Project ID	DIP027	DIP027			
Long Title	Electric Boulevard	Electric Boulevard			
Short Title					
Keywords	& Hybrid Vehicles; S	Small-scale; Town; Non-domestic; Electricity; Transport; Electric & Hybrid Vehicles; Smart Transport Networks; Transport System Enablers; Data Acquisition			
Location (Town, Region, Country)	Milton Keynes	Northumb	perland	England	
Latitude and Longitude	52.04N		0.76W		
OSGB code	SP 84 39	SP 84 39			
Status	Complete	Complete			
Start Date	2013	2013			
End Date	2016	2016			
Description	Arup and Mitsui led a joint venture to determine the technical and commercial feasibility of decarbonising an existing public transport route around Milton Keynes with the introduction of a number of pure electric buses.				
	The conventional diesel powered buses servicing this route were entirely replaced by an electric bus fleet developed by Wright Bus and operated by Arriva. This is the first scheme in the UK to replace an existing fleet with electric multi-passenger vehicles. It is also the first scheme in the UK to use opportunistic wireless charging at a number of bus stops around the route to supply power to the vehicles.				
	This project has facilitated decarbonisation of the transport system by developing a standard connection policy for Inductive Power Transfer (IPT) chargers. Through monitoring of the HV and LV network before and after installation, the level of disturbance was assessed and quantified against existing limits. Furthermore, by trialling a number of connection arrangements and comparing traditional reinforcement methods with innovative techniques, the most appropriate scheme could be developed.				
Sectors	Transport	Transport			
Funding Sources	Low Carbon Networ	Low Carbon Network Fund			
Budget £	£492,000	£492,000			
Partners	Chargemaster, Cond	Western Power Distribution, Arriva, Arup, Cambridge University, Chargemaster, Conductix-Wampfler, Milton Keynes Council, Mitsui, SSE, TRL, Wright Bus			
Energy vectors		Electricity, Transport			
Scale (lab/site/small /community/region/national)	Small	Small			
Technologies demonstrated	EV charging, wireles	EV charging, wireless charging, network data acquisition			

Demonstrator Proforma Version 1 3/5/18

Economic models demonstrated		
Other concepts demonstrated	Grid constraint mitigation	
Industry engagement		
Consumer engagement		
Project Reports (incl. links)	https://www.westernpower.co.uk/docs/Innovation/Closed- projects/Electric-Boulevards/Electric-Boulevards-Closedown- Report-FINAL-v2.aspx	
Datasets (incl. links)		
Website/social media	https://www.westernpower.co.uk/Innovation/Projects/Closed- Projects/Electric-Boulevards.aspx	
Information sources	http://www.smarternetworks.org/project/nia wpd 001	