

GC0096 Storage

Post RfG Updates

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Background

- Over summer 2016 a number of connection applications were received for transmission connected storage projects
- These required technical appendices for their offers to be compiled
- This was felt to lack transparency and consistency – as there are no provisions for storage in the Grid Code
- The EU Connection Network Codes (Requirements for Generators, HVDC Code and Demand Connection Code explicitly exclude storage

Initial progress

- Two workshops held with interested parties to define proposal in Aug 2016
- It soon became apparent that it was more complex than at first envisaged
- Terms of Reference for workgroup drafted Dec 2016
- 1st workgroup meeting held Jan 2017
- Several workgroup meetings were held in 2017 which aimed to define the definitions for Electricity Storage and the applicable technical requirements which were aimed to be equitable to those of Generating and HVDC equipment

Current Status

- Draft Legal Text (Glossary and Definitions, Connection Conditions and BC3) in addition to a draft report was circulated to the Workgroup in December 2017
- The latest Webex was held on 15 January 2018 where it was agreed that the proposed Storage provisions should be superimposed onto the RfG HVDC approved version of the Grid Code (Grid Code Issue 5 Revision 22 – 16 May 2018)
- This work has been completed and the revised Storage provisions have been added to the latest approved version of the Grid Code

Updates since January 2018 (1)

- The opportunity has been taken to introduce new terms of “Type A, Type B, Type C and Type D Electricity Storage Modules” to ensure consistency with Power Generating Modules under RfG
- This will facilitate both co-location and standalone connections
- The definition of Electricity Storage has been updated to align with Ofgem’s Licensing Consultation and now removes the statement “in a controllable manner”
- New definitions have been added for Flywheels and Synchronous Compensation Equipment”. If these can be controlled they would come under the umbrella of Electricity Storage
- Workgroup report updated together with Legal text of the Glossary and Definitions, ECC’s and BC3
- Clarification has been added to LFSM-O Mode of operation when an Electricity Storage Module is operating in a mode analogous to Demand – Clarification is also required in respect of HVDC Systems but it is accepted this is outside the scope of this workgroup and would need to be picked up via a separate route.

Next Steps

- Workgroup to review the revised Report and Legal Text
- National Grid welcomes comments on these proposals and drafting
- National Grid is interested to hear Workgroup Members comments ahead of consequential changes to other sections of the Grid Code (ie introduce the terms of Electricity Storage Module, Electricity Storage Facility etc) to other sections of the Grid Code.
- Some further consideration is required in respect of Data requirements and the Data Registration Code