Electricity Network Innovation Competition Full Submission

Supplementary Answer Form

Project: Black Start from Distributed Energy Resources

Tick if this answer has been provided verbally: ☐

Project code	ESOEN01	Question Number	70
Question date	2 Oct 2018	Answer date	4 Oct 2018
Submission section question relates to			
Topic			
Question	If no trial is undertaken how can the Panel be assured that additional customer funded innovation monies will not be required to ensure the ESO can procure Black Start services from DER as BAU, given your statement of readiness for BAU in the first bilateral.		
Notes on question			
Answer	Our project will develop and demonstrate an approach for procuring Black Start services from DER that can form the basis for BAU implementation. We believe our proposal covers what is required to achieve this, across the Technical, Organisational & Systems, and Procurement & Regulation workstreams, and we do not anticipate the need for any follow-on innovation funding. Through the Technical workstream, we will establish engineering certainty that will prove the concept and enable wider roll out. To achieve this we will study the power system behaviour through a range of case studies and progress these to at least two live trials. We will also design the testing process for ongoing assurance in post-project rollout. The Organisational & Systems workstream is perhaps the most complex of all but will ensure we understand all that is needed for implementation into BAU. This includes the processes, roles and responsibilities, and requirements for systems and telecoms to manage power islands and restore the network. These will be tested through desktop exercises to ensure they are fit for purpose and ready for BAU implementation. The Procurement & Regulation workstream will ensure that the procurement strategy and approach, systems, resources and associated tools and		

	processes are understood and ready to be implemented as an enduring solution. Proposals for changes to codes and licenses will be presented back to the industry for implementation through BAU. We will engage and consult with the industry throughout the project as part of the Knowledge Dissemination workstream. This will ensure that the solutions are widely suitable and acceptable for adoption, to ease the transition and mitigate risk of challenge. The project as a whole has been developed with the transition into BAU in mind. However, we also acknowledge that this project is innovative and intended to address a number of unknowns, and there is a risk that the method may be found to fall short of technological or organisational readiness for practical GB-wide implementation, or to be not cost competitive. As such, we must recognise the possibility that the project identifies gaps in technology or capability, and that someone may seek innovation funding in future to plug those gaps.
Attachments	