PEP	Project Title	Organisation	Category	Description	SEAI commitment
				The proposed research seeks to enhance data associated with site-specific rock properties and related	
				parameters used to size heat-collector's. The aim is to increase the number of installations of ground	
				source heat pumps in Ireland and ensure high standards across the sector. GeoServ Ltd. will lead this	
				research in collaboration with the Geological Survey of Ireland, Fastnet Analytical, Roadstone and	
	Methods for Improved Collector			Wall's Well Drilling. The project follows on from SEAI funded research in 2014 and 2015 that aimed to	
	Design/Completion - Irish Ground			improve the understanding of mapped and shallow geothermal resources in Ireland, the outputs of	
109	Thermal Properties (IGTP-3)	Terra GeoServ Ltd.	Geothermal	which are available through IGTP website www.irishgroundtherm.com.	€39,800.8
				This project aims to generate new industry-relevant knowledge and guidance on Lifecycle Analysis LCA	
				and sustainability criteria of local bioenergy supply chains in Ireland. The analysis will support the	
				development of a more comprehensive investigation by SEAI on the sustainability of bioenergy, which	
	Enabling the Bioenergy Sector to			will inform development of the Renewable Heat Incentive RHI. The project will develop in-depth,	
	Understand and Assess Life Cycle		Renewable	comprehensive case studies of relevance to the bioenergy sector. In addition, this project will support	
111	Sustainability	Irbea	Heat	the implementation of the Clean Energy Package.	€27,922
				This project will support the development of the bioenergy sector in Ireland addressing a key barrier, in	
				terms of moving through planning, consistently highlighted as an impediment to the sector. This	
				research intends to address a number of areas relating to the town planning implications associated	
	Planning Guidance			with the development of bioenergy developments in Ireland. The project team will develop planning	
	Recommendations for the Bio		Renewable	guidance recommendations following an assessment of third party planning objections lodged against	
112	Energy sector in Ireland	Irbea	Heat	proposed bioenergy schemes in urban and rural contexts to understand the key issues and obstacles.	€26,487.16
				This project aims to create a CO2 emissions and energy baseline inventory at greater resolution than	
				what is currently available for the Dublin Region, disaggregated into four Local Authority areas. The	
	Creating and Harmonising Energy			work will complement the national inventories produced by the EPA. CODEMA will share the	
	and Co2 Baselines for the			methodology with other Local Authorities to ensure consistency across future regional emissions	
	Development of LA's Climate	Dublin Energy	Climate	inventories. This work will support the National Mitigation Plan and the development of policies and	
114	Change Mitigation Action Plans	Agency - CODEMA	Change	measures at a Local Authority scale.	€37,483
				The project aims to deliver an open-source, performance assessment tool to address the climatic	
				cooling potential of natural ventilation systems in Ireland. The project builds on a previous CIT	
	National Building Energy Retrofit		Energy	research, which developed a low energy testbed building in 2012. The proposed SEAI RD&D project will	
116	Testbed NBERT Research Portal	CIT	Efficiency	provide a platform for the next phase of the testbed initiative at CIT and will build on participation in	€38,615.3

122	MasterPlan	Council SDCC	Planning	project team will develop an Energy Masterplan for Grange Castle Business Park by South Dublin	€24,920
	Grange Castle Business Park Energy	South Dublin Co.	Energy	This innovative project will establish a 'living laboratory' energy zone in South Dublin County. The	
120	stakeholder types	not-for-profit	Heat	well as broader sustainability, circular economy, waste management and rural development objectives.	€46,353
	biomass involving multiple	tcbb-RESOURCE	Renewable	energy. The project will contribute to Ireland's renewable energy and climate change obligations as	
	energy recovery from residual			given locality and that deploys shared (or public) processing infrastructure to recover renewable	
	model underpinning distributed			community-based model that can aggregate and mobilise supply of a range of feedstock's within a	
	and community based business			energy production technology focusing on AD and pyrolysis. The analysis will focus on the design of a	
	ReBioGen - Development of policy			development, facilitating aggregation and mobilisation of feedstock together with deployment of	
				the sustainable exploitation of these residues through an integrated approach to supply chain	
				The project is a collaboration between tcbb-Resource, CKEA, Tipp. Co and TEA. The team will consider	
				Ireland's agri-food, marine, forestry and municipal waste residues for recovery of renewable energy.	
				The project aims to develop a viable business model supporting the mobilisation and exploitation of	
118	Start-up NECS	IT-Sligo	Community	participation in other SEAI programmes such as SEC.	€58,653.44
	Northwest Energy Communities			develop a road map to 2025. The data and information gathered as part of this project will facilitate	
				6 communities within the region of Co. Donegal, Sligo & Leitrim, survey their energy demand and	
				community scale in line with the ambitions of the Energy White Paper. It will establish a study group of	
				The project aims to support the transition from passive consumer to energy citizen on a targeted	
117	use in Dairy production DSSED	CIT	Efficiency	application of the sensor networks and disseminating the tool.	€48,773.5
	Decision Support System for Energy		Energy	collaborating with the project in terms of using its commercial farm network as a test-bed for the	
				application of best practice guidelines in energy utilisation on Irish dairy farms. Teagasc are	
				decision-support tool through an on-line open-source web app, which will result in the immediate	
				production systems and for increasing renewable generation. Farm managers will be able to access the	
				inform farm managers of optimal operation strategies to reduce energy consumption for on-farm milk	
				outputs will inform government policy in relation to energy utilisation in dairy production. It will also	
				quota's while maintaining strong sustainability credentials of the Irish dairy industry. The project	
				is particularly pertinent given national targets to increase milk production with the abolition of milk	
				This project aims to develop a decision support system for optimal energy use in dairy production. This	
				ventilated cooling potential assessment, within an Irish context.	
				knowledge gap surrounding overheating risk in low energy buildings and will be the first source of	
				IEA- EBC Annex 62 on Ventilated Cooling - http://ow.ly/xBVW30dgFg3 . The project will help bridge the	

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				County Council. The work aims to explore the existing and future energy profile of the Business Park	
				and investigate opportunities for on-site low carbon and renewable energy responses, including waste	
				heat recovery and utilisation. There is high demonstration value and replicability in this project.	
				This project looks to explore the potential of blockchain technology in the energy sector. The project	
				team will develop and evaluate a proof-of-concept solution to evaluate the viability of using blockchain	
				technology to support the promotion of renewable energy usage and the independent verification of	
124	Smartblocks	CIT	Smartgrid	energy transactions (usage, renewable penetration) between prosumers and consumers.	€99,200.64
				This project aims to develop a consistent framework and tool for use by communities and Local	
				Authority (LA) to understand their residential energy usage. This will help in identifying appropriate	
				retrofit measures to reduce energy usage in subsequent years. The output from the project will enable	
	Strategic Planning Toolkit for		Energy	more consistent and straightforward means for communities and LA's to carry out assessments and	
126	Building Energy Retrofits	xd Consulting Ltd.	Efficiency	could be used by any Sustainable Energy Community or Covenant of Mayors signatory body.	€32,673.6
				The project team aim to validate a model - funded through the EPA's research programme - developed	
				to examine the relationship between improved energy efficiency and elevated indoor radon	
				concentrations. The project team will conduct field trials to measure real-world ventilation status and	
	The Relationship between Radon			radon concentrations for selected dwellings. This data will validate the model for these selected	
	and Ventilation in Retrofit			dwellings. Given the potential interaction of radon levels and energy efficiency retrofits, this is an	
	Buildings: Experimental Validation			important project. Full validation and parameterisation of the model is essential for it to provide	
128	of Model Predictions	NUI Galway	Radon	meaningful information.	€55,065.44
				The project intends to segment national energy consumers drawing upon European best practice. The	
				project will validate the most effective behavioural models to encourage action across the segments to	
				accelerate the uptake of renewable energy practices in Ireland. The methodology primarily employs	
				social marketing tools to achieve specific behavioural goals. The results will provide useful insights for	
	Segmentation of the energy			SEAI communications, delivery of grant programmes and inform behavioural interventions which will	
129	consumer market in Ireland	Interactions Ltd.	Behaviour	be examined in more detail by the Behavioural Economics Unit in SEAI.	€23,827
				This project will investigate the impact of local obstacles on the energy performance of 3 existing large	
	Obstacle impact analysis on large			scale wind auto-producers at separate semi-urban locations, based on the analysis of multi-annual 10-	
	scale wind auto producers in peri-			minute SCADA data sets. The project aims to inform appropriate building set back distances for energy	
	urban locations, based on multi-			maximisation, which will benefit planning guidelines regarding setback distance justification. The	
131	annual SCADA data	DkIT	Wind	outputs will be of use to IEA Wind activities such as Task 27 and 28 - http://ow.ly/2cjz30dgl3g	€32,540.62
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				Premier Green Energy (PGE) has developed an innovative continuous pyrolysis system to recover	
				energy from a wide variety of solid wastes designed to be deployed at moderate scale (1-3 MWe)	
				suitable for deployment in distributed community based sustainable energy centres. The steady state	
	PyroPower - Development of a			production of an energy rich syngas has been proven at pilot scale, however the challenge of	
	Syngas Conditioning System to			conditioning the syngas to remove impurities remains. This project, led by PGE and supported by the	
	Enable Use of Pyrolysis for Energy			Irish Research Centre for Resource Efficiency and the University of Limerick, aims to design and	
	Recovery from Biomass Wastes and	PREMIER GREEN		fabricate a syngas conditioning system, modelling and testing the process to validate performance in a	
133	Residues	ENERGY (PGE)	Biomass	gas turbine CHP unit.	€96,447.2
				The aim of this project is to explore and develop a low energy accreditation system for construction	
				professionals. Prior work conducted as part of the H2020 project "Build Upon" showed that skills failure	
	Developing a framework for a			at any level of the supply chain could significantly jeopardise large scale energy renovation in Ireland.	
	customer friendly energy efficiency			The key output of this project is expected to be the development of a customer-friendly accreditation	
	accreditation for construction	Irish Green	Energy	system allowing end-users to easily identify construction professionals who have upskilled in energy	
135	professionals	Building Council	Efficiency	renovation.	€29,750.82
				The objective of the SLURRES project is to generate data through testing to support the design of a	
				prototype filtration dewatering unit to be integrated into a process flow and business model mobilising	
				slurries for community anaerobic digestion (AD). This technology will reduce cost and improve	
		University of		environmental impact of manure management, providing farmers an incentive to make substantial	
136	SLURRES	Limerick	Biofuels	supplies available for community AD in a technically, economically and energetically viable manner.	€85,225.66
				Despite widespread public support for renewable energy, social acceptance of individual renewable	
				energy projects by stakeholders has been unsatisfactory and public preferences and economic	
				behaviour of stakeholders in relation to wind farms is poorly understood. This study, by NUI Galway,	
	An economic analysis of wind farm	National		aims to quantify externalities and better understand the welfare implications of wind farm projects as	
	externalities and public	University of		well as public attitudes and economic behaviour associated with offshore and onshore wind farms in	
	preferences for renewable energy	Ireland Galway		Ireland. Based on this study, the researchers will propose recommendations to enhance the future	
137	Ireland	(NUIG)	Community	efficacy of renewable energy provision from wind farms.	€69,657.5
				The project proposes an industry-wide study of Ireland's data-centre landscape with the aim of	
		GConn	Power -	improving information related to the sector. The project team will enhance existing data centre	
	Measuring the Sustainability of	Technologies -	Data	locations in Ireland and expanding on a recent Greenpeace report to enhance Ireland's reputation as a	
138	Ireland's Data Industry	Host in Ireland	Centres	green energy economy with data centres as a critical component of this. The project output will	€65.504.25
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154	eStore	Solo Energy	Smartgrid	distributed storage.	€43,237.60
				the primary objectives of eStore is to identify and overcome connection issues associated with	
				pump. Loads will be monitored and the effect of different battery operating regimes examined. One of	
				The selected locations include both commercial and domestic sites, with PV, a wind turbine and heat	
				involves installation of behind the meter battery storage at a number of locations on a rural network.	
				network concept. Led by Solo Energy, in partnership with DP Energy and ESB Networks, the project	
				The eStore project will demonstrate the real-world operation of Solo's distributed battery storage	
153	Renewable Solid Fuel	Dowmann Ltd.	Biomass	thinning's at 117,608 toe/year by 2030.	€22,077
	Conversion of Forest Residues into			will build on SEAI's bioenergy supply chain report that estimated the energy potential of forest	
				renewable fuel. The project lead – Dowmann Ltd, are supported by Coillte and Teagasc and this work	
				economic and supply chain feasibility of converting a large volume of waste thinning's into a valuable	
				fuel products (briquettes & pellets) from forest thinning's. The project also intends to evaluate the	
				The main objective of this project is to investigate and validate the pilot scale production of solid wood	
144	Outline Feasibility study	Agency TEA	Heat	programmes designed for the fuel poor.	€5,391.7
	Thurles Heat Demand Map and	Tipperary Energy	Renewable	show areas of fuel poverty that will allow these areas to be targeted for energy efficiency upgrade	
				This map will help inform Tipperary County Council's district heating policy. In addition, the map will	
				outline feasibility study, focusing on a pilot district heating system on one side of the town of Thurles.	
				The output of the project will be a map illustrating thermal energy demand in Thurles, as well as an	
142	Inis Oirr as a case study	NUI Galway	Community	will examine the potential for microgrid solutions for community energy projects in Ireland.	€27,001.57
	Development using the island of		Microgrid/	of potential microgrid solutions for serving the island's population of 250. The results of this case study	
	Communities in Ireland - Model			case study to develop the tool, and will provide a detailed technical and economic analysis of a number	
	Microgrids in Rural and Isolated			microgrid solutions for rural and isolated communities. Inis Oírr in the Aran Islands will be used as a	
				This project will develop a modelling tool for analysing the technical and economic feasibility of various	
141	resource analysis	DkIT	Biomass	without further drying by air or heat.	€44,835
	Biomass drying trials with wind			and bioenergy drying. The output from this process should be chip of a quality to allow direct shipment	
				stocks for the months of storage pre-chipping, and build the knowledge base of the interaction of wind	
				supplied by Coillte to their end-users. The team will determine the optimal drying orientation of wood	
				This project aims to improve the standardisation and quality assured wood chip feedstock stream	
				sector.	
				provide up-to-date and relevant information, and make recommendations on sustainability for the	

169	Recovery Project	Council	R Heat	trial.	€19,400
	Kerdiffstown Landfill Heat	Kildare County		recovering thermal energy for space heating both on and off site through implementation of a field	
				source thermal potential within the main body of waste (40m deep) and investigate the viability of	
				temperatures were identified at particular locations. This research project will assess the ground	
				site wastes at Kerdiffstown Landfill. During ongoing environmental monitoring on-site, elevated ground	
				This project, led by Kildare County Council (KCC), will research the heat recovery potential within on-	
168	Plants	Ireland	AD	publication of the finalised document.	€35,350
	Guidelines for Anaerobic Digestion	Association of		held with local authority planners for feedback and to present the draft research findings prior to	
	Recommendations for Planning	Digestion		and consultation with key stakeholders, draft guidelines will be developed. A workshop will then be	
		and Anaerobic		and develop anaerobic digestion technical guidelines for local authority planners. Through engagement	
		Cré-Composting		This research by Cré, the Composting and Anaerobic Digestion Association of Ireland, aims to research	
165	Portlaoise District Heating Project	Forestry Group	Heating	Portlaoise is viable.	€5,942
		Laois Farm	District	constitute an important next step in ascertaining whether a biomass district heating system in	
				district heating, optimising local private forest resources and engaging the public sector. This will	
				This project will provide valuable insights in terms of deploying renewable heat and more specifically	
163	Greenhouse	Board	Geothermal		€13,140
	Heating Solution for Commercial	Electrical Supply		research and development in the geothermal sector.	
	Industrial research into Geothermal			innovative project has significant policy implications and all results will be made available to further	
				feasibility study of the potential to supply a large commercial greenhouse using geothermal heat. This	
				This is a collaborative project between the ESB and Total Produce involving a technical and commercial	
157	The Micro EGG Digester	Technologies Ltd	AD	and uncooked food wastes produced in households and small food businesses.	€21,002.40
		BMS Asia Pacific		anaerobic egg digester. This Micro Egg Digester will be suitable for the disposal of >95% of all cooked	
				The objectives of this project are to complete a detailed design, build and trial of a micro-scale	
155	skills training in Ireland	Council	Efficiency	Conservation International Ltd.	€40,920
	knowledge gaps and addressing	The Heritage	Energy	ICOMOS Ireland National Scientific Committee on Energy, Sustainability and Climate Change and Carrig	
	Traditional Buildings: Assessing			other interested parties in the process. The project lead, The Heritage Council, will be supported be the	
	Deep Energy Retrofit for			country to engage specifiers, local stakeholders, building sector representatives, local authorities and	
				buildings in order to develop best practice guidance. Four seminars will also be organised around the	
				studies and literature relating to the correct design and specification of deep retrofit of traditional	
				The aim of this project is to collate and analyse the most up-to-date research, technical papers, case	

				Using SEAI's BER dataset, this project involves further developing a web-based application to increase	
				uptake of deep retrofit measures. The overall objective is to allow homeowners and estate agents to	
				access BER data for specific dwellings and access information on recommended deep retrofit measures.	
	BERWow - Deep retrofit BER			The tool will provide information on payback for investments that will inform decision-making as well	
	planning tool and mapping	IHER Energy	Energy	as ancillary benefits such as comfort and health benefits. The project aligns well with SEAI objectives on	
172	application	Services Ltd.	Efficiency	deep retrofit and improving accessibility and use of datasets held by public sector bodies.	€120,320.51