PCM

R&D PROJECTS

EPS ENVIRONMENTAL PROCESS SYSTEMS LTD

No	Project Name	Financed by	Project No	Web Link	Description	Period
1	ELATION	FP6	FP6-508404		An Ultra Efficient, Low Cost, Light Weight, Thermal Insulation Material to Improve the Energy Efficiency of Refrigeration Equipment by 30%	2004-06
2	TECHNOLOGY PROGRAMME	DTI	TP/J3504A		Mono-Cool Innovative Ventilation / Low Energy Cooling Systems	2007-09
3		TSB	Q3082A		Integrated Biomass Fuelled CHP/Cooling System	2008-09
4	HESTOR	FP7	262285		Development of Thermal Storage Application for HVAC solutions based on Phase Change Materials	2010-12
5	LINK	DEFRA	AFM 280		Integrated Thermal Energy Storage in Food Refrigeration Equipment for Energy and CO2 Emission Reduction	2011-13
6		DECC			Smart Thermal Storage Systems (STSS)	2012-13
7	SAM.SSA	FP7-ENERGY-2011-2	296006		SAM.SSA-Sugar Alcohol based Materials for Seasonal Storage Application	2012-14
8	HERB	FP7-2012-NMP-ENV-ENERGY-ICT-EeB	314283		HERB-Holistic Energy Efficiency Retrofitting of Residential Buildings	2012-16
9	NANOPCM	FP7	200056	https://www.youtube.com/watch?v=keG7XKAla1U	New Advanced iNsulatiOn Phase Change Materials	2010-12
10	RESSEEPE	FP7-2013-NMP-ENV-EeB	609377		REtrofitting Solutions and Services for the enhancement of Energy Efficiency in Public Edification	2013-14
11	THINFRAME	FP7-SME-2013	603392		High Thermal Insulating Window Frames for Energy Efficient Building	2013-14
12	Scaling up Retro Fit of National's Homes	TSB	101609		Development of a Novel Low Pressure technique for Measuring the Air Tightness of Buildings	2013-14
13		DECC	110578		Advance Heat Storage	2013-14
14	Energy Catalyst Stage 1	TSB	102242		High Temperature PCM/Brayton Cycle	2015-2017
15	Make it Lighter with Less	TSB	131821		Polymer Micro-Hollow Fibre Heat Exchanger	2015-18
16	Agri-Tech Catalyst	TSB	131897		WelChic- Welfare Enhanced Living Conditions for healthier Chickens	2015-17
17	Improving food supply chain efficiency CRD - Competition	TSB	102332		Low Grade Waste Heat Driven CHP Combined with Ejector System for Heating, Cooling and Power Generation in the Drink Supply Chain	2015-17
18	Low Emissions Vehicle Systems - IDP13 - Competition	TSB	132761		Combined Water Production Dew Point Cooling Unit for Low Carbon Vehicles	2017-2018
19	Improving food supply chain efficiency CRD - Competition	TSB	102331		EnviroSave - Environmentally Cost Saving Efficient and Hygienic Humidity and Temperature Control System for Safe Storage of Meat and Poultry Products	2015-17
20	THEMAC	Innovate UK-China	103553		Innovate Composite Smart Materials for Heating, Cooling and Humidity	2017-19
21	WaterGen	TSB	132154		Control in Buildings"	2016-2016
22	Efficient GeoTech	TSB	132744		Low-cost Efficient Ground Source Heat Pump Technology with Enhanced Heat Transfer	2017-2019
23	PV/T System (China)	Innovate UK-China	102875		A High Efficiency, Low Cost and Building Integrate-able Solar Photovoltaic/Thermal (PV/T) System for Space Heating, Hot Water and Power Supply	2017
24	TESSe2b	H2020-EeB-2015	680555		Thermal Energy Storage Systems for Energy Efficient Buildings. An integrated solution for residential building energy storage by solar and geothermal resources	2015-2019
25	VULKANO	H2020-Spire-2016	723803	http://www.vulkano-h2020.eu/	Novel integrated refurbishment solution as key path towards creating eco=friendly & competitive furnaces	2016-2020
26	Hallow Fibre HX	Innovate-UK	1318921		Polymer Mirco-Hollow Fibre Heat Exchangers	2017
27	TubeICE	H2020-SMEINST-1-2016-2017	778143		Passive Thermal Energy Storage based on PCMs for energy saving in air conditioning	2017
28	SWS-HEATING	H2020-LCE-2017-RES-RIA-TwoStage	764025-2		Development and Validation of an Innovative Solar Compact Selective-Water-Sorbent-Based Heating System	2018-22
29	EcoPUMP	Innovate UK-China	104019		A Novel Thermoelectric Heat Pump/Heat Recovery System for Low Carbon Buildings (EcoPump)	2018-23
30		BEIS 0001: Low Carbon Heating Technology Innovation Fund	1010		A low carbon heating system for existing public buildings employing a highly innovative multiple-throughout-flowing micro- channel solar-panels-array and a novel mixed indoor/outdoor air source heat pump	2018-2021
31	SolarHeatStore	UK Guangdong Challenge Competition	104311		Compact Solar-Powered Thermal Energy Storage Battery (SolarHeatStore)	2018-2020
32	IDEAS	H2020-LC-SC3-2018-RES-TwoStages	815271		BUILDING A LOW-CARBON, CLIMATE RESILIENT FUTURE	2019-2022
33		SBRI-Tackling non-exhaust & road vehicle air pollution	111271-640213		Cool Run: Hubl's solution to multi-temperature last mile delivery	2019
34	BeeSave	Innovate-UK	105043		PCM Heat Storage Device for Control of Varroa in Bee Hives	2019-2021
35	SolCOOL	Agri-Tech Catalyst Round 8:	105067		Solar Powered Cold Food Chains for Food Waste Reduction and Value Addition	2019-2022
36	PCMinGEEP	EPSRC-	EP/S037349/1		Investigation of thermo-mechanical performance of PCM incorporated Geothermal Energy Pile	2019-2021
37	PCMCoolStore	Energy catalyst round 7: mid stage			PCM Cooling Storage for Building Applications in Developing Countries (PCM- CoolStore)	2020-21
38	SusCOOL	GCRF demonstrate impact in meeting the sustainable development goals: phase 1			SusCOOL- Sustainable Cooling in Developing Countries	2020-21
39	Seasonal Storage	Key technology components for local energy systems			Thermochemical seasonal solar energy storage for building applications (Seasonal Storage)	2020
40	CELEB	APC 12: Advancing the UK's low carbon automotive capacity	113245		Cost Effective Electric Bus	2020
41	IEEA 2021	Industrial Energy Efficiency Accelerator			A Super Performance Dew Point Cooler for Data Centres	2019-22
42	Surefit	SECURE, CLEAN AND EFFICIENT ENERGY	894511	https://surefitproject.eu/	SUSTAINABLE SOLUTIONS FOR AFFORDABLE RETROFIT OF DOMESTIC BUILDINGS	2020-3
43	SterilMask	The Sustainable Innovation Fund: round 1 (temporary framework)	894512		Innovative Self-Sterilisation Desiccant Masks	2020
44	BeCool Pack	The Sustainable Innovation Fund: round 3 (temporary framework)	90322		Innovative Cold Packs to Minimize Heat Stress for Wearing Personal Protective Equipment in a Health Care Environment (BeCool Pack)	2021
45	ECHO	HORIZON-CL5-2022-D3-01	101096368 / 600579 : MPCM4B	https://echo-euproject.eu/	EFFICIENT COMPACT MODULAR THERMAL ENERGY STORAGE SYSTEM	2022-26
46	WaterSustTech	Energy Catalyst round 8: clean energy access, feasibility projects	85766		Sustainable Technology for Atmospheric Water Harvesting	2022
47	EUREKA	Eureka Eurostars 3: call 1	600579 : MPCM4B		Flame retardant and energy saving microcapsules for thermal comfort in buildings	2022-24
48	Solar Cooling	Energy Catalyst Round 9 – Early Stage	10043541		Sustainable cooling hub for small-scale fisheries in Indonesia	2022-2025
49	BIOBUILD	HORIZON-CL6-2023-CircBio-01-8	101135629	https://bio-build.eu/	Innovative bio-based building materials with thermal energy storage function	2024-28
50	THUNDER	HORIZON-CL5-2023-D3-01	101136186	https://www.thunderproject.eu/	THermochemical storage Utilization eNabling Data centre seasonal Energy Recover	2024-29
51	COOPERANT	HORIZON-CL5-2024-D3-01	101172882	https://cooperant-project.eu/	Leading-edge cooperative advances towards the next generation of concentrated solar power (CSP) technology	2024-29
52	MopAirPurifier	Innovate	10113828:		Field Trials of A Novel Mop Fan for Healthier Buildings	2024-25
53	ASSURE	APCUK: ARMD4 Advanced Route to Market Demonstrator 4 competition	10159692		SUstainable Refrigerated Electric vAnS (ASSURE)	2025-26
54	Green Energy Relief	HORIZON-MSCA-2025-SE-01	101299873		Global Network for Advancing Small Green Energy Systems in Crisis, Low-Income, and Remote Regions through Research, Innovation, and Training	2026-27
55	RECITHERM	HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-33HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-33	101294402		REVERSIBLE THERMODYNAMIC ENERGY STORAGE FOR RENEWABLE ENERGY CARRIERS VIA EFFICIENT WORK TO HEAT TO WORK TRANSFORMATION FOR THE PROCESS INDUSTRIES	2026-2030