

Electricity Network Innovation Competition Full Submission
Supplementary Answer Form

Project: Charge: Refuelling Tomorrow's Electrified Transport

Tick if this answer has been provided verbally: ☐

Project code	SPMV1	Question Number	4
Question date	07/08/18	Answer date	13/08/18
Submission section question relates to	2		
Topic	Direct Impact		
Question	Please explain how Methods One and Three would have a Direct Impact (as defined within the Governance Document).		
Notes on question			
Answer	<ul style="list-style-type: none">• We understand the definition of Direct Impact is where the deployment of the Method will cause a measurable change in the operation of the Distribution System in a controllable way.• The EV revolution is happening. Mass transition from petrol and diesel based fuels will occur by 2040, resulting in a fundamental change to the size and shape of the power demand throughout Britain's electricity networks. The purpose of Charge is to accommodate this transition: maximising the use of existing assets and enabling flexibility to reduce the overall network reinforcement costs to customers and connectees in the short to medium term.• We intend for Charge to be a flagship project. NIC funding will allow us accelerate the adoption of project successes beyond a single licence area more quickly than we could achieve through NIA or BaU.• Method 1:<ul style="list-style-type: none">◦ Once proven, we expect DNOs to have a tool to target EV related network development with less uncertainty and lower cost to the broader customer base.◦ The mapping of transport planning needs to network capacity should provide market signals to indicate prime areas for the deployment of EV charging infrastructure.◦ The scale of the trial planned in the project is larger than previously undertaken, and should allow fast roll out across an entire licence area, whilst also targeting specific areas where new capacity will be required.◦ Simultaneously, this will provide specific geographic market signals for flexibility services that can be procured from a range of participants.◦ Once proven, we believe it could be readily deployed across other electricity licence areas, informing RIIO-2.• Method 3:		

	<ul style="list-style-type: none"> ○ ConnectMore takes the outputs of Methods 1 and 2 to enable more detailed, geographic assessments, down to LV, to develop a more efficient network. ○ This will allow customers to visualise capacity and connect to the network where there is spare. This will ensure DNOs maximise the use of the existing network before reinforcement is required. ○ The tool will also enable a connectee to understand how they can use the solutions developed in Method 2, enabling them to choose their own blends of smart solution(s). Ultimately, this will encourage customers to use cost effective non-network solutions to support their connection.
Attachments	n/a