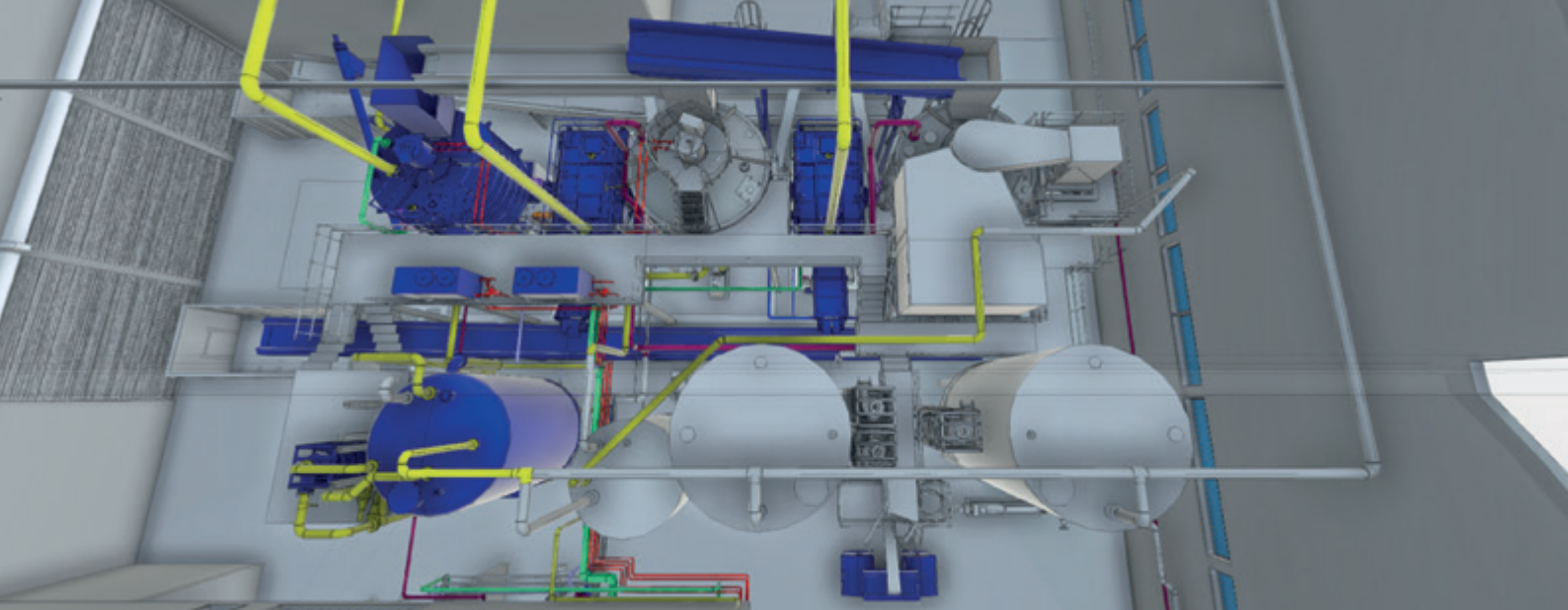




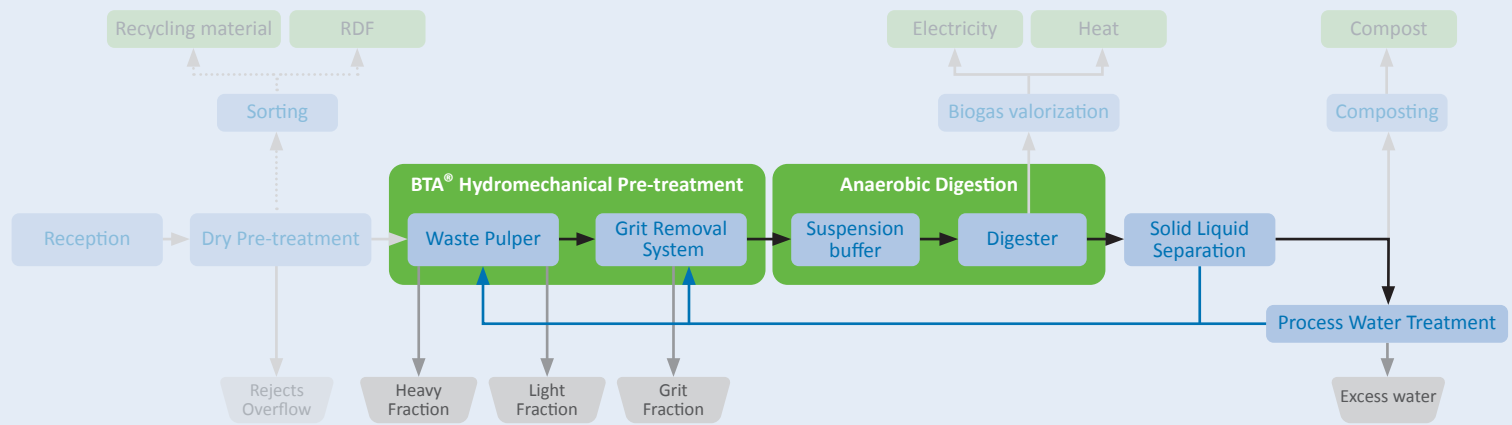
EXTENSION OF THE MBT PLANT VALORLIS - Portugal



Selected BTA References

- Final Client:**
- VALORLIS – Valorização e Tratamento de Resíduos Sólidos, S.A.
- Partner:**
- EFACEC Engenharia e Sistemas, S.A.
- Type of Waste:**
- Biowaste
- Capacity:**
- 25.000 tons/year
- Start-up:**
- 2023
- Plant Sections:**
- BTA® Hydromechanical Pre-treatment
 - Wet anaerobic digestion
 - Solid-liquid separation
 - Internal process water management





EXTENSION OF THE MBT PLANT VALORLIS - Portugal

Description

After a decade of successful operation, the **MBT plant in Leiria** was expanded by an additional biowaste treatment line to reflect the new environmental targets of Portugal. **VALORLIS – Valorização e Tratamento de Resíduos Sólidos, S.A.** has assigned in September 2021 the consortium between **BTA International GmbH** and **EFACEC Sistemas e Engenharia, S.A.** with the corresponding works, as it did more than 10 years before for the construction of the MBT plant itself.

Since its **start-up in 2010**, the plant had treated more than **500,000 tons of unsorted household waste**. But with the more stringent European targets for the recovery and valorisation of organic waste, VALORLIS also receives and **process biowaste that is separately collected in the households**. For this reason, VALORLIS planned the expansion of the facility by a separate treatment and digestion line for an **additional 25,000 tons** of biowaste per year.

The biowaste processing line is also based on the **BTA® Process**, just as the existing organics treatment lines at the MBT plant. In order to keep both lines (household waste and biowaste) separate, the expansion foresaw a **separate pre-treatment line** (according to BTA® Hydromechanical Pre-treatment), a separate digestion line (**wet digestion**, mesophilic) and **separate process water management**.

In addition to these works, the wet-mechanical pre-treatment line for household waste was **reinforced** by replacing the original light fraction removal system with the new generation one, increasing the capacity significantly. The same system had already been in successful operation in several MBT plants for years, e.g., in Glasgow or Malta.