

# Reference List

[purecycleengineering.co.uk](http://purecycleengineering.co.uk)

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## References:

The projects listed below have all been designed or supplied by PCE's in house team of fully qualified engineers. This list does not include all small-scale projects such as 5-10 Tonne/hour paper, wood or plastics processing and recycling systems, and focuses on Waste to Energy projects.

Customer	Description	Year
Fibrefuels, Slough, UK.	Pre/Post Shredding and densification systems for handling post consumer C&I Waste streams to generate electrical power from RDF fuels. This plant receives <b>180,000 Tonnes/annum</b> .	2001
Castle Cement, Stamford, UK.	UK's first dedicated MSW reception, classification and processing to SRF "Profuels" Facility, handling <b>60,000 Tonnes/annum</b> .	2002
Polysindo, Asia	<b>750 Kg/h PET reprocessing line</b>	2005
Ecomaster, Massafra, Italy	Design and supply of 7 x Mechanical Treatment of municipal solid waste through a MBT (Mechanical Biological Treatment) plants with drying tunnels to generate pelletised RDF. Total volume of input for these plants was <b>1.5M Tonnes/annum</b> . This is then fed into 2 waste-fired power stations rated at 32 MWe.	2004-7
Ebisushyro, Japan	<b>120,000 Tonne/year MRF Residue to SRF Fuel production plant</b> feeding into the client's power station to generate steam.	2004-5
Diao paper, Japan	<b>90,000 post consumer waste /MRF residue processing plant</b> to generate SRF to feed into clients CFB boilers	2005
Ecosafe Ltd, Ireland	1 T/h medical waste shredding system following autoclave sterilization system – this is then used as an alternative fuel in the Irish cement industry.	2005
Bical Ltd, UK	Fuel Cuber using biomass, build and facility supply for cubing miscanthus for 'green coal' to feed the UK's largest power station "DRAX Power" during their transition from coal to biomass firing. This plant currently consumes <b>11,000,000 Tonnes/annum</b> of biomass.	2006
Hinkcroft, London, UK	MSW processing plant, with <b>240,000 Tonnes/year</b> of MSW input, producing baled/wrapped RDF for export to the EU for use as alternative fuel in cement kilns.	2008
NPT, Swansea, Wales	<b>140,000 Tonne/annum</b> MSW reception facility, with MBT and fuel production of high grade SRF for CEMEX cement plants, recyclate recovery (ferrous/non-ferrous/rigid plastics & film plastics) and parasitic load within the site's waste to energy facility.	2008
Stericycle, Bucharest, Romania	2 T/h Clinical/medical/theatre waste sterilization process for cement kiln fuel	2008-9
Niramax group, Hartlepool, UK	MSW, C&I and C&D waste processing plant for <b>240,000 Tonnes/year</b> on two-shifts. Full classification and separation technology (ferrous/non-ferrous and target polymers) on site and high grade SRF produced, baled and wrapped	2009
Bredbury Parkway MBT plant, Manchester, UK	<b>110,000 Tonne/year MRF facility</b> , with AD plant, recyclate recovery (fibre, mixed plastics and metals) and RDF production for Viridor.	2009
777 Demolition, London	<b>150,000 Tonne/year</b> RDF production facility, including pre-shredding, re- shredding, classification (recovery of wood, paper/card, ferrous/non-ferrous and plastics) and truck load out for use as alternative fuels in one of London's waste to energy facilities.	2010
Freeth Plastics, Swindon	Multiple shredding lines for plastic products/secure product destruction for HM Customs.	2010-11
Tanksafe, Birmingham	IBC shredding and recycling line	2011
Hinkcroft, London, UK	<b>1 Tonne per hour PP and PET shredding and sorting line</b>	2011
Luxus, Louth	<b>50,000 tpa</b> Pre-shredding and processing of plastic head-waste and recyclate for re-granulation and re-use in recycled plastic product lines.	2011
Ragn Sells, Estonia	Dedicated MBT plant processing <b>140,000 Tonnes/year</b> of Municipal waste, biodrying facility for organic materials and production of SRF for local cement kiln. Separation of plastics, paper/card and metals.	2011
Jaguar/Ford motor company, London	Recycling of plastic dashboards for Jaguar/Ford	2012
JLG Plastics, Swindon, UK	1 T/h plastic shredding line	2012
Cork Plastics, Ireland	1 T/h plastic shredding line	2013
Biffa Polymers, North East	Design and installation of 4 Pre-shredding and extrusion lines to handle approx. <b>60,000 tpa</b> of recycled plastics working with Erema to generate recycled plastic pellets for recycled polymer use.	2012-13

Recydia, Turkey	2,000 Tonnes/day ( <b>700,000 Tonne/annum</b> ) municipal waste processing plant, with high recyclates recovery and high grade secondary SRF fuel production for use in local cement kilns. Back-end Sorema washing lines and Erema extrusion lines for high-grade plastic pellet production. Approx. <b>30,000 tpa</b> of pellet output.	2012-14
Motan Colortronic, Swindon	Plastic shredder for large PP lids, 1 T/h	2013
Jayplas, East Midlands, UK	<b>50,000 tpa</b> plastics shredding, feeding to wash line and granulation for one of the UKs largest plastic recyclers.	2014
Opes Industries, Oxford, UK	<b>140,000 Tonnes/year</b> C&I/C&D reception facility, full scale classification and separation facility and RDF production (baled and wrapped) for fuel.	2014-15
ELG Carbon Fibre, UK	Carbon fibre processing, shredding and processing line to produce carbon black	2014-16
Opes Industries, Oxford, UK	Additional modifications to facility to improve landfill quantities to less than 5% of input	2016
GJ Nature Care, India	Engineering consultancy to design and specify a <b>110,000 Tonne/annum</b> MSW biodrying and MRF facility for power generation of 12 Tonne/hour RDF generating 13MWe on site	2016-present
SSSI Ltd / PDMR	Ongoing upgrades to existing site, including fines clean up, RDF to SRF upgrades and metals clean up, including plastics processing and recovery plant	2018
Equipo SP	Engineering consultancy for several European waste to Energy projects	2019
Tier 1 power utility client	Front-end waste to energy plant RDF handling/preparation.	2019
Waste to Energy Plant	Design and consultancy for a <b>75,000 Tonne/annum</b> medical waste processing, sterilisation, preparation, storage and feeding system for a gasification plant	2020-present
Vital Energi, Drakelow Power station	Engineering consultancy for a <b>200,000 Tonne/annum</b> Front-end waste to energy plant RDF handling/preparation/feeding and ash handling systems	2020-2022
Plastics Recovery Plant	Design and Engineering consultancy for <b>3 x 150,000 tpa</b> plastics recycling and recovery plant from MRF residue, through washing and flaking and to full food grade pellet output	2021-present
Waste to Energy Plant (Drakelow 2)	Engineering consultancy for Front-end waste to energy plant RDF handling/preparation/feeding and ash handling systems for a <b>200,000 tpa system</b>	2021-present
Vital Energi, Newport Power station	Engineering consultancy for Front-end waste to energy plant RDF handling/preparation/feeding/screening and ash handling systems for a <b>200,000 tpa system</b>	2022-present
Bangladesh, SRF production plant	Engineering consultancy for a biodrying facility to handle <b>100,000 tpa</b> of local waste, and blend with <b>150,000 tpa imported SRF</b> to produce a high-quality fuel for the local cement works	2023-present
Greensteel, Tredegar, Wales	Engineering consultancy and design for a <b>150,000 tpa</b> MRF Residue to low carbon fuel processing facility with mixed recycled polymers production.	2024-present
Bangladesh, SRF production plant	Engineering consultancy for a fuel reception, blending and processing facility to handle <b>100,000 tpa</b> of local waste, and blend with <b>250,000 tpa imported SRF</b> to produce a high-quality fuel for local waste to energy plants	2024-present
Low Carbon Fuel production and upgrade plants	Engineering consultancy for RDF processing and plastics removal to produce LCF for waste processors/exporters to feed waste to energy plants with a low fossil carbon fuel, and producing a by-product of recycled polymer and generation of carbon credits	2025-present