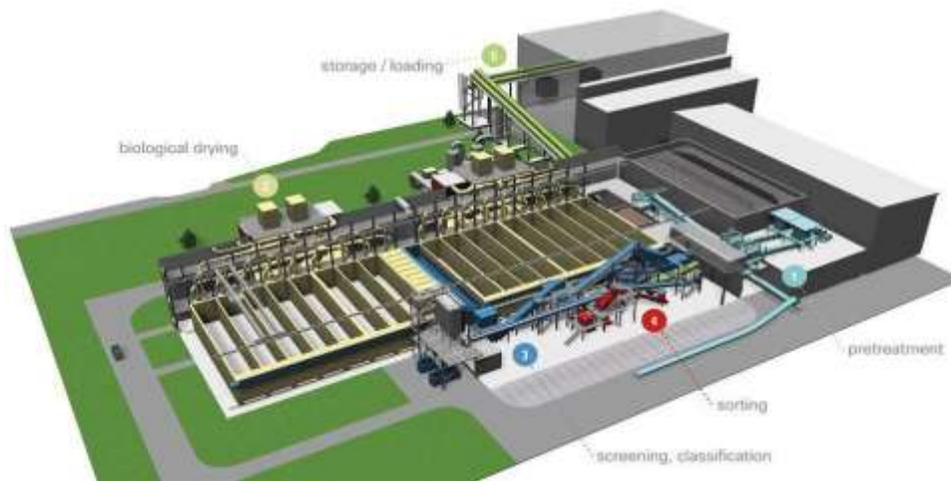


# WASTE **TEC** GMBH

Engineering • Procurement • Construction

## ADVANCED SOLUTIONS FOR WASTE TREATMENT PLANTS

Recycling



HBHE Consulting

[www.hbheconsulting.com](http://www.hbheconsulting.com)

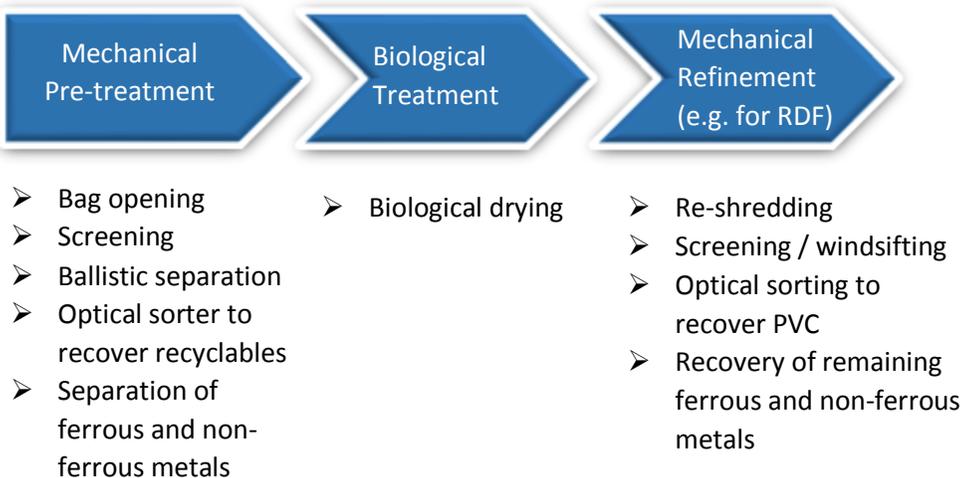
# PROVIDING CUSTOMIZED SOLUTIONS

The mechanical treatment in combination with the biological drying of waste allows high level recovery of recyclables. Enhanced separation of metals, plastics and other constituents leads to a reduction of contaminants in the RDF. Utilizing the RDF benefits existing industrial infrastructure such as pulp mills, cement kilns by providing an alternative fuel source.

Depending on the waste quantities, waste composition and the objectives for the final product we provide solutions from a fully automated system to a semi-automated system as well as focussing on maximizing material recovery (recycling) or providing RDF.

## Mechanic Biological Treatment (MBT) - Focus Recovery of Recycling

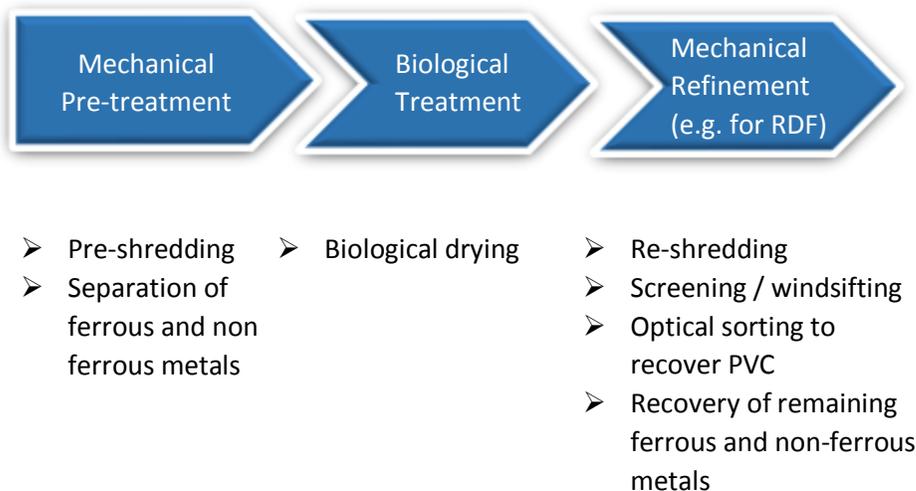
### Basic Principles



- Energy recovery
- Material recovery
- Inerts (Landfill cover)

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### Basic Principles



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## Biological Drying Process

Inside the bio drying unit, the biological ingredients of the residual waste start a bio drying process during which heat is generated by aerobic microbes. The biological process can be set to the required moisture content of the RDF.

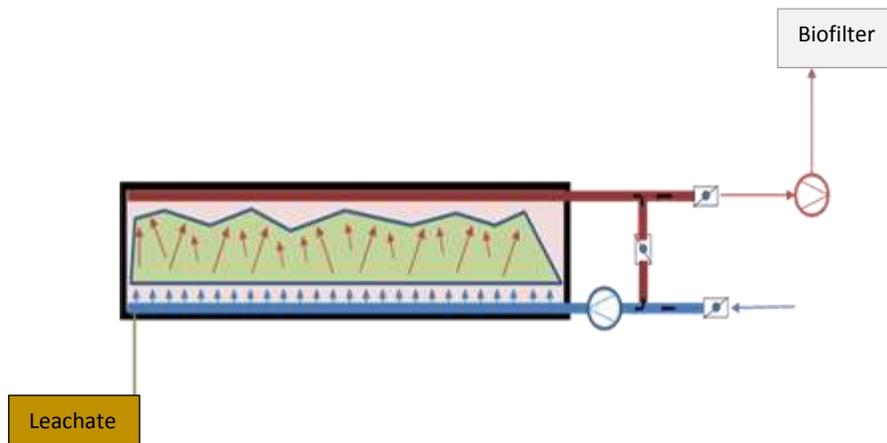
The biological drying process results in:

- Reduction of the water content in the waste (drying)
- Degradation of biological components for utilising the thus generated energy
- Improvement of the separation properties for the downstream mechanical treatment

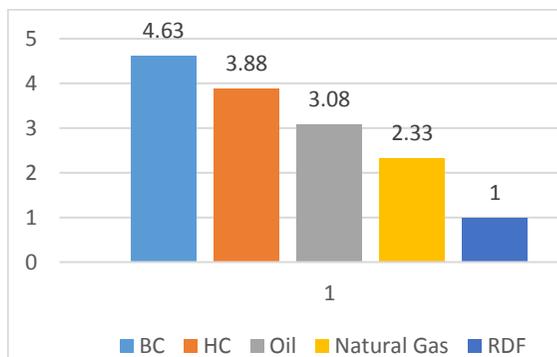
## Drying Boxes

The biological drying takes place in a various amount of bio drying units with manual material infeed and discharge by front end loader or by computer controlled crane for fully automatic systems.

Variable control systems allow the use of the drying units for different applications - composting of organic waste and drying of MSW-.



## Environmental Aspects



- Energy related GHG emissions from RDF are lower than from other fossil fuels
- Utilizing RDF reduces the uses of natural fossil fuels
- GHG emissions from landfills can be eliminated.

Comparison of energy related CO<sub>2</sub>-emissions (generating 1 MW el.)

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