

Code Administrator Meeting Summary

GC0137: Minimum Specification Required for Provision of GB Grid Forming (GBGF) Capability (formerly Virtual Synchronous Machine/VSM Capability)

Date: 22 September 2020 – Workgroup 2

Contact Details

Chair: Joseph Henry, National Grid ESO

joseph.henry2@nationalgrideso.com
07970673220

Proposer: Matt Baller, National Grid ESO

Matt.Baller@nationalgrideso.com

Key areas of discussion

The Workgroup discussed the following:

- The workgroup was advised that the name of the modification would be changing as follows:

Existing: Minimum Specification Required for Provision of Virtual Synchronous Machine (VSM) Capability

New: Minimum Specification Required for Provision of GB Grid Forming (GBGF) Capability (formerly Virtual Synchronous Machine/VSM Capability).

This name change better reflects the purpose of the modification. Grid Code Review Panel will be asked to approve this on 24 September 2020.

- The ESO presented to the Workgroup on developments which had taken place offline in regards to Grid Forming on the modification since the group last met in April 2020. The topics discussed were as follows:
 - Synchronous Machine Theory and how this relates to GB Grid Forming
 - Synchronous Machines, GB Grid Forming Static Power Converter (“GBGFC”) (with inertia), VSM0H (no inertia) and comparison with current converter-based technology
 - Grid Forming – Analysis, Specification and Development
 - High-level Grid Code requirements
 - Data Submission and Models
 - Compliance Testing and Simulation

- Monitoring
 - Determination of System Needs
- The workgroup reviewed the VSM specification put forwards by the ESO and discussed in detail. The workgroup agreed to review this specification and provide comment ahead of Workgroup 3.
- The Code Administrator set out that they aim to publish a workgroup consultation on GC0137 before the turn of the year.

For further information, please contact the Code Administrator.