Innovate UK

Results of Competition: Integrated Supply Chains for Energy Systems
Competition Code: 1510_CRD1_ENRG_ESSCS

Total available funding for this competition was £8.1M from Innovate UK

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
ICAX Ltd London South Bank University Star Refrigeration Ltd Upside Energy Ltd Mixergy Ltd Origen Power Ltd Cranfield University Greater London Authority Winckworth Sherwood LLP Terra Firma Ground Investigation Ltd Singleton Birch Ltd Interface Europe Ltd	Balanced Energy Networks	£3,994,617	£2,915,904

Project description - provided by applicants
The Balanced Energy Networks project will deliver both a physical and digital network to integrate systems that will enable the balancing of heating, cooling, electricity, and carbon, in a way that minimises costs.Addressing the energy trilemma - delivering security of supply, at low cost, and with low carbon emissions - is a key requirement for achieving a sustainable and prosperous economy. The Balanced Energy Networks project will build a working demonstration of the integrated system at London South Bank University (LSBU). This will involve the construction of an inter-seasonal thermal storage system to balance the production of heating and cooling throughout the year. It will also create a bi-directional network to balance electricity supply and demand. Attached to these physical and information and control networks will be a range of innovative technologies including one which can both generate electricity and remove carbon dioxide from the air, allowing the overall system to be carbon neutral.

Note: you can see all Innovate UK-funded projects here
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Siemens PLC Blueprint Limited Partnership A.T. Kearney Ltd URBED (Urbanism Environment and Design Ltd) Stickyworld Ltd Smartklub Ltd Solar Ready Ltd University of Nottingham Loughborough University Slamjam Ltd	Project Notch	£4,987,638	£3,352,451

Project description - provided by applicants
Project Notch looks to accelerate the adoption of Community Energy Systems (CES). CES is a different way ofgenerating and supplying heat and electricity to homes and commercial buildings - locally produced energy isused locally with minimal or no use of the national grid. The benefits are reduced cost and more efficient use ofdistributed renewables to reduce the overall carbon emissions from the energy system. Most of the necessarytechnologies are available but they are too expensive for consumers to invest in themselves and the businessmodel is not in place that shows companies how they will make a return, so they dont invest. Project Notchstarts with a blank sheet of paper: a new housing development in Nottingham's Trent Basin. It brings togetherall the companies involved in the energy supply chain with the potential buyers of up to 120 homes on site.Involving heat and electricity the aim is to operate independent of the gas and electric grids. Using novelconsumer engagement tools and a focus on business model development the consortium will develop and testbusiness model templates that could be used by any developers of large scale housing projects.

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Intelligent Maintenance Systems Ltd Tesco Stores Ltd University of Lincoln The Grimsby Institute (GIFHE)	The development of dynamic energy control mechanisms for food retailing refrigeration systems	£5,282,219	£3,541,748
Project description - provided by applicants			
The National Grid is operating under a very narrow generating margin of 5%. Network distributioninfrastructure is aging and expensive to replace. The Grid is being challenged by an ever increasing input ofrenewable generation systems which do not provide a consistent load. To stablise the Grid it is now a strategicpriority to develop markets which help the Grid control demand as well as supply, so called demand sideresponses (DSR). However, large scale demonstration projects are required to establish industry interest andconfidence in DSR mechanisms. In this demonstration we will develop and deliver systems which can enablefood retailing refrigeration systems to be linked to DSR tariffs. This is a challenging project as food retailers aretypically operating massive networks of machines distributed throuhgout the UK. Any changes to refrigeratoroperational perfromance must also be conducted without infringing or jeopardising food safety. However, safedelivery of DSR to food refrigeration systems could have significant impact. The cold chain in the UK is currentlythought to consume 14% of all electricity generated.			

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