

WEEE-PARK Fact Sheet

The Hong Kong Government entered into a contract with ALBA IWS in 2015 to design, build and operate WEEE-PARK, a Waste Electrical and Electronic Equipment (WEEE) Treatment and Recycling Facility which will provide an e-waste collection and processing service in addition to maintaining operations at the facility until 2027. The facility will use state-of-the-art German technology to process refrigerators, TVs, computers, washing machines and air conditioners into valuable secondary raw materials in a manner which safely manages and treats the hazardous materials contained in WEEE.

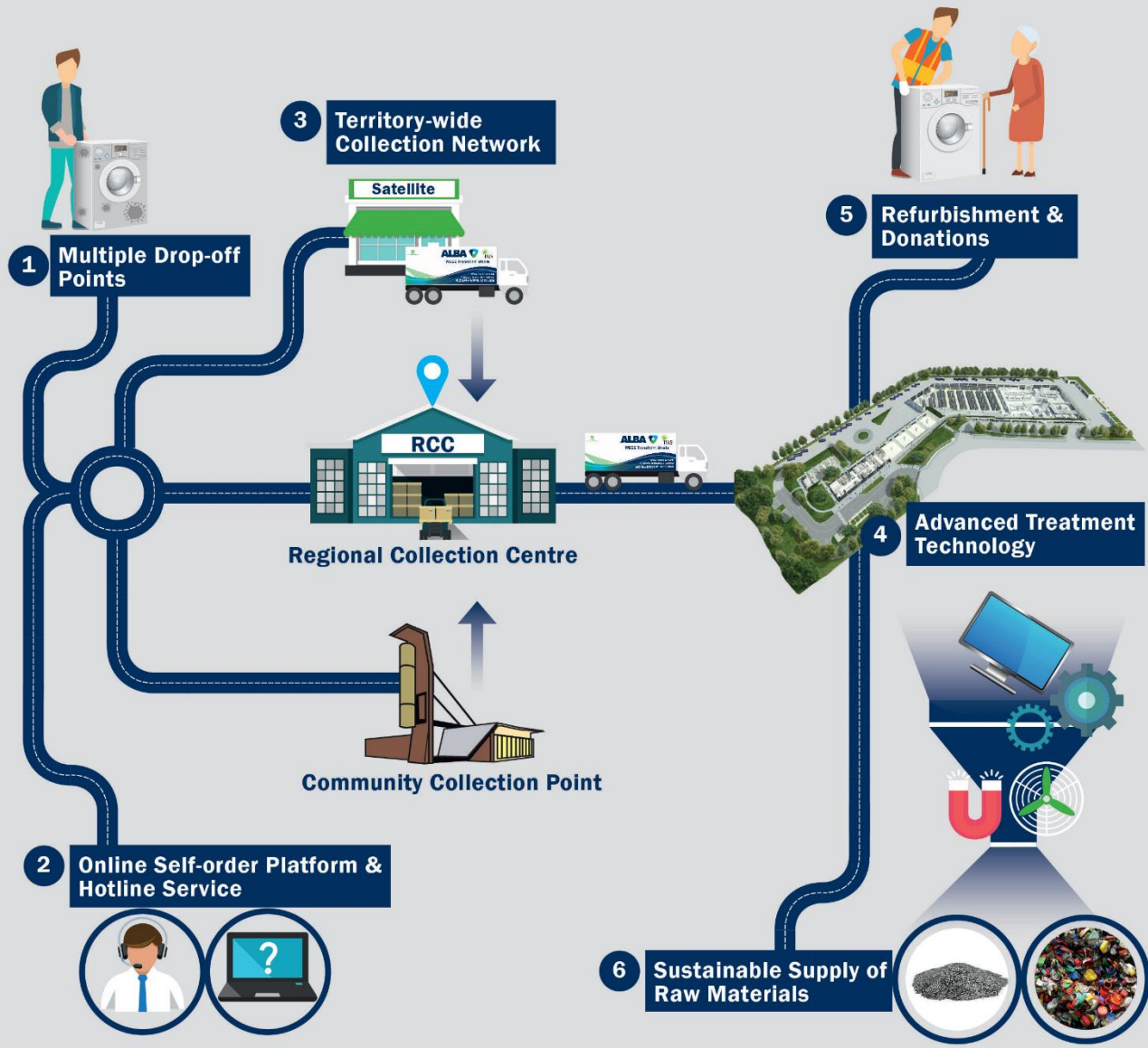
Hong Kong’s First Integrated WEEE Treatment and Recycling Facility –

WEEE-PARK

Area	<ul style="list-style-type: none"> • 37,000 square feet Processing Hall • 29,000 square feet Buffer Storage
Regulated Electrical Equipment Handling Target (per year)	<ul style="list-style-type: none"> • Design capacity: 30,000 tonnes • Maximum capacity: approx. 56,000 tonnes (if operating on several shifts)
Estimated Volume of E-waste in Hong Kong (per year)	<ul style="list-style-type: none"> • About 70,000 tonnes • 85% of this estimate will be classified as electrical equipment under the newly enacted producer responsibility legislation
Green Features Available at WEEE-PARK	<ul style="list-style-type: none"> • Natural lighting and ventilation • Solar hot water system • Rainwater harvesting system for irrigation purposes • Green walls with hardy native climbing plants; 30% green coverage • Fully enclosed operations which ensure that the external environment is not affected by waste management processes
International Recognition / Certifications	<ul style="list-style-type: none"> • ISO 9001 Quality Management System • ISO 14001 Environmental Management System • Applied for BEAM Plus Gold Accreditation • “Special Citation in Eco-Service Infrastructure Network” under the 2016 Hong Kong Green Building Award

Refrigerator Line	<ul style="list-style-type: none"> • Hong Kong's first and only facility licensed to recovering refrigerants • Automatic processing under partly inert (nitrogen) atmosphere • Recovery of insulation material through zigzag separators • Automatic sorting of materials (ferrous, non-ferrous, plastics) via magnetic field and eddy current separator • Two separate recovery lines to differentiate various refrigerators • Design capacity: 40 pcs / hr
Air-Conditioner Line	<ul style="list-style-type: none"> • Hong Kong's first and only facility licensed to recovery refrigerants • Recovery of refrigerants and compressor oil from air-conditioners • Design capacity: 40 pcs / hr • Design capacity: 40 pcs / hr
E-Scrap Line	<ul style="list-style-type: none"> • Processes washing machines, computers, scanners, printers, detoxified air-conditioners and LCD screens. • Dismantling and sorting of materials (ferrous, non-ferrous, plastics) • Enhanced sorting of non-ferrous metals into copper and aluminium • Design capacity: 4-5 tons / hr
Flat screen & CRT Line	<ul style="list-style-type: none"> • Automated cutting of flat screen display by robotic arm • Removal of mercury-containing fluorescent lamps for detoxification • Hotwire cutting of CRT funnel to separate leaded glass • Activated carbon filter to prevent mercury emission • HEPA Filter to prevent lead emission • Design capacity: 180 pcs / hr
State-of-the art German Technology	<p>Detoxification Technology:</p> <ul style="list-style-type: none"> • Refrigerant and Lubricant Oil Extraction from refrigerators and air-conditioners • Refrigerator Insulation Foam Cleaning System • Fluorescent Powder Extraction from Cathode Ray Tube • Automated robot arm cutting technology to enable tubes containing mercury to be safely removed <p>Sorting Technology:</p> <ul style="list-style-type: none"> • Zig-zag separator • Eddy Current Separator • Electromagnetic Metal Sensor • Near-Infrared technology • Air floatation table

A One Stop Solution for E-waste Disposal



1 Multiple Drop-off Points

2 Online Self-order Platform & Hotline Service

- E-Waste Collection Hotline: 2676 8888
- E-waste Collection Service
- IT System for tracking record

3 Territory-wide Collection Network

- Multiple RCCs
- Controlled storage facility

4 Advanced Treatment Technology

- State-of-the art German technology
- Safe handling and disposal of hazardous substances contained in E-waste

5 Refurbishment & Donations

- Avoid wasteful disposal of E-waste by refurbishing re-useable electrical appliances
- Donate refurbished items to people in need

6 Sustainable Supply of Raw Materials

- Exceptional recycling rates of over 80%
- Produce secondary raw materials
- Output materials include aluminum, copper, plastics and others
- Return resources into circular economy

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