

Overview:

A GB Grid Forming Best Practice Guide is being produced by NGESO in collaboration with comprehensive external stakeholders in the GB and wider to ensure a workable standard for all parties can be created to facilitate grid forming applications within GB energy markets.

Drivers:

- To provide necessary guidance on existing GC0137 Legal Texts as much as possible
- To capture any good practices in GB and wider as well as comprehensive valuable thoughts, suggestions for future development of GB Grid Forming where appropriate.
- To identify any future Grid Code changes that may be required in order to facilitate grid forming within GB.



Structure of GBGF BPG Subgroups:

To establish a Expert Group (50+ people) with a good mix of Subject-Matter Experts from GB and wider for their contributions into the following four subgroups:

- Subgroup 1: Definition of GB Grid Forming Plant and its functionality
- Subgroup 2: Analysis Methodology
- Subgroup 3: Modelling requirement
- Subgroup 4: Compliance Testing

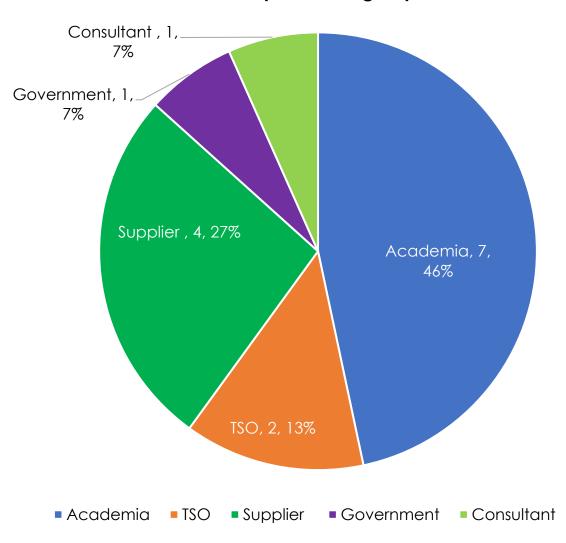
Subgroup 1 – GB Grid Forming Definition

Key Points of ToR

To provide guidance on definitions of GB Grid Forming Plant (including GBGF-S & GBGF-I), IVS, and their GF capabilities in line with GC0137 Legal Texts.

Academia	7
TSO	2
Supplier	4
Government	1
Consultant	1
Total	15

Pool of Expert in Subgroup 1



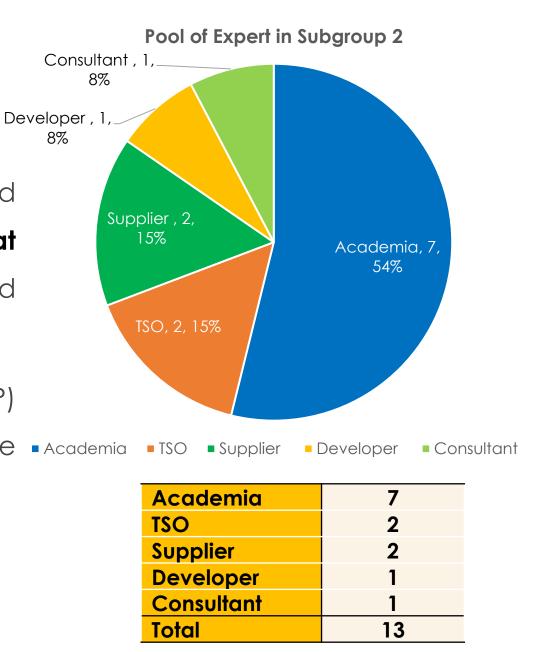


Subgroup 2 – Analysis Methodology

Key Points of ToR

- To provide guidance on when time-domain and frequency-domain analysis is required and what are the most appropriate time domain and frequency domain methods to be adopted;
- To develop Network Frequency Perturbation (NFP)
 Plot(s) (or equivalents/alternatives e.g. impedance Academia TSO Supplier
 scan).

 Academia

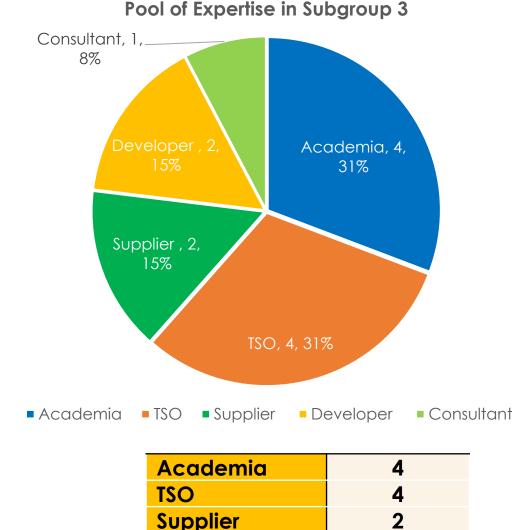




Subgroup 3 – Modelling Requirement

Key Points of ToR

- To provide further guidance on GC0137 Clauses as relevant to Model Requirement.
- To capture any good practices from Subgroup 3
 Contributors (report, testing system if possible and allowed, etc.)
- To identify any unique modelling requirements for GBGF-I plants in comparison with GC0141.



Developer Consultant

Total

Note: GC0141 "Compliance Processes and Modelling amendments following 9th Augus
Power Disruption"



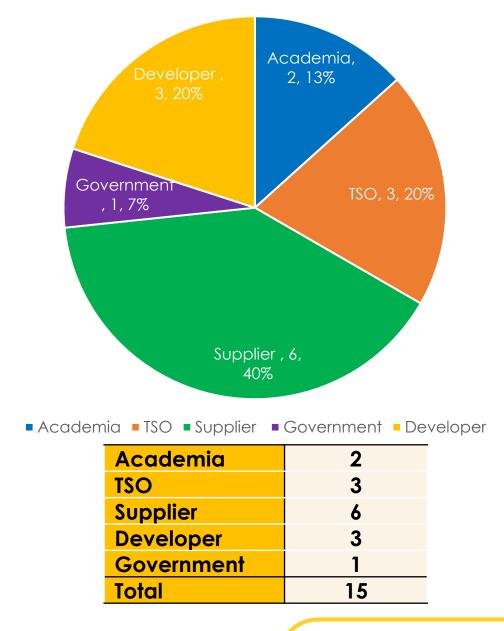
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Subgroup 4 – Compliance Testing

Key Points of ToR

- To provide further guidance on GC0137 Clauses as relevant to Compliance Testing.
- To capture any good practices from Subgroup 4
 Contributors (report, testing system if possible and allowed, etc.)
- To identify any unique compliance requirements for GBGF-I plants e.g. Phase Jump.

Pool of Expertise in Subgroup 4





Q&A

Thanks for your attention!

Any Question?

