

Electricity Network Innovation Competition Full Submission
Supplementary Answer Form

Project: Optimise Prime

Tick if this answer has been provided verbally: ☒

Project code	UKPNEN03	Question Number	31
Question date	02/10/2018	Answer date	08/10/2018
Submission section question relates to			
Topic			
Question	<p>Method 2 is providing (i) a site planning tool allowing a fleet operator to manage demand on its side of the meter, and (ii) a tool allowing the DNO/DSO to access flexibility across the fleet operator's meter. Please explain the role Hitachi's IoT Platform has in Method 2 as part of this project and then when the method is rolled out as Business as Usual (including whether Hitachi's tool will be required for business as usual). Further, how will this deliver learning that is representative of not only large but also small and medium-sized fleet operations across GB.</p>		
Notes on question			
Answer	<p>Question: Please explain the role Hitachi's IoT Platform has in Method 2 as part of this project and then when the method is rolled out as Business as Usual (including whether Hitachi's tool will be required for business as usual).</p> <p>Answer:</p> <p>Method 2 is formed of a series of tools, based on a common set of valid data, that enable:</p> <ul style="list-style-type: none"> - fleet operators or their consultants to work out what they need in terms of additional capacity (i.e. their maximum load demand); - DNO planners through to connection designers to assess connections and make offers; and - depots to charge in an optimised manner that benefits the whole energy system – reducing peak network demand and generation needs. 		

	<p>These tools will enable depots to connect using “profiled connections” – reducing network impact and enabling higher utilisation.</p> <p>We need data gathered in Optimise Prime to underpin the tool design and the trials to demonstrate that these profiles work and do not overly restrict the depot owner and their operations. We need the expertise and IT skills of Hitachi working with Royal Mail’s fleet knowledge and our network knowledge to develop tools that can scale this to business as usual across GB. Together these learnings (including the methodologies and reference designs for the depot tools) will inform the industry and enable third parties to create their own tools should they wish.</p> <p>The Hitachi IoT platform is needed to handle the trial data, and support the generation of the project learning, upon which these tools are based. The tools are specified to be stand alone post-project. Ongoing operation and support of the Hitachi IoT platform will not be required for their use.</p> <p>Question: Further, how will this deliver learning that is representative of not only large but also small and medium-sized fleet operations across GB.</p> <p>Answer: Our partner, Royal Mail, has a wide range of sizes of depots (which provide a vast variation and representation of all fleet sizes). We believe, by looking at a variety of shapes and sizes of Royal Mail depot, at an individual depot level, that the learning will be applicable to most “charge at depot” fleets.</p> <p>Furthermore, by working with our partner, Hitachi Capital Vehicle Solutions, who provide fleet consultancy and management services to 143 fleet customers across GB (23,000 LCVs), we will have access to small to medium sized fleets to validate findings and learnings from the project (through surveys).</p>
Attachments	