

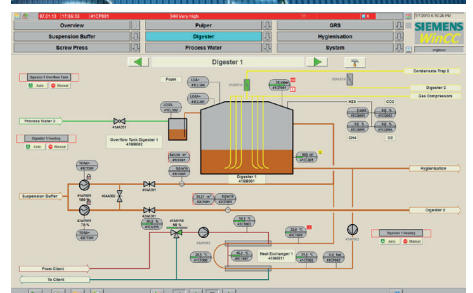


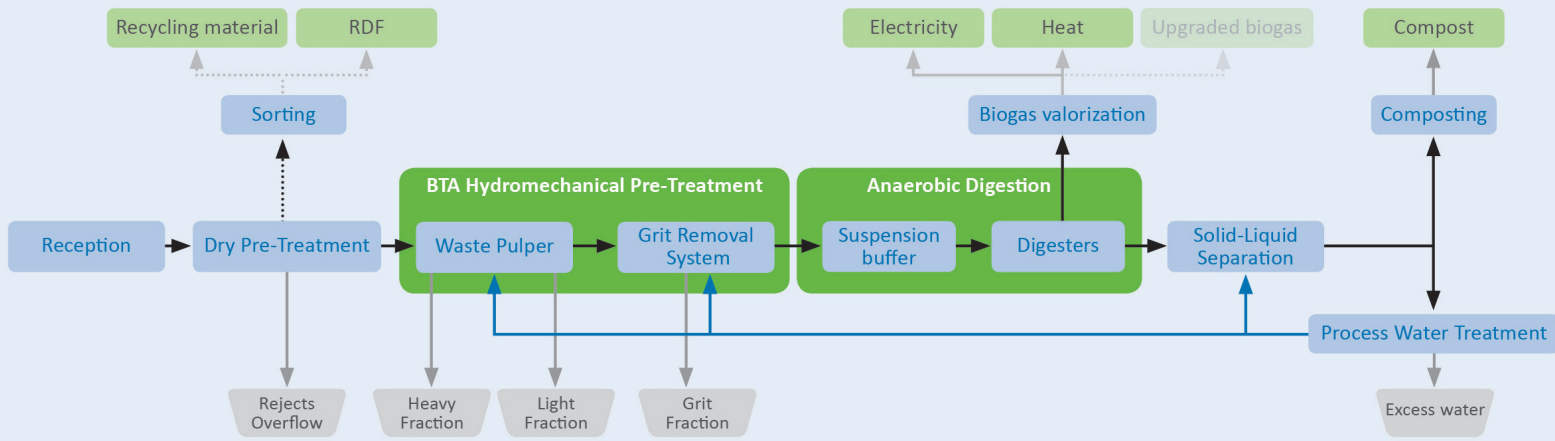
Maresme - Spain



Selected BTA References

- Final Client:**
 - Centre Integral de Valorització de Residus de Maresme U.T.E. TEM Constructora
- Partner from BTA:**
 - UTE TEM (consortial partners among others Valoriza and Veolia Propiète)
- Type of Waste:**
 - Municipal Solid Waste
- Capacity:**
 - 190.000 tons/year input to the plant
 - 35.000 tons/year into hydromechanical pre-treatment
- Start up:**
 - 2013
- Plant sections:**
 - Waste reception
 - Mechanical pre-treatment and sorting
 - BTA® Hydromechanical Pre-treatment
 - One-stage wet anaerobic digestion
 - Sanitation
 - Solid-liquid separation
 - Internal process water management





Maresme - Spain

Description

At the Centro Integral de Valorización de Residuos del Maresme the **synergies** of different ways for the energetic valorization of waste will be exploited: the existing **incineration plant** is being refurbished, and in addition a **methanization plant** is being installed to produce biogas out of the organic fraction of one of the waste streams.

The concept for the methanization is based on the **BTA® Process**, comprising a hydromechanical pre-treatment, a mesophilic wet digestion step followed by sanitation of the digestate at 70°C during one hour prior to the solid-liquid separation. While the solid phase undergoes a composting process, the liquid phase is widely recycled to the process in the frame of the internal process water management.

As already practiced with the main partner in the Spanish project Granollers, BTA International acts as **technology provider**, supplying engineering services, procurement and installation supervision, start-up support and assistance, the key components of the hydromechanical pre-treatment (together with our licensee and partner Biotec Sistemi), as well as the Control Unit.