

Electricity Network Innovation Competition Full Submission

Supplementary Answer Form

Project: Charge: Rfuelling Tomorrow's Electrified Transport

Tick if this answer has been provided verbally: ☐

Project code	SPMV1	Question Number	21
Question date	21/08/18	Answer date	23/08/18
Submission section question relates to		N/A	
Topic	a) Low carbon/environment and net financial benefits		
Question	The proposal shows the percentage of areas being targeted for trials (pie charts on p.76). The percentage of dense urban areas is relatively small which is where big cities will have most problems. Was any analysis done to determine the number of different urban applications that have to be addressed through this method to provide significant and repeatable results?		
Notes on question			
Answer	<ul style="list-style-type: none"> • Charge will seek to identify where EV drivers are likely to plug in - hence the detailed transport planning in Method 1. This will include factors like where people live (suburbs, flats, rural locations), where they work (charge at work) and where they travel (e.g. en-route charging). • The questioner is correct that as a % of the SPEN networks, there are few circuits feeding central business districts (Figure 24), but we recognise that they do exhibit very specific characteristics, such as a flatter, longer demand profile across the middle of the day, and weekday demand significantly higher than weekends. As part of developing the business case for Method 2, our analysis (from the Transform Model) shows that there is smaller benefit in targeting these networks for SPEN, but we recognise they are an important use case for GB, which does need to be addressed. • For this reason, we have aligned ourselves with UKPN and their Optimise Prime bid. We are not seeking to unnecessarily duplicate their case studies where they are likely to generate better datasets/learning with the dense urban networks of LPN. If both projects are successful in receiving funding, we intend to feed the outputs of their project into the ConnectMore tool as part of our Method 3. 		
Attachments	n/a		