



TESLAENERGY
BLACKHOLE™



1/2 tonnes
Waste Disposal Machine
Manufactured in India

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Who are We

- TeslaGREEN Inc. is a ISO 9001:2015 certified Genentech company based out of Pennsylvania, USA providing low-cost self-sustaining Waste management and Energy solutions. The crux of the technologies at TeslaGREEN Inc. is derivation of energy from The Baryonic matter and converting it into self-sustaining (no external input source of energy required) heat energy with TRUE-ZERO EMISSION. True, because Dioxins and Difurans are dissociated within the controlled chamber and never ever gets into the environment. This Energy is then transformed for various applications including waste management and energy generation.

Make in India Initiative

- The Blackhole Reg. range of Solid waste disposal systems is now being manufactured under the “MAKE IN INDIA” initiative in India by TESLAENERGY Pvt Ltd.



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FEATURES

No Electricity or Oil/Fuel

Plasma Heat Technology

Avoids Land filling

Reduces the volume of garbage in the ratio of 1/200-1/300

Flameless Technology

Environment friendly and adheres to emission norms. (FLAMELESS TECHNOLOGY) which Helps curtail air, soil, and ground water pollution.

No Segregation

No need for segregation

Low Cost & less maintenance

Low Cost equipment with less running cost

Mobility

Compact and easy for mobility

Septic / Poisonous substances

It eradicates all septic /poisonous substances (Hospital Waste/contagious substances/virus & Bacterial material).



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Advantages

- It eradicates all septic/poisonous substances (Example, Hospital syringes, other contagious substances like virus and bacteria).
- The residue that remains after decomposition is ceramic ash, which can be used in the brick making industry or for use in Land filling.
- Is a unique apparatus for garbage disposal which generates a special Magnetic Heat Decomposition method, without using any fuel such as oil or electricity.
- Reduces the volume of garbage in the ratio of 1/200-1/300 and the residue can be used as a by-product for improving soil conditions and can act as a disinfectant, after mixing with water.
- The duration of decomposition depends on the ratio of moistness of garbage. It is recommended the moistness maintained below 30%.
- It has been proven that the Toxic substances put in this system revealed that there was no emission of any toxic nature in spite of processing at low temperature (350 C ~ 380C).
- As compared to the incinerators which operate on high temperatures and require secondary combustion system, requires no such operation and does not require higher temperatures as it has the unique feature of Magnetic Decomposition.
- The system is simple to use and does not require large space to install it and since it does not require any input energy source to run the main equipment, it is a cost effective solution to dispose of the huge amount of waste generated at "Source" thereby reducing transportation costs and avoid burning of garbage and reducing burden on landfills or dumping the waste in landfills and open areas that can damage our environment.
- The system is flameless, and despite dumping material such as PLASTIC/VINYL/and other non-bio-degradable material, its unique wet scrubber and activated carbon filter prevent any poisonous gases from being released into the atmosphere.

Disposal Process

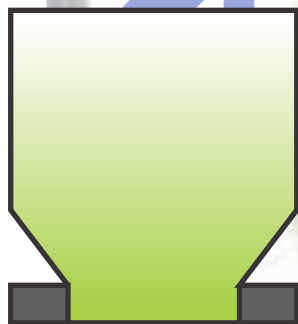


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Input

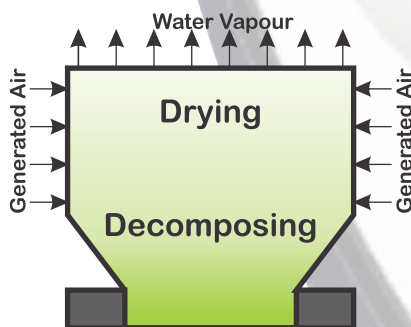
① Input

Waste



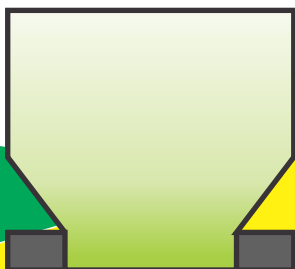
② Decomposition

Drying & Decomposing



③ After Decomposition

Material is Decomposed &
Amount is reduced.
Material is reduced into 1/300



PET BOTTLES

TYRES & TUBES

MEDICAL

PLASTICS

PAPER & PACKING

TRASH / GARBAGE

Output

Output -
2% Ceramic
Ash



Output -
Bitumen



By Products

Ceramic Ash
Used for Tiles, Compost and Land filling

Oil Produced by Plastic
Used for Burnable Flame



Liquid
Used for Land leaves growth

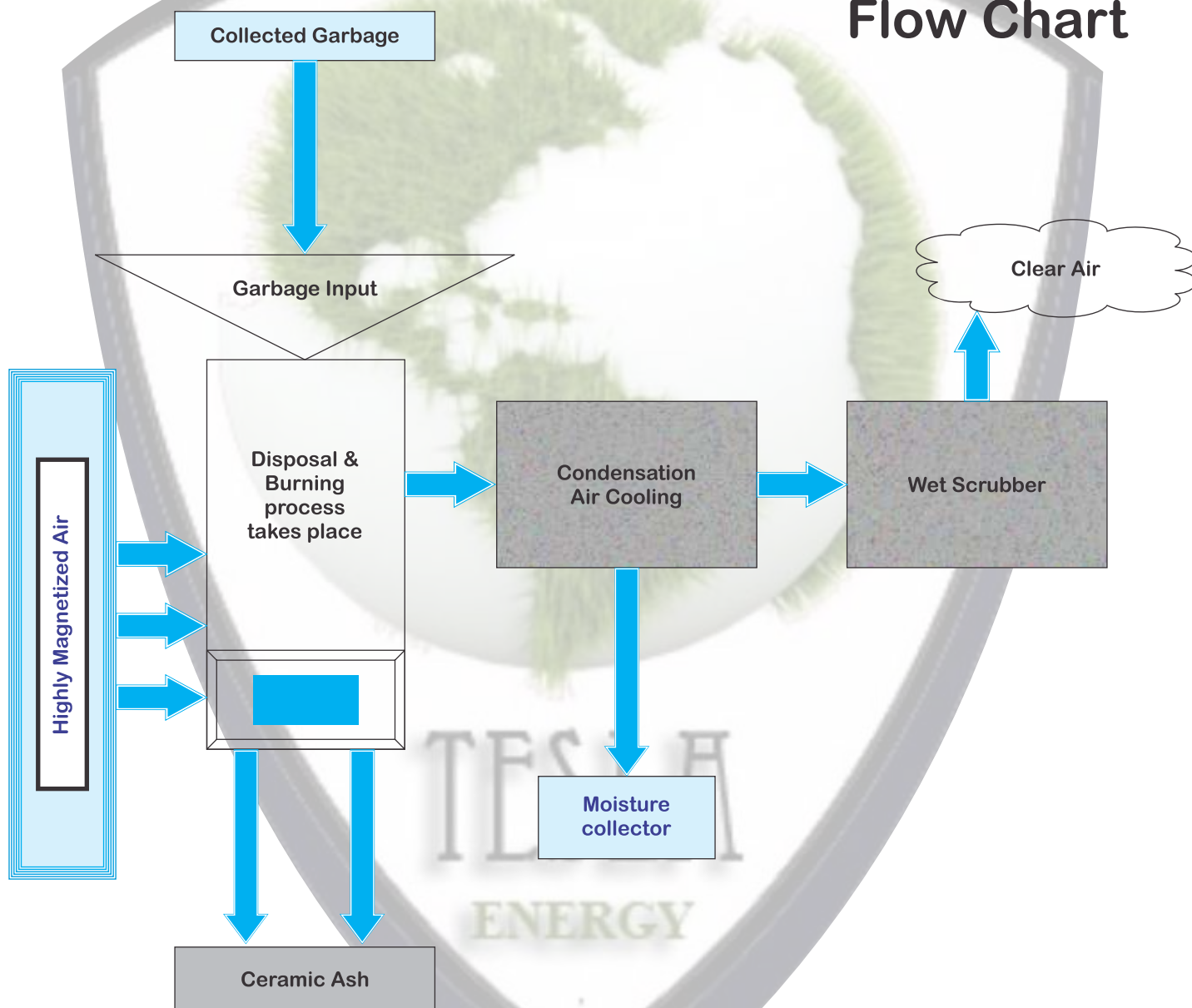
Bricks





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Decomposition Flow Chart





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Technical Specification

Material for disposal	Mixed Solid Waste (MSW)
Material Characteristics	Organic waste with less than 30% moisture. Avoid Watery Liquid MSW Waste
No of feed points	4 - 5 feeds
Temperature	350 - 650 Deg. Celsius
Type of system	MSW Decomposition System.
Area of operation	Non flame proof
Material of Construction	Mild Steel & Stainless Steel Construction
Safety Features	Pressure release valve, Pressure gauge installed
STABILISATION PERIOD: Initially system require min. 1 week time to reach operational stability to obtain optimum output in performance.	

Comparison with traditional methods

	Blackhole	Incinerator
Power	No Power, No Electricity, No Fuel required	Electricity / Kerosene
Temperature	350c - 650c	Over 800c
Method	Plasma Magnetic Heat Decomposition	Flame Combustion
Additional Equipment	Basically No Need	Secondary Combustion System and filters
By-Product	Ceramic Ash	Ash



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Nature of Waste that the BlackHole can treat



Nature of Treatable Waste

Waste Paper

PET Bottles

E-Waste

Municipal Waste

Tyres

Butyl Tubes

Plastic Waste

Food Waste

What Can be Avoided:



What Can Be Avoided?

Garbage Trucks on City Roads

Garbage strewn on roads

Burning Of Garbage on Roads

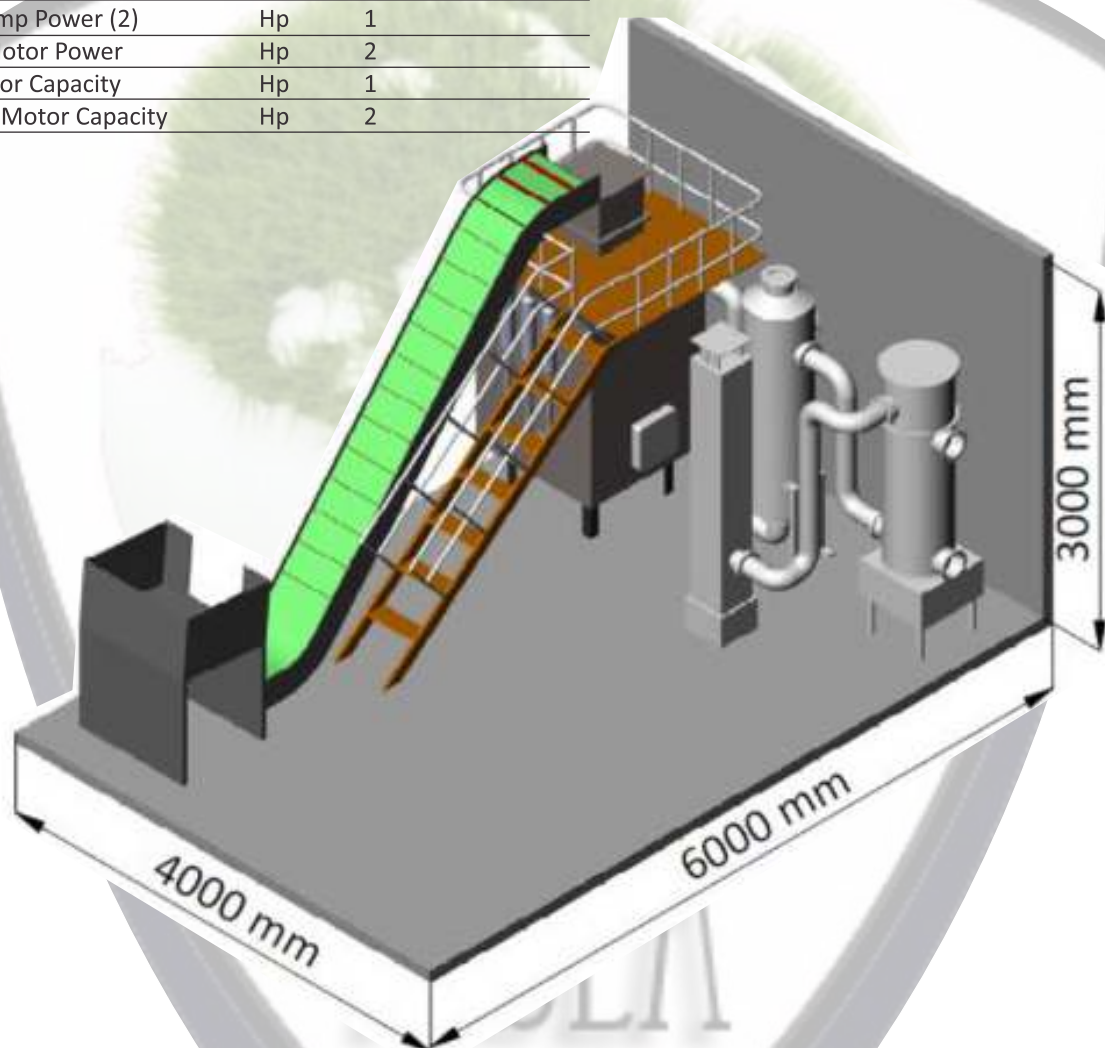
Transportation of garbage to dump yards

Land Fills can be History!!!!



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Specification		
Future Capacity	Ton	1/2
No of Core	-	03
Conveyor Size	mm	400x2800x3500
Loading	-	Automatic
Hopper Door Control	-	Pneumatic
Water Pump Power (2)	Hp	1
Suction Motor Power	Hp	2
Compressor Capacity	Hp	1
Conveyor Motor Capacity	Hp	2



Capacity	1/2 Ton	1 Ton	2 Ton
Physical Size	4000x6000x3000	4000x6000x3000	4000x6000x3000
Feeds Per 1 Hr	1	2	4
Per Feed in Kgs	50	50	50
Ash Produced in KGS / 24 Hrs	35	70	140
Sludge produced in Kgs / 24 hrs	60	120	240



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