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Customer Islanding WG G98 and G99 Accommodation

Thursday 22 February 2024
13:00 – 15:00



Agenda

13:00	Welcome, Introductions and Acceptance of Agenda (AH)
13:05	Review of minutes and actions from 11 December and 22 January meetings
13:10	Synchronising
13:40	Fault Ride Through
14:10	Review of revised diagrams
14:35	Any other drafting points?
14:45	Next Steps
14:55	AOB
15:00	Finish

Previous meeting

Previous Meeting

Minutes accepted?

Phase imbalance – we expect DNOs to advance a 32A limit instead of 16A – in the minor technical changes update pending.

Synchronizing

Synchronizing

We agreed at our last meeting to make a specific and significant reference to the need to ensure P28 compliance, but also we would put some back stop absolute values in G99.

The suggested text is:

14.5.4 Where the Power Generating Module is resynchronising from islanded mode, ie where the Power Generating Module is supplying some or all of the demand in the Customer's Installation resynchronisation will only be allowed such that any effect on the DNO's Distribution Network is minimised, and must demonstrate compliance with the requirements of EREC P28 for the most onerous synchronizing conditions. In general auto resynchronisation should modify the Power Generating Module output to closely match the voltage, frequency and where applicable, the phase angle of the DNO's Distribution Network. In addition to the Generator (or Manufacturer or Installer) demonstrating P28 compliance, synchronization should not occur outside of the criteria below:

- a) No more than 10% voltage difference,
- b) A difference in Frequency no more than 400 mHz from the System Frequency, and
- c) a phase angle displacement of no more than 15°.

In general Power Generating Modules should be designed to achieve values that ensure compliance with P28 and are close to zero as possible in all cases.

Synchronizing

Comparison of proposed absolute values with previous discussion:

	Tesla default	RfG 2.0	Original Suggestion	Latest Suggestion
Voltage delta	3%	10%	10%	10%
Frequency delta	100mHz	200mHz	100mHz	400mHz
Phase angle delta	5°	10°	6°	15°

Fault Ride Through

Fault Ride Through

FRT is a legal requirement for Type B, C & D. The following is suggested text to address this:

9.6.2.8. Generation, particularly where consisting of, or incorporating Electricity Storage, shall observe the Fault Ride Through requirements required in sections 12 or 13 as appropriate. In other words, Customers' Installations where large demands are supplied from the network, but are backed up by generation or Electricity Storage running in long term parallel mode, shall not trip from the network to run in island mode for voltage disturbances which require the connected generation to ride through and remain operating in parallel with the DNO's Distribution Network.

Fault Ride Through - 2

Do we need an exemption for certain customers who have a genuine need to be able to protect themselves?

We need to find a balance between disturbances caused by the customer behaviour and the constraints on the customer.

Would it be appropriate to exclude customers if the resultant change in flow is <10% of the MEC or MIC?

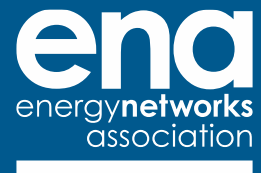
9.6.2.9. An exception to 9.6.2.8 shall be allowed if the resultant change in Active Power flow at the Connection Point is both less than 5 MW and less than 10% of the lower of the maximum export capacity or the maximum import capacity.

Section 8 diagrams

Any other drafting points

Next Steps

AOB



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