

Future Security and Resilience: Common Quality Technical Group (FSR CQTG)

Meeting 2: 10 August 2023

AGENDA

Time	Item
9.15 am	Sign in at reception (to meet Rob Mitchell)
9:30 am	Meeting starts - Minutes and Actions from previous meeting (15 mins)
9:45 am	Assessment of options raised at the last CQTG meeting (45 mins) <ul style="list-style-type: none">• assessment of additional options against first evaluation criterion• more information needed regarding some of the additional options
10:30 am	Morning tea (15 minutes)
10:45 am	Short list of options (90 mins) <ul style="list-style-type: none">• agreeing a short list of options
12:15 pm	Lunch (45 minutes)
1:00 pm	Scoping studies - Frequency (60 mins) <ul style="list-style-type: none">• obtaining CQTG feedback on the high-level frequency-related scoping studies
2:00 pm	Scoping studies - Voltage (55 mins) <ul style="list-style-type: none">• obtaining CQTG feedback on the high-level voltage-related scoping studies
2:55pm	Next meeting (5 mins)
3:00 pm	End of meeting

OBJECTIVES

The primary objectives of CQTG meeting #2 are to:

(a) consider the Authority's assessment of:

1. the medium list of options considered by the CQTG at its 6 July 2023 meeting
2. the 10 additional 'long list' options identified by the CQTG at its 6 July meeting

(b) agree a short list of options to address the identified common quality issues

(c) obtain feedback from the CQTG on the high-level scopes of 'no-regrets' system studies.

MINUTES & ACTIONS

Assessment of options raised at CQTG # 1

- Assessment, where possible, of the additional 10 options against first evaluation criterion completed.
- For those options that passed the first criterion, further assessment against remaining criteria completed where possible.
- **More information needed regarding some of the additional options**

Assessment of additional options - further clarification required

	Option description	Evaluation criterion 1
	<p>Issues 2, 3, 4</p> <ul style="list-style-type: none"> •An increasing amount of variable and intermittent resources, primarily in the form of wind and solar PV generation, is likely to cause greater voltage deviations, which are exacerbated by changing patterns of reactive power flows •Increasing amounts of inverter-based variable and intermittent resources will reduce the transmission network's system strength thereby increasing the likelihood of network performance issues due to inverter-based resources disconnecting from the power system •Over time increasingly less generation capacity is expected to be subject to fault ride through obligations in the Code, as more generating stations export less than 30 MW to a network 	
36	Place an obligation on asset owners (grid-connected parties, grid owners, and embedded generators) to support investigations into control interactions over the generating life of generating assets they own and/or which are connected to their asset(s) (in the case of network owners)	CQTG to clarify what is meant by investigations into control interactions
37	Require the system operator to develop suitable technical requirements for fault ride through, which are consistent with and elaborate upon the fault ride through requirements in the Code	CQTG to advise what technical requirements, additional to what is specified in the Code, are needed at present
	<p>Issue 6</p> <ul style="list-style-type: none"> •Network operators have insufficient information on assets wanting to connect, or which are connected, to the power system to provide for the planning and operation of the power system in a safe, reliable, and economically efficient manner 	
41	Establish a protocol for setting the frequency in islanded networks, including who the grid forming generator is	CQTG to provide further detail about this option
43	Require asset owners (grid-connected parties, grid owners, and embedded generators) to provide network operators with energy dissipation information relating to their asset(s) riding through faults	CQTG to advise what information, additional to what is specified in the Code, is needed at present

Short list of options – Agree a short list of options

Refer to Appendix A

Scoping studies - Frequency

Refer to frequency studies slides

Scoping studies - Voltage

Refer to voltage studies slides

**ELECTRICITY
AUTHORITY**
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