

# Innovation and Revolution of China's ECO Toilet

-----Brazil, November 2019-----

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**Thank Trata Brasil for hosting the event in Sao Paulo Brasil.**

**Thank World Toilet Organization for organising World Toilet Summit in the past 19 years.**

**I thank everyone for giving me an opportunity to participate and speak at the conference.**

# Chinese President Xi Jinping Investigates ECO Toilet



From June to December 2019, China's ECO toilets have been installed in over 30000 units in various regions of China, covering various harsh environments such as arid areas, plateau areas and extremely cold areas, solving the problem of human settlements and living environment management for China.

# The characteristics of human settlements in the poor areas of the world

**Poor infrastructure in poor areas of the world (no pipe network, no water supply and drainage, no secondary treatment facilities for fecal sewage)**

**Poor natural environment (drought, water shortage, extreme cold)**



# Problems solved by ECO Toilet



No water flush

Save water

Zero discharge

Thorough decomposition

Pollution-free

Elimination of virus

No smell

Thorough decomposition

Easy installation

Widely used



**ECO Toilet**

**E**cology

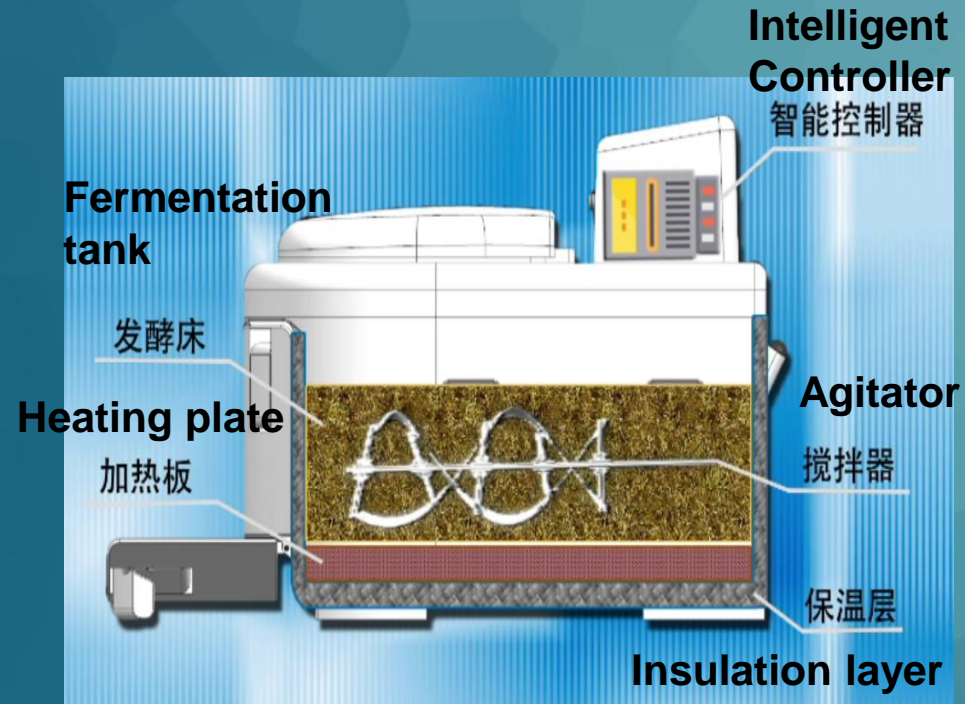
**C**onservation

**O**ptimization

One ECO toilet can save about 110 liters of water per day and up to 40 tons of water per year. It equals to prevent 9000 tons of water from being polluted every year.



# The principle and structure of ECO Toilet

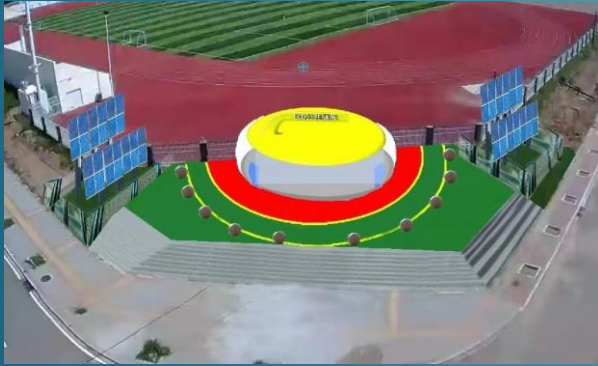


The Chinese ECO toilet consists of five parts: intelligent controller, fermentation bed, heating plate, agitator and insulation layer. When in use, the exhaust system is started, and the internal box body becomes a negative pressure state. When the toilet cover is opened, the mechanical safety protection is started. After use, just cover the toilet cover, and the mixer starts to rotate to fully mix the waste with the treatment carrier. 3-5 hours to decompose human waste into clean carbon dioxide gas and water molecules.



# Application of ECO Toilet series products

## ECO Public Washroom



Public toilets of Wanquan middle school stadium in Zhangjiakou city



Demonstration public toilets in xiong'an new area, China

## ECO Kitchen waste treatment



## ECO Treatment of livestock and poultry manure



Pujiang pig farm

## ECO Biofilm wastewater treatment



Wastewater treatment demonstration of xixiawang village, Fengyi Town, Changzhi City, Shanxi Province

# ECO Innovation & revolution of series products

**“Innovativeness”**

The perfect combination of innovation breakthrough of bioengineering science and technology and intelligent equipment reflects the innovation of eco series products

**“Revolutionary Character”**

In poor and backward areas, the problem of poor living environment has been solved with low cost and high efficiency, and a new "toilet revolution" has been launched



# "Large dispersion and small concentration" scheme for pollution control of human settlements

- The waste and sewage pollutants shall be solved in the order of not leaving the house, village, town and area
- "Big decentralization, small concentration" is the key to deal with human settlements problems with high efficiency and low cost

**This is Zhongxin Jiahua Zhangjiakou Technology Co., Ltd**

**New solutions for human environmental governance**

# ECO Series products create a better living environment





# China's eco toilet has a huge market prospect



**2018-2020 years**

**The market space of toilet reform in China is about 200 billion yuan**

**Eco toilet wants to serve Countries and regions along the belt and road**

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# Thanks!

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