

Innovate UK

Results of Competition: Clean and Cool 2017 follow on pilot

Competition Code: 1708_FS_INFRA_CCM

Total available funding is £500K 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
Acleron Limited	Project ELEVATOR (acELEron inVestment chAnce improvemenT prOgRam)	£24,999	£24,999
Project description - provided by applicants			
The Clean+Cool Mission to Silicon Valley raised several key improvements which could be made to ACEinvestor pitch as well as the need to follow up with some of key potential investors. This project will helpACE to address the key feedback received from the US investors, including better understanding themarket requirements, proving the performance of second life batteries in key applications, improvinginvestor materials, better crafting of the story and follow on meetings with the US Investors.			

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Arborea Ltd	Development of investment and partnership opportunity in the US	£24,950	£24,950
Project description - provided by applicants			
Arborea is a biochemical technology company that makes pioneering algae cultivation technologies to produce high-value bio products and to fix carbon dioxide. Arborea's mission is to finally unlock microalgae's full potential to combat global-warming and resource-scarcity on a massive scale thanks to its ground-breaking Carbon-Bio-Converter technology that enables industrial scale algae biomass production with especially lower operational and capital costs, unlimited scalability and higher yield compared to current algae cultivation technologies. This feasibility study is intended to give Arborea the resources to prepare for (i) a private investment and (ii) a commercial pilot deal with US based companies. Main project activities include investment proposal developments, data analysis, due diligence.			

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Bowman Power Group Limited	Feasibility study for funding and supply of next generation Electric Turbo Compounding technology to the major generator set engine manufacturers in the United States	£24,999	£24,999
Project description - provided by applicants			
Bowman Power designs, makes and sells Electric Turbo Compounding technology, which is recognised as one of the Global Top 100 Clean Technologies in the world. This project will assess the viability of funding and supplying a next generation of ETC technology to US engine manufacturers as part of driving global adoption of the technology. The engine manufacturers in the US are the largest in the world and access to this market has the potential to make a material reduction in global emissions with typically 5-7% reductions observed per engine and presents a transformational opportunity for Bowman's UK developed technology.			

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BuffaloGrid Ltd	VOLT (Validation Of Li-ion repurposing Technology) by BuffaloGrid Limited	£24,985	£24,985
Project description - provided by applicants			
<p>*Issue " Worldwide 1.2bn people lack access to the electricity grid. With IUK support, BuffaloGrid (BG) has developed a solar powered Hub providing PAYG electricity, off grid mobile phone charging and wireless internet in developing regions. BG hubs currently contains Li-ion cells spot welded together in caddies. However, battery packs connecting multiple cells without a Battery Monitoring System have very restrictive export/import requirements. Cell welding is also an expensive process, prevents reuse of battery packs extracted from EoL BuffaloGrid Hubs in other devices and prevents use of upcycled Li-ion batteries.*Solution - In this VOLT feasibility project , BuffaloGrid will investigate the feasibility of developing a battery pack that uses compression to hold Li-ion cells together and develop a prototype.*Challenges for BuffaloGrid - Due to the harsh operating environment of BuffaloGrid Hubs, developing a Caddy that uses compression is challenging.</p>			

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Cellular Agriculture Ltd	A roadmap to Solution: Cultured Meat Innovation for the UK.	£24,999	£24,999
Project description - provided by applicants			
Cellular Agriculture Ltd seeks to be the science-led global leader in cultured meat production. Following the hugely successful Clean and Cool Mission we aim to capitalise on the momentum created by engaging with potential partners and funders. This project seeks to deliver both on technical development of a cultured meat concept-product, the wider development of the business model, and to seek potential rainbow funders that will allow the business to capitalise on all market opportunities.			

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Gravitricity Limited	GRAVITRICITY Ltd: Market Analysis and Consortium Development	£24,999	£24,999
Project description - provided by applicants			
Gravitricity Ltd is an energy storage technology company based in Edinburgh. The Company is developing an innovative mechanical energy storage technology for grid-scale electricity storage. This project, consisting of follow-up work after the June 2017 Clean&Cool Mission, will enable Gravitricity to make progress in three core areas of commercial strategy:- Market Analysis and Assessment (including data and evidence for the Business Plan that will be used for Seed Funding raise in late 2017.)- Industrial Consortium Building, primarily via one trip to continental Europe.- North American Partner identification and meetings, primarily via one trip to the USA.			

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Green Fuels Ltd	Exponential growth opportunities for waste derived biofuels in developed and developing markets.	£24,995	£24,995
Project description - provided by applicants			
Understanding and developing opportunities for waste-derived biofuels in developed and developing markets.			

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Hexigone Inhibitors Limited	Hexigone Inhibitors USA Market Feasibility Study	£24,999	£24,999
Project description - provided by applicants			
Hexigone Inhibitors Ltd is a spin-out company from Swansea University. It was created to commercialise a high-performance, smart-release, corrosion protection technology that was developed to replace highly toxic chemicals that are currently widely used. The purpose of this project is to develop global business opportunities that will allow Hexigone to enter new geographical and sectoral markets resulting in UK exports, job creation and economic growth.			

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H2GO Power Ltd	Assessment study of H2GO Power's market entry opportunities in the US	£24,999	£24,999
Project description - provided by applicants			
<p>The objective of this project is to develop a growth strategy plan including a techno-economic study for H2GO Power's entry into the US energy storage market. The later will inform decisions on strategic collaborative projects in the US with local partners stemming from the Clean + Cool mission to Silicon Valley 2017. It is anticipated that this project will facilitate building the business case for our high performance hydrogen storage technology for aerial robotics and low-cost large scale energy storage fields, in the US market. This will include a detailed costing and technical evaluation for upscaling the system from kW to MW scale and enable realistic positioning of the technology into large-scale energy applications in their respective market segments. Additionally, a horizon scanning activity will monitor the key performance metrics achieved in this project and how this maps onto niche application areas. Therefore, well-evaluated operations can start within 18 months after the project.</p>			

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Kelda Showers Limited	The World's Most Efficient Shower Evaluating Market Entry into Water Scarce US States	£24,500	£24,500
Project description - provided by applicants			
Kelda Technology has reinvented the domestic and commercial shower, with a revolutionary showersystem that halves water use, without compromising user experience. The shower system is protected by a global layer of patents and the company has won awards for innovation in the water sector. This project aims to evaluate the opportunities for entering the North American market, including marketmapping, competitive analysis, regulation and compliance and prototype development.			

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Meteor Power Limited	Meteor Power - Business Development, Investment Readiness & Market Analysis	£24,999	£24,999
Project description - provided by applicants			
Meteor Power is looking for help to secure expert guidance in preparing investment documentation, identifying potential investors, travelling to San Francisco to meet potential partners willing to trial our products and expertise to support in writing EU grant funding applications. We are also seeking support to give us time to solve a number of manufacturing challenges that have so far kept us from bringing our first prototypes to market. This help will move the whole company forward and make significant inroads in to all the major areas that have been holding us back.			

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Rotaheat Limited	North America market entry study	£24,999	£24,999
Project description - provided by applicants			
Rotaheat has developed a novel technology to convert mechanical rotational energy direct to clean thermal energy in the form of heated fluids at in excess of 120C. Uniquely, the technology generates valuable heat without any greenhouse gas emissions, capable of increased supply during the coldest and darkest seasons and at a cost comparable to the price of gas. Key milestones have been secured to support the commercialisation of the technology including granting of multiple patents, first UK customer revenues and the development of a sales pipeline. This study supported by Innovate UK has the objective of assessing the business growth potential associated with Rotaheat entering the North American market, one of the major global markets for heat and accounting for significant carbon emissions.			

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SEaB Energy Ltd	US market expansion through local division and service partnerships	£24,782	£24,782
Project description - provided by applicants			
<p>SEaB Energy is the inventor and developer of small-scale waste-to-energy appliances. The award-winning and patented FLEXIBUSTER and MUCKBUSTER allow sites to process their own waste on-site and convert it into carbon-free electricity and heat, helping them to adhere to renewable objectives while reducing the need for diesel-consuming waste transportation and grid reliability. The systems are factory-assembled and housed in standard shipping containers, enabling quick and low-cost delivery and easy installation. SEaB Energy CEO Sandra Sassow took part in the 2017 Clean and Cool mission to San Francisco. Since then, the company has experienced steep acceleration in interest from the US. Under the proposed feasibility study, SEaB Energy aims to further explore the opportunities that arose during the mission, and further increase their activity on US soil by setting up a local division with partnerships for US-based manufacturing and maintenance support.</p>			

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Senergy Innovations Limited	Senergy Solar Thermal Panels	£24,999	£24,999
Project description - provided by applicants			
<p>Senergy are developing an all polymer solar thermal panel that will integrate easily with the physical and the digital architecture of buildings to deliver reliable, affordable and carbon emission free solar waterheating and cooling. The Senergy panels capitalise on the strength and thermal conductivity of nanocarbon particles to reinforce polymer materials that have previously been too weak for thermal panel production and bring to market a robust and durable polymer solar thermal collection system that can be manufactured and installed at a 50% lower cost than existing metallic solar collectors. The Senergy panels also offer lightweight and aesthetic benefits that give the architect much more flexibility with design. In addition, the panels are embedded with low cost sensor and information technologies providing artificial intelligence for a more efficient and reliable energy supply. These technical advantages address the challenges that have hindered the roll out of this form of renewable energy and presents the opportunity for pervasive adaption of solar water and space heating and cooling in the global built environment.</p>			

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SOMI Trailers Limited	SOMI Trailers- Huge potential for growth in North American Market	£24,990	£24,990
Project description - provided by applicants			
Awaiting Public Project Summary			

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Stickyworld Limited	Stickyworld Pilot Drive	£24,930	£24,930
Project description - provided by applicants			
<p>Through the Clean and Cool programme, Stickyworld Ltd has uncovered opportunities across the sustainability and environmental sectors for deployment of its highly visual crowdsourcing technology. It has identified the need to develop a strategy to reach and engage with large target organisations, and improve and contextualise its demonstration material for potential buyers in a range of roles. Stickyworld aims to develop its business model, pricing and demonstrable RoI for these organisations demonstrating the value of crowdsourced ideas, knowledge and feedback from invited internal or external stakeholders when developing new products, services, processes or environments. Through the activity of the Pilot Drive project, the Stickyworld will work with a specialist SF based SaaS consultant to refine its value proposition and RoI for the larger organisations working in and around innovation, sustainability and environment. It will prepare new demonstrator material that supports this improved proposition and will begin to engage several large organisations operating across both UK/US locations with a view to developing paid pilots in 2018.</p>			

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Tevva Motors Limited	Truck Energy, Power and distance modelling suite for product development and marketing	£24,958	£24,958
Project description - provided by applicants			
Tevva will deliver modelling software that at a glance, can provide requirements specifications to Engineering and development teams, but that can also be used by Sales and Marketing to demonstrate to customers the performance profile of their fleets when they adopt the Tevva Electric Range Extended Technology. Allowing them to tailor their choices of battery pack size and range extender capability when purchasing. This configurability will ensure customers can purchase vehicles that meet their requirements without spending thousands of pounds on battery packs they can utilise to the full and range extenders that are over capacity. This all adds up to Tevva offering products at a lower total cost of ownership that still delivers the capabilities needed by a modern, environmentally conscious fleet.			

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Topolytics Ltd	Defining and exploiting a new business model	£24,887	£24,887
Project description - provided by applicants			
Topolytics is a waste analytics company. It makes data on commercial and industrial waste visible, verifiable and valuable through state of the art mapping and analytics. Building on the Clean & Cool Mission, this project aims to assess the feasibility of and codify a new business model that supports the aim of exposing high quality granular data on industrial and commercial waste. It also enables the company to exploit the model and build its market presence in the smart waste sector.			

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Zyba Limited	Ecological Coastal Protection that Generates Electricity	£24,999	£24,999
Project description - provided by applicants			
Zyba and Biorock are partnering to provide the world's first eco-based coastal protection that is powered by wave energy while enhancing the ecosystem with new coral reefs. Zyba's core technology is a curved paddle (called "CCell") that both harnesses and dampens the energy within ocean waves to generate electricity. BioRock is an electrolytic technique used to grow artificial reefs that provide long-term coastal protection and a foundation on which corals grow at an accelerated rate. This project encompasses three main work packages involving market research, business and financial model refinement and the development of marketing and public relations strategies. Zyba will be working with a range of professional agencies to undertake this work, including consultation with customers both in the UK and abroad.			

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