Innovate UK

Results of Competition: Integrated by Design
Competition Code: 1510_FS_URBL_INTDES

Total available funding for this competition was £800K 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
London Underground Ltd London South Bank University London Borough of Islington	Metropolitan Integrated Cooling and Heating (MICAH)	£75,522	£50,806
Project description - provided by applicants			
This study will look to determine the feasibility of transferring waste heat from London Underground toIslington Borough Council's district heating network.As part of an upgrade to the network, additional heat will be produced by the increase in train frequency. Tomitigate the rise in heat and reduce the risk or heat strain to passengers, a new cooling system is to beinstalled.An opportunity has been identified to utilise the heat exchanger at York Road to support the expansion ofIslington Borough Council's district heating network.The feasibility study will investigate the technical viability and business case of utilising London Underground'sheat exchanger at York Road to transfer heat to Islington Borough Council's district heating network.Combining the two systems would reduce the energy required by both parties.			

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Costain Ltd Cenex (Centre of Excellence for Low Carbon and Fuel Cell Technologies)	Integrated Transport and Smart Energy Solutions for Major Urban Developments (ITSES)	£74,121	£46,981
Project description - provided by applicants			
Integrated Transport and Smart Energy Solutions for Major Urban Developments (ITSES) utilises the planneddevelopment of Old Oak Common and Park Royal, an area in West London identified by the Office for theMayor of London as in need of development. The project introduces this area to the opportunity of vehicle-to-grid (V2G) technology, a process where batteries in electric vehicles are used to store electricity and pass this toand from the grid to help support energy demand. The feasibility of integrating this technology with two urbansystems, urban energy and urban transport, is also considered. The project combines the knowledge of Costain,a major construction company investing in sustainable, innovative solutions, and Cenex, a low carbon vehiclenot-for-profit consultancy with knowledge of V2G. The project will develop the social, economic, technologicaland business case for including V2G in two rail stations planned as part of the Old Oak Common development,with the potential for inclusion of V2G across all areas should the study results prove positive.			

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London Underground Ltd Cofely Ltd Arcadis Consulting (UK) Ltd	Holborn Station Capacity Upgrade - Trigeneration Feasibility Study	£84,901	£37,451
Project description - provided by applicants			
London Underground is tasked with increasing the sustainability of its' major infrasructure projects, includingboth the construction, operation and maintenance. Continued London population and employment growthand associated increase in passenger demand necessitates continued major station capacity upgrade projects.Holborn station is LU's highest priority station capacity upgrade project and will be delivered by the mid 2020s.The project will also facilitate station platform cooling and a replacement, expanded basement level tractionsub-station to support the planned Central line upgrade increased train frequency over the next 10-15 years.Combined these two project elements will provide waste heat that would otherwise be exhausted toatmsophere, creating an unsustainable outcome for London. The Trigeneration feasibility study therefore aimsto test whether this waste heat could be harnessed to supply local third parties and to test whether there is amore holistic, decentralised means of generating cooling and power as part of the station capacity project.y			

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Northumbrian Water Ltd Newcastle City Council	Newcastle City Integration of Surface Water Management and Transport Enhancement Plans	£74,000	£48,100
Project description - provided by applicants			
Newcastle Upon Tyne is a Blue/Green Infrastructure (BGI) demonstration city. Blue/Green cities aim toreintroduce the natural water cycle into urban environments by encouraging interdisciplinary cooperationbetween city services and can achieve environmental, ecological, socio-cultural and economic benefits. Thisproject will use Blue/Green principles to integrate the Surface Water Management Plan (SWMP), which wascreated in partnership between Northumbrian Water Limited (NWL), Newcastle City Council (NCC) and theEnvironment Agency (EA), with the NCC's Transport Infrastructure Enhancement Plan (TEP). The key objectiveof this innovative approach is to increase the likelihood of the successful delivery of opportunities and benefitsidentified within the respective plans such as enhance the resilience of the transport infrastructure inNewcastle, reduce the risk of flooding and improve the health and well being of the people who utilise the city.This feasibility study will investigate the interventions identified in each plan within a robust and cost effectiveframework that considers a wider range of benefits and opportunities.			

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Fuel Cell Systems Ltd Brookfield Utilities UK No 1 Ltd University of Oxford Oxfordshire County Council Cherwell District Council	DIMES - Distributed Integrated Multi Use Energy System for urban developments	£74,992	£60,481

Project description - provided by applicants

This feasibility project investigates the techno-commercial benefits of integrating energy & waste managementinfrastructure, with clean transport within the urban area of Bicester. The project will demonstrate the addedvalue of deploying the UK's first, multi (~10) MWe fuel cell CHP system, utilising the local municipal waste,within an 'island' based electricity network & planned district heat network, as well as providing hydrogen fortransport. Led by the system integrator Fuel Cell Systems Ltd, with partners across the supply chain includingthe University of Oxford, Oxfordshire County Council, Cherwell District Council, and Brookfield Utilities, theproject will include work to determine the appropriate scale, cost, specification, energy balances, spatialconfiguration, phasing, planning requirements and societal benefits that can accrue from the use of an ultra-low emission, ultra-efficient fuel cell system, alongside the cross system benefits of creating locally generatedhydrogen and utilisation of waste gas. Success will enable the partners to develop a new, highly innovativebusiness model for an ESCo to revolutionise the long term energy supply for the future urban devlopments.

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ProxiSmart Ltd Sunderland BID Ltd Sunderland City Council The Bridges Shopping Centre	ParkingPerx	£68,131	£42,376
Project description - provided by applicants			
ParkingPerx is an innovative solution that looks to help reinvigorate the fortunes of town and city centres byreducing the issues associated with car parking that act as a barrier to tradeThe premise is a currency and data exchange platform that allows Merchants the ability to pay for Consumerscar parking fees in exchange for a given level of spend within their store. Consumers receive 'Parking Credits'when they spend at participating stores and other businesses providing them with the opportunity to earnFREE car parking and incentivising them to spend locally. Merchants have a measurable way to increase footfall, dwell time and revenues and compete more effectively with internet shopping where no such parking feesexist. Owners of the car parking assets of the city (including where applicable the local authority) benefit fromimproved cashflow,increased asset life, reduced operating and enforcement costs, the PR collateral associatedwith the offer of FREE parking and a collaborative approach to location based loyalty using powerful data thatcan help to formulate long term transport, parking and business development policy			

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Innovate at PRP Ltd Podaris Ltd Siemens PLC	THETTIS: The Thamesmead Healthcare, Energy, Transport & Telecommunications Integration Study	£74,989	£45,747
Project description - provided by applicants			
This project is an exciting technical feasibility set against the emerging development in Thamesmead, SouthEast London, in the London Boroughs of Greenwich and Bexley. We propose to integrate energy generationand distribution infrastructure, healthcare services, communications infrastructure, and existing and upcomingtransport networks with a Personal Rapid Transit (PRT) system. Thamesmead today is an area faced withsignificant challenges to the community in terms of health deprivation, access to high income jobs, acharacterless town centre, disjointed open space network, poor transport links and diversity ofneighbourhoods with a lack of community cohesion. With this project we aim to explore how theimplementation of a PRT system to connect future Crossrail infrastructure to the community, and to connectthe community with healthcare, open space and a revitalised town centre, whilst providing a platform for thephysical integration of PRT with the built environment, including energy and communications infrastructure.			

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