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	24
Question date	21 Aug 2018	Answer date	23 Aug 2018
Submission section question relates to	DERs – a large and growing opportunity for a Black Start market of dwindling providers		
Topic	a) Low carbon/environment and net financial benefits		
Question	Is there a target for the synchronous/asynchronous ratio making up the Black Start mix in an area?		
Notes on question			
Answer	Our NIC project opens up significant opportunities for both synchronous and asynchronous generation types within Distribution networks to contribute to restoration. In current Black Start plans, diversity of providers is encouraged as this adds resilience to operational plans, reducing reliance on any one particular technology or fuel type. For the NIC project, there is currently no target ratio for specific generation types within a particular restoration area, however consideration will be given to the resilience offered from diverse generation types. The case studies identified for the NIC project have a mixture of synchronous and non-synchronous generation types, from both despatchable and intermittent resources, and this range provides an opportunity to explore options within these areas. Working through the case studies will allow us to understand how synchronous and non-synchronous generation types will operate and interact with each other when providing restoration services. This will inform how different ratios may (or may not) work.		
Attachments			