



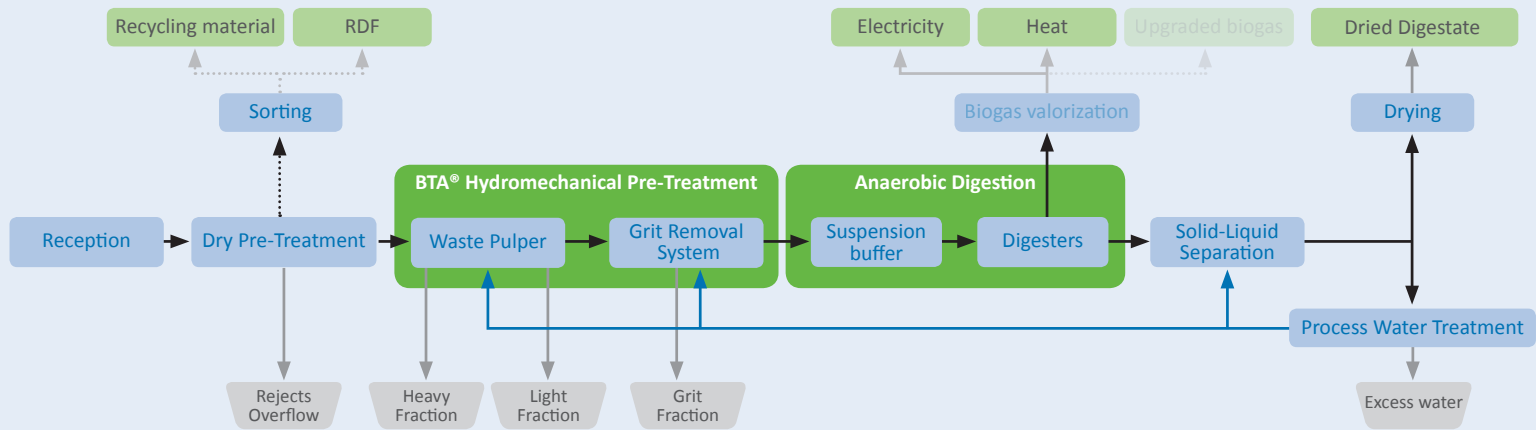
Glasgow - Scotland



Selected BTA References

- Final Client:**
- Viridor (DBO-Contractor for the Glasgow City Council)
- Partner:**
- Interserve Construction Limited (Construction Subcontractor to Viridor)
- Type of Waste:**
- Municipal Solid Waste
- Capacity:**
- 200.000 ton/year input to the plant
 - Up to 90.000 ton/year into hydromechanical pre-treatment
- Start up:**
- 2017
- Plant sections:**
- Waste reception
 - Material Recycling Facility
 - BTA® Hydromechanical Pre-Treatment
 - Wet anaerobic digestion plant
 - Biogas valorization in CHP units
 - Solid-Liquid-Separation
 - Internal process water management





Glasgow - Scotland

Description

The Glasgow Recycling and Renewable Energy Centre (GRREC), which is planned to be commissioned in Spring 2015, will treat 200,000 tonnes per year of residual kerb-side collected municipal waste in Glasgow City. From these, up to **90,000 tonnes per year** will enter the **BTA® Hydromechanical Pre-Treatment** for the efficient removal of impurities as well as wide recovery of digestible organic components into an organic suspension for processing in the anaerobic digestion step.

The design of the wet pre-treatment includes **4 x 32 m³ BTA® Waste Pulpers**, 4 x LRS Screw units and presses for the removal and dewatering of the of the light fraction (e.g. plastics, woody material, textiles) **8 x heavy fraction traps** and classifiers for the removal of the heavy fraction (e.g. stones, glass, metals, bones) and **8 x BTA® Grit Removal Systems** for the removal of the grit fraction (sand, glass splitters). All these equipments will be supplied by BTA International GmbH, together with the **Control Unit (SCADA)** for this step.

Furthermore, BTA International will deliver the process design and key components for the **removal of suspended solids** for a partial stream of the liquid phase obtained in the solid-liquid separation to produce the so-called **“Process Water 2” for rinsing purposes in the hydromechanical pre-treatment**, thus reducing the demand of potable water and the amount of generated excess water.

Viridor, who will operate the GRREC during 25 years, already operates two other MBT Plants with BTA Technology in Manchester: MBT Reliance Street and MBT Bredbury Parkway. Thus, this will be the **third MBT Plant with BTA Technology in the UK**, underlining the leading position of BTA International in the pre-treatment and anaerobic digestion of the Organic Fraction from Municipal Solid Waste.