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	37
Question date	23 Aug 2018	Answer date	28 Aug 2018
Submission section question relates to	Appendix D – Risk Register and Contingency Plan		
Topic	g) Robust methodology and ready to implement		
Question	Risk 3: What mitigation has been put in place? If it turns out that this is the case for all the test areas how will the tests be carried out? Should this be a red risk?		
Notes on question	Risk 3 – Development - Restrictions on using DER for Black Start. Cause: Designs to overcome blockers for distribution networks are very complex and/or costly.		
Answer	Expected modifications to case study networks to facilitate testing of Black Start from DERs, such as earthing and protection changes, have been included in the project budget. During the Development phase, we will assess the technical suitability of the case study networks. A key criterion for progression to online testing will be the cost of network modifications required. If we find that the cost of network modifications for the most suitable case study networks is materially higher than budgeted, we will mitigate by rescoping the online testing. This rescoping may include full online testing of only one case study network, reduced online testing of two case study networks and/or testing of case study networks that are less suitable overall but require less modifications. It may also include further studies to understand distribution network blockers and how to overcome. In this way, we will maximise value and learning from the online testing, alongside learning from process walkthrough testing and detailed analysis. The probabability score is a 2, which is equivalent to assuming that 10-40% of the case study networks require some significant and costly modifications		

	beyond what is expected in the budget. The financial and reputational impact scores have also been reviewed and are reasonable in our view. The RAG score is 6 and is equivalent to a green risk.
Attachments	