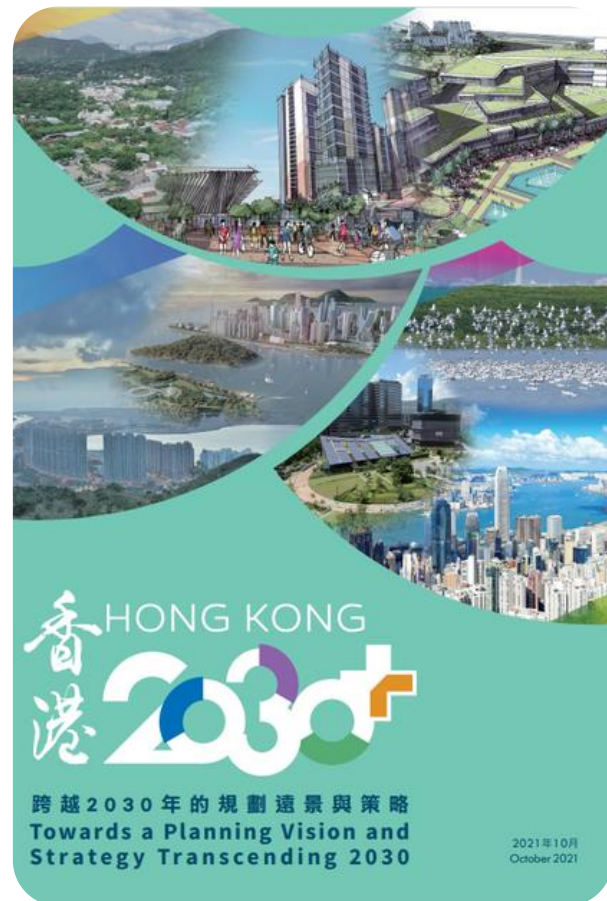
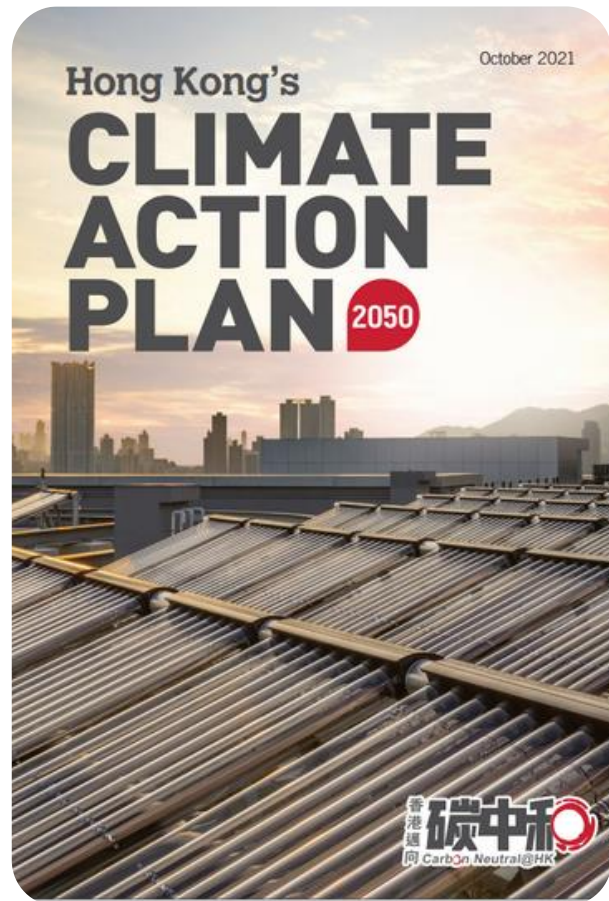




Waste Reduction: Pathways for achieving zero landfill

VALUE CREATION ON WASTE





HKSAR Government Blueprints set determined targets



Waste Reduction



Resources Circulation



Zero Landfill



Municipal Solid Waste Charging

01

MSW charging will be implemented on 1 August 2024

02

It provides the necessary incentives to drive behavioural and cultural changes, and to encourage different sectors of the community to cherish resources and proactively practise waste reduction at source as well as clean recycling



多回收
Recycle more

搵少啲
Dump less

慳多啲
Save more

Producer Responsibility Scheme (PRS) on Plastic Beverage Containers & Glass Beverage Bottles

01

Hong Kong has embraced producer responsibility as a core component of its waste management strategy.

02

Cost sharing has proven effective in reducing waste



2022

BY 2035

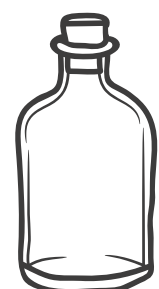


PLASTICS WASTE

864,000T



ZERO



GLASS WASTE

77,000T



ZERO



FOOD WASTE

1,205,000T



ZERO



WOOD WASTE

70,080T



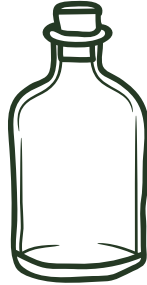
ZERO

We expect plastic, glass & food waste recycling volume will be increased 2 -3x within 3 year

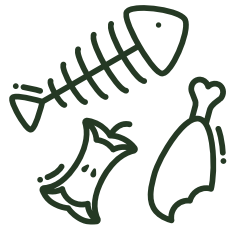
What steps is Hong Kong taking to create value from waste



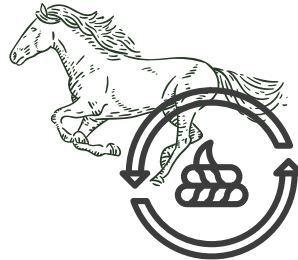
Plastic Waste



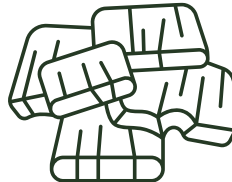
Glass Waste



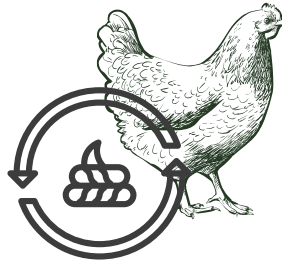
Food Waste



Horse Manure



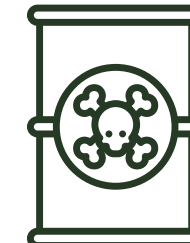
Wood Waste



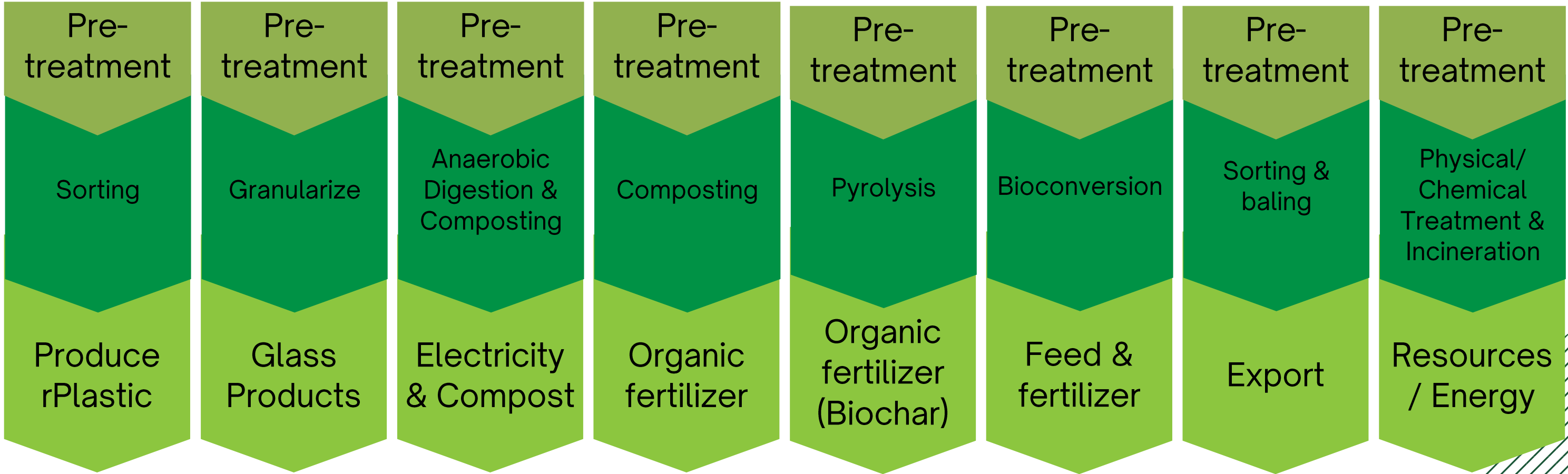
Chicken Manure



Paper Waste



Chemical Waste



Baguio has operated 6 recycling plants covering different processings



Animal Waste Composting Plant
(Ngau Tam Mei)



Waste Plastic Sorting Centre
(Yuen Long)



Glass Recycling Plant
(Tuen Mun)



Waste Sorting & Recycling Centre
(Fanling)



BSF Hatch
(ECO Park)



Biochar Plant
(ECO Park)



Other Processing Facilities in Hong Kong



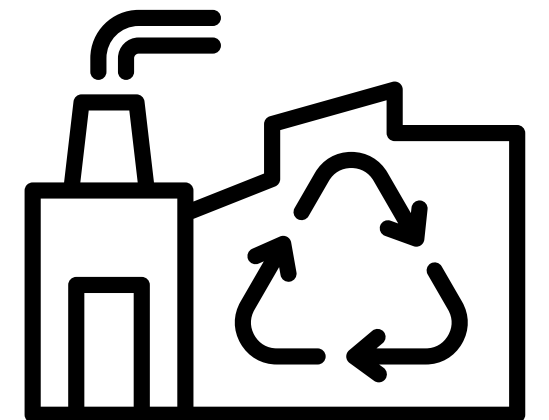
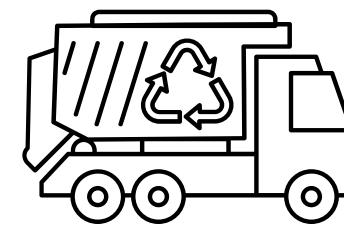
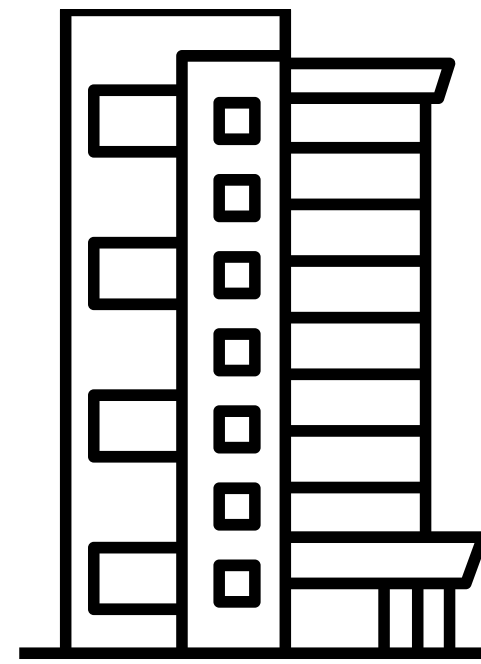
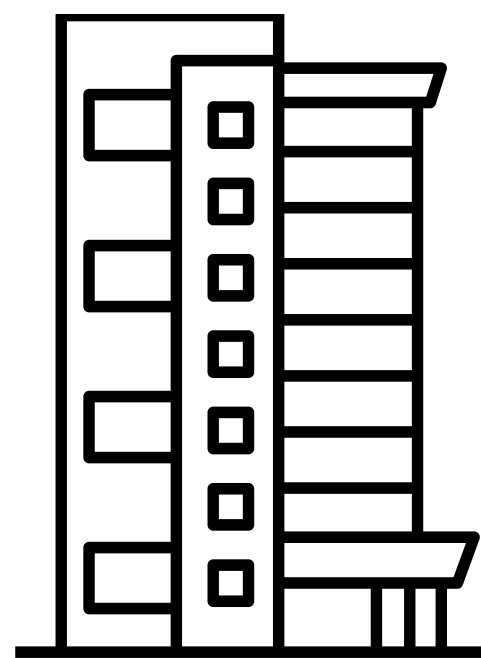
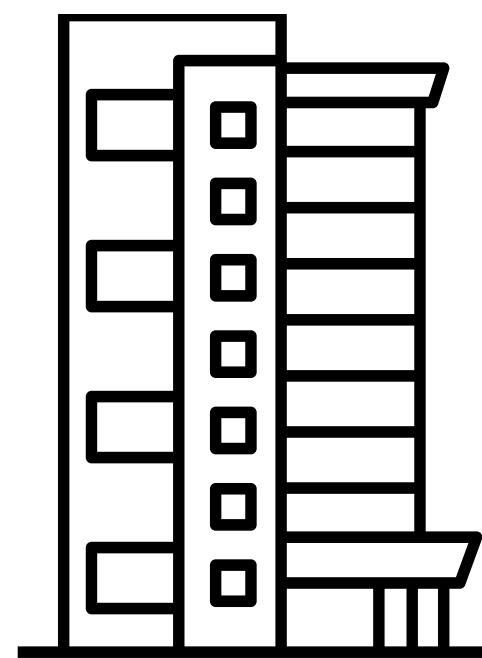
圖例

- 環保署總辦事處
- 環保署辦事處
 - 分區辦事處 (12)
 - 區域辦事處 (5)
- 環保署設施
 - ▲ 營運中的策略性堆填區 (3)
 - ▲ 化學廢物處理中心
 - ▲ 動物廢料堆肥廠
 - ▲ 低放射性廢物貯存設施
 - ▲ 已關閉及修復的堆填區 (13)
 - ▲ 廢物轉運站包括OITF (7)
 - ▲ 環保園
 - ▲ 廢電器電子產品處理及回收設施 WEEE-PARK
 - ▲ 有機資源回收中心第一期 O-PARK1
 - ▲ T-PARK[源·區]
 - ▲ Y-PARK[林·區]
 - ▲ 大埔廚餘預處理設施
 - 空氣質素監測站 (18)
 - 鶴咀超級空氣監測站
 - 海洋監測站



Recyclable Waste Collection in Hong Kong

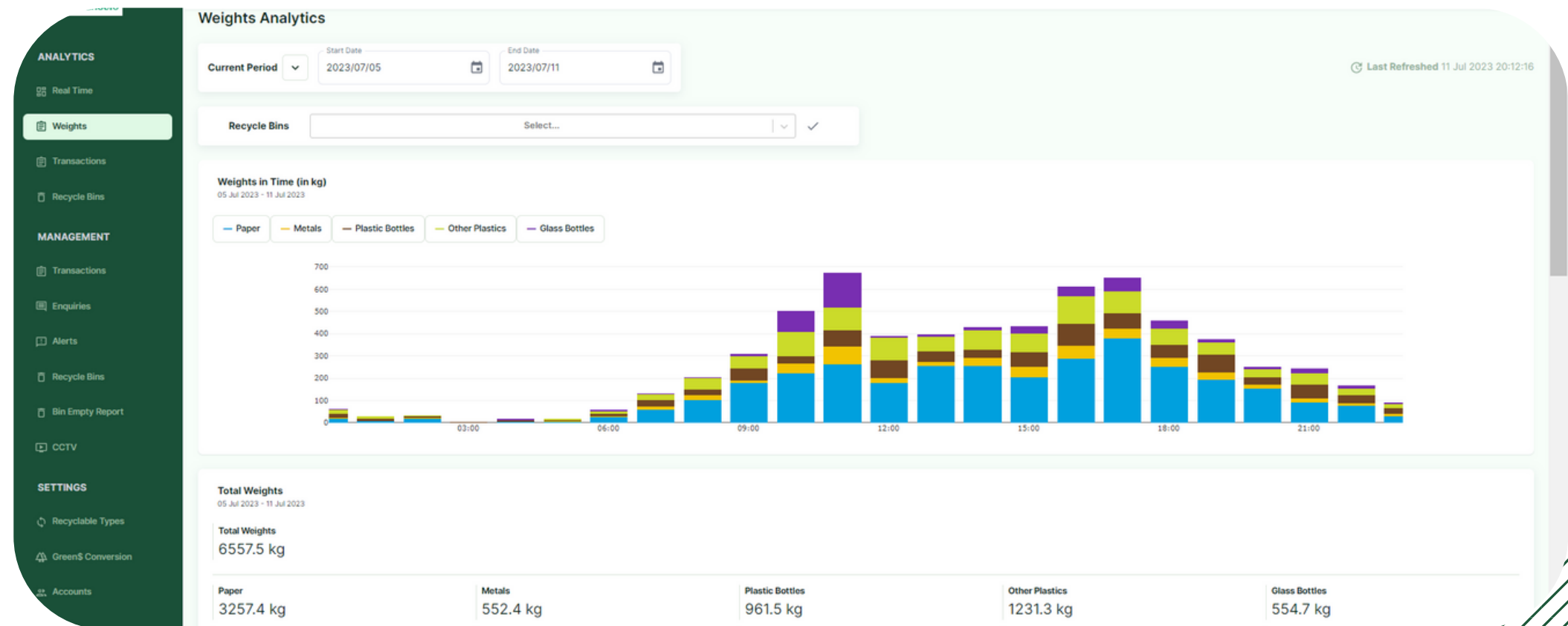
- Manual recording
- Scheduled timetable for collection





Smart Bins

- Efficient Waste Management
- Increased Recycling Rates
- Data-driven Decision Making
- Environmental Benefits



High Demand on Smart Recycling Bins

慈康邨



寶雅苑



華景山莊



葵盛西邨



綠悠軒



綠在漁灣



小西灣邨



秀茂坪南邨



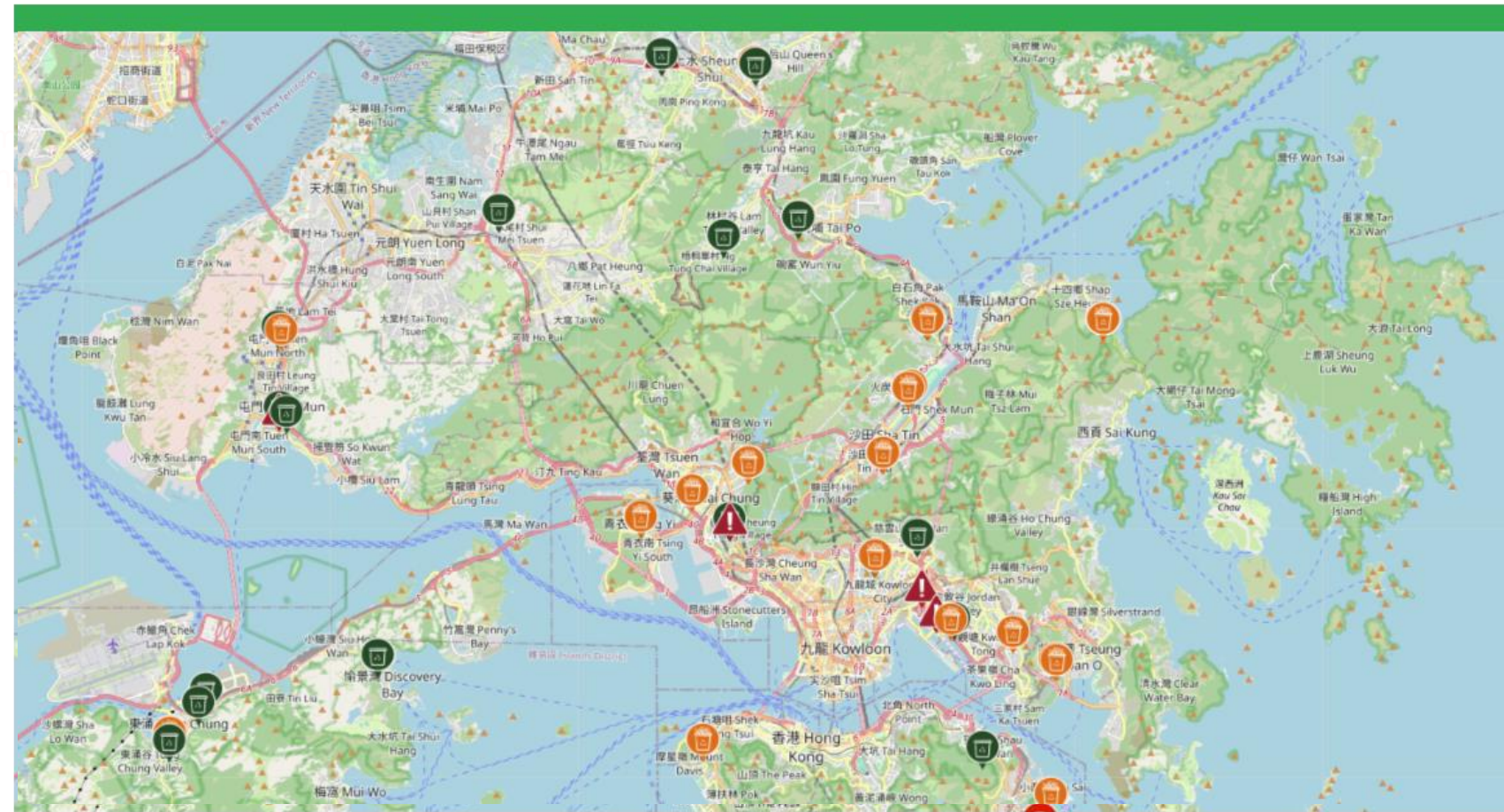
愉景灣



東環



西徑



健明邨



牛頭角上邨



逸東(一)邨



東環



耀東邨



燕崗村



坪朗村



山下圍曾大屋



香港中文大學



城市大學宿舍



安蔭邨



橫頭磡邨



逸東(二)邨



西環邨



安定邨



欣田邨



德朗邨



銀禧花園



得寶大廈

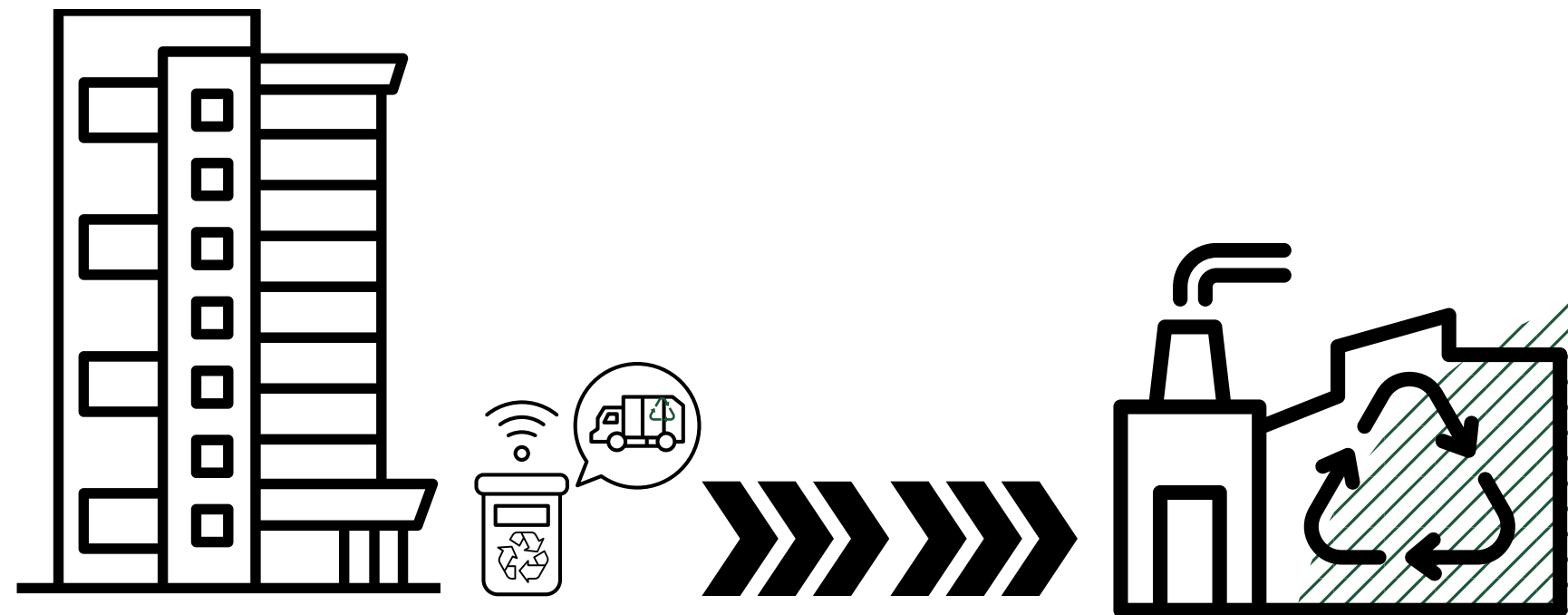




Smart Food Waste Bins - Features

- QR code / IC card reader for user authentication
- Disinfection and deodorizing device & UV disinfection lamp
- Solar charging panel
- Splash-proof and odor-proof compartment

One-stop Recycling Value-added Service



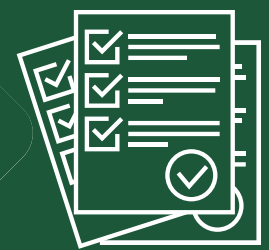


Waste Audit

- To determine the composition and quantities of waste (including recyclables) disposed of from client
- To plan for waste management strategies
- To minimize the cost in MSW charging



01



- Decide the scope of sample i.e. location and service period
- Decide the sample size
- Identify waste categories

02

- Collection of sample
- Waste sorting and auditing



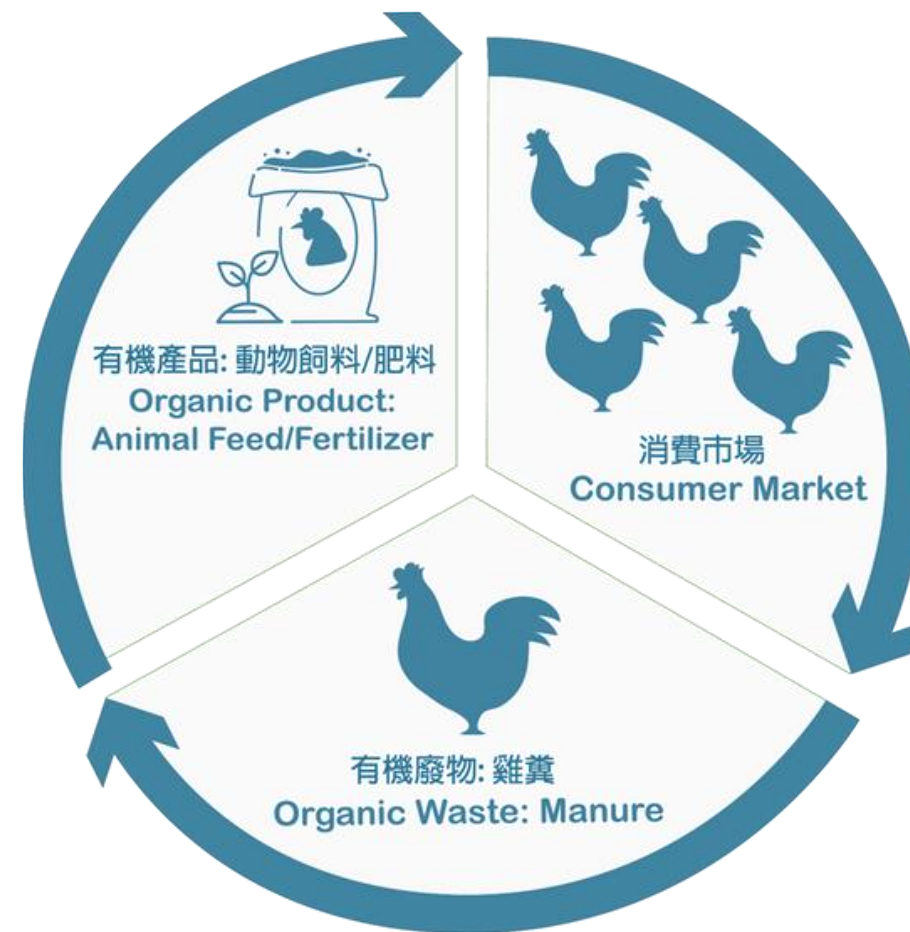
03



- Issue the Waste Audit Report
- Suggestion and follow-up action

Case Sharing - Chicken Organic Waste

Black Soldier Fly (BSF, 黑水虻) is an insect that can decompose organic waste (chicken manure) and turn it into insect protein for animal feed and organic fertilizer for agriculture and horticulture through biocoverison



BSF PRODUCT



Dried Larvae

Usage: Aquaculture,
livestock breeding



Fresh Larvae

Usage: Aquaculture,
livestock breeding



Insect Frass

Usage: Vegetation
farming and
gardening

- Avoid the disposal of 35 tonnes of chicken waste into landfills daily
- Upcycle organic waste into valueable and marketable products

Case Sharing - Water Barriers

“Green Guardian Solution” is a sustainable upcycling solution that aims to upgrade unused water barriers by processing them in factory and transforming into various HDPE plastic products.



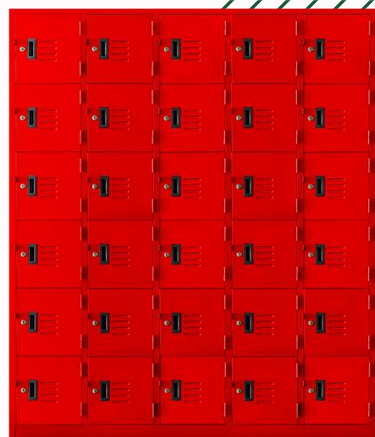
Collecting used water barriers

Crushing the collected barriers

Transporting to the factory

Recycling & Reuse

This innovative approach not only promotes environmental conservation but also contributes to the circular economy by reducing waste and creating new, valuable resources.



Case Sharing - Waste Glass



Local Collection
Local Recycle
Local Use



- Uncycling waste glass into blocks is an innovative way to repurpose glass and create building materials.
- Upcycling waste materials into sandbags creates value for the community. These sandbags are made from plastic waste, sewn by low-income communities and filled with cullet.

Case Sharing- Upcycling/ Green Workshop



- **Economic Value**
- **Environmental Value**
- **Social Value**
- **Education Value**
- **Cultural Value**

- Upcycling workshops focus on transforming waste or unwanted materials into new and useful products. Participants learn creative ways to repurpose items that would otherwise end up in landfills
- By hosting or participating in green workshops, businesses can differentiate themselves from competitors by showcasing their commitment to sustainable products



THANK YOU

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