



### BEIS Flexibility Markets Feasibility Study Competition – Summary Project Details

- Feasibility studies;
- 5 projects;
- Total value of grants awarded: £0.24m

Lead Company	Partners	Project Title	Brief Project Description	Grant Award
Pixie Energy	Ipswich Borough Council; Suffolk County Council	Local Supply Communities	The feasibility study will develop proposals for the 'Ipswich Local Supply Community Project' which will explore mechanisms to exploit bottom-up flexibility, creating new local partnerships seeking to promote and commoditise flexibility. It will model local production and demand, and test feasibility of commercial innovations based on specific assets, using generation metering data and representative consumption data. It will analyse how emerging demand-side techniques and programmed market initiatives, including the introduction of half hourly settlement (HHS) and fully marginal imbalance pricing, can enhance flexibility and support local system resilience.	£58,500
Carbon Coop	Regen; Scottish Community Energy	Energy Community Services Aggregator (ESAC)	The feasibility study is intended to: <ul style="list-style-type: none"> <li>• Describe and assess the potential business opportunity for community aggregator flexibility provider, both in terms of DNO income streams and provision of services to domestic and non-domestic end users;</li> <li>• Develop a model to estimate the value of different kinds of potential domestic flexibility to DSOs and the SO in different parts of the UK;</li> <li>• Specify a Technical Aggregator Platform (TAP) for the system and assess the development, material, operational and other costs for this system to function for a range of potential flexibility assets;</li> <li>• Examine the regulatory requirements and legal barriers for the provision of community aggregator services;</li> <li>• Outline a local demonstrator project that would take the results of the feasibility study from drawing board to market.</li> </ul>	£58,342
8lectric Limited	N/A	Flexible 8lectric	This feasibility study will develop 8lectric's proposal for "connecting low carbon prosumers". 8lectric® are seeking to simplify the currently complex electricity value chain and provide the end users with more control over how their electricity is produced and consumed. The innovative decentralised technology and commercial model being developed as part of project "flexible 8lectric®" will simplify price discovery and digitise prosumer-to-prosumer and	£19,931



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			prosumer-to-grid transactions, where all participants will be able to openly access a competitive digital platform and monetise their flexibility.	
Levelise Ltd	N/A	Accelerate Home Energy Aggregation Development	The Accelerate Home Energy Aggregation Development (AHEAD) project will explore the ability of residential batteries not only to provide demand response services interacting as virtual communities with system operators and energy stakeholders, but also to trade among themselves operating in a localised flexible market where each battery acts as a blockchain node. All with the aim of accelerating the transition towards customer-led energy systems where battery-only prosumers can have a sustainable role, to increase the penetration of intermittent renewables and to improve efficiency system-wide.	£40,851
Forest Lawns Ltd, trading as Empowered  (p2ppower.co.uk)	N/A	Empowered	<p>The Empowered project aims to explore the feasibility from a technical, regulatory and economic perspective of enabling participants in the UK electricity sector to have the ability to interact directly with each other and the energy market through the creation of local or regional peer-to-peer networks. The Empowered project proposes to enable both businesses and households to engage in this way. "Empowered" is one of only 3 successful innovation ideas to be granted a sandbox derogation by Ofgem in its first sandbox process. This enables it to potentially trial this regulatory innovation. The Project will involve the development of sophisticated models that simulate the operation of increasingly de-centralised local electricity markets incorporating new sources of generation storage and supply and at the same time far greater levels of consumer/producer interaction. In doing so it will be able to:</p> <ul style="list-style-type: none"><li>• quantify the likely impact on prices, demand and consumer behaviour;</li><li>• identify potential changes required to the current regulatory framework to enable these new technologies to access the market and allow for the higher levels of customer participation; and</li><li>• provide the underpinnings for the development of an actual trading platform to facilitate this new market environment.</li></ul>	£60,000