ENA Electricity Networks and Futures Group

DER TECHNICAL FORUM

MINUTES

Monday 7 October 2024

MS Teams Meeting

ATTENDEES

Name	Initials	Company
Mike Kay	MK	ENA
Olivia Carpenter-Lomax	OCL	Ricardo
Peter Twomey	PT	Electricity North West
Lukasz Bochinski	LB	UKPN
Andy Hood	AH	NGED
Richard Harrison	RH	Clarke Energy
Rose Wabuti	RW	Northern Powergrid
Milana Plecas	MP	SPEN
Chris Marsland	CMA	Bingham Hart and AMPS
Ian Wassman	IW	Independent
Nataliia Myrhorodska	NM	ENA
Mark Dunk	MD	ENA
Nick Patterson	NP	ENESCO
Stephen Sommerville	SS	Aurora Power Consulting
Damon Roberts	DR	Harksys
Daren Farr	DF	INFINIS
Alester Sheara	AS	BU-UK, PowerON
Varvara Alimisi	VA	SSE

Dick Allen	**DA**	**Green Highlands, Connections consultants**
Edita Butkute	**EB**	**Association of British Ports**
James Hurley	**JH**	**SSE**
Jeeven Dhaliwal	**JD**	**ENA**
Matthew Porter	**MP**	**PSE2 Consulting**
Philip Bale	**PB**	**Road Knight Taylor**

APOLOGIES

Name	Initials	Company
Sarisha Ojageer	**SO**	**Ricardo**
Ian Nicoll	**IN**	**Qmulus Ltd**
Jason Kirrage	**JK**	**Solar Edge Technologies**
Chris Wright	**CW**	**Lunar Energy**

MEETING NOTES AND ACTIONS

1. Welcome, Introductions and Acceptance of Agenda		**MK**
Accompanying meeting slides should be referred to for detail.		
Actions	None	

2. Actions from previous meeting		**MK**
None		
Actions	None	

3. Revised DER Connection Cyber Security guidance		MK
There is a historical set of guidance developed by BEIS, NSCS and the ENA in 2020 on how to develop cyber secure systems. This has come up again as a topic. It was raised that this needs to engage anyone who is working on systems connecting to the network. This document interacts and refers to Cybersecurity Assessment Framework (CAF). Primarily looking at malicious attack rather than malfunction. Request that the DER connection guidance document can be revised by this forum. Suggestion that the DSR forums, storage as well as generators and providers should also be engaged.		
Actions	Reshare the DER connection guidance document **09/10/24** Provide feedback on the DER connection guidance document **01/11/24**	MD All

4. New issues	MK
Harksys Issue: DR presented his slides and described the issues and difficulties he was finding in working to the requirements of G100 (see the slides for details). MK suggested that there were three classes of issue: 1. Matters of interpretation of the existing text, where greater clarity, or guidance would be helpful; 2. Misconceptions about the requirements of G100 3. More complex practical examples where again guidance would be helpful in terms of implementation and minimising differences between DNOs DR agreed that this was an appropriate classification. It was agreed that generators/developers on the call would submit any examples they were aware of where the application of G100 had been problematic. DNOs would consider these, with the Harksys examples, and see if a first draft of a guidance note could be produced, which could be discussed in detail with interested stakeholders. **Fault Current Interrupters:** CM asked the meeting for knowledge on the deployment of fault current interrupters/limiters, and particularly on the progress of the trials etc with the GridON device. The DNOs present indicated that they thought the GridOn device is a viable solution for fault current interruption. However	

DNOs were unwilling to contemplate its use at present because interruption of generation removes fast fault current infeed (FFCI) and negates fault ride through (FRT). This is a particular issue when contemplating fault level issues on the transmission system, as the NESO offers to DNOs for the connexion of embedded generation specify limits on fault current infeed, but do not relax the FRT and FFCI requirements. These requirements are, of course, in conflict and are only resolved when the relevant transmission owner invests to remove the fault level restriction. This seems inappropriate for relatively small embedded generation schemes. It was agreed that it is a potential solution to unlock similar projects held up in the GB queue, and that if it can be shown to be material with the queue, it may be possible to have it recognised as a strategic issue by those responsible in government and industry for queue management.

Stakeholders are asked to tell the ENA of any projects they know where a fault current interrupter may allow more rapid connexion, if the conflicting NESO requirements could be alleviated.

Minor conflict between G100 and G99 7.6.1

MK outlined this drafting problem in G99 and suggested that the proposed changes be included in the next minor updates to G99 (ie after the modification currently with Ofgem).

Actions	Share examples where the interpretation of G100 has differed between applications, o where it is causing issues **01/11/2024**	ALL
	DNOs to consider all the issues raised and consider a first draft of a guidance note **20/01/2025**	ENA/DNOs
	Stakeholders to share with ENA evidence for the potential benefits of a fault current limiter / fault current interrupter technology, and where fault current has been a limiting factor in the connection of generation **01/11/2024**	ALL stakeholders
	Add G99 7.6.1 to list of future modifications **09/10/2024**	OCL

5.	Minor technical changes to G99 - progress	MK/OCL
Update shared in the meeting slides. Next steps: The DCRP has endorsed the submission of the modification to Ofgem. The proposed implementation date is 01 January 2025, although of course this may need to be later if Ofgem need more time to review the modification. The compliance date for the new storage requirements would be 01 January 2026, unless the 01 January 2025 date slips, in which case it would be on year later than the revised implementation date.		
Actions	None	

6	SAF update	MK
MK explained that the SAF was initially being updated primarily to address issue 128 raised by PB. However in parallel the Strategic Connexions Group had asked for similar changes, and also changes to require a letter of authority and heads of terms to be submitted for projects (unless the land is owned outright by the developer). The format is now thought to be relative mature, although some further guidance related to the heads of terms requirement may be added to the next draft. The key change for issue 128 is that both parts 3 and 4 need to be complete at first application for generation types B, C and D (rather than part 4 being completed later in the process).		
Actions	None	

7	Existing issues update	MK
These are included in detail in the slide pack but were not discussed in detail. However, the Registered Capacity issue of issue 112 was discussed and it was agreed that DNOs would be asked to clarify their treatment of maximum export in relation to registered capacity – particularly where the power generating module was working at a power factor of, or close to, unity.		
Actions	Confer with DNOs **01/11/2024**	MK

8	GC0117 – Definition of Large, Medium and Small	MK
Progress noted. The ENA would notify the DER Technical Forum when Ofgem issued the consultation on GC0117		
Actions	Inform DER TF members **TBC**	MK

9	EU update	MK
Detail in the slides, covering EV requirements and V2G, legal requirements in certification, aggregation of units, inclusion of storage, grid forming is mandatory down to Type A, and simulations and models. If there are any detailed queries on the implications of the material, please contact MK		
Actions	None	

10	AOB and next meeting	MK
RW – Query about the ramp rate restrictions that battery storage is held to when connected within ANM system. Developers are pushing back as they are not able to participate in the Frequency Response market. A consistent ramp rate allows projects higher in a LIFO ANM stack time to respond. Next meeting: Late January		
Actions	Discuss with DNOs off line **01/11/2024** Arrange next meeting **09/10/2024**	RW ENA