## **Processing and Destinations of Kerbside Collected Recycling & Refuse**

	Food	Paper & Card	Cans & Plastics		Glass			Residual
Primary Processing	Anaerobic Digestion (AD) plant: Bridgend.  AD process produces: - Methane, used as biogas for electricity for National Grid (NG) - Slurry, processed into agricultural fertiliser - Mechanical separation of reject material (large bones, plastic packaging etc.)	Sorting Facility: Deeside, Flintshire Separation of paper from cardboard	Separation of steel and aluminium cans from	Transfer Station: Brecon aration of steel and aluminium cans from plastics before baling all material for onward haulage		Glass reprocessor: Cwmbran, Torfaen; Ellesmere Port, Cheshire  - Magnetic and eddy current separation of metals from glass  - Wet process to float paper and plastics 'reject' from glass  - Classifying of glass into separate grain sizes  - Poorest quality 'fines' fraction of glass graded into 'eco-sand' product  for sale as aggregate		
Secondary Processing	Incinerator: Typically Cardiff / Bristol.  - Reject incinerated for electricity for NG - Incineration produces ash	Paper Mills: Manchester (Cardboard); Kings Lynn, Norfolk (Paper)  - Separation of reject (packaging tape, staples etc.) - Paper/card pulped and recycled - On-site incineration of non-metal reject for electricity to power plant operations	Material Recovery facility (MRF): South Normanton, Derbyshire  - Separation of reject material (fines, paper, nono-recyclablel plastics etc.) - Optical sorting of plastics into individual polymer streams.	Metal Reprocessor: Port Talbot (Steel Cans); Warrington, Cheshire (Aluminium Cans)  Recycled into new cans, car parts and other recycled products.	Glass reprocessor: Cwmbran, Torfaen Best grades of glass are used to produce fibreglass insulation for domestic market.	Metal Reprocessor: Various  - Magnetic and eddy current separation of metals into ferrous and non-ferrous Shredding of metals ready for smelting in furnace	Incinerator: Various  - Reject incinerated for electricity for NG - Incineration produces ash	Non-hazardous Landfill: Llanidloes  - Material added to landfill cells for burying and final disposal.  - Once cell is capped, methane gas produced by anaerobic digestion within cell is captured and utilised as biogas.
Tertiary Processing	Cement Manufacturer: Various.  Ashes used as replacement for raw material in cement	Metal Reprocessor: Various  - Separation of metals into ferrous and non-ferrous Metals recycled into	Plastics Reprocessors: Various  - Pelletising of plastic polymers - Recycling into new plastic products:  Incinerator: Various  - Reject (PVC) landfilled as chlorine means it cannot be incinerated Reject (non- recyclable material) incinerated in				Cement Manufacturer: Various  Ashes used as replacement for raw material in cement	

manufacture.

manufacture.

new products

bottles, pots, tubs,

europe for electricity for their NGs