem requested the ESO to consider the addition of entities which NCER Regulation obliges to be contacted in the event of market suspension pursuant to Article 38(1). Our response is detailed in the mapping included in Table 1, where all parties are covered under Grid Code and BSC rules.

The E&R code allows for the suspension of different market activities, most of which are covered by the BSC with a number of additional references in the Grid Code which also relate to suspension of the Balancing Mechanism. In the event of a market suspension activity covered by the BSC, ELEXON, pursuant to BSC Section G3 and as soon as reasonably practicable, will provide a notification to all BSC Parties (which include balance responsible parties) that market activities have been suspended. NGESO will endeavour to provide the listed parties with an estimation and updates on the progress for the restoration of the system in accordance with OC9.4.6 and OC9.4.7.9, and ELEXON will also pass these NGESO updates to BSC Parties in accordance with BSC G3. The BSC Panel will determine, in consultation with NGESO and pursuant to BSC Section G3, when market activities shall resume and ELEXON will notify BSC Parties.

All notifications and updates provided by NGESO within this proposal shall be published on our website for those entities assigned or delegated to execute market functions. Where it is not possible to provide such notification via the usual protocols under CC.6.5 or ECC.6.5 of the Grid Code or website, NGESO shall inform via email or via any other available means to those parties directly participating in the suspended market

activities. In order to maintain a relevant and up to date reference of participants to be informed, the National Grid Control room will monitor and update, according to any material changes, the parties that will be affected.

No later than 30 days after the market activities have been restored, NGESO in collaboration with ELEXON, shall prepare a report that contains a detailed explanation of the rationale, implementation and impact of the market suspension and references to the compliance of the rules in relation to market suspension.

For TSOs that are not subject to the BSC and Grid Code, information on market states is shared through the European Awareness system which was launched in April 2013.

This proposal aims to develop a common set of minimum requirements and principles for the procedures and actions to be carried out specifically when in the emergency, blackout and restoration states. In drawing together, clarifying and ensuring alignment of the rules relating to Market Suspension this is expected to have a positive impact on the objectives of Emergency and Restoration by providing greater clarity and transparency to market participants. The minor changes to the BSC and Grid Code that are proposed as a result will further the specific BSC, and Grid Code objectives, drawn from the Transmission Licence Conditions, for compliance with “the Electricity Regulation and any relevant legally binding decision of the European Commission and/or the Agency”.

Following approval from Ofgem, NGESO will publish on its website, the rules concerning the suspension and restoration of market activities in accordance with E&R Article 36 (2).

If you have any queries regarding this proposal, please contact Rob Wilson at Robert.Wilson2@nationalgrideso.com.

Yours sincerely,

Rob Wilson

Technical Codes Change Manager – National Grid Electricity System Operator

Table 1: GB Code mapping of NCER Articles 35 to 39

Article	Text	Code	Section	Commentary
ER 35.1. a	A TSO may temporarily suspend one or more market activities laid down where: a) the transmission system of the TSO is in blackout state	Grid Code BSC	OC 9.4.6 G3	BSC G3 covers the automatic Market Suspension in a Total Shutdown (blackout state). In addition, the conditions for Market Suspension are also detailed in section 2.1.7 of the System Restoration Plan.
35.1. b	The TSO has exhausted all options provided by the market and the continuation of market activities under the emergency state would deteriorate one or more of the conditions referred to in Article 18(3)	Grid Code BSC	OC7.4.8 OC 9.4.1 B2.9 G3	NGESO issues system warnings as detailed in OC7.4.8.4. Where all generation has ceased and there is no electricity supply from External Interconnections, NGESO may inform users that a total shutdown exists then the market suspension period shall exist. NGESO can issue Emergency instructions for users to depart from normal operation for various reasons including the need to maintain adequate Negative Reserve Active Power, implement demand control, invoke black start etc. as per BC2.9. There is no provision to suspend the market in an emergency state,

				<p>therefore, Grid Code and BSC changes will be needed for the following parameter:</p> <ul style="list-style-type: none"> - While the System is in an emergency state (as detailed in SOGL Article 18.3 and as reflected in section 2.1.1 of the System Defence Plan) if after issuing system warnings and emergency instructions the Transmission System does not change from emergency state to normal state, the TSO may temporarily suspend market activities in the absence of any options provided by the market. Market suspension rules for a blackout state remain as defined in section G3 of the BSC and OC9 of the Grid Code. <p>Following the industry consultation and discussions, NGESO has developed an intermediate methodology. These changes will need to go through the Grid Code and BSC modification process before they are added to the codes.</p>
35.1.c	The continuation of market activities would decrease significantly the effectiveness of the restoration process to the normal or alert state, or;	Grid Code	OC 9.4.6	Without an instruction by NGESO to enter into a black start the system would not be able to function as a normal state. Rules for a partial shutdown would apply, the Market Suspension Threshold for a partial

				<i>position at the end of day-ahead timeframe. Areas of Art 18(7) of EBGL have also been removed via the Statutory Instruments. Notification of suspension will not be required.</i>
35.2. d	<i>The provision of modifications of the position of balance responsible parties</i>	<i>Grid Code BSC</i>	<i>OC 9.4.6 G3</i>	<i>Communication is made to the balancing provider to suspend this activity.</i>
35.2. e	<i>The provision of schedules referred to in Article 111(1) of Regulation (EU) 2017/1485 (NB – the reference to Article 111 (2) of Regulation (EU) 2017/1485 has been removed here as part of the Statutory Instruments) and</i>	<i>Grid Code BSC</i>	<i>OC 9.4.6 G3</i>	<i>This refers to generation, consumption, internal communication, and external schedules namely the PN and ECVN submissions. The Grid Code (OC.9.4.6) allows NGESO to inform all “Users which in NGESOs opinion need to be informed”. This can be included under this definition. Suspension of ECVNs and MVRNs is also as defined in the BSC</i>
35.2. f	<i>Other relevant market activities in the suspension of which is deemed necessary to preserve and or restore the system</i>	<i>Grid Code BSC</i>	<i>OC 9.4.6 G3</i>	<i>OC.9.4.6 of the Grid Code allows NGESO to inform all “Users which in NGESOs opinion need to be informed”. If the market is suspended, then all BSC activities in the referenced section will be automatically suspended.</i>

35.3	<i>In case of suspension of market activities pursuant to paragraph 1, upon request of the TSO, each SGU shall operate where technically possible at an active power set-point established by the TSO</i>	<i>Grid Code</i>	<i>OC 9.4.7.3 OC 9.4.7.5</i>	<i>Users are to abide by NGESOs instructions during a black start. This permits SGUs to be a part of NGESOs instructions.</i>
35.4	<i>When suspending market activities pursuant to paragraph 1 the TSO may fully or partially suspend the operation of its processes impacted by such suspension.</i>	<i>Grid Code BSC</i>	<i>OC 9.4 G3</i>	<i>If the market is suspended, then all BSC activities in the referenced section will be automatically suspended. This requirement is captured in OC.9.4.6 of the Grid Code, Section G3 of the BSC and section 2.1.7 of the System Restoration Plan.</i>
35.5. a	<i>The NCER obligation to coordinate market suspension activities with the TSOs of the capacity calculation regions of which the TSO is a member of has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to this proposal.</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
35.5. b	<i>The TSOs with which the TSO has arrangements for the coordination of balancing</i>	<i>Grid Code</i>	<i>OC 9.4.6 BC2.6.4 BC.2.9.6</i>	<i>Users in which NGESOs opinion need to be informed. NGESO will view these as needing to be informed also detailed in letter.</i>
35.5. c	<i>The NCER obligation to coordinate market suspension activities with the 'NEMO' and other entities assigned or delegated to execute market functions within its control area has been removed from the Statutory Instruments.</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>

	<i>Therefore, this section is no longer applicable to this proposal.</i>			
35.5.d	<i>The TSOs of a load frequency control block of which the TSO is a member of;</i>	<i>Grid Code STC</i>	<i>OC 9.4.6 STCP 06-1</i>	<i>NGESO is the sole system operator for GB and solely responsible for frequency control unless otherwise delegated through STCP 06-1 to one of the Scottish Transmission Licensees in relation to the Scottish part of the Transmission System alone.</i>
35.5.e	<i>The NCER obligation to coordinate market suspension activities with the coordinated capacity calculator of the capacity calculation regions of which the TSO is a member of has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to this proposal.</i>	<i>N/A</i>	<i>N/A</i>	<i>N/A</i>
35.6	<i>In case of suspension of market activities each TSO shall launch the communication, procedure set out in Art 38.</i>			<i>Refer to Art 38.</i>
36.1	<i>By 18 December 2018 each TSO shall develop a proposal for rules concerning the suspension and restoration of market activities.</i>			<i>If the market is suspended, then all BSC activities in the referenced section will be automatically suspended. This requirement is captured in OC.9.4.6 of the Grid Code, Sections G3, P1.6, Q5.4, T1.7 of the BSC and section 2.1.7 of the System Restoration Plan.</i>

36.2	<i>TSO shall publish these rules on its website following their approval by the regulatory authority.</i>			<p><i>Upon approval from Ofgem, NGESO will publish on its website the rules concerning the suspension and restoration of market activities.</i></p> <p><i>The Grid Code is published on NGESO while the BSC can be found on Elexon's website. The System Restoration Plan is also available on the ESO Website with the market suspension conditions specified in section 2.1.7</i></p>
36.3. a	<i>The NCER obligation to ensure the rules for suspension and restoration of market activities are compatible with the rules on cross zonal capacity within the concerned capacity calculation region has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to this proposal.</i>	N/A	N/A	N/A
36.3. b	<i>The rules for submission by balancing service providers of balancing capacity and balancing energy bids resulting from arrangements with other TSOs for the coordination of balancing;</i>			<i>This will form part of the BSC code changes to ensure TERRE market suspension is compatible with the BSC.</i>
36.3. c	<i>The rules for provision by balance responsible party of a balanced position at the end of day-ahead timeframe if required by the terms and conditions related to balancing;</i>			<i>NG ESO will not require this from Balancing Service Providers as detailed in the rules for Art 18(7) EBGL relating to the balanced position at the end of day-ahead timeframe. Areas of Art 18(7) of EBGL have also been removed via the Statutory Instruments.</i>

36.3. d	<i>Rules for provision of modifications of the position of balance responsible parties; and</i>	BSC	G3.2.1 (C) and P1.6	<i>There are no changes needed</i>
36.3. e	<i>The rules for provision of schedules referred to in Article 111(1). (NB – the reference to Article 111 (2) of Regulation (EU) 2017/1485 has been removed here as part of the Statutory Instruments)</i>	BSC	G3.2.1 (C) and P1.6	<i>The rules relating to the following schedules; Generation, Consumption, Internal Commercial Trade, and External Commercial trade will be in accordance with Grid Code.</i>
36.4.	<i>When developing the rules for suspension and restoration of market activities, each TSO shall convert the situations referred to in Article 35(1) into objectively defined parameters taking into account the following factors:</i> <i>(a) the percentage of load disconnection in the LFC area of the TSO corresponding to:</i> <i>(i) the inability of a significant share of balancing responsible parties to maintain their balance; or</i> <i>(ii) the necessity for the TSO not to follow the usual balancing processes to perform an efficient re-energisation;</i>	BSC	G3	<i>BSC section G3 provides guidance on the market suspension threshold which is met when the demand outturn is equal to or lower than 95% or if there is no more baseline forecast data available.</i> <i>Section 2.1.7 of the System Restoration Plan States:</i> <i>“Market Suspension (EU NCER Article 35 part 1) occurs in GB</i> <i>Automatically in the event of a Total Shutdown (in this case the Market Suspension Threshold is not relevant).</i> <i>During a Partial Shutdown and in this case the market is only suspended if the Market Suspension Threshold is met. There are three circumstances in which the threshold can be met or deemed to be met.</i> <i>the NGESO determines that the spot time Initial National Demand Out-</i>

				<p><i>Turn is equal to or lower than 95% of the baseline forecast (this means that 5% or more of demand has been lost); or</i></p> <p><i>No more baseline forecast data is available to the NGESO; or</i></p> <p><i>72 hours have elapsed since the Partial Shutdown commenced”</i></p> <p><i>A System Shutdown would be considered to take place when at least 50% of National Demand (or 50% of local Demand in the case of a Partial Blackout) would be considered to have taken place.</i></p>
36.4. b	<p><i>the percentage of generation disconnection in the LFC area of the TSO corresponding to the inability of a significant share of balancing responsible parties to maintain their balance;</i></p>	BSC	G3	<p><i>BSC section G3 provides guidance on the market suspension threshold which is met when the demand outturn is equal to or lower than 95% or if there is no more baseline forecast data available.</i></p> <p><i>As noted above this is also noted in 2.1.7 of the System Restoration Plan.</i></p>
36.4. c	<p><i>the share and geographic distribution of unavailable transmission system elements corresponding to:</i></p> <p>(i) <i>the desynchronisation of a significant part of the LFC area rendering the usual balancing processes counterproductive;</i></p>	BSC	G3	<p><i>BSC section G3 provides guidance on the market suspension threshold which is met when the demand outturn is equal to or lower than 95% or if there is no more baseline forecast data available.</i></p> <p><i>As noted above this is also noted in 2.1.7 of the System Restoration Plan.</i></p>

	<p>(ii) <i>The NCER obligation of the TSO to consider the share and geographic distribution of unavailable transmission system elements corresponding to the reduction to zero of cross zonal capacity has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to this proposal.</i></p>	N/A	N/A	N/A
36.4.d	<p><i>the inability of the following affected entities to execute their market activities for reason(s) outside their control:</i></p> <p>(i) <i>balance responsible parties;</i></p> <p>(ii) <i>balancing service providers;</i></p> <p>(iii) <i>The NCER obligation to include NEMOs and other entities assigned or delegated to execute market functions has been removed from the statutory instruments. Therefore, this section is no longer applicable to this proposal.</i></p> <p>(iv) <i>transmission connected DSOs;</i></p>	BSC Grid Code	G3 and P1.6 BC1.4.5 BC2.9.7	<p><i>These parameters are pre-defined within the BSC.</i></p> <p><i>Balance responsible parties equate to Trading parties within BSC code</i></p> <p><i>BC2.9.7 covers the situation when there are unplanned outages of Electronic Communication and Computing Facilities</i></p>
36.4.e	<p><i>the absence of properly functioning tools and communication means necessary to perform:</i></p> <p>(i) <i>The NCER obligation to include the single day ahead, intraday coupling or any explicit capacity allocation</i></p>			

	<p><i>mechanism has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to the proposal.</i></p> <p><i>(ii) the frequency restoration process; or</i></p> <p><i>(iii) the reserve replacement process; or</i></p> <p><i>(iv) the provision by balance responsible party of a balanced position in day ahead and the provision of change of its position; or</i></p> <p><i>(v) the provision of schedules referred to in Article 111(1).</i></p> <p><i>(NB – the reference to Article 111 (2) of Regulation (EU) 2017/1485 has been removed here as part of the Statutory Instruments)</i></p>	<p>BSC</p> <p>Grid Code</p>	<p>G3 and P1.6</p> <p>BC2.9.6</p> <p>BC4.9</p> <p>BC2.9.6</p> <p>BC.2.9.7</p>	<p><i>These parameters are pre-defined within the BSC.</i></p> <p><i>BC2.9.7 covers the situation when there are unplanned outages of Electronic Communication and Computing Facilities</i></p>
36.5	<p><i>The rules for suspension and restoration of market activities shall define a time delay to be respected for each parameter defined pursuant to paragraph 4, prior to starting the procedure for suspension of market activities.</i></p>	<p>BSC</p>	<p>G3</p>	<p><i>The market is suspended immediately in a total shutdown, from the time that the shutdown commenced.</i></p> <p><i>If the defined parameters lead to a partial shutdown, the market can be suspended after 72 hours or sooner than the 72 hour backstop if any other part of the market suspension threshold is met as summarised in section 2.1.7 of the System Restoration Plan</i></p>

36.6	<i>The concerned TSO shall assess in real-time the parameters defined pursuant to paragraph 4, on the basis of the information at its disposal.</i>	BSC	G3	<i>No changes needed.</i>
36.7	<i>This NCER obligation to submit a harmonisation report to the Agency on rules for suspension and restoration activities has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to this proposal.</i>	N/A	N/A	N/A
36.8	<i>The NCER obligation to submit to ENTSOE the data required to prepare and submit the report mentioned in paragraph 7 above has been removed from the Statutory Instruments. Therefore this, section is no longer applicable to this proposal.</i>	N/A	N/A	N/A
37.1	<p><i>The concerned TSO shall launch the procedure for the restoration of market activities suspended pursuant to Article 35(1) when:</i></p> <p><i>(a) the situation triggering the suspension has ended and no other situation referred to in Article 35(1) applies; and</i></p> <p><i>(b) the entities referred to in Article 38(2) have been duly informed in advance in accordance with Article 38.</i></p>	Grid Code	OC 9.4.7.9	<p><i>This section in the Grid Code relates to the restoration of the system back to a normal state.</i></p> <p><i>The Grid Code states that all users should be informed as soon reasonably possible and that no situation that initially triggered suspension is compromising the integrity of the system at present.</i></p>

37.2	<i>The concerned TSO shall launch the restoration of TSO processes impacted by the suspension of market activities when the conditions of paragraph 1 are fulfilled or before, if necessary to restore market activities.</i>	Grid Code	OC9.4.7.9	<i>In making the determination that the total system could return to normal operation states that the above factors amongst others are considered.</i>
37.3	<i>The NCER obligation to launch the restoration of the single day ahead and/or single intraday coupling process once processes are restored has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to this proposal.</i>	N/A	N/A	N/A
37.4	<i>The NCER obligation to update cross zonal capacities when the provision of cross zonal capacity has been suspended and subsequently restored has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to this proposal.</i>	N/A	N/A	N/A
37.5	<i>The NCER obligation to execute market coupling once the system is back to normal or alert state has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to this proposal.</i>	N/A	N/A	N/A

37.6	<p><i>No later than 30 days after the market activities have been restored, the TSO(s) that suspended and restored market activities shall prepare a report containing a detailed explanation of the rationale, implementation and impact of the market suspension and a reference to the compliance with the rules for suspension and restoration of market activities and shall submit it to the regulatory authority.</i></p>			<p><i>The report shall be published on our website in collaboration with Elexon.</i></p>
37.7	<p><i>The regulatory authority may issue a recommendation to the concerned TSO(s) to promote good practices and prevent similar incidents in the future.</i></p>			<p><i>This is not a TSO requirement.</i></p>
38.1	<p><i>The rules for suspension and restoration of market activities developed pursuant to Article 36 shall also contain a communication procedure detailing the tasks and actions expected from each party in its different roles during the suspension and restoration of market activities.</i></p>	<p><i>Grid Code</i></p>		<p><i>The BSC section G3 requires that:</i></p> <ol style="list-style-type: none"> <i>1) NGESO will notify Elexon of the following:</i> <ul style="list-style-type: none"> <i>- That a total shutdown or partial shutdown exists</i> <i>- The time and date from which the total shutdown or partial shutdown commenced</i> <i>- The time and date, if applicable, on which the market suspension threshold was met</i> <i>- The operation of the Transmission System during a Black Start</i> <i>- The time that the Total System could return to normal operation</i>
38.2	<p><i>The communication procedure shall provide that information is sent, simultaneously, to the following entities:</i></p> <ol style="list-style-type: none"> <i>(a) the parties referred to in Article 35(5);</i> <i>(b) the balance responsible parties;</i> <i>(c) the balancing service providers;</i> <i>(d) the transmission connected DSOs; and</i> 	<p><i>BSC</i></p>	<p><i>OC9</i></p> <p><i>G3</i></p>	

	<i>(e) the regulatory authority</i>			<ul style="list-style-type: none"> - <i>The time at which, if there is no market suspension, the Total System returned to normal operation</i>
38.3	<p><i>The communication procedure shall include at least the following steps:</i></p> <p><i>(a) the notification by the TSO that market activities have been suspended in accordance with Article 35;</i></p> <p><i>(b) the notification by the TSO of best estimate for the time and date for transmission system restoration;</i></p> <p><i>(c) The NCER obligation to include the notification by the NEMO and other entities designated to execute market functions of the suspension of their activities has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to this proposal.</i></p> <p><i>d) the updates by the TSOs on the process for restoration of the transmission system;</i></p> <p><i>(e) the notification by the entities referred to in points (a) to (d) of paragraph 2, that their market tools and communication systems are operational;</i></p> <p><i>(f) the notification by the TSO(s) that the transmission system has been restored back to normal state or alert state;</i></p> <p><i>(g) The NCER obligation to include the notification by the NEMO and other entities assigned or delegated to execute</i></p>			<ul style="list-style-type: none"> 2) <i>ELEXON will notify all BSC parties of the following:</i> - <i>That a Total Shutdown or Partial Shutdown exists</i> - <i>The Settlement Period from which the Total Shutdown or Partial Shutdown commenced</i> - <i>The existence of, and Settlement Period representing the start of, any Market Suspension Period</i> - <i>The operation of BSC Systems and, so far as ELEXON is informed by National Grid, the operation of the Transmission System during a Black Start</i> - <i>The Settlement Period (as determined by the BSC Panel) from which normal market operations, if suspended, shall be restored</i> - <i>The Settlement Period at which, if there is no market suspension, the Total System returned to normal operation</i> <p><i>BSC and Non BSC parties with ancillary service contracts will be notified of the system status through BMRS.</i></p>

	<p><i>market functions of best estimate restoration times has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to this proposal.</i></p> <p><i>(h) The NCER obligation to include the confirmation by the NEMO and other entities assigned or delegated to execute market functions that market activities have been restored has been removed from the Statutory Instruments. Therefore, this section is no longer applicable to this proposal.</i></p>			
38.4	<p><i>All notifications and updates by the TSO(s) shall be published on the websites of those entities. When notification or update on the website is not possible, the entity subject to the obligation to notify, shall inform via email, or via any other available means, at least those parties directly participating in the suspended market activities.</i></p>			
38.5	<p><i>Notification pursuant to point (e) of paragraph 3 shall be done via email or via any other available means to the concerned TSO.</i></p>			
39.1	<p><i>By 18 December 2018, each TSO shall develop a proposal for rules for imbalance settlement and settlement of balancing capacity and balancing energy which shall be applicable for imbalance settlement periods during which the market activities were suspended. The TSO may propose the same rules it applies for normal operations. The TSO</i></p>	BSC	<p>G3</p> <p>P1.6</p> <p>Q5.4</p> <p>T1.7</p>	<p><i>The TSO is allowed to propose the same rules of which are applied in normal circumstances during the imbalance settlement phase.</i></p> <p><i>NGESO will propose the same rules as listed in Section G3 of BSC and</i></p>

	<i>shall publish these rules on its website following their approval by the regulatory authority. A TSO may delegate the TSO's tasks referred to in this Article to one or more third parties, provided that the third party can carry out the respective function at least as effectively as the TSO(s). The Secretary of State or, where applicable, the regulatory authority, may assign the tasks referred to in this Article to one or more third parties, provided that the third party can carry out the respective function at least as effectively as the TSO(s).</i>			<i>including those rules applicable during market suspension periods according to BSC Section G3.2 and excluding those which are not applicable.</i>
39.2	<i>The rules referred to in paragraph 1 shall address the settlements of TSO's and third parties, where relevant, with balance responsible parties, and balancing services providers.</i>	BSC	G 3 P1.6 Q5.4 T1.7	<i>References the settlements of TSOs and third parties where relevant. Third parties referenced in this Article are BSCCo and the BSC clearer who have been assigned settlement responsibilities under the EB GL requirements for balancing services under BSC and imbalance settlement. Settlement of balancing services with non-BSC parties and all balancing capacity settlement is performed by NGESO in accordance with the service contract terms.</i>
39.3	<i>The rules developed in accordance with paragraph 1 shall: (a) ensure the financial neutrality of each TSO and relevant third party referred to in paragraph 1;</i>	BSC	G3 P1.6 Q5.4 T1.7	<i>- The existing Grid Code and BSC rules do not change the financial neutrality of NGESO or ELEXON during market suspension periods.</i>

<p><i>(b) avoid distortions of incentives or counterproductive incentives to balance responsible parties, balance service providers and TSOs; 28.11.2017 EN Official Journal of the European Union L 312/77</i></p> <p><i>(c) incentivise balance responsible parties to strive to be balanced or help the system to restore its balance; (d) avoid any financial penalties imposed on balance responsible parties and balancing service providers due to the execution of the actions requested by the TSO;</i></p> <p><i>(e) discourage TSOs from suspending market activities, unless strictly necessary, and incentivise TSOs to restore the market activities as soon as possible; and</i></p> <p><i>(f) incentivise balance service providers to offer services to the connecting TSO that helps restore the system to normal state.</i></p>			<p><i>BSC third parties are ELEXON and ELEXON Clear. These two parties are not for profit and are required to be financially neutral. The BSC rules during market suspension do not change this.</i></p> <p><i>NGESO is not exposed to imbalance settlement as it is excluded from being a BSC Trading Party.</i></p> <p><i>A BSC Party which is given a ‘black start instruction’ by the ESO during market suspension periods may seek compensation under the rules set out in BSC section G3. This compensation, if approved, is paid for by BSC Trading Parties. NGESO and ELEXON, and ELEXON Clear are not impacted by this.</i></p>
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