

## ENA Electricity Networks and Futures Group

### DER TECHNICAL FORUM

#### MINUTES

Wednesday 21 June 2023

MS Teams Meeting

#### ATTENDEES

Name	Initials	Company
Mike Kay	MK	ENA
Christopher McCann	CMC	ENA
Sarah Carter	SC	Ricardo
Peter Twomey	PT	Electricity North West
Alistair Shearer	AS	GTC
Ian Nicoll	IN	Qmulus Ltd
Lukasz Bochinski	LB	UKPN
Andy Hood	AH	NGED
Milana Plecas	MP	SPEN
Dick Allen	DA	BHA
Jason Kirrage	JK	Solar Edge
Anuj Chhetri	AC	Northern Powergrid
Richard Harrison	RH	Clarke Energy
Stephen Sommerville	SS	Auroa Power Consulting
Tony Robinson	TR	TVR Instruments
Pedro Rodriguez	PR	BP Lightsource

#### APOLOGIES

Name	Initials	Company

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**MEETING NOTES AND ACTIONS**

<b>1</b>	<b>Welcome, Introductions and Acceptance of Agenda</b>	<b>MK</b>
<p>Previous minutes as circulated on 18/06/23 were accepted.          Accompanying meeting slides should be referred to for detail.</p>		
<b>Actions</b>	None.	

<b>2</b>	<b>Update on BESS issues</b>	<b>MK</b>
<p>An overview of progress made by BESS working group was given – refer to slide 5.</p>		
<b>Actions</b>	None for this meeting	

<b>3</b>	<b>New issues since the last forum</b>	<b>MK/SS</b>
<p>SS detailed the 3 issues he raised for discussion on the meeting agenda:</p>		
<p><b>a) Studies being carried out for battery storage systems in import mode</b>          SS noted that NGENSO are requiring studies to demonstrate the capability of BESS in import mode. This raises questions: e.g. what is required in respect of reactive power or fast fault current injection? There is a NGENSO guidance document that SS will share with the group. It was noted that GC0148, which details the performance requirements of BESS when transiting from an import to export mode during low system frequencies, is currently with Ofgem for approval.</p>		
<p><b>b) EMT studies for fast transient (FRT/FFCI)</b>          SS noted that as a consequence of the August 2019 black out and subsequent FRT Grid Code modifications NGENSO now require full EMT studies and it is believed that they are insisting on PSCAD software.          MK noted that the EMT studies are needed for medium and large embedded power stations with compliance being demonstrated in EMT models at commissioning of medium power stations and throughout the lifetime of large power stations.          MK noted that the draft revised RfG is including new EMT modelling requirements, he will update the forum as to the RfG’s progress and implications in due course.</p>		
<p><b>c) Model handover to DNO and encryption – NDAs etc.</b>          SS noted that NGENSO are requiring fully formatted RMS models, with no encryption or reference to external files, to be provided before operational notifications are given. This is contrary to previous practice where the consultant supplied encrypted models and the manufactures sent the models directly to the ESO.</p>		
<p>SS will also circulate this information to the forum.</p>		

<b>Actions</b>	Circulate NGESO document relevant to the points above. <b>30/06/23</b>	SS
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<b>4</b>	<b>Previous issues</b>	<b>MK</b>
<p>Older issues are covered in the Annex slides 24 - 32:</p> <p>Issue #126. SAF modifications in respect of mandating Part 4 at an earlier stage are being progressed.</p> <p>Issue #127 should be resolved by the P28 review.</p> <p>Issue #117 in respect of Cyber Security is being discussed with AMPS. It was noted that the ENA are currently working on a comprehensive approach to Cyber Security.</p>		
<b>Actions</b>	None	

<b>5</b>	<b>GC0117</b>	<b>MK</b>
<p>Refer to slides 11 and 12, it was noted that the provision of data in respect of smaller generators is the key enabler for the savings associated with better forecasting. The formal Code Administrator consultation is expected late summer / autumn and the likely proposal is that the large power station threshold is moved to 10MW for all generation in GB.</p>		
<b>Actions</b>	None	

<b>6</b>	<b>Distributed ReStart: GC0156 Electricity System Restoration Standard</b>	<b>MK</b>
<p>The Distribution Code consultation in respect of distributed restart closed 16 June. Significant changes to the Distribution Code are proposed, however these are only relevant if the generator elects to have a system restoration (black start) contract.</p> <p>The GC0156 final modification proposal is expected to be submitted to Ofgem in mid July, with the associated Distribution Code report to The Authority to be submitted after the next DCRP meeting in early August.</p>		
<b>Actions</b>	None	

<b>7</b>	<b>EU developments</b>	<b>MK</b>
<p>Slides 16 – 20 contain a summary of recent EU developments in respect of updating the RfG and the DCC.</p>		

It is expected that storage will be included and the Type D voltage criteria will be removed (or ameliorated). ACER proposals for grid forming inverters and a change to the RoCoF are being challenged by the EU DNOs, however it is likely that Type B to D inverters will have to be grid forming at some point in the future. This is expected to be a non retrospective change. The meeting noted that this will have different implications for connections in Northern Ireland.

Formal equipment certification is expected for all EVs and heat pumps manufactured for the EU market. The RfG may also contain some further legal requirements for certification, including the information for certification schemes that DNOs will have to have in place.

The results of a report in respect of harmonisation of equipment certificates and family grouping is given in slide 19 and 20. If this prompts a harmonized family grouping rule in the RfG, the DNOs will definitely need to consider if GB should adopt it.

Slide 21 contains a summary of the latest status of EN 50549.

<b>Actions</b>	None	
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<b>8</b>	<b>AOB</b>	
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RH asked about the status of G99/NI which is not currently aligned with the GB version. SC stated that some changes were currently being considered and other things were on hold because of wider ongoing discussion in respect of Registered Capacity. SC to ask David Hill for a summary of the plans for updating the documents.

<b>Actions</b>	Enquire if there a public statement can be made on G99/NI expected modifications. <b>30/06/23</b>	SC
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<b>9</b>	<b>Next meeting</b>	
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The meeting agreed to a future meeting in about three months

<b>Actions</b>	Arrange next meeting. <b>14/07/23</b>	CMC
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