European Practice in Waste Management at Greek Islands / Best Practice for Municipalities Hosting Refugees
W.A.T.T. S.A.’s management team, its engineers and technical personnel have a long track record in applying state-of-the-art waste treatment technologies.

Having 20 years’ experience in waste management, W.A.T.T. S.A. has the capacity to offer integrated services ranging from waste collection to recycling, energy recovery and safe final disposal.
• Operation of owned mechanical sorting facilities.
• The overall daily capacity of the sorting facilities operated by W.A.T.T. S.A. is approximately 300 tons, mainly from Koropi plant.
• Koropi plant, first year of operation 2010
  • Capacity 20t/h
  • input mixed municipal packaging from 26 Attica municipalities as well as commercial and industrial waste from other WATT clients.
  • 3,000 m² Plant in a 20,000 m² industrial field.
• The daily production of first-rate quality recyclable materials is approx. 180 tons. Materials produced are:
  • PET
  • PE (HDPE, LDPE)
  • PP/PS
  • Tetrapack
  • Paper/Carton
  • Ferrous and non ferrous metals
  • RDF
In Paros island, WATT invested for the implementation of sorting plant suitable for the island needs. The plant comprises the reception, preselection and baling line of the packaging material.

W.A.T.T. S.A. signed a contract with HERRCO for the collection / transportation and further treatment of the recyclable material from the following islands located in Aegean Sea:

- Syros
- Paros
- Sifnos
- Andros
- Alonissos
- Lipsi

Compact, Robust and Low cost construction which covers 100% the island needs. Efficient way to increase the recyclable rates and avoid storage of packaging waste at the island.

The same construction can apply in various locations.
• W.A.T.T. S.A. provides operation services in Syros island through the operations of the Sanitary Landfill of the island.
• The daily capacity of the Syros Landfill is 12,000 tons/year.
• The landfill size is similar to municipalities hosting refugees.
• Its controlled operations leading to a more efficient and environmental sustainable service delivery.
• On top of the landfill services in Syros island, WATT constructed a similar to the Paros sorting plant.
• This plant offers more than 10 working places and serves the local needs.
• Due to its pioneer design, it can handle the seasonal different waste composition.
• All relevant material ends up to the main facility in Athens.
Apart from the low cost sorting lines, WATT proposes the following concept which can be implemented for refugees camp waste:

- Our case study refers to a place that has 5000 t/year mixed waste
- Proposal for a low cost installation of 4 hybrid bioreactors (dry anaerobic digestion and composting). See the following sketch:
  1. Reception area after the low cost sorting line
  2. Hybrid Bioreactors (21 days anaerobic digestion & 9 days intensive composting)
  3. Internal Combustion Engine for Energy production
  4 / 5 / 6 / 7 Mechanical Equipment, Electrical Equipment, Biogas Storage Area, Biofilter
Benefits from such installation:

- small-scale project for economic development of all refugees
- Electricity / power supply and heat for the Camp
- Job creation
- Environmental benefits
- Direct training of youth
- Circular economy
Thank you very much for your attention!