

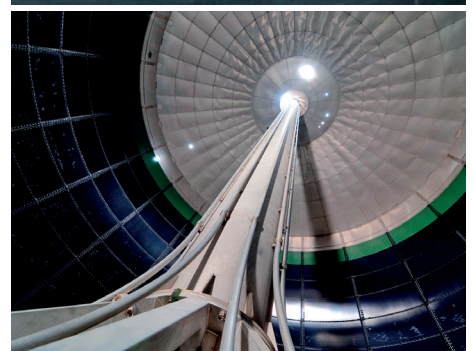


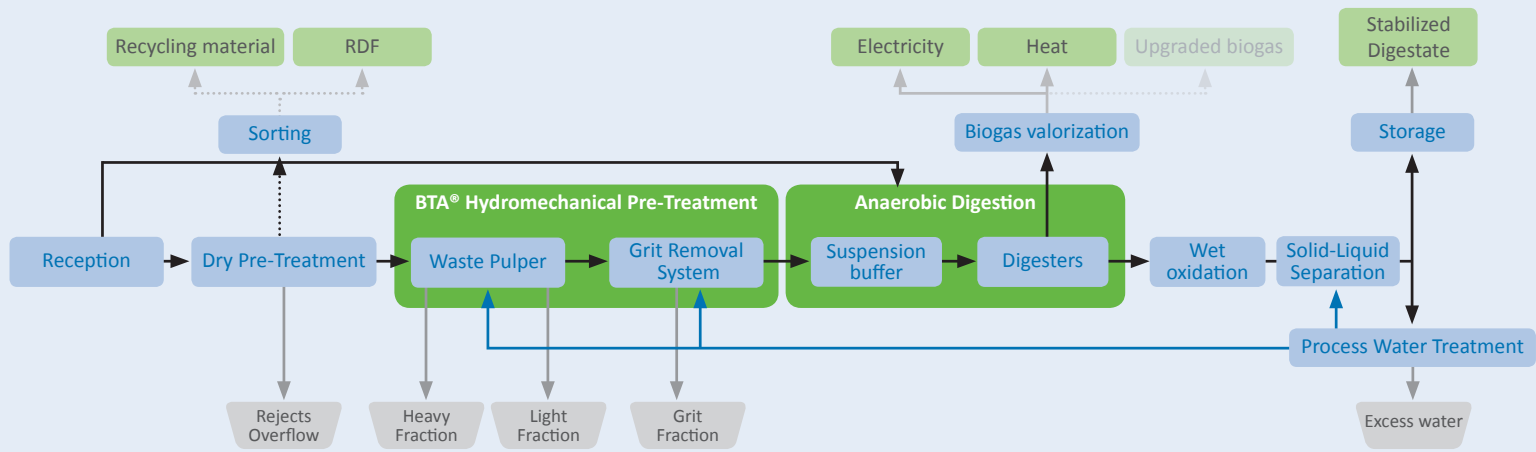
Malta - Northern Malta



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) is a Mechanical Treatment Facility and a (Biological) Anaerobic Digestion Plant (AD) which will be located at two neighboring locations at the Magtab Environmental Complex.

The Material Recovery Facility will be able to process up to **76.000 ton per year Municipal Solid Waste (MSW)** and in addition in a separate line 47.000 ton per year of bulky waste. The design of this area was done by the Consortium Partner EFACEC.

In the AD Plant the organic fraction from MSW will be further cleaned from the remaining impurities in the BTA® Hydromechanical Pre-Treatment before it is **co-digested in the anaerobic digestion step together with manure (35.000 ton per year)** and poultry dung (4.000 ton per year) generated on the island. For the anaerobic digestion, WasteServ has decided for the second time for a **wet digestion system**. 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. Any excess water will be treated to high standards in an **internal wastewater treatment facility on site**.

Apart from supplementing the existing Sant` Antnin Waste Treatment Facility, the MNWTP will be 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.