

Meeting minutes

National Electricity Transmission System Security and Quality of Supply Standards (NETS SQSS)

SQSS Panel

Date: 09/11/2022	Location: Microsoft Teams
Start: 10:00 AM	End: 12:00 PM

Participants

Attendee		Attend / Regrets
Jennifer Groome (JG) Chair	National Grid Electricity System Operator (NGESO) Code Administrator	Attend
Jessica Rivalland (JR) Panel Secretary	National Grid Electricity System Operator (NGESO) Code Administrator	Attend
Antony Johnson (AJ)	National Grid Electricity System Operator (NGESO) Alternate	Attend
Alan Creighton (AC)	Network Operator	Attend
Cornel Brozio (CB)	Scottish Power Transmission (SPT)	Attend
David Lyon (DL)	Offshore Transmission Owner (OFTO)	Attend
Roddy Wilson (RWI)	Scottish Hydro Electric Transmission (SHET)	Attend
Gurpal Singh (GS)	Authority Representative	Attend
Yuanki Bian (YB)	National Grid Electricity System Operator (NGESO) Presenter	Attend
Rui Zheng (RZ)	National Grid Electricity System Operator (NGESO) Observer	Attend
Xiaoyao Zhou (XZ)	National Grid Electricity System Operator (NGESO) Observer	Attend
Qi Zhong (QZ)	National Grid Electricity System Operator (NGESO) Observer	Attend

Simon Lord (SL)	Generation Representative	Attend
Le Fu (LF)	National Grid Electricity Transmission	Attend
Bieshoy Awad (BA)	National Grid Electricity System Operator (NGESO)	Attend
Can Li (CL)	National Grid Electricity System Operator (NGESO) Presenter	Attend
Gareth Stanley	National Grid Electricity System Operator (NGESO) Presenter	Attend
David Gregory	National Grid Electricity System Operator (NGESO) Presenter	Attend
Jamie Webb	National Grid Electricity System Operator (NGESO)	<i>Regrets</i>
Bless Kuri (BK)	Scottish Hydro Electric Transmission (SHET)	<i>Regrets</i>
Mike Lee (ML)	Offshore Transmission Owner (OFTO)	<i>Regrets</i>
Garth Graham (GG)	Generation Representative Alternate	<i>Regrets</i>

Discussion and details

1. Introductions and apologies

The Chair opened the Panel meeting by making introductions and noted the apologies received.

2. Approval of Panel Minutes from the Panel

A Panel Member had minor comments on the minutes from the previous Panel meeting held on 13 July 2022.

3. Actions Log

The Panel reviewed and updated the Actions Log.

4. Authority update

a) Energy Code Reform

GS provided an update that the ESO expect to publish a call for input on key policy issues as the ESO are preparing for the implementation of the reforms. Publication timelines are under review as further information is needed from the government on their plan for the Energy Bill.

b) GSR028 - Making the SQSS Gender Neutral

Ofgem published their decision on GSR028 on 26 August 2022 and are planning to approve. It was noted that the change will not be formally implemented until a licence

change consultation is run on the new draft of the SQSS. In the meantime, the updated draft will be available on the ESO website.

c) Review of Modification Register

No comments.

5. New Modification Proposal:

GSR030: Offshore DC Connections

This modification aims to review the restrictions on the loss of power infeed risk allowed for outages of offshore DC converters. BA expressed the need to formulate a Workgroup to discuss the issues.

A Panel member raised that the planned AC cables off Norfolk will create more than 1320MW coming into a constrained distance of less than 250 meters, mainly in the intertidal zone. BA responded that the two or more cable offshore transmission circuits that run within 250 meters is not the final number. The Workgroup will need to look at the restrictions and assess the risk in the Workgroup.

The timeline for the modification was presented, and the Workgroup's Terms of Reference were agreed by the Panel.

GSR031: Introducing Competitively Appointed Transmission Owners & Transmission Service Providers

This modification aims to introduce the concept of Competitively Appointed Transmission Owners (CATOs) to the SQSS to enable Onshore Network Competition for the design, build and ownership of Onshore Transmission assets.

A Panel member asked if the plan is to work through the various modifications and present them to Ofgem as a whole to see how they are integrated. GS confirmed that this was the case and will be submitted in Autumn 2023.

The ESO presented two different timelines depending on if the Panel felt there was a need for a Workgroup consultation. The Panel confirmed that a Workgroup consultation will be needed and that this would be consistent with the governance routes of the other modifications which seek to make similar changes to the other codes.

Terms of Reference were approved by the Panel and the timeline was noted.

6. Draft Modification:

SQSS Generation connection criteria – loss of outfeed Proposal

Operating as generation and demand, interconnectors are not explicitly defined. The absence of a restriction on the loss of outfeed risk may increase the challenges and costs associated with managing high frequency events.

- The limit on the loss of outfeed risk should reflect the asymmetry between the frequency control requirements, the plant capability, and the response available around the 50Hz line.
- It is proposed to set the outfeed loss risk at 1400MW.
- Other design criteria need to reflect the existing practice of allowing maximum export and import under reasonable background conditions.

A Panel member raised that currently storage is 1500MW on a single circuit which is treated the same as demand and queried if it would be changed. It was confirmed that this is the current Proposal. A Panel member commented that the loss of outage restricts what could be operated on the network design and it does not mention what it could be operated for. If storage is treated the same as demand, there would need to be several circuits of 300MW and this makes the design more complicated.

A Panel member noted that GSR030, which will be part of the holistic network design, seems to address similar points. If there is a restriction on the loss of outfeed that is more onerous than the loss of infeed that could allow more generation to be connected than the interface with transmission systems.

The Proposer stated that the 1500MW level of demand that is allowed would stay the same and demands groups greater than 1500MW are required to meet the design criteria.

A Panel member asked what the reason is for changing from 1500MW storage to 1400MW. The control room deal with 1400MW on a daily basis and there are concerns that applying 1500MW could lead to a bigger risk on the system.

A Panel member questioned why storage demand should be treated differently when the impact on the system is the same. Discussion to be taken offline.

A Panel member mentioned that there needs to be consistency of the security offered to transmission connected generators and security provided to embedded generators.

The Proposal Draft is to be raised in early 2023 with initial Workshops held in December 2022. A Panel member stressed that the 1400MW figure change needs to be suitably explained in the proposal.

7. AOB

GSR029 – Review of Demand Connection Criteria to Align with EREC P2/7

CL provided an update on the progress of this modification. There have been four Workgroup meetings and two ‘Deep Dive’ sessions. The Workgroup are considering security contributions from large power stations and additional guidance for assessment on storage.

FRCR

YB provided an update on the background, scope for FRCR for 2023, the methodology, consumer value, and the timeline to deliver.

Key Dates

- The next SQSS Panel meeting is scheduled to take place on:
08 March 2023
 - Papers Day for the next SQSS Panel meeting is:
28 February 2023
 - The SQSS Modification Submission deadline for the next Panel is:
21 February 2023
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