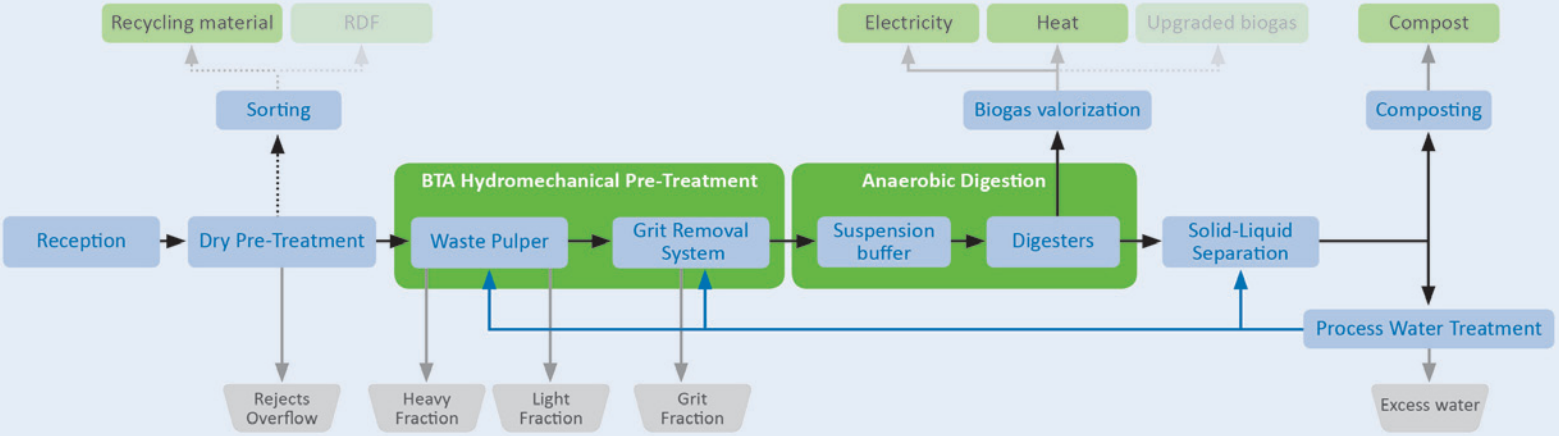
ECOPARC 1 - Spain

Selected BTA References

Final Client:	• UTE ECOPARC (Urbaser, Comsa, Emte Joint Venture)
Partners:	• Biotec Sistemi S.r.l.
Type of Waste:	• Municipal Solid Waste • FORM (Spanish, heavily polluted biowaste)
Capacity:	• 245.000 tons/year input to the plant • 50.000 ton/year into hydromechanical pre-treatment
Start up:	• 2001 first start-up • 2008/2009 start-up of refurbished section
Plant sections (refurbished by BTA):	• BTA® Hydromechanical Pre-treatment • Thickening step • Re-engineering of 1 x 6.000 m³ digester • Internal process water management • Control unit for methanization line

The BTA Process



ECOPARC 1 - Spain

Description

Due to an **ineffective removal of the impurities** from the organic suspension going to the anaerobic digestion step, the methanization line of Ecoparc 1 soon presented serious problems which made a stable operation impossible: massive sediments in the digesters and floating layers, constant clogging of the pipes, a high loss of digestible organics in the pre-treatment leading to a by far too low biogas yield and an unacceptable quantity and quality quality of the separated residues.

BTA, via its licensee Biotec, was assigned to **refurbish the wet pre-treatment** substituting it by the BTA® Hydromechanical Pre-treatment, and to re-engineer one of the 6.000 m³ digester tanks.

The anaerobic digestion line was **restarted in 2008** and has successfully been in operation since then without major unforeseen breakdowns. The plant owner and the municipality are very satisfied with the plant operation as it has operated both **successfully in terms of performance and availability.**

This example underlines the importance of a reliable removal of impurities from the organic suspension prior to an anaerobic digestion line and highlights impressively the **unique efficiency of the BTA® Hydromechanical Pre-treatment**, also or even with high level of contamination.