

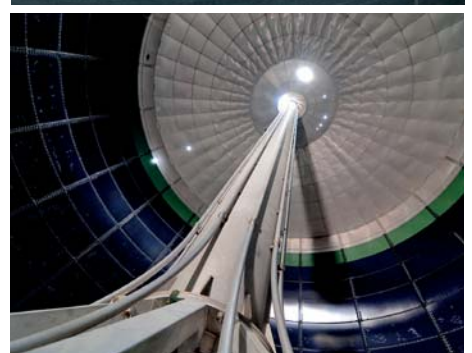


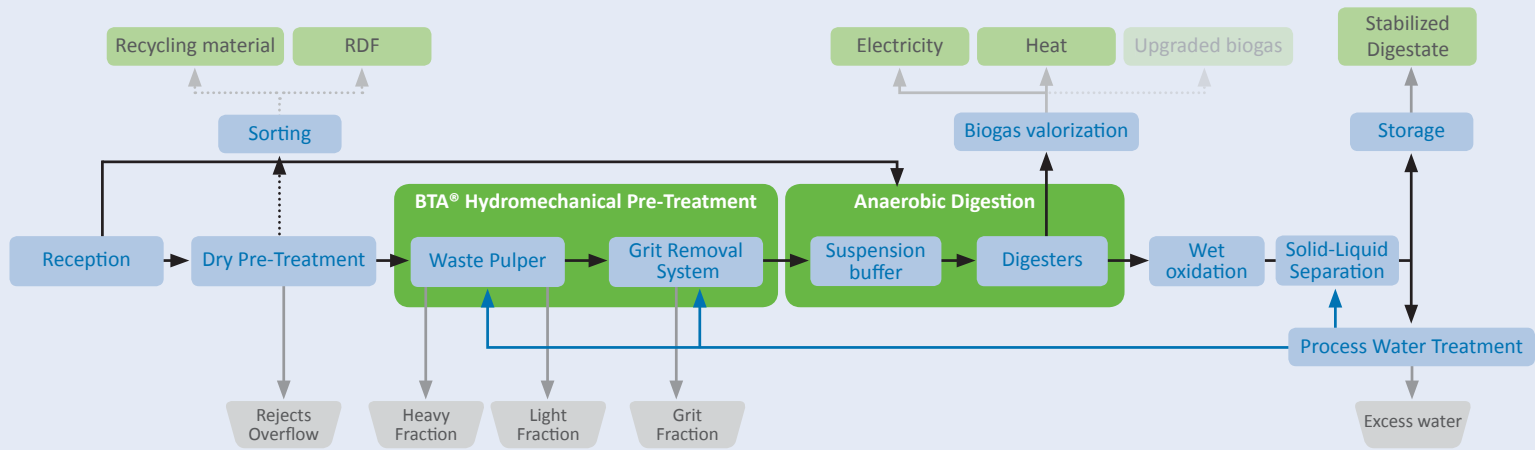
Malta - Northern Malta



Selected BTA References

- Final Client:**
- WasteServ Malta Limited
- Consortial Partner:**
- EFACEC Engenharia e Sistemas, S.A.
 - Vassallo Builders Limited
- Type of Waste:**
- Municipal Solid Waste
 - Bulky Waste
 - Manure and Poultry Dung
- Capacity:**
- Up to 162.000 ton/year
- Start up:**
- 2016
- Plant sections:**
- Reception and pre-treatment manure and poultry dung
 - Reception municipal solid waste (MSW) and bulky waste
 - Materials Recovery Facility of MSW and bulky waste
 - BTA® Hydromechanical Pre-Treatment for organic fraction of MSW
 - Wet anaerobic digestion plant
 - Biogas treatment and valorization in CHP units
 - Aerobic oxidation
 - Solid-Liquid-Separation
 - Internal process water management
 - Surplus water treatment





Malta - Northern Malta

Description

The Malta North Waste Treatment Facility (MNWTP) comprises a Mechanical Treatment Facility (MT) and an Anaerobic Digestion Plant (AD) located at the Maghtab Environmental Complex.

The MT Plant is able to process up to **76.000 ton per year Municipal Solid Waste (MSW)** and in a separate line 47.000 ton per year of bulky waste. The organic fraction from MSW is further cleaned from the remaining impurities in the **BTA® Hydromechanical Pre-treatment**.

The obtained organic suspension is pumped over more than 400 m to the AD Plant, where it is **co-digested with manure (35.000 ton per year)** and **poultry dung (4.000 ton per year)** generated on the island. The produced biogas is treated in an external desulphurization and valorized in two CHP units. The digestate is treated in its wet phase in **aerobic oxidation tanks** upfront the solid-liquid-separation. In this way, it is possible to achieve the Rottegrad V degree for the dewatered digestate without a further composting step. A two-step solid-liquid separation is foreseen to minimize flocculants and fresh water consumption. Any excess water will be treated to high standards in an **internal wastewater treatment facility on site**.

The MNWTP is a major step forward in the Solid Waste Management Strategy for the Maltese Islands by the diversion of biodegradable waste and other wastes from landfill.