



HERITAGE
ECO SOLUTIONS



WASTE**GONE**
Eco Decomposition System

THE ECONOMIC,
INTEGRAL AND
GREEN SOLUTION
TO YOUR SOLID
WASTE PROBLEM

WASTEGONE

Eco Decomposition System

Self sustainable converting waste into resources

Waste is not only an environmental problem, in general it is considered to be an economic loss also. And whether that waste is decomposed or recycled, both alternatives require additional economic resources. The WASTEGONE Eco Decomposition System however not only solves your solid waste problem by converting solid waste into green energy and renewable resources, it's also self sustaining and therefor truly contributes to the circular economy!

Running on waste and air

Without having to segregate, the WASTEGONE decomposes - in the ratio of 1/200 - 1/300 times the input volume - a variety of solid waste: municipal, food, leather, PET, BUTYL, E-waste, paper, plastics, rubber and medical waste. And because the applied 'Oxy-Ion Magnetic Decomposition' technology only requires atmospheric air, no electricity or fuel is required. And on top of that, due to that same innovative technology and 3 wet scrubbers the WASTEGONE emits only clean, non toxic air.

HOW DOES IT WORK?

The decomposition process is ignited by directing a small amount of heated atmospheric air (oxygen) through the strong magnetic field created by the WASTEGONE's own magnet cores in the oxygen starved decomposition chamber.

The heated oxygen absorbed by the strong magnetic field not only generates the required high temperature (200°C - 1200°C), at the same time highly reactive, negatively charged oxygen ions are formed. The heat inside the chamber decomposes the waste. And the highly oxidative oxygen eliminates the dioxins and other harmful compounds, which are a result of the decomposition process, by oxidation.

The emission is then treated through 3 wet scrubbers to bring it well under the norms as required by strict U.S. and European emission regulations.



A source of free green energy and renewable products

The WASTEGONE generates considerable amounts of free green electricity and heat that can be used to realize energy savings or provide entire communities with off grid energy. As a result of the applied technology the WASTEGONE produces also by-products that are of interest to a variety of industries. If mixed solid waste is processed the resulting eco friendly ash can be used as an ingredient of concrete, and bricks. Mixed with water the ash can also be used for improving soil conditions. In case of non mixed solid waste containing a substantial amount of plastics, the WASTEGONE also produces bio-sludge that can be processed into bio fuel/oil.

Affordable, upscalable and relocatable

The WASTEGONE is not only available in a range of waste processing and power generating capacities, the maintenance costs are minimal and it doesn't require highly skilled operators. This solution is therefore affordable to smaller organizations with limited budgets and resources. To meet an increasing waste processing demand the processing capacity can be upscaled easily by placing a second unit next to the first one. And due to its modular and compact design the WASTEGONE can be relocated easily.

Superior to Waste to Energy alternatives

The PLC operated WASTEGONE offers numerous advantages over incinerators and Waste to Energy alternatives. Two comprehensive lists stating its advantages can be found in the document „WASTEGONE vs incinerator and pyrolysis“

