

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	Q20
Question date	30/08/2018	Answer date	03/09/2018
Submission section question relates to	Section 2		
Topic	Robust methodology		
Question	"We have recently published a consultation on proposed reform of network access and future charging arrangements. Please explain the potential impact of these proposals on your submission."		
Notes on question			
Answer	<p>Optimise Prime explores many of the areas covered in the published Ofgem consultation¹ on proposed reform of network access and future charging arrangements. It will provide an opportunity to test in real life some of the concepts that will potentially be explored under the resulting review of the consultation and will gather evidence to inform decision making in this space. Specifically the project will cover the following relevant topics:</p> <p><u>Price driven and coordinated flexibility</u></p> <p>Testing the effectiveness of two approaches to achieving flexibility from EV charging demand:</p> <ol style="list-style-type: none"> 1. Price driven flexibility – sending price signals to third parties (in our case our partners through the Hitachi IoT platform) to influence their charging behaviour to address network constraints. 2. Coordinated flexibility through technology – use of technology to adjust charging patterns to address network constraints (in our case via the depot energy optimisation system). <p>Our trial will explore the consumer response to each of these approaches which will provide valuable insights into the effectiveness of each approach. These insights can be fed into the review of the network access and future charging reform to ensure that future arrangements are implemented with a</p>		

¹ https://www.ofgem.gov.uk/system/files/docs/2018/07/network_access_consultation_july_2018_-_final.pdf

	<p>better informed view of the impact they may have on both the network and customer experience.</p> <p><u>Developing a profiled connection offering (essentially a Profiled Access product)</u></p> <p>The project will develop a DNO profiled connection offering which assesses the customer's required load profile with that of the spare capacity profile of the network to reduce reinforcement requirements. Again this will provide insight to the effectiveness of this approach to inform the review of potential approaches to defining Network Access in the Access and Charging review.</p> <p><u>Domestic charging of commercial vehicles</u></p> <p>One complexity that the project has identified and will explore is how to approach scenarios where commercial vehicles are being charged at domestic premises on behalf of the relevant company. This could uncover complexities around:</p> <ol style="list-style-type: none"> 1. How to best deal with network upgrades triggered by commercial loads at domestic premises. 2. How to charge network use by commercial entities at domestic premises. 3. How flexibility signals are sent and responded to by those able to influence the charging behaviour of commercial EVs at domestic premises. <p>With all of the areas above, we will ensure all project learnings are presented in an appropriate format for wider public and specifically guide learning that is relevant to Network Access and Charging towards the right group through the appropriate channels in line with the outcome of Ofgem's Network Access and Charging Work.</p>
Attachments	