



**TESLAENERGY**  
BLACKHOLE™

1000 tonnes  
**Waste Disposal Machine**  
Manufactured in India



**TESLAENERGY**  
BLACKHOLE™



**TESLAENERGY**  
BLACKHOLE™

## 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.



**TESLAENERGY**  
BLACKHOLE™

## 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.

---



**TESLAENERGY**  
BLACKHOLE™

## 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

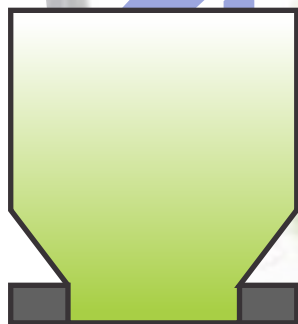


**TESLAENERGY**  
BLACKHOLE™

**Input**

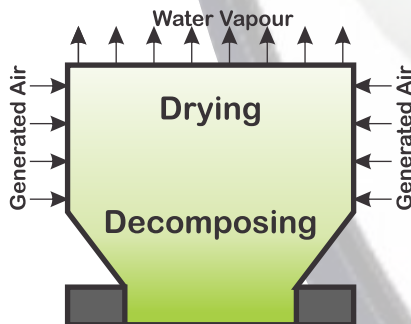
**① Input**

Waste



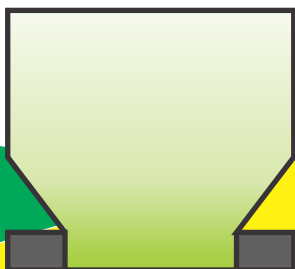
**② Decomposition**

**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**

**Example**

1,000 Kg Mixed Waste

Process time 24hrs

Residual

20 Kg Dry Ionic Ash

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

The Magnetized [Ash]



The ash reacts  
to the magnet.



Liquid

Used for Land leaves growth

The effect of weeding [liquid]



Bricks





**TESLAENERGY™**  
BLACKHOLE™

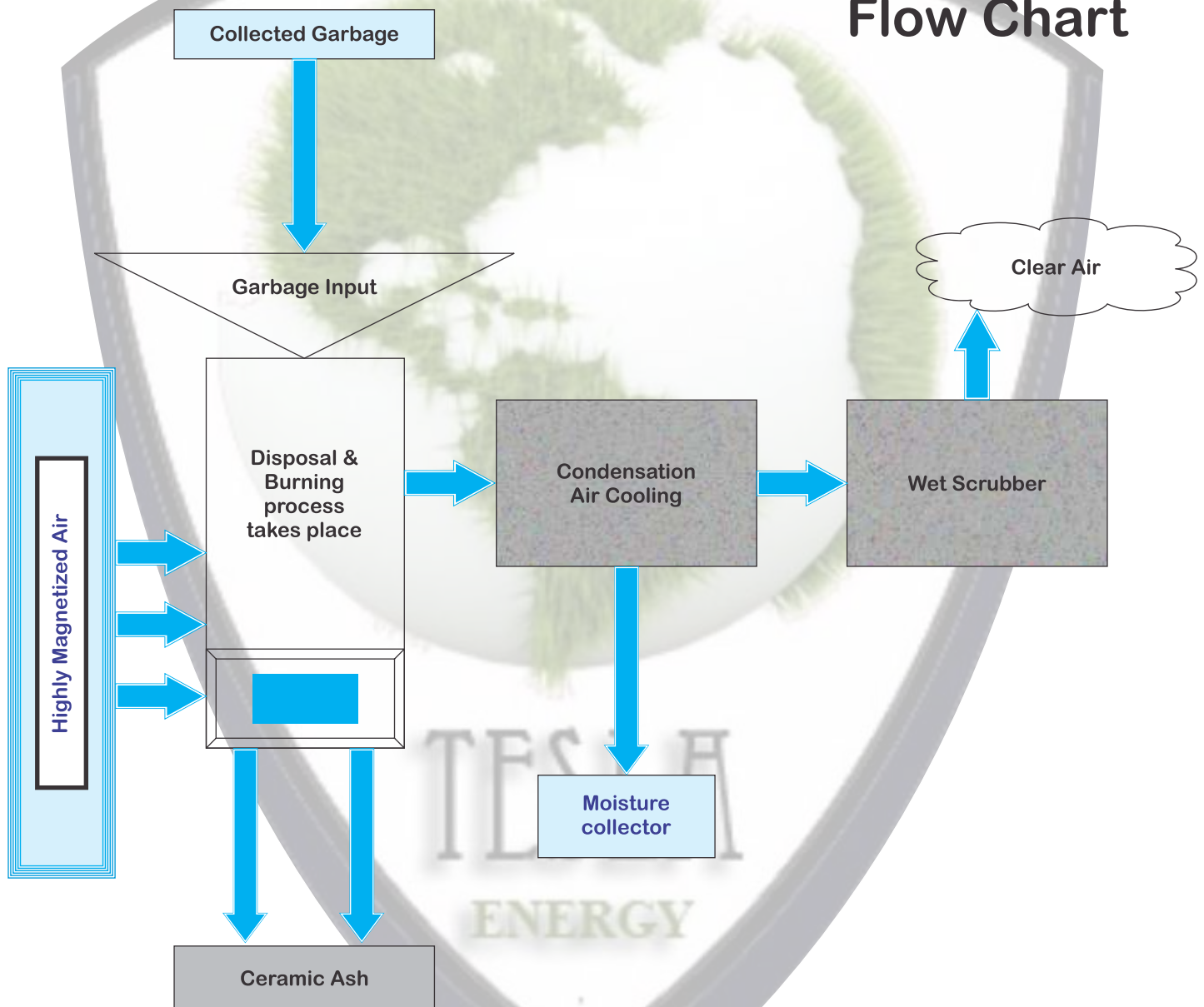
## Waste to Energy Comparison

Waste to Energy	LaTierraENERGY™
Energy generation depends on the calorific value of the waste	Energy generation doesn't depend on the calorific value of the waste
Not all type of waste can generate electricity	Any type of waste can generate electricity
Energy generation is not consistent and less efficient	Energy generation is consistent and very efficient
Minimum 500 MT OF MSW is needed	Energy can be generated with any volume
Segregating the waste in terms of higher calorific value is a challenge	Segregation is not required
Additional fuel or electricity is necessary to run the plant	Additional fuel is not required
Adopts Combustion Technique for decomposition	Adopts advanced plasma heat decomposition method
Operated at very High temperature	Operates at low temperature
Fuel is required to run the system	No fuel is required to run the system
Non self sustaining system	Self sustaining system – No looping
Operates with flame and fire combustion	Operates without flame and fire combustion
Output varies based on type of waste and weather	Zero variability on any type of waste and weather
Space required for the plant is enormous	Space required is minimal
Due to the low calorific value the results are not constant and uncertain	The results are constant and feasible
Maintenance of the plant are extensively High	Maintenance of the plant are relatively low
The operational cost are very high	Operational cost are low
Requires supporting operations, staffing machineries	Doesn't require supporting operations, staffing and machineries
More wear and tear	Minimal wear and tear
Causes more dioxins and furans	All the dioxins and furans are killed within the system and hence emission free
Lack of short term returns due to uncertain results	Relatively short term results are possible due to definite results
Odour, Noise, cost and maintenance involved	Odour free, Noise free and maintenance free



**TESLAENERGY**  
BLACKHOLE™

## Decomposition Flow Chart





**TESLAENERGY**  
BLACKHOLE™

## 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





**TESLAENERGY**  
BLACKHOLE™

## 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?**

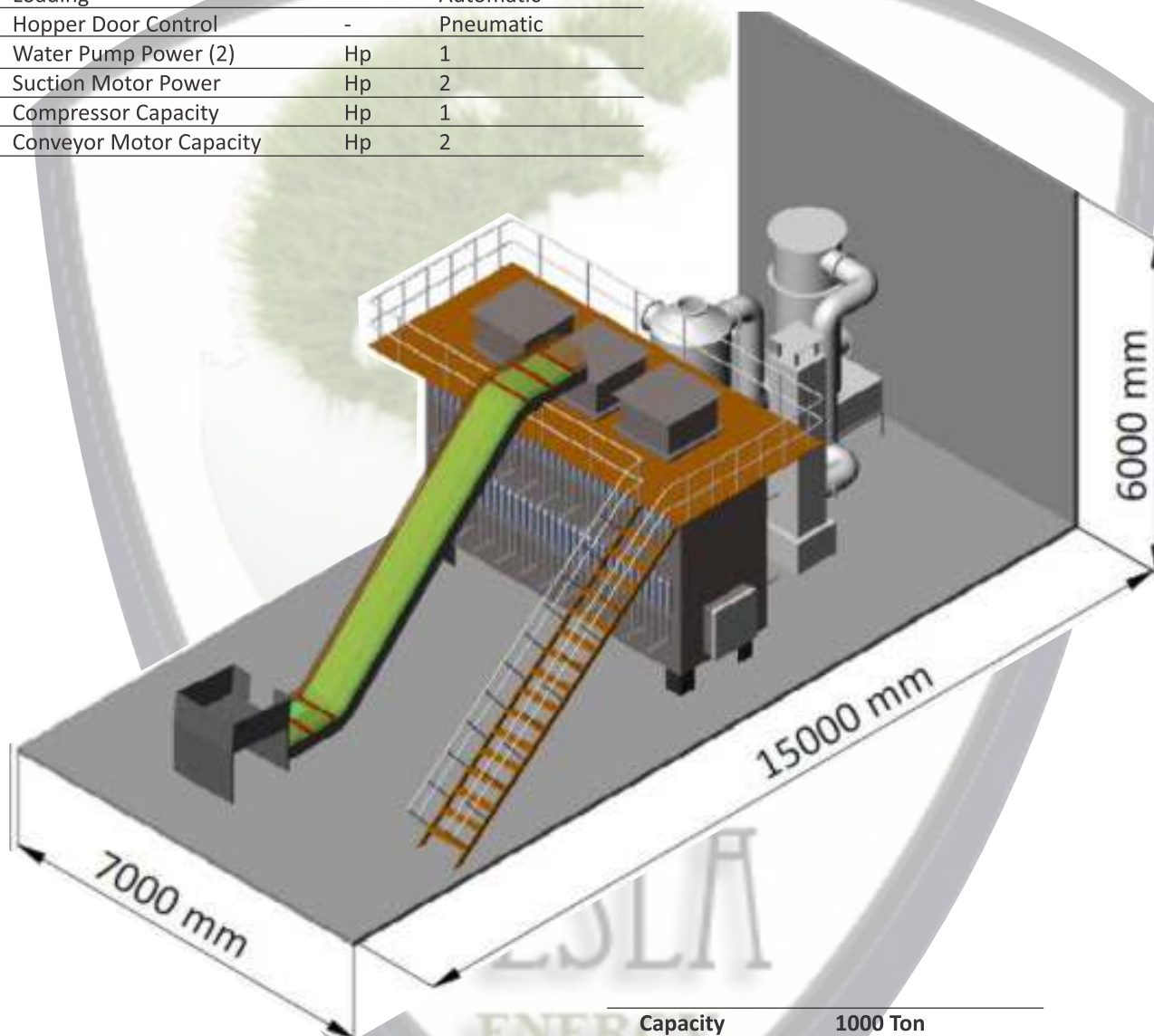
Garbage Trucks on City Roads  
Garbage strewn on roads  
Burning Of Garbage on Roads  
Transportation of garbage to dump yards  
Land Fills can be History!!!!



**TESLAENERGY™**  
BLACKHOLE

#### Specification

Future Capacity	Ton	1000
No of Core	-	132
Conveyor Size	mm	800x6000x7000
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



<b>Capacity</b>	<b>1000 Ton</b>
Physical Size	7000x1500x6000
Feeds Per 1 Hr	3
Per Feed in Kgs	15000
Ash Produced in KGS / 24 Hrs	75000
Sludge produced in Kgs / 24 hrs	120000



**TESLAENERGY™**  
BLACKHOLE™

## **OUTPUT**

### **ENERGY FROM WASTE PLASTICS**



### **CEMENT BLOCKS FROM ASH**



### **ELECTRICITY**





**TESLAENERGY**  
BLACKHOLE™

**Corporate Address :**

**M/s TESLA GREEN INC.**

514E Lancaster Ave.,  
Wynnewood, PA-19096  
[www.teslasgreen.us](http://www.teslasgreen.us)

**Channel Partner :**

**M/s TESLAENERGY PVT LTD.**

1269, 1st Block, BEL Layout,  
Vidyaranyapura,  
Bangalore - 560 097  
[mail.teslaenergy@gmail.com](mailto:mail.teslaenergy@gmail.com)  
[www.teslasgreen.us](http://www.teslasgreen.us)