

CERTIFICATE OF ACHIEVEMENT

INDUSTRY EXCELLENCE
The Certificate is Proudly Awarded to

GS Clean Energy Pte Ltd

Eco Waste Management System

For their Outstanding Solution in the World of Safety and Health Asia Award 2023

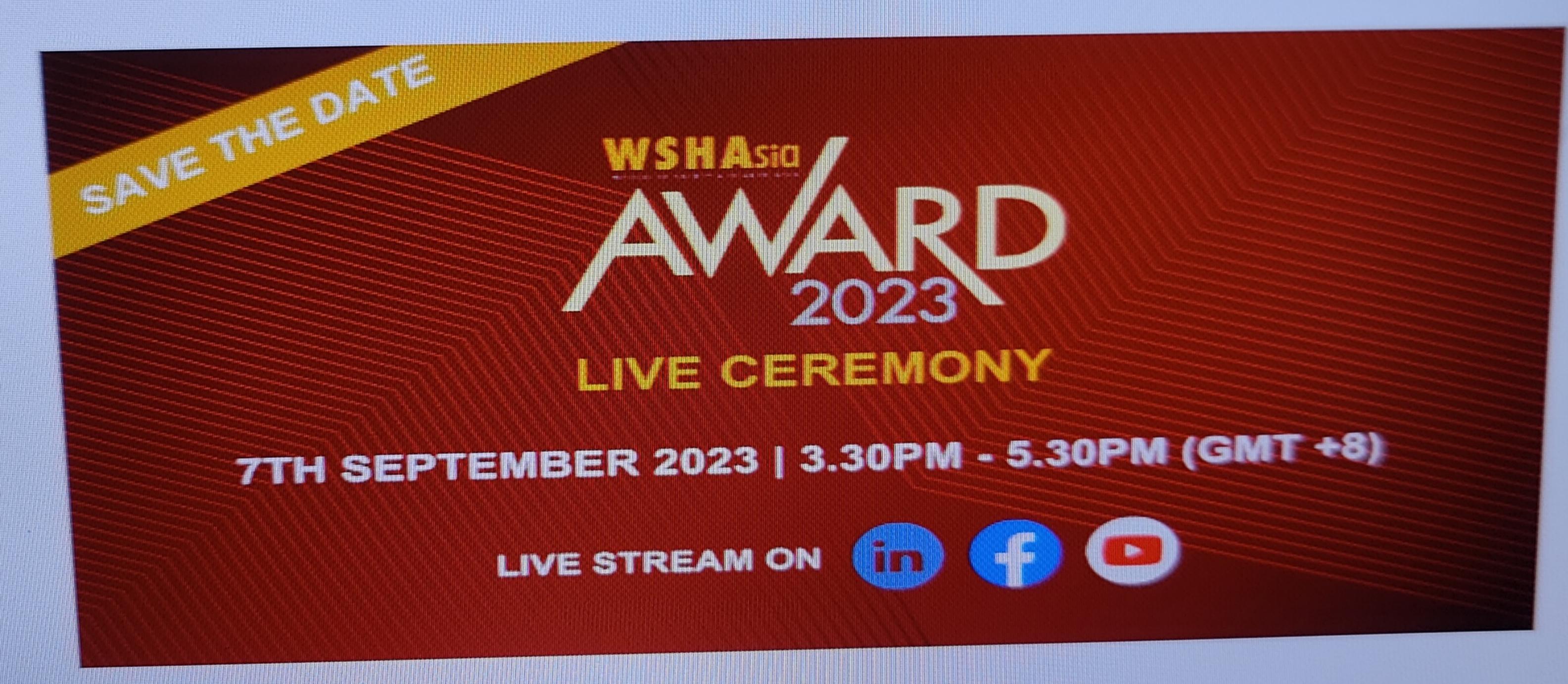
Organised by World of Safety and Health Asia to recognise excellence within the industry based on new and innovative solutions that improve workplace safety and health.

Raymond Wat

Founder of the World of Safety and Health Asia



Our Awards Ceremony is taking place on 7th of September 2023!



why you should Join Us

1. Exciting Giveaways: Attend this live ceremony for a chance to win safety-related products! We



Eco Waste Management System







Eco Waste Management System offers an efficient and commercially viable, eco-friendly, permanent solution to waste management. This new, state-of-the-art technology does not require any input energy source like fuel or electricity, to manage the waste.

EWMS Technology is flexible in handling different types of waste. In the Philippines, the technology will be used to process residual municipal solid waste in compliance with Republic Act (RA) 9003. It also has the capacity to process bulky wastes such as used tires, PET bottles, plastic bags and Styrofoam.

DISPOSAL PROCESS





HOW ECO WASTE MANAGEMENT SYSTEM WORKS?

- Waste is fed into the chamber of the equipment at uniform intervals. During the commissioning process an initial start ignition is done using camphor/dry-wood, destruction starts slowly by splitting the molecules into atoms. Further ionization of atoms into electrons, protons and neutrons is called the "ionization state". Acceleration of electrons creates a strong energy which increases and maintains the heat in the chamber.
- On the other side a small amount of atmospheric air is allowed to pass through a strong magnetic field into the oxygen starved chamber. During this operation, oxygen molecules split into elemental oxygen having a negative charge. This atomic oxygen will oxidize the perfectly organic surface and change organic matter into desperate organic oxide. This reaction is induced by exothermic phenomenon, creating a thermal condition of +/- 200°C accelerating a reaction which will create initial decomposition.
- Upon achieving 200°C (by initial firing), then accelerating to 500-1000°C through magnetized ionization, a thermal vibration will be achieved.
- The decomposition of waste takes place stack wise so that the heat energy generated will be continuous. Located at the bottom of the destruction chamber is a tubular type radiator positioned near the lower layer of the equipment where ash gets deposited and separated. The waste heat is recovered through a tubular heat sink arranged near the upper layer of the deposited ash of a hearth center section of said decomposition chamber and said hearth periphery. This entire structure will support heat transfer, recovering the waste heat and applying it back to the wet waste, thus reducing the moisture content dramatically.
- The flue gasses emitted from the decomposition chamber is released by induced draft. The emission may contain some toxic components like dioxin and furan, heavy metals, nitrogen oxides, etc., which are treated by the 3 stage wet scrubber and activated carbon filters, containing and reducing emissions to achieve the prescribed norms.

BENEFITS & SAVINGS

- De-Centralizes handling of waste
- **Reduces Transportation Costs**
- Avoids Open Burning of Garbage
- Reduces burden on Landfills
- Phases Out Landfills with Zero Waste
- Saves the Environment from Air. Soil. Ground Water Pollution

TYPES OF WASTE

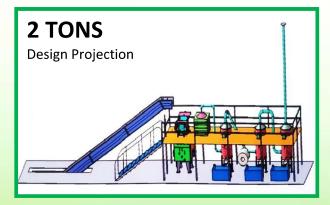
- Waste Paper
- Food Waste
- Tires & Tubes
- Plastic Waste
- Municipal Waste
- Hospital Waste (Special Machine)

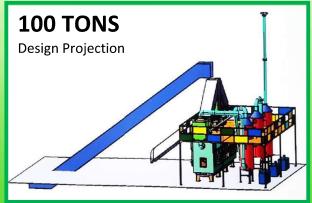
FEATURES

- NO ELECTRICITY, NO FUEL, NO BURNING, SELF-SUSTAINING: Magnetized ionization technology is used. The system doesn't need the combustion process, neither electricity nor fossil fuel is used.
- **US TECHNOLOGY:** System is based on United States design and process.
- PROCESS AT MAGNETIZED STATE: After initial start-up fire, destruction starts slowly by splitting the molecules into atoms. These atoms are further ionized as electron, proton and neutron and this state is called "magnetized ionization stage".
- SMALL FOOTPRINT: A small amount of floor space is required to support the system, this is based on the Unit Size and should be located in close proximity to the Unit.
- QUICK & FAST: Decomposition of waste takes place at a fast rate, within 1-1.5 hours a per load of waste.
- US TECHNOLOGY: The Eco Waste Management System works on a Programmed Magnetized Oxygenated State that eliminates any and all kinds of environment pollutants
- AVOIDS LANDFILLING AND DUMP YARDS Reduces the volume of MSW in the ratio of 1/200-1/300 times the input waste
- LOW COST & LESS MAINTENANCE: Low capital expenditure with minimal running cost
- MOBILITY: Compact & Easy for Mobility
- **ENVIRONMENT FRIENDLY**

Helps conserve the Environment by adhering to emission norms; also helps curtail Air, Soil & Ground Water Pollution: Any non-segregated Municipal Solid Waste (MSW) can be handled effectively.







WARRANTY

- One (1) Year Warranty on Parts and Services.
- Annual Maintenance Contract required.
- The solution provider will provide training for buyer's personnel on how to operate "Eco Waste Management System.



Eco Waste Management System

Available in the following capacities:

2 Ton Capacity per Day

5 Ton Capacity per Day

10 Ton Capacity per Day

20 Ton Capacity per Day

25 Ton Capacity per Day

40 Ton Capacity per Day

50 Ton Capacity per Day

60 Ton Capacity per Day

80 Ton Capacity per Day

100 Ton Capacity per Day

(Capacity calculated on a 24 Hour basis)

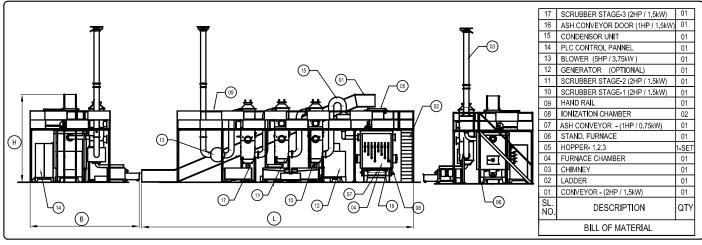
For more inquiries, please visit or call us:

Lok Tuck Kong

WhatsApp: +65-91498562 / +65-93675494

All countries inquiries are welcome.

Equipments & Products



ECO WASTE MACHINE

SL. NO.	SL SPECIFICATION									
01	MODEL	- 2 TON	- 5 TON	- 10 TON	- 20 TON	- 40 TON	- 60 TON	- 80 TON	- 100 TON	
02	LxBxH OF CHAMBER	1.5x1.5x2 m	1.5x1.5x2m	2x1.5x2 m	2.5x1.5x2 m	3x1.5x2 m	4.5x1.5x2 m	6x1.5x2 m	7.5x1.5x2 m	
03	BASE CLEARANCE	350 mm	350 mm	350 mm	350 mm	350 mm	350 mm	350 mm	350 mm	
04	MINIMUM HEIGHT	5.5m	5.5m	5.5m	5.5m	7.25m	7.25m	7.25m	7.25m	
05	DECOMPOSITION CAPACITY	2T	5 T	10 T	20 T	40 T	60 T	80 T	100 T	
06	DECOMPOSITION METHOD	OXY-ION MAGNETIC DECOMPOSITION								
07	MANUAL / AUTOMATIC	BOTH AVAILABLE								
08	No of CORES	8 APROX	16 APROX	22 APROX	26 APROX	36 APROX	46 APROX	74 APROX	74 APROX	
09	POWER REQUIRED	13 kW	13 kW	13 kW	13 kW	15 kW	19 kW	19 kW	19 kW	
11	No of HOPPERS / SIZE	1 / 0.8m x 0.8m	1 / 0.8m x 0.8m	1 / 0.8m x 0.8m	1 / 0.8m x 0.8m	2 / 0.8m x 0.8m	2 / 0.8m x 0.8m	3 / 0.8m x 0.8m	3 / 0.8m x 0.8m	
12	MONITORING SYSTEM	PLC BASED								
13	LxBxH OF MACHINE FLOOR	15.5mx6.5mx5 m	15.5mx6.5mx5 m	16mx6.5mx5 m	17mx6.8mx5.5m	17.5mx6.8mx7m	17.5mx7mx7m	15mx7.5mx7m	16mx10.5mx7.5m	
14	EMERGENCY STOP FEATURE	AVAILABLE								
15	HAND RAILS FOR SAFETY	AVAILABLE								
16	ELECTRICAL SYSTEM	3 PH, 380V / 440V SPECIFIC TO COUNTRY REQUIREMENT								
17	POWER REGENERATION						OPTIONAL	OPTIONAL	OPTIONAL	
18	DUTY CYCLE - 24hrs	CONTINOUS								
19	LOADING CYCLE TIME	2-3hrs DEPENDS ON CALORIFIC VALUE OF WASTE								
20	LOADING TYPE	AUTO / MANUAL CONVEYOR								
21	WASTE HANDLING	DEPENDS ON THE CUSTOMER								
22	PLC CONTROLED BUILT-IN DOORS FOR OPEN & CLOSE	AVIALABLE								
23	MANLESS HANDLING OF ASH	SCREW TYPE CONVEYOR AVALIBLE								
24	SURFACE PROTECTION	HEAT RESISTANT PAINT PROTECTED WITH REFRACTION BRICKS AND CERMIC WOOL,								
25	MATERIAL	AS PER DIMCO COMPANY STD								
25	SAFETY INSTRUCTIONS	PLACARDS DISPLAY								
26	OPERATIONAL INSTRUCTIONS	PLACARDS DISPLAY								
27	MAINTAINANCE INSTRUCTIONS	PLACARDS DISPLAY								
28	DO 'S & DONOT'S	PLACARDS DISPLAY								
29	EMMISION CONTROL MONITOR	WET SCRUBBER 3-Ø0.8m x 3.4m			WET SCRUBBER 3-Ø0,8m x 3,4m	WET SCRUBBER 3-Ø0.8m x 3.4m		WET SCRUBBER 3-Ø1.2m x 3.4m	WET SCRUBBER 3-Ø1,2m x 3,4m	
30	SUCTION BLOWER	5 HP / 3.7KW	5 HP / 3.7KW	5 HP / 3.7KW	5 HP / 3.7KW	7.5HP / 5.6KW	7.5HP / 5.6KW	10HP / 7.45KW	10HP / 7.45KW	

SALES AND SERVICE BY

NOTE: SPECIFICATIONS MAY CHANGE WITH OUT INTIMATION FOR CONTINOUS IMPROVEMENT.

MANUFACTURER	DISTRIBUTED BY
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