



Awarded The Environmental

Solution 2020







ISO 14001: 2015



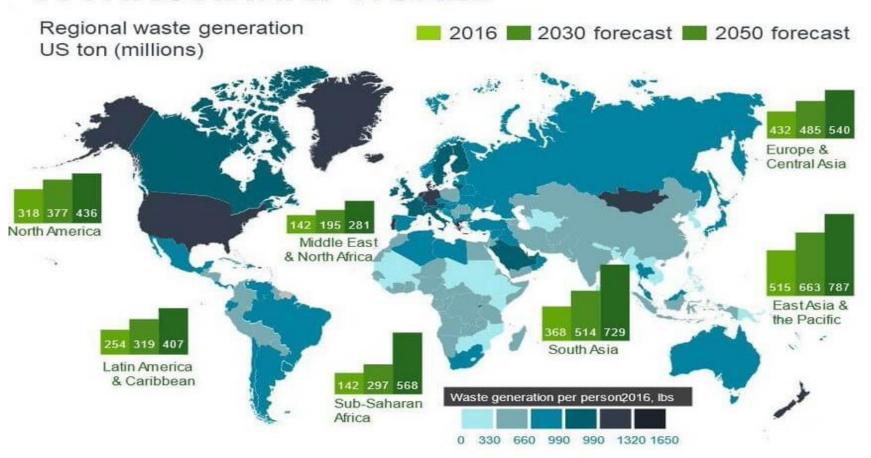


Awarded The Malaysia International Trade and Industry Award 2020

INTRODUCTION



A THROWAWAY WORLD



11

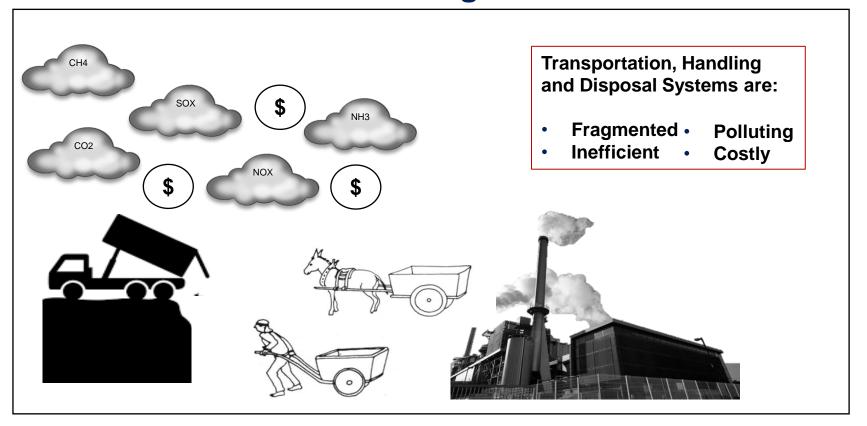
There is no such thing as 'away.' When we throw anything away, it must go somewhere



PRESENT



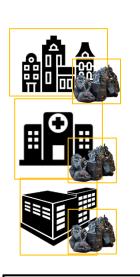
While waste is a problem, a bigger problem is the way it is managed.

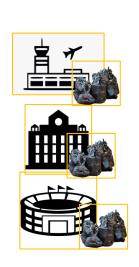


THE PRESENT



WASTE MANAGEMENT SYSTEMS ARE INEFFICIENT













Landfills

- x Toxic Leachate
- x Acid Rain & Methane
- x Pandemic & Diseases
- x GLOBAL Warming & Climate Change
- x Pollution & Odour
- **x** Groundwater Contamination
- **x** Land Degradation
- x Wildlife Extinction



THE DISRUPTION



HEALING THE PLANET



NO LANDFILLING. NO INCINERATION

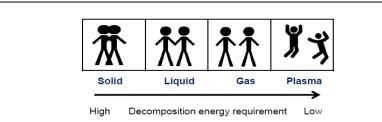
THE TECH



Plasma: The Fourth State of Matter

Plasma is superheated matter – its matter has heightened heat that causes the electrons to be detached from the atoms and as a result, forms ionized gas. It comprises over 99% of the visible universe.





Future-Proof Emissions

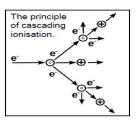
Process gases require particle removal and gas cleaning prior to emission.

The system treats both contaminants in a one-step process unlike the complex multiequipment filtration processes employed today.

Gases treated:

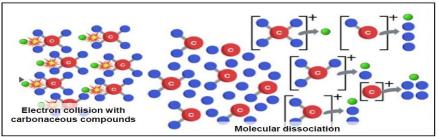
- Acid gases (HCl, HF, H2SO4, HNO3)
- Sulfur dioxide (SO2)
- Ammonia (NH3)
- Hydrogen sulfide (H2S)
- Chlorine gas (Cl2)
- Carbonvl sulfide (COS)
- Silicon dioxide (SiO2)
- Metal oxides
- Heavy metals (mercury and chromium)
- · Many other types of particulates and gas.

Inside the ClearWaste Plasma Reactor



Inside our ClearWaste Plasma Reactor

Billions of free-flowing electrons generated via cascading ionisation create a state of highly energised and infinitely electromagnetically conductive plasma. These energy-rich electrons collide at high speed with the carbonaceous input, molecularly dissociating and thermally disintegrating the compounds into elemental fragments that are reconstituted into stable and inert gas and slag residue.



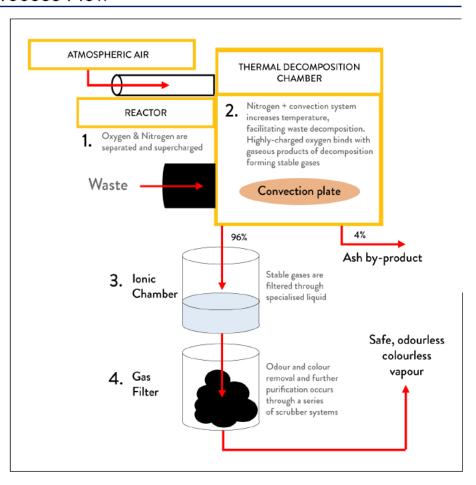
80% cleaner emissions than EU and EPA standards.

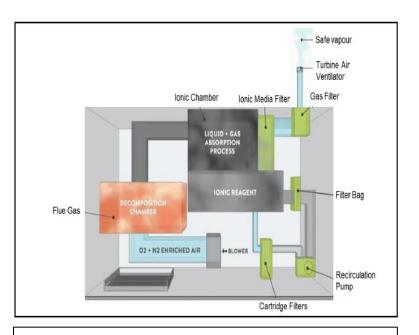


THE PROCESS



Process Flow





- ✓ Upto 1400 °C Temperature
- √ Clean Emissions
- ✓ Low Pressure-safe operation
- √ No Secondary Waste

Refuse what you do not need; Refuse what you do not need; Reduce what you do need; Reuse what you consume; Recycle what you cannot refuse, reduce, or reuse; and rot (compost) the rest.

~ Bea Johnson

FEATURES



Key features



No Fossil fuel.



No harmful emissions.



Compact & modular.



Mobile.



Plug & play.



Safe & user-friendly.

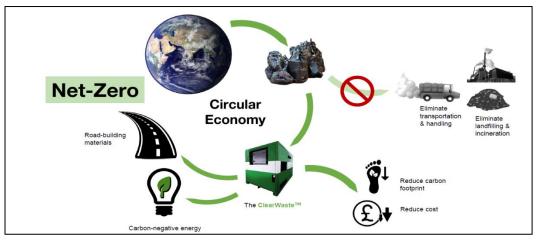


24/7 operation and Remote Monitoring.



Real-time emissions monitoring system.

ClearWaste™ CIRCULAR ECONOMY



- ✓ Circular Economy
- ✓ Clear Air
- ✓ Improved Life Expectancy
- ✓ Restoring Nature

WHY ClearWaste™?



ClearWaste™ treats TRASH into ASH.





- PATENTED product
- World Class QUALITY
 - FAST Delivery
- Certainty of TIME & COST

ClearWasteTM is already Trusted and Used by



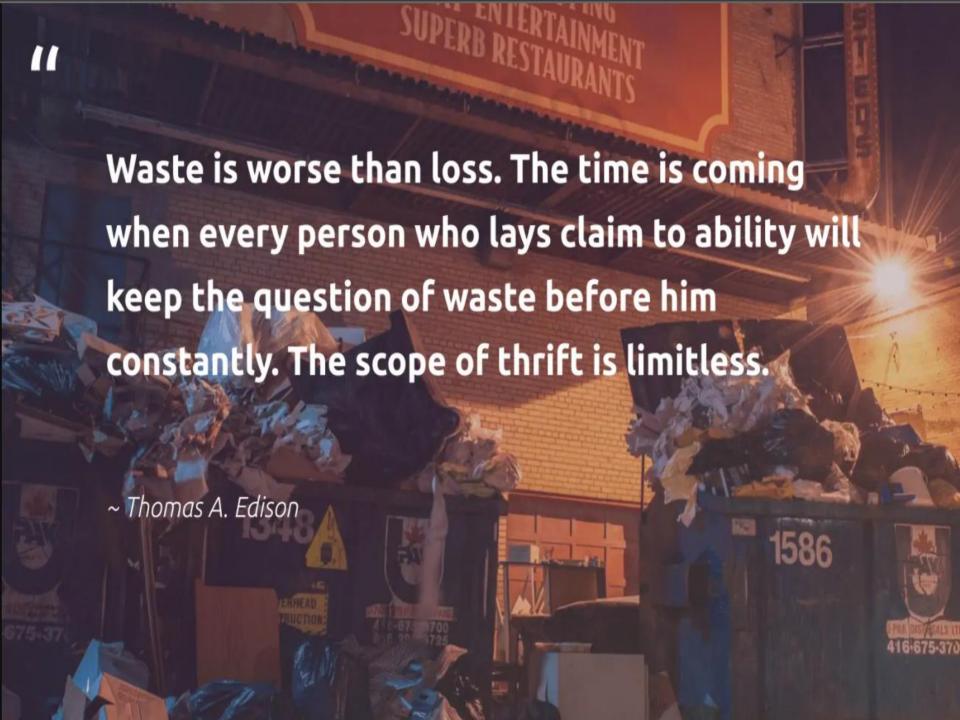
BMC-Mumbai
The LARGEST in the world



GCC-Chennai
The OLDEST outside the UK



DMC-Dhaka
The DENSEST in the world



APPLICATIONS





Municipal Waste



Industrial Waste



Agricultural Waste



Medical Waste



Municipalities



Hospitals & Clinics



Airports & Seaports



Electronic Waste

Livestock Waste



Tannery Waste



Textile Waste



Hazardous Waste



Waste Transfer Stations



Schools & **Universities**





PPE Waste



Plastic Waste



Marine Waste

Stadiums & Arenas

ECOSYSTEM



MANUFACTURING



Millennium E&C (M) Sdn Bhd's world class fabrication facility is a ASME U-Stamp certificate facility with over 60 years of experience of highquality fabrication.





Research & Development



Cranfield University

Energy generation solutions



Universiti Tunku Abdul Rahman Upcycling of ash into construction materials



Pothole repair



Carparks



Roads



Organic Rankin Cycle (ORC) Engine

Generates electricity

Runs on renewable energy from the ClearWaste





Steam for **BOILER**



MUMBAI



LANDFILL DIVERSION FOR PLASTIC WASTE











CHENNAI



MOBILE WASTE MANAGEMENT











DHAKA



COMMUNITY BASED WASTE MANAGEMENT







MALAYSIA



BIO-HAZARDOUS CLINICAL WASTE TREATMENT













