



## A global solution for the reduction of waste

Over the past twenty years the per capita production of municipal solid waste has more than doubled and in the same time frame, the cost of disposing of this waste has increased exponentially.

Disposal of waste is a global problem that requires a global solution.

### Prevention and reduction of pollution and waste

The universally accepted technical solution is to close the waste treatment cycle by utilizing a thermal recovery process, for example, waste-to-energy (WTE) facilities which produce electricity and/or district heating.

However, WTE facilities have several constraints:

They are strongly opposed by residents in the proximity who do not want a WTE plant in their neighborhood (NIMBY).

Many existing WTE facilities require costly pelletizing before use. To avoid such costs, many WTE plants compact recyclable waste after selection to reduce storage costs or send it directly to landfills with the associated high costs for transport and handling.

In order to reduce costs, producers of combustible waste, that find it economically disadvantageous to pelletize its waste are forced to bale it, reducing volume to minimize the landfill costs.

This results in an un-economic waste management system with RDF disposal in a landfill and eventually abandonment of the selection process.

### **The solution lies in a paradigm shift, a new eco-technology and a business model which resolves the dual problems of proximity and land/air pollution.**

**WEST's patented solution** is to equip a container ship or other large merchant vessel with a steam propulsion system driven by an Refuse-Derived Fuel (RDF) fired boiler.

The energy produced by burning the waste would be used for propulsion and to satisfy all of the electrical and thermal requirements of the ship.

The ship becomes a mobile treatment system for thermal recovery, both reducing air emissions and removing them from inhabited areas thus improving environmental security.