*Innovation Competitions - Full Submission*

*Supplementary Answer Form*

Tick if this answer has been provided verbally:

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| Project code | ENWT206 | Question Number | Q7 |
| Question date | 31 July 2014 | Answer date | 4 August 2014 |
| Submission section question relates to | Section 2 Project Description  2.2 – Central Assessment, Pg 8 | | |
| Topic | FCL Techniques | | |
| Question | What are the expected benefits (commercial and otherwise) of using Is-limiters over the superconducting FCLs, SS FCLs and current limiting reactors etc being investigated by FlexDGrid? | | |
| Notes on question |  | | |
| Answer | The Is-limiter was specifically mentioned as a solution for fault current issues in the DTI report of 2005 and its use has never been fully explored. As part of the FLARE project we will evaluate if the Is-limiter has any particular operational benefits over the fault current limiters being investigated by FlexDGrid and envisage that the Is-limiter technology will sit alongside the FlexDGrid techniques to offer another option for network planners when dealing with fault level issues.  FLARE complements the FlexDGrid project and using the ouputs of both projects will give the industry a wide choice of solutions for any given situation. It is anticipated that the Is-limiter will, in certain scenarios, offer a lower cost alternative to some of the other fault current limiting technologies currently available and the NPV analysis for the Is-limiter can be found in the Project Business Case (Section 3). The Cost Benefit Analysis that will be delivered as an SDRC in the FLARE project will explore the scope of these scenarios. | | |
| Attachments |  | | |