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ABOUT US



ENBIO.Co.Ltd is bio-technology company from Korea, which developed innovative and eco-friendly wastewater treatment technology and system. The system has enabled the complete biodegradation of organic waste through special microorganisms and specialized system developed and patented by the company, which results in clean, reusable water with no discharge.

Through pioneering products such as self-recycle flush toilet and wastewater treatment & reuse system, ENBIO is working hard to help save water resource, prevent pollution and recover our environment.

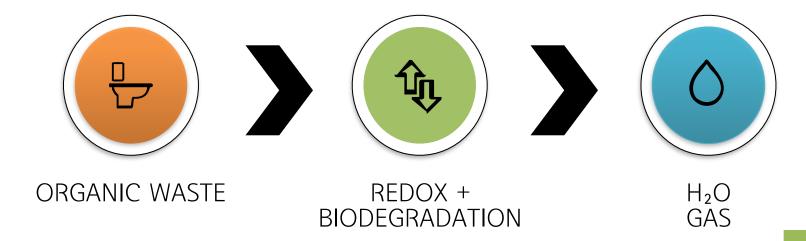




complete biodegradation of organic waste

Zero system is innovative and eco-friendly wastewater treatment system through Enbio's own developed special mixture of microorganisms and specialized system to multiply these special microorganisms' natural ability to completely biodegrade the organic waste.

All the organic waste in the wastewater breaks down into water (H_2O) and gas (CO_2 , N_2 ,etc) through biodegradation and redox process. There is no sludge!





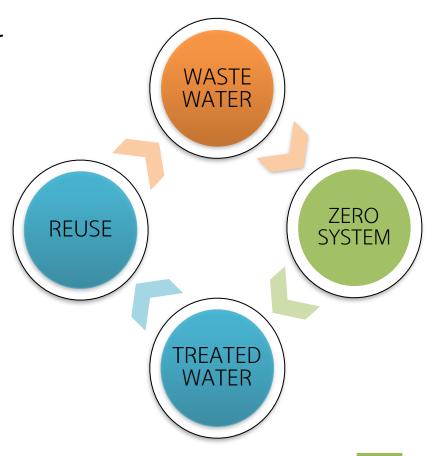
no water discharge system

reusing the treated water

Zero system treats wastewater and enables the **treated water to be** reused continuously without any discharge.

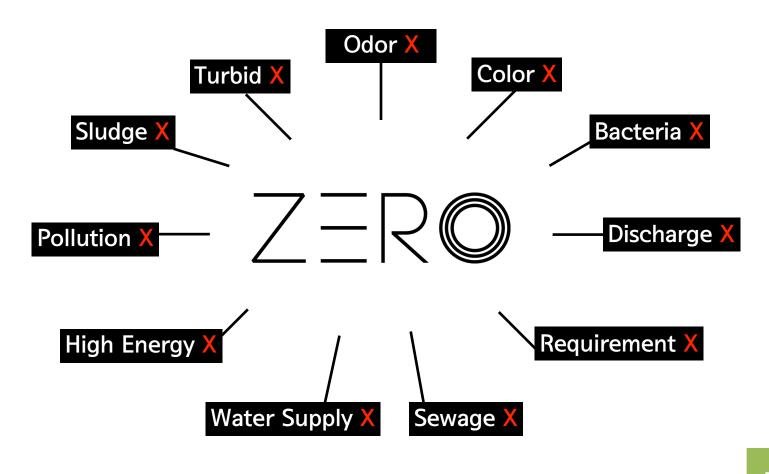
This no water discharge system not only saves water resource and help the water scarcity issue over the world, it also prevents environmental pollution from discharging pollutants out to the nature.

no pollution, save water!



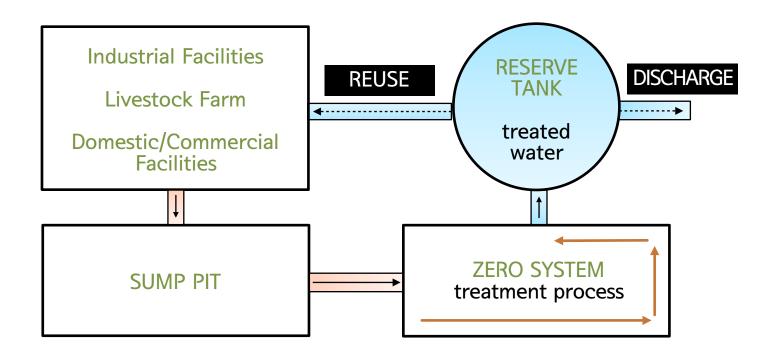


all these are **ZERO!**





BASIC FLOW CHART





PATENT IN KOREA, JAPAN, PCT APPLIED







ZERO SYSTEM FOR LIVESTOCK MANURE

innovative livestock manure treatment & recycle system FROM MANURE TO CLEAN WATER

- Zero system for livestock manure is optimized for livestock manure and wastewater treatment and reusing the treated water without water discharge (discharge also possible).
- Because the organic waste is completely biodegraded, there is absolutely no odor, no color, no sludge, no extra supply of water. Hence there is no need for extra collection process or cost for sludge.
- Other methods have not perfected in solving problems such as odor and sludge and livestock industry needs new solution for stricter discharge guidelines for wastewater discharge.
- Zero system perfectly solves these problems and prevents environmental pollution from source and saves water resource.
- Treated water from Zero system can be reused for drinking water for livestock, cleaning purpose, etc.



KEY BENEFITS

incomparable effects, benefits and cost!



ECO-FRIENDLY



EFFECTIVE



EFFICIENT



ECONOMIC

prevent environment pollution

no sludge

save water resource

no chemicals used

no color

no odor

no harm

no waste

automatic

compact design

can assemble at the site

economic price

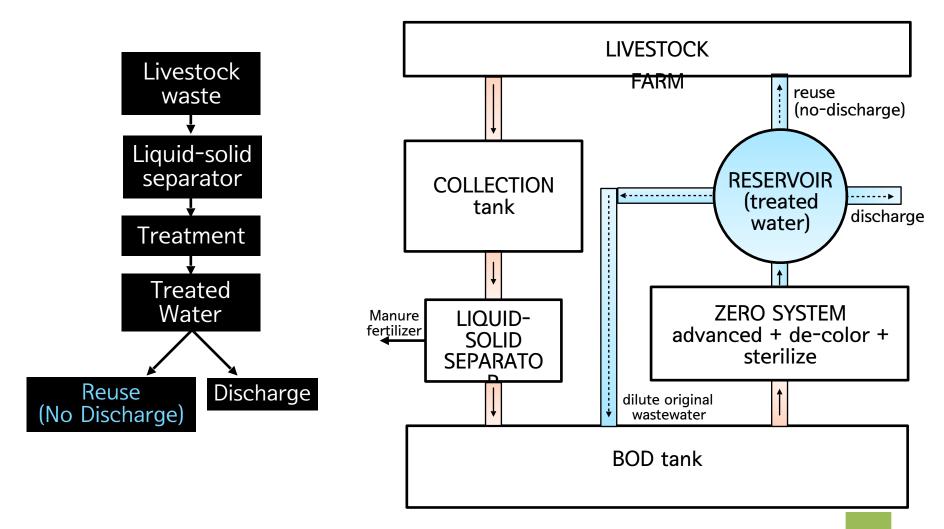
no water supply or sewage

no need to pickup sludge

energyefficient



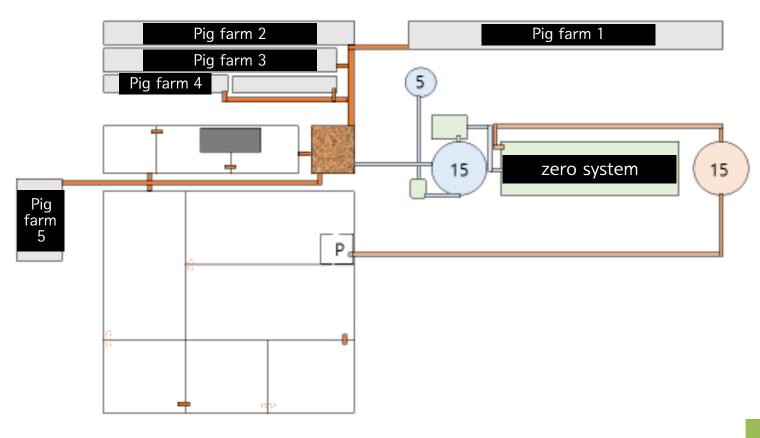
FLOW CHART





APPLICATION (KOREA)

ZERO SYSTEM Plot Plan for 1400 pigs in Kyungsan, Kyungbuk, Korea





TREATED WATER ANALYSIS

ZERO SYSTEM treated water test result from Korea & Vietnam

| item | Result | |
|---------------|--------|---------|
| | Korea | Vietnam |
| BOD (mg/L) | 3 | 2.5 |
| COD (mg/L) | 12.4 | 2.9 |
| SS | 5.5 | 4.8 |
| T-N (mg/L) | 11.6 | 12.037 |
| T-P (mg/L) | 8.82 | 9.077 |
| PH | - | 7.1 |

Test results show the Zero system treated water not only passes discharge guidelines but also safe for reuse.



4 PURPOSES & TYPES

ZERO SYSTEM is custom built according to the treatment amount per day

- 1. Livestock wastewater Treatment & Recycle System (ZP)
- 2. Deodorization of Liquid Fertizlier (ZP-1)
- 3. Deodorization of Manure Fertilizer (ZP-2)
- 4. Adding advanced treatment or upgrading the previous treatment system (ZP-3)





TYPE (1)

Livestock wastewater Treatment & Recycle System (ZP)

- For reuse of treated water from zero system so there is no discharge and saves water
- Can also apply for discharge permit to discharge

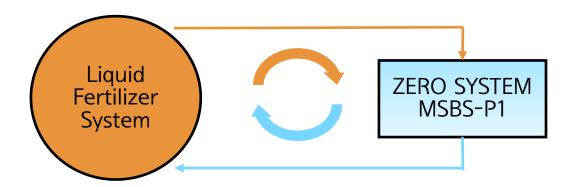




TYPE (2)

Deodorization of Liquid Fertizlier (ZP-1)

breaking down the odor (liquid treatment)

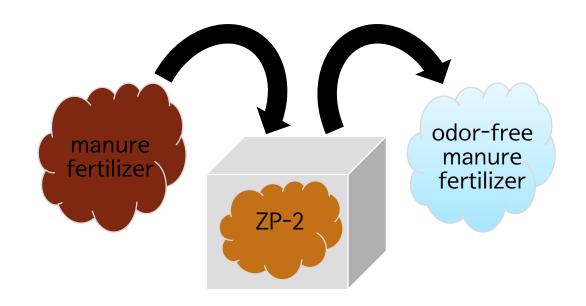




TYPE (3)

Deodorization of Manure Fertilizer (ZP-2)

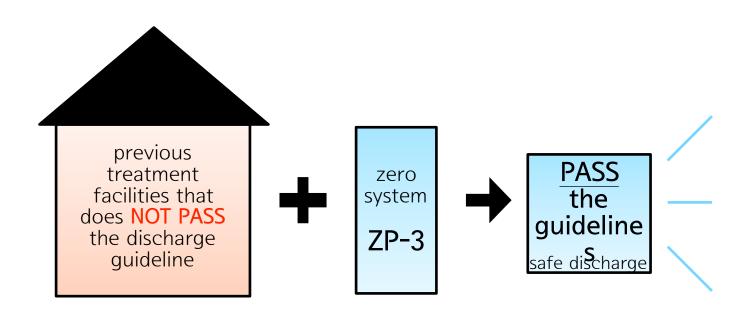
breaking down the odor (solid treatment)





TYPE (4)

Adding advanced treatment or upgrading the previous treatment system (ZP-3)



already have treatment system that does not meet the discharge guideline? simply attached zero system to bring treated water quality up to pass the quideline



PHOTOS





