



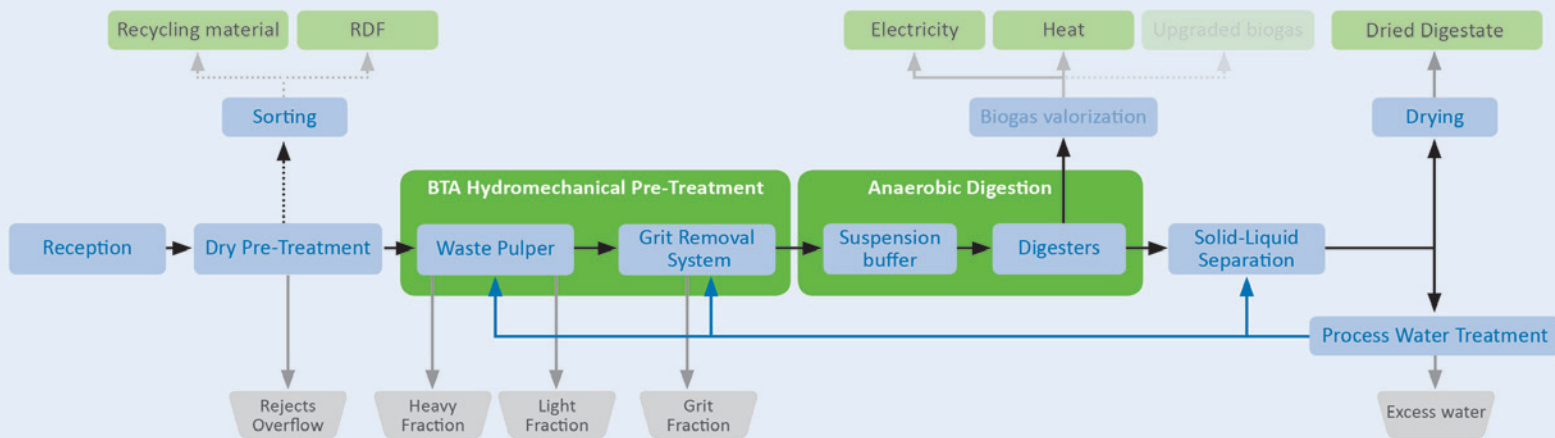
BREDBURY PARKWAY - UK



Selected BTA References

- Final Client:** • Viridor Laing (Greater Manchester) Ltd.
- Main Contractor:** • Costain Ltd.
- Partner:** • Enpure Ltd. (licensee for UK)
- Type of Waste:** • Municipal Solid Waste
- Capacity:** • 110.000 tons/year input to the plant
• 86.000 tons/year into hydromechanical pre-treatment
- Start-up:** • 2011
- Plant sections:** • Waste reception
• Mechanical pre-treatment and sorting
• BTA® Hydromechanical Pre-treatment
• One-stage wet anaerobic digestion
• Biogas valorization in CHP units
• Solid-liquid separation
• Internal process water management
• Effluent treatment plant





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Description

With two of four MBT Facilities executed in the frame of the PFI Contract Greater Manchester designed according to the BTA® Process, BTA International is one of the **key technology providers in the largest waste PFI project in Europe** to date.

The MSW Manchester Bredbury Parkway MBT Plant is the second, bigger facility, designed to treat up to 110.000 tons per year of Municipal Solid Waste. The design incorporates a dry mechanical pre-treatment to obtain a **fine organic fraction (< 60 to 80 mm)**, a RDF and a recyclable metals fraction. The organic fraction is treated by a **wet pre-treatment stage** followed by a **mesophilic, one-stage wet anaerobic digestion** based on the **BTA® Process**. The produced biogas is converted in CHP units to electricity and heat. The surplus heat is used to dry the digestate.

BTA International acted as technology provider and responsible party for all processes involved within the limits of the BTA® Process. In addition to **engineering services**, BTA International supplied the **key components** for the BTA® Hydromechanical Pre-treatment as well as the **Control System**.

Being one of the first facilities of its kind in the UK, the MSW Manchester Bredbury Parkway MBT Plant is considered a **landmark project** for treatment facilities of MSW including the anaerobic digestion of the organic fraction in the UK.