

Workgroup Consultation Response Proforma**GC0163: GB Grid Forming (GBGF) - Removal of Virtual Impedance restriction**

Industry parties are invited to respond to this consultation expressing their views and supplying the rationale for those views, particularly in respect of any specific questions detailed below.

Please send your responses to grid.code@nationalgrideso.com by **5pm on 12 February 2024**. Please note that any responses received after the deadline or sent to a different email address may not receive due consideration.

If you have any queries on the content of this consultation, please contact Jonathan Whitaker Jonathan.whitaker@nationalgrideso.com or grid.code@nationalgrideso.com

Respondent details	Please enter your details	
Respondent name:	Thorsten Bülo	
Company name:	SMA Solar Technology AG	
Email address:	Thorsten.Buelo@sma.de	
Phone number:	+491726262688	
Which best describes your organisation?	<input type="checkbox"/> Consumer body <input type="checkbox"/> Demand <input type="checkbox"/> Distribution Network Operator <input type="checkbox"/> Generator <input type="checkbox"/> Industry body <input type="checkbox"/> Interconnector	<input type="checkbox"/> Storage <input checked="" type="checkbox"/> Supplier <input type="checkbox"/> System Operator <input type="checkbox"/> Transmission Owner <input type="checkbox"/> Virtual Lead Party <input type="checkbox"/> Other

I wish my response to be:

(Please mark the relevant box)

☒ Non-Confidential

☐ Confidential

Note: A confidential response will be disclosed to the Authority in full but, unless agreed otherwise, will not be shared with the Panel or the industry and may therefore not influence the debate to the same extent as a non-confidential response.

For reference the Applicable Grid Code Objectives are:

- a) To permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity
- b) Facilitating effective competition in the generation and supply of electricity (and without limiting the foregoing, to facilitate the national electricity transmission system being made available to persons authorised to supply or generate electricity on terms which neither prevent nor restrict competition in the supply or generation of electricity);

- c) *Subject to sub-paragraphs (i) and (ii), to promote the security and efficiency of the electricity generation, transmission and distribution systems in the national electricity transmission system operator area taken as a whole;*
- d) *To efficiently discharge the obligations imposed upon the licensee by this license and to comply with the Electricity Regulation and any relevant legally binding decisions of the European Commission and/or the Agency; and*
- e) *To promote efficiency in the implementation and administration of the Grid Code arrangements*

Please express your views in the right-hand side of the table below, including your rationale.

Standard Workgroup Consultation questions		
1	Do you believe that the Original Proposal better facilitates the Applicable Objectives?	<div>Mark the Objectives which you believe the Original solution better facilitates:</div> <div>Original <input checked="" type="checkbox"/>A <input checked="" type="checkbox"/>B <input checked="" type="checkbox"/>C <input checked="" type="checkbox"/>D <input type="checkbox"/>E</div> <div>Click or tap here to enter text.</div>
2	Do you support the proposed implementation approach?	<div><input checked="" type="checkbox"/>Yes</div> <div><input type="checkbox"/>No</div> <div>Click or tap here to enter text.</div>
3	Do you have any other comments?	Also ECC.6.3.19.3 (v) (b) should be changed from “Operating as a voltage source behind a real reactance” to “Operating as a voltage source behind an impedance”
4	Do you wish to raise a Workgroup Consultation Alternative Request for the Workgroup to consider?	<div><input type="checkbox"/>Yes</div> <div><input checked="" type="checkbox"/>No</div> <div></div>

Specific Workgroup Consultation questions		
5	Do you have any concerns with the proposal to remove the requirement mandating the use of a real impedance in a GB Grid Forming Converter? If so, please state why you believe this to be the case.	<div><input type="checkbox"/>Yes</div> <div><input checked="" type="checkbox"/>No</div> <div>Click or tap here to enter text.</div>
6	Does the change impact your business?	<div><input checked="" type="checkbox"/>Yes</div> <div><input type="checkbox"/>No</div>

		It provides more flexibility and clarity regarding GBGF compliant solutions
7	Do you have experience with virtual impedance vs real impedance control?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Click or tap here to enter text.
8	Do you think the title is a fair reflection of the modification?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Click or tap here to enter text.