Project ID	DIP042	DIPO42				
Long Title	Fusion	Fusion				
Short Title						
Keywords	Integra Manag	Region; Multi-sector/Grid; Electricity; Power Quality & Grid Integration; Smart Grids; Demand Response; Active Network Management; Stakeholder Engagement & Behaviour Change; Energy Strategy Development; Alternative Suppliers & Tariffs				
Location (Town, Region, Country)	(North	-East)	Fife		Scotland	
Latitude and Longitude	56.38N		2.94W			
OSGB code	NO 42	NO 42 21				
Status	Ongoir	Ongoing				
Start Date	2018	2018				
End Date	2023	2023				
Description	Netwo collabo	SP Energy Networks are working closely with the Energy Networks Association (ENA) on the Open Networks Project. This collaborative work will accelerate our transition to a Distribution System Operator.				
	be enabling Distribution Network Operators and all market actors to unlock the value of local network flexibility. FUSION will create a flexibility market to unlock the value of flexibility in a competitive and transparent manner. This will be enabled by applying the functions and structure defined in the Universal Smart Energy Framework (USEF). • FUSION will unlock flexibility in the distribution network: this means it can be procured by a range of market actors. Aggregators will be able to operate to aid the development of the flexibility market. By					
	•	 facilitating this neutral market, network flexibility will be accessible to all parties. For the Distribution Network Operators, constraint management will be trialled, alleviating localised network congestion without requiring costly and time consuming network reinforcement. This will provide excellent value for money for customers. The creation of a flexibility market will go beyond existing bilateral trading of flexibility, providing a whole systems approach to realising the value of flexibility. Customers will also be empowered to commoditise their flexibility use of electricity, providing a new route to market for existing and emerging flexibility providers in the distribution network. Through smarter use of the distribution network assets in this approach, significant carbon and environmental benefits. This is from system benefits, favouring 				

	renewable energy sources in a flexible network, and by		
	facilitating the uptake of low carbon technologies.		
Sectors	Multi-sector/Grid		
Funding Sources	Network Innovation Competition		
Budget £	£7.1 million		
Partners	SP Energy Networks, DNV GL, Origami Energy, PassivSystems, Imperial College, SAC Consulting, Fife Council, University of St Andrews, Bright Green Hydrogen		
Energy vectors	Electricity		
Scale (lab/small/community/region/national)	Region		
Technologies demonstrated	Active network management		
Economic models demonstrated	Virtual power plant/market aggregation, consumer behaviour change incentives, grid services		
Other concepts demonstrated	Demand response, grid constraint mitigation		
Industry engagement			
Consumer engagement			
Project Reports (incl. links)			
Datasets (incl. links)			
Website/social media	https://www.spenergynetworks.co.uk/pages/fusion.aspx		
Information sources	http://www.smarternetworks.org/project/spden01		