

Innovate UK

Results of Competition: Cleaner, more efficient conventional fuels CRD

Competition Code: 1503_CRD2_ENRG_CF

Total available funding for this competition was £5M from Innovate UK and NERC

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
Innovative Technology and Science Ltd Brunel University Plant Integrity Ltd Cedar Metals Ltd Jackweld Ltd	High Temperature Inspection & Cleaning by Advanced Ultrasonics for Effective Maintenance and Management of Oil&Gas Offshore Production subsea & topside operating pipelines and vessels (HiTClean)	£1,304,411	£1,020,081
Project description - provided by applicants			
HiTClean addresses a number of related safety critical, security of energy supply, production economic and maintenance challenges in the life cycle of Oil&Gas offshore production installations (e.g. platforms and FPSOs) subsea assets including pipelines and production pressure components. The project will develop novel guided wave ultrasonic technology for subsea pipelines to be deployed by diver or a Remote Operating Vehicle (ROV): (A) Condition Monitoring (CM) for the early detection of in-service defects, e.g. corrosion - using Long Range Guided Wave Ultrasonic (LR-GWU) Pulse Echo (PE) technology, Teletest Focus electronic instrument, encircling ultrasonic sensors and signal processing for the on-line (in-production) innovative inspection of subsea pipes carrying hydrocarbons, (B) Innovative High Power - Continuous Wave (CW) LR-GWU electronic instrument and transmitters to dislodge and remove accumulated debris fouling in subsea & topside pipelines at temperatures of up to 400°C, (C) for pipe regions susceptible to fouling - innovative Moderate Power CW LR-GWU electronic instrumentation and transmitters for fouling prevention in subsea pipelines at temperatures of up to 400°C.			

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Greenbank Terotech Ltd University of Nottingham Drax Power Ltd Argenta Ltd	Intelligent Flow Control System	£537,036	£356,709
Project description - provided by applicants			
A collaborative project led by Greenbank Group (GB) will develop an Integrated Flow Control System (IFCS) for Coal Fired Power Stations (CFPS) which is fully automated & adjusts to suit modulation in flow performance of mill, fuel types, quality, wear & load, providing flow feedback allowing burners to achieve optimum stoichiometric conditions thereby increasing efficiency & reducing emissions. The Objective of this project is to build & integrate a prototype system at DRAX, the largest CFPS in the UK to verify efficiency & effectiveness through long term testing. GB consortium partners DRAX (DX), University of Nottingham (UoN) & Argenta Consulting (AGC) will address challenges in developing IFCS. A successful project will help create major business & employment opportunities for the UK. This will address carbon abatement ' increasing efficiency & flexibility within UK CFPS.			

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Silicon Microgravity Ltd University of Cambridge BP PLC	Improving reservoir management	£1,000,110	£706,255
Project description - provided by applicants			
Awaiting Public Project Summary			

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Island Gas Ltd Landfill Systems Maintenance Ltd	Enhanced onshore oil recovery through novel combine heat and power stirling technology	£361,518	£191,963
Project description - provided by applicants			
Island Gas Ltd (IGas) and Landfill Systems Maintenance Ltd (LSL) have developed a novel process to generate heat & power at onshore conventional oil wellsites. The process utilises low volume gas flows common to UK onshore extraction sites to power a novel combined heat and power (CHP) stirling engine. This will eliminate need for grid electricity for pumping oil, with the heat used to separate oil & water at the wellhead (currently transported, collated and de-watered at remote processing centres). Gas utilisation will reduce back pressure at the well bore allowing for increased flow rates, enhancing production and extending reservoir life. This low cost enhanced oil recovery process provides timely benefits for the operator and the environment in reducing methane gas vented to atmosphere. Technology integration and validation will be carried out at IGas's Scampton wellsite, with engine modifications and monitoring being undertaken by specialist gas extraction and management firm, LSL. Demonstration of the system is scheduled 2016 with commercial deployment likely to commence end-2017.			

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Plant Integrity Ltd Cambridge Design Partnership LLP J+S Ltd The Micha Design Company Ltd	iWave	£1,043,664	£558,355
Project description - provided by applicants			
<p>Corrosion in pipelines costs the Oil & Gas sector millions of pounds in clean-up, maintenance and litigation. Guided Wave systems are used to conduct long range inspections of pipelines to detect corrosion remotely, particularly in inaccessible areas. There is a requirement from the industry to monitor the health of pipeline infrastructure and a trend towards ascertaining holistic coverage whilst increasing the probability of detection. In order to achieve this, a new generation of Guided Wave monitoring systems needs to be created. Previous generations of Guided Wave systems are inspection orientated, with the need for service engineers making scheduled inspections and manually assessing the data. This collaborative R&D project aims to develop a modularised Guided Wave monitoring sub assembly part containing on-board power and communications, which could be synchronised to produce a distributed monitoring network. This would provide more frequent information regarding the health of the infrastructure and flag up incipient corrosion and the appropriate locations for further targeted labour-intensive inspection.</p>			

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Underwater Cutting Solutions Ltd TWI Ltd Aleron Subsea Ltd McDermott Marine Construction Ltd	SubSeaLase – Underwater laser cutting for high-speed and lower cost decommissioning of off-shore structures	£1,444,551	£1,062,326
Project description - provided by applicants			
<p>Oil & Gas UK forecasts the market value of decommissioning the North Sea to be ~£30Bn by 2040. Approximately £1.8Bn of this is related directly to subsea cutting activities, with Main Operators requiring cutting technologies which are flexible, fast, reliable, deployable remotely and safe. As such, there is an industrial need and market opportunity for a significantly quicker approach to lower cost decommissioning in deep and hazardous waters than existing solutions. The SubSeaLase project will address this need by developing and demonstrating a novel underwater laser cutting system which can be initially used for cutting industrial relevant structures at depths up to 100m. The system will consist of an underwater laser cutting head, with the laser source and gas compressor remaining topside, deployed on a modified ROV. We expect our approach to be 4 times faster than conventional cutting approaches; significantly reducing deployment costs and increasing the competitiveness of the UK decommissioning supply-chain.</p>			

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Progressive Energy Ltd MOL Energy UK Ltd	VICTOR:Valorising Industrial Carbon Through Oil Recovery	£665,504	£374,358
Project description - provided by applicants			
The project involves advancing innovative CO2 capture technology on a steel works and CO2 storage in association with CO2-EOR in an offshore oil field and linking them to form a viable full chain CCS demonstration Project. The objectives are to reduce CCS costs by developing further and commercialising a low cost CO2 capture option, which was shown to be feasible in a previous TSB study, to decarbonise carbon intensive works arising gases from steel works. developing a process configuration for clean power generation from works arising gases which has the flexibility to remain viable if the steel works is non-operational or closes, overcoming the challenging counterparty risk associated with financing industrial capture. establish an oil field storage option funded by the production of otherwise unrecoverable oil (CO2-EOR) and integrate these innovations into a viable, full chain, 'exemplar' CCS demonstration Project			

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