



Department for
Business, Energy
& Industrial Strategy

Industrial Heat Recovery Support Programme

Successful applications



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Industrial Heat Recovery Support Programme (IHRS)

Successful Applications

This document covers: the successful applicants; the sectors they have come from; the amount of grant awarded; the technologies planned for deployment; and the regions, in which the sites are based.

Company	Sector	Grant Awarded (£)	Waste Heat Recovery	Waste heat transfer	End Energy Use	Region
Phase 1 Assessment Window 1 (Jan-Feb 2019)						
Iggesund Paperboard	Paper and Paperboard	15,898	Flue gas heat exchanger	air-to-water	Boiler feedwater	Cumbria
Phase 1 Assessment Window 2 (Feb-Mar 2019) – no funding awarded						
Phase 2 Assessment Window 1 (Feb-Mar 2019)						
Karro Food Limited	Processing and Preserving Meat	137,323	Steam boiler flue gas	Economiser using water spray	Boiler feedwater	North Yorkshire

Company	Sector	Grant Awarded (£)	Waste Heat Recovery	Waste heat transfer	End Energy Use	Region
Phase 1 Assessment Window 3 (Apr-May 2019)						
Speciality Steel UK Limited	Basic Iron and Steel	34,749	Furnace flue gas	Flue gas heat exchanger	Electricity (ORC)	Sheffield
John Wainwright & Co. Limited	Other non-metallic mineral products	5,264	Process flue gas	Air-to-air compressor waste heat exchanger	Process air pre-heat	North East Somerset
Speciality Steel UK Limited	Basic Iron and Steel	74,603	Furnace flue gas	Flue gas heat exchanger	Electricity (ORC)	Rotherham
Advance Tapes International Limited	Glues	41,745	Oxidiser flue gas	Multiple	Multiple	Leicester
Basell Polyolefins UK Limited	Plastics in primary forms	40,680	Process waste heat	Recycling heat flow integration	Process heating	Manchester

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Wienerberger Limited	Bricks, tiles and construction products, in baked clay	9,766	Kiln flue gas	Exhaust gas ducting	Electricity (ORC)	Staffordshire
Phase 2 Assessment Window 2 (Apr-May 2019)						
Yeo Valley Farms Limited	Milk and Cream	19,380	Chiller waste heat	Plate type heat exchanger	Hot water usage	Somerset
Solutia UK Limited	Other organic based chemicals	197,211	Boiler exhaust flue gas	Economiser using water spray	Boiler feedwater	Newport
Phase 1 Assessment Window 4 (Jun-Jul 2019)						
Atlas Copco IAS UK Limited	Fasteners and Screw Machine Products	10,098	Process waste heat (heat treatment)	Integrated heat exchanger (Air-to-water/oil)	Process heat	Flintshire
Esseco UK Limited	Inorganic basic chemicals	76,764	Process waste heat (Sulphur)	Waste heat recovery boiler	Steam generation	West Yorkshire

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Castle Cement Limited (Padeswood)	Cement	14,368	Flue gas from kiln and clinker cooler	Integrated heat exchanger (Air-to-oil)	Electricity	Berkshire
Phase 2 Assessment Window 3 (Jun-Jul 2019) – no funding awarded						
Phase 1 Assessment Window 5 (Aug-Sep 2019)						
Castle Cement Limited (Ketton)	Cement	28,334	Waste heat from the kiln main stack	Via pressurised hot water	Containerised conveyor dryer or similar technology to dry SRF (fuel)	Berkshire
Phase 2 Assessment Window 4 (Aug-Sep 2019)						
John Wainwright & Co. Limited	Other non-metallic mineral products	56,837	Process flue gas	Hot air ducting	Process combustion air heating	North East Somerset
Saint Gobain Construction Products UK Limited.	Plaster products for construction purposes	216,000	Exhaust gases from plasterboard dryer	Heat Exchanger	Electricity	Coventry

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Phase 1 Assessment Window 6 (Oct-Nov 2019)						
Advanced Colour Coatings	Other manufacturing	15,960	Curing oven fuel gas	Thermal fluids	Combustion air pre-heat. Absorption cooling.	Birmingham
Castle Cement Limited (Ribblesdale)	Cement	32,200	Cement kiln	Thermal oil or pressurised hot water	Oxygen enrichment (nitrogen removal)	Berkshire
Electric Glass Fiber UK Ltd	Glass Fibres	12,722	Furnaces, chillers, compressors.	Hot oil, hot water, steam.	Steam boilers, gas hot air ovens, domestic heating and hot water systems	Lancashire
Phase 2 Assessment Window 5 (Oct-Nov 2019)						
Lucite International UK Ltd	Plastics in Primary Forms	1,500,000	Waste steam and steam energy	Steam	Electricity generation	Stockton-on-Tees

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Phase 1 Assessment Window 7 (Feb - Mar 2020)						
James A Jobling & Company Ltd	Tar products	61,065	Process flue gas/storage tank	Hot water loop	District heating	Newcastle Upon Tyne
Pilkington Technology Management Ltd	Other glass products	22,518	Glass furnace flue gas	Air to air heat exchanger	Process combustion air heating	Lancashire
Mil-Ver Metal Company Ltd	Aluminium	31,093	Smelter flue gas	Gas air to air heat exchanger	Process combustion air heating	Coventry
Cargill PLC (HX202)	Starches and starch products	21,480	Process waste heat (biofuel)	Fin/tube heat exchanger	Process heating (dryer)	Manchester
Rakusens Ltd	Rusks, biscuits, preserved pastry goods and cakes	15,500	Process flue gas (ovens)	Multiple	Electricity generation, cooling, hot water or process combustion air heating	Leeds

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Cargill PLC (Preheat)	Starches and starch products	93,533	Flash Steam	Plate/shell heat exchangers	Process heating	Manchester
Aggregated Micro Power Holdings Limited	Hollow glass	1,485,950	Glass furnace flue gas	Organic rankine cycle	Electricity generation	South Yorkshire
Kimberly Clark Ltd (Northfleet)	Other articles of paper and paperboard	240,946.51	Process waste heat	Waste heat recovery steam generator	Process heating (dryer)	Kent
Esseco Ltd	Inorganic basic chemicals	270,000	Process waste heat (sulphur)	Waste heat recovery boiler	Steam generation	West Yorkshire
British Sugar PLC	Sugar	50,000	Process waste heat (condensate)	Liquid to liquid plate heat exchanger	Process heating	Norwich
NGF Europe Ltd	Glass Fibres	298,109.95	Pollution control plant flue gas	Air to air heat exchanger	Process combustion air heating	Merseyside

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Phase 1 Assessment Window 7 (Aug - Sept 2020)						
Long Clawson Dairy Ltd	Food	56,500	Refrigeration condenser and a flue gas stream	Heat pump system	Process hot water	Leicestershire
British Sugar PLC	Food	23,800	Process heat	Plate heat exchangers with cleaning-in-place system	Process heating	Newark
DC Intelligence Ltd	Data Processing	259,417	Servers	Immersed server cooling	Space and water heating	Cambridge
Smart Systems Ltd	Aluminium Supplier	7,680	Natural gas flue	Thermal storage	Water and space heating	North Somerset
Smart Aluminium Extrusions Ltd	Aluminium Manufacturer	7,168	Natural gas and electricity	Thermal storage	Water and space heating	North Somerset
NGF Europe Ltd	Glass Fibres	13,062	Regenerative thermal oxidiser	Flue redirection	Product drying	Merseyside

Dragon Asphalt Ltd	Non-metallic Minerals	8,862	Process flue gas	Air to air heat exchanger	Combustion air pre-heating	Berkshire
Morrison Supermarkets PLC (Winsford)	Food	14,531	Refrigeration condensers	Heat pump system	Process hot water	West Yorkshire
Morrison Supermarkets PLC (Spalding)	Food	15,889	Refrigeration condensers	Heat pump system	Process hot water	West Yorkshire

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Phase 1 Assessment Window 7 (Aug - Sept 2020)						
Morrison Supermarkets PLC (Colne)	Food	16,249	Refrigeration condensers	Heat pump system	Process hot water	West Yorkshire
Morrison Supermarkets PLC (Greenside)	Food	16,111	Refrigeration condensers	Heat pump system	Process hot water	West Yorkshire

Morrison Supermarkets PLC (Deeside)	Food	16,446	Refrigeration condensers	Heat pump system	Process hot water	West Yorkshire
JJ Bioenergy Ltd	Basic Metals	52,600	Electric arc furnace	Thermal storage	Preheating process equipment	Sheffield
David Nieper Ltd	Clothes	5,805	Dryer flue and waste water	Water to water and air to water heat exchangers	Washing water pre-heating and space heating	Derbyshire

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Phase 2 Assessment Window 8 (Aug - Sept 2020)						
Kimberly Clark Ltd	Paper Products	898,085	Process heat	Steam generation from waste heat	Process steam	Kent
British Sugar PLC	Food	536,400	Process heat	Plate heat exchangers with cleaning-in-place system	Process heating	Newark

Innovia Films Ltd	Packaging and Labelling	111,285	Process flue gas	Flash steam Recovery condenser	Process steam	Cumbria
Calder Valley Skip Hire Ltd	Garbage Collection	429,507	Process flue gas	Organic Rankine Cycle	Electricity and heat for drying	West Yorkshire
Wienerberger Ltd	Non-metallic Minerals	189,478	Kiln flue gas	Air to water heat exchanger	Substrate drying and combustion air pre-heating	Cheshire
Wienerberger Ltd	Non-metallic Minerals	48,763	Kiln flue gas	Flue and cooling air redirection	Substrate drying	Cheshire
BOC Ltd	Chemical	1,500,000	Waste steam from reforming process	Steam amine regeneration	CO2 separation	Surrey
Mil-Ver Metal Company Ltd	Basic Metals	169,867	Furnace flue gas	Air to air heat exchanger	Combustion air pre-heating	Coventry
Cargill PLC (HX202)	Food	374,680	Process heat	Water-based heat recovery loop	Process dryers	Surrey
Northcot Brick Ltd	Non-metallic Minerals	56,550	Kiln flue gas	Air to air heat exchanger	Substrate drying	Cotswolds

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