

**Waste House:  
Energy-Saving  
General Waste  
Refrigeration  
Facility /  
iTrash:  
Smart Waste  
Collection Service**

The green corner of smart living



## 鴻海環境

HONG-HAI  
ENVIRONMENT  
SCIENCE CO., LTD.



鴻海環境科技股份有限公司  
Hong-Hai Environment Science Co., Ltd.

## About Hong-Hai Environment Science

Hong-Hai Environment Science Co., Ltd. company vision is to promote green buildings, improve the overall environment and lower the carbon emissions. The enterprise has over 20 years of green building professional design and construction experiences, and provides advanced environmental technological equipment to international and local business.

Hong-Hai's "Waste House: Energy-Saving General Waste Refrigeration Facility" is mainly used within community buildings or green buildings. Recently, due to the global green trend, the corporation developed "iTrash: Smart Waste Collection Service" based upon two of their unique patents which are the patent of "General Waste Collection Kiosk with Charging Function and Bottles/Cans Reverse Vending Machine" and patent of "Waste Compression Device with Fee Calculation Function". This system is able to conduct environment monitoring and waste disposal management by applying Cloud Computing and IoT technology to create an eco-friendly environment.

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Waste House: Energy-Saving General Waste Refrigeration Facility / iTrash: Smart Waste Collection Service

## Waste House: Energy-Saving General Waste Refrigeration Facility

Hong-Hai's "Waste House: Energy-Saving General Waste Refrigeration Facility" holds energy saving patents and has at least 2 timer devices that could reduce energy consumption through frequency conversion. This could save about 30% of electricity and completely inhibit the growth of insects and germs, additionally prevent odor coming from the fermentation of trash and kitchen waste. The compression function of "Waste House: Energy-Saving General Waste Refrigeration Facility" could expand the trash storage volume, thus effectively using the limited space. Moreover, Hong-Hai has installed a function on the equipment that notifies when reached full capacity, making the waste management system more intelligent. In addition, a circular shaped track could be constructed according to demands, which could automatically switch out the dumpster that have reached full capacity, thus improving the efficiency of the waste management.



## iTrash: Smart Waste Collection Service

Combining the functions and advantages of "Waste House: Energy-Saving General Waste Refrigeration Facility", "iTrash: Smart Waste Collection Service", embedded with sensors and cloud management platform, has advanced waste management functions integrated with IoT and provides 24 hours automatic smart trash collection services. It can conduct trash reduction and classification, thus improve the quality of the overall environment. The general public could also pay relevant waste disposal fees and receive cash reward through electronic ticketing for recycling, raising the awareness of proactive recycling and create eco-friendly green lifestyle.

