



MHA Authority	Nottinghamshire County Council (DCC)						
Project Number	60647865						
Project Title	Nottinghamshire On Street Electric Vehicle Charging Study						
Client Contact	Vicky Lewis						
Client Details	Senior Local Transport Plan Officer, vicky.lewis@nottscc.gov.uk						
Brief Project Description (300 Characters)	Electrification of the private vehicle fleet has been confirmed with the Government signalling the end of new petrol and diesel vehicles by 2030. This will result in an increasing number of electric cars and demand for EV charging; however, approximately 26% of houses do not have access to off-street parking at home.						
	AECOM was therefore commissioned to provide NCC with a better understanding of:						
	 practical and policy issues surrounding implementing on-street parking infrastructure. locations where on-street EV infrastructure may be required in the future. types of on-street charging infrastructure currently available. an evaluation of the different types of infrastructure available and their practicality in both urban and rural settings; and specific issues faced in rural communities when providing / considering EV infrastructure. 						
	The report will be used to identify locations in Nottinghamshire for potential trials of the most appropriate on-street EV infrastructure in a variety of settings (rural and urban; residential, commercial, retail).						
Full Project Description	 Electrification of the private vehicle fleet has been confirmed with the Government signalling the end of new petrol and diesel vehicles by 2030. This will result in an increasing number of electric cars and demand for EV charging; however, approximately 26% of houses do not have access to off-street parking at home. AECOM was therefore commissioned to provide NCC with a better understanding of: practical and policy issues surrounding implementing on-street parking infrastructure. locations where on-street EV infrastructure may be required in the future. types of on-street charging infrastructure currently available. an evaluation of the different types of infrastructure available and their practicality in both urban and rural settings; and specific issues faced in rural communities when providing / considering EV infrastructure. 						

the work, a number of local highway authorities were contacted to determine their experience of deploying on-street EV charging such that lessons learned could be collated for Nottinghamshire. In addition, the major EV charging manufacturers were contacted to



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understand the range of products available and the advantages and disadvantages of the main product types.

		lards Product Summary				
	Criteria	BP Pulse Char.gy CityEV			ROLEC	Ubitricity
	Example Image			I	ē.	Ó
	Name of Product(s)	+ BP Pulse 7	+ Char.gy Bollard Solution	+ Name TBC, heritage and modern design options.	+ Removable Bollard "StreetServ:EV"	+ SimpleSocket Bollard
	Approximate Cost per Unit	Agreed through the D2N2 scheme. £1,890 excluding civils, installation.	+ Two Business Models available to councils detailed in section 3.2.	+ Fixed bollard product approx. £1,680 (TBC), excluding civils, installation.	Removable bollard product approx. £1,300 excluding civils, installation.	Approximately £3,000 total (£1,750 for bollard, c. £1,250 for installation).
	Power	+ Standard Type 2 <u>Sockets;</u> + Dual <u>outputs;</u> + 3.6kW, 7kW or 22kW.	+ Standard Type 2 Sockets + Up to 7.7kW	+ Standard Type 2 Sockets + Pending ELEXON approval 7kW (based on Cityline 100)	+ Standard Type 2 Sockets + Up to 7.2kW	+ Standard Type 2 Sockets + 1-Phase = 3.7kW + 3 Phase = 11kW
	Management Platform	 + BP Pulse platform (D2N2): + Can work with third parties, although this is not preferred. 		+ Flexible, can offer 1 st Party or work with a 3 rd Party	+ Flexible, can offer 1 st Party or work with a 3 rd Party	+ Flexible, can offer 1 st Party or work with a 3 rd Party
	In Current Use?	+ Supplier for the Go Ultra Low (GUL) D2N4 Network including on-street taxi rank in Nottingham <u>City:</u> + Also supply Highways England, have a network of chargers throughout the UK.	+ Supplier in London TfL Go Ultra Low Framework; and + Coventry City Council	- Not currently, product pending ELEXON approval expected Q1 2021.	Examples of EV products in use at: + Boston, Lincolnshire Borough Council (ROLEC based in Boston); + Croydon Borough Council.	+ Portsmouth City <u>Council:</u> + London, Transport for London Supplier.
	Branding Options	+ Go Ultra Low (GUL) D2N2 Network	N/A	+ Yes	+ Yes	N/A
	Other Notes	+ Existing supplier for the Go Ultra Low (GUL) D2N2 network (though NCC do not have to use this supplier).			+ Designed to be stored away when not in use.	+ This is a satellite bollard that requires a street lighting column power supply within less than 3m distance
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Fee Value	Estimated: £19,000 See above.	At Compl	etion: £19,	000		
MHA PSP3 Delivery Team	Project Manager:	Ross Paradise				
	Delivery Manager:	Daniel Godfrey				
	Framework Manager:	Jason Clarke				
Project Manager Contact Details	Daniel Go daniel.go	odfrey@aecom.com				
Other Useful Information						
Image References (Images to be provided separately)	Description & file name of any images provided n/a					
Completion Certificates (to be provided separately)	☐ Have we requested & are they available? n/a					
This information provided by:	Who: Daniel Godfre daniel.godfre	ey ey@aecom.com	When:	09/08/21		