## 2005-2006

### **ENVIRONMENTAL PROTECTION**

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Message from the Convenor

Battery recycling is a fairly new concept in Hong Kong. People are often not aware that many appliances in their homes and offices use rechargeable batteries. They also do not realise these batteries contain recyclable materials and may otherwise be hazardous if they are dumped in landfills. The Rechargeable Battery Recycling Programme aims to raise people's awareness and change their habits. In this respect, we have had a very successful first year.

Between our launch in April 2005 and March 2006 we achieved a 5% recovery rate, about double what other places typically achieve. An extensive collection network is in place and continuing to expand. Moreover, the battery and electronic equipment industry is helping to organise and finance the Programme under a voluntary producer responsibility scheme. This not only ensures batteries are dealt with in a more environmentally friendly way, it also demonstrates to other industries that it is viable for them to take responsibility for the environmental impacts of their products.

Having put a system in place, we need to work a little harder to raise people's awareness. A survey conducted in January 2006 showed that only about half of the people in Hong Kong are aware of the Rechargeable Battery Recycling Programme. Our two-year goal is to recycle 10% of rechargeable batteries by March 2007. We will seek to step up our publicity efforts so more people can participate in this worthy Programme.

Josephine Ng
GPI International Limited
Convenor of the Working Group of the
Rechargeable Battery Recycling Programme (2006/2007)

About the Rechargeable Battery Recycling Programme



Launching Ceremony of the Rechargeable Battery Recycling Programme



Group Photo

#### 2.1 Background

Rechargeable batteries contain valuable materials that can be reused as stainless steel and magnetic alloy. Until recently, these batteries ended up in landfills. Then in April 2002 the pilot Mobile Phone Battery Recycling Programme was launched. This marked two firsts for Hong Kong: the first battery recycling programme, and the first voluntary producer responsibility scheme (PRS). Mobile phone and battery manufacturers organised and funded it, and the Environmental Protection Department (EPD) and mobile phone network service providers provided support.

The pilot Programme demonstrated that the recovery of rechargeable batteries is feasible in Hong Kong. On 9 April 2005 the Rechargeable

Battery Recycling Programme was launched and extended collection to all kinds of portable rechargeable batteries. This is also a voluntary PRS organised and funded by industry. The EPD and two green groups – Friends of the Earth and Green Power – provide technical, administrative and promotional support.



BOSCH

地址

NOKIA

#### 2.2 Participating Companies

The Programme has 34 organising companies, who are manufacturers and importers of rechargeable batteries and electronic equipment (see Annex 1 for a list of companies). They also provide funding for the Programme. Tier One companies pay \$25,000 per year and Tier Two companies pay \$5,000 per year. They contributed HK\$510,000 in total in the Programme's first year.

Under this producer responsibility scheme, the onus for recovering rechargeable batteries is shared among producers, importers, retailers and consumers.

#### 2.3 Working Group

The Rechargeable Battery Recycling Programme is administered by a tri-partite Working Group with membership from industry, the EPD and green groups. In 2005-06, the Working Group comprised 19 members (see Annex II for a list of members). Dr Lawrence Wong of the Environmental Protection Department was Convenor and Dr C.S. Man of Green Power was Treasurer. A working group meeting was held on 24 August 2005 and an Annual General Meeting was held on 8 March 2006.



Rechargeable Battery Recycling Programme Collection Point



General Meeting

#### 2.4 How the Programme Works

The Rechargeable Battery Recycling Programme accepts lithium ion, nickel metal hydride and nickel cadmium batteries at collection points across Hong Kong. This is a free service and the batteries are sent to recycling facilities overseas.

Retailers, mass transit operators, property management companies and schools have been invited to provide collection points so as to enhance the effectiveness of the Programme. There are two kinds of collection points. Primary collection points are located in railway stations, chain stores and other shops accessible to the general public. These have been set up by the 34 organising companies, as well as series of supporting companies who are mainly retailers and railway operators (see Annex III for a list of

supporting companies). The companies collect the batteries internally from their collection points and bring them to a central storage point(s) where they are picked up by the Programme's appointed collector.

Secondary collection points are set up in participating housing estates, commercial/industrial buildings and schools (see list in Annex IV). The recovered batteries are delivered to nearby primary collection points, where they are picked up by the collector.

programme

SS/H/H/WO

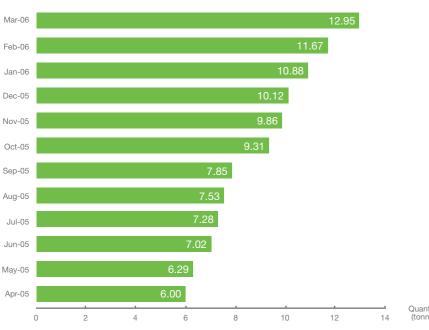
# 3.0 Review of Operations

#### 3.1 Collection

#### Quantities

The Government has set a target to recover and recycle 10% of Hong Kong's rechargeable battery waste by March 2007. From 9 April 2005 to 31 March 2006, 13 tonnes of rechargeable batteries were collected, or 320,000 individual batteries, representing 5% of the total. About 40% of the batteries collected came from the industrial and commercial sector. The recovery result compares well with similar voluntary programmes in other countries in the first year, which typically collect 2-3% of their rechargeable battery waste.

Figure 3.1.1 Recovery of Rechargeable Batteries, 2005-2006



The Mobile Phone Battery Recycling Programme overlapped with the Rechargeable Battery Recycling Programme in April 2005.

#### Collection Points

The number of collection points expanded by more than 40% during the year. When the Programme was launched on 9 April 2005 we had 1,071 collection points. By 31March 2006 there were 1,514 collection points, covering all districts of Hong Kong.



#### **Number of Collection Points: 1,514**

Α	Southern	66
В	Central & Western	150
С	Wan Chai	90
D	Eastern	129
Е	Yau Tsim Mong	154
F	Kowloon City	103
G	Kwun Tong	106
Н	Sham Shui Po	71
	Wong Tai Sin	64
J	Kwai Tsing	95
K	Sha Tin	98
L	Tsuen Wan	56
M	Tuen Mun	79
N	Yuen Long	78
0	Tai Po	42
P	Sai Kung	62
Q	North	43
R	Outlying Islands	28



Rechargeable Battery Recycling Programme Annual Report 05-06

#### Industrial and Commercial Battery Waste

Some companies generate large quantities of battery waste in their daily activities – a combined total of about 50 tonnes per year. Until recently, this waste has been handled under chemical waste regulations, in which a licensed collector brought the waste to landfills for safe disposal.

At the recommendation of the EPD, the Working Group agreed to expand the Rechargeable Battery Recycling Programme to accept industrial/commercial battery waste. Since June 2005 the EPD has been approaching waste producers to recycle their batteries under this Programme rather than sending them to landfills. The waste producers pay a collection and recycling fee each time their batteries are picked up. In early 2006, the Mass Transit Railway Corporation became the first company to join the Programme.

#### Charges for industrial and commercial battery waste

Type of Battery	Amount (HK\$/kg)
Li-ion	\$3.70
NiMH	\$3.70
NiCd	\$3.70
NiCd (Ind - w/o electrolyte)	\$5.30
NiCd (Ind - w/ electrolyte)	\$6.10

Industrial and commercial companies that generate large quantities of battery waste pay a recycling and collection fee. Otherwise the service is free for members of the public.

#### Collector

Dunwell Environmental Management Company Limited is the contracted collector for the Programme. In addition to picking up batteries from central storage points, the collector sorts, weighs and places masking tape over the terminals of each battery.

The collector collects on a monthly or bi-monthly basis depending on the location and also makes special collections on request.



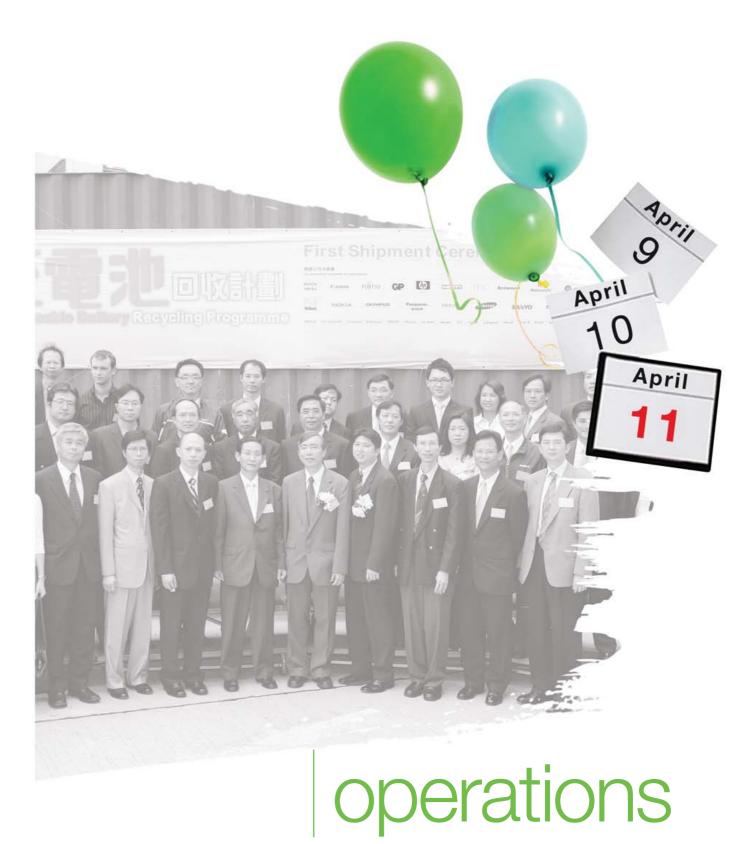
Sorting of rechargeable batteries collected

#### 3.2 Recycling

Rechargeable batteries contain valuable metals, such as cobalt, nickel and cadmium, that can be recovered and sold for re-use in stainless steel, magnetic alloy and cadmium batteries. The first batch of 13 tonnes of rechargeable batteries was sent to a recycling facility in South Korea in April 2006.



Ceremony of the first shipment of rechargeable batteries to recycling plant



#### 3.3 Publicity

An intensive publicity campaign was conducted under the Programme's auspices from September 2005-March 2006. Among the highlights we:

- Produced an Announcement in the Public Interest on the Rechargeable Battery Recycling Programme for radio and television broadcast
- Displayed advertisements on the exterior of 25 buses and 5 trams, and in television broadcasts in New World First Bus vehicles
- Advertised in all MTR stations and some KCRC stations
- Produced educational kits for schools
- Included promotional messages in electricity, water and gas bills
- Displayed posters on the Programme in government offices and post offices
- Conducted more than 50 outreach visits to schools and housing estates
- Organised poster and battery collection box design competitions in schools and housing estates







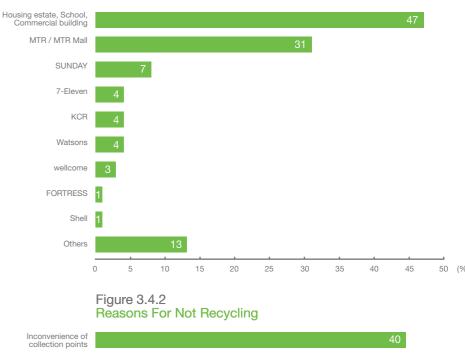


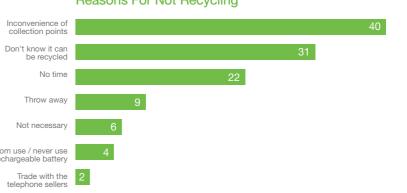
#### 3.4 Survey

The City University was engaged to conduct a telephone survey in January 2006 to assess awareness and participation in the Programme. The views of more than 1,000 people have been collected. Among the findings:

- 49% of respondents were aware of the Rechargeable Battery Recycling Programme.
- Among those aware of the programme, 36% knew where to locate collection points. More needs to be done here to publicise these facilities.
  - 7 see figure 3.4.1
- 73% intended to recycle their rechargeable batteries, of which 43% said they would probably recycle and 30% said they would definitely do so. A strong publicity drive helped and we will continue to promote the Programme in the community.
  - **7** see figure 3.4.2

Figure 3.4.1
People are more likely to be aware of collection points located near their homes, offices and schools





The Programme finished the year with a surplus. This is because we budgeted for a 10% collection rate in the first year and achieved 5%.

The surplus as at March 2006 was HK\$147,809.9, which will be dedicated to publicity efforts.

	2005 - 2006	
Activities	Original Provision	Final Expenditure <sup>[1]</sup>
Collection and Sorting	\$156,000	\$106,851.9
Export and Recycling	\$94,000	\$27,835
Publicity <sup>[2]</sup>	\$260,000	\$227,503.2
Total	\$510,000	\$362,190.1

The actual amounts were extracted from the statement of accounts prepared by Green Power.

Looking Ahead

The first year of the Rechargeable Battery Recycling Programme has laid down foundations for collection and awareness. The Working Group is confident that as we build on these foundations, we can significantly expand

battery recycling and divert useful materials away from Hong Kong's landfills.

Two priorities will dominate the second year of the Programme, namely education and publicity, and recruitment of new members.

Education and Publicity We need to encourage more people to use and recycle rechargeable batteries, and be aware of what products use these batteries. In 2006-07 we will advertise on buses and trams, in train stations, government facilities, shopping malls and newspapers, and on television and radio. We will also launch the education kit loan service, organise recovery competitions and make at least 50 outreach visits to housing estates and schools.

Recruitment

The collection network needs to be further expanded to make it easier

for people to recycle, and to ensure all companies that generate rechargeable batteries are participating. We will look to open more primary and secondary collection points. We will also recruit new members. Some companies that generate sizeable quantities of rechargeable battery waste have not joined our Programme yet their batteries end up in our bins. These "free-riders" accounted for 10% of the total waste rechargeable batteries collected in 2005-06. The Working Group and the EPD will communicate with their management to encourage them to ioin.

Additional funding will be needed to finance an expanded collection network and publicity drive. In 2006-07 we are seeking \$650,000, much of which we hope will come from new members.

looking ahead

The Environmental Protection Department also provided an additional \$1.1 million in 2005-06 for publicity activities to encourage community participation in rechargeable battery recycling.

Members of the Working Group (2005-2006)

## Annex I

List of Organising Companies (2005-2006)

**Brand** - Company

**Bosch** (Power Tools) - Melchers (HK) Ltd.

Canon - Canon Hong Kong Co. Ltd.

Duracell - Gillette HK Ltd.

**Energizer** - Energizer Hong Kong Ltd.

**EPSON** - EPSON Hong Kong Ltd.

**GP** - GPI International Ltd.

Hi-Watt - Hi-Watt Battery Industry Co. Ltd.

**HP, Compaq** - Hewlett-Packard AP (Hong Kong) Ltd.

JVC - Shun Hing Group

Kodak - Kodak (Hong Kong) Ltd.

Motorola - Motorola Asia Pacific Ltd.

Nokia - Nokia (H.K.) Ltd.

Olympus - Olympus Hong Kong & China Ltd. Oral-B - Gillette HK Ltd.

Panasonic - Shun Hing Group

**Philips** - Philips Electronics Hong Kong Ltd.

**SAFT** - SAFT Hong Kong Ltd.

Samsung - Samsung Electronics HK Co. Ltd.
Sanyo (Rechargeable Battery) - Sanyo Energy (HK) Co. Ltd.

**SHARP** - Sharp - Roxy (Hong Kong) Ltd.

Siemens - Siemens Ltd.

**Sony Ericsson** - Sony Ericsson Mobile Communications Int'l AB

**Sony, Aiwa** - Sony Corporation of Hong Kong Ltd.

**Toplux** - Toplux Hong Kong Ltd.

**Uniross** - Uniross Batteries (HK) Ltd.

**BOSCH** 博世

#### Canon







松回 **Matsunichi**<sup>®</sup>





#### NOKIA

**BRAUN** Hitachi Hi-Watt CA Sheimer JVC Duracell Energizer Kodak **EPSON** 



#### **Panasonic** 小野猫











#### UNIROSS'

Maxell **SHARP** Oral-B Siemens Ricoh **Toplux** SAFT **Toshiba** 

**Environmental Protection Department** 

Annex II

Green Power

Friends of the Earth

Poon Chi-sun (The Hong Kong Polytechnic University)

Melchers (HK) Ltd.

Canon Hong Kong Co. Ltd.

GPI International Ltd.

Shun Hing Group

Motorola Asia Pacific Ltd.

NEC Hong Kong Ltd.

Nokia (H.K.) Ltd.

Philips Electronics Hong Kong Ltd.

Samsung Electronics HK Co Ltd.

Sanyo Energy (HK) Co. Ltd.

Siemens Ltd.

Sony Ericsson Mobile Comm. Int'l AB

Sony Corporation of Hong Kong Ltd.

Toplux Hong Kong Ltd.

Uniross Batteries (HK) Ltd.

# Annex III List of Supporting Companies (2005-2006)

7-ELEVEN
FORTRESS
KCRC
Mass Transit Railway Corp Ltd
Shell Hong Kong Limited
SUNDAY
Watsons the personal store
Wellcome







香港房屋委員會 Hong Kong Housing Authority





## Annex IV

List of Participating Housing Estates, Commercial / Industrial Buildings and Schools

Shek Yam Estate

#### **Public Housing Estates**

Ap Lei Chau Estate Bel Air Heights Bo Shek Mansion Broadview Garden **Butterfly Estate** Cascades Cayman Rise Chak On Estate Cheung Ching Estate Cheung Fat Estate Cheung Hang Estate Cheuna Hona Estate Cheung Kwai Estate Cheung Shan Estate Cheuna Wana Estate Cho Yiu Chuen Choi Fai Estate Choi Hung Estate Choi Wan (I) Estate Choi Wan (II) Estate Choi Yuen Estate Chuk Yuen (South ) Estate Chun See Mei Chuen Chun Shek Estate Chung On Estate Clague Garden Estate Cronin Garden Dragon Centre Easeful Court Fortune Estate Fu Cheong Estate Fu Shan Estate Fu Shin Estate Fu Tai Estate Fu Tung Estate Fuk Loi Estate Grandeur Terrace Hau Tak Estate Healthy Village High Prosperity Terrace Highland Park Hing Man Estate Hing Tung Estate Hing Wah (I) Estate Hing Wah (II) Estate Ho Man Tin Estate Hoi Lai Estate Hollywood Terrace Hong Tung Estate Hung Hom Estate Jat Min Chuen Jubilant Place June Garden Ka Fuk Estate Ka Wai Chuen Kai Tak Garden Kai Tin Estate Kai Yip Estate Kam Peng Estate Kin Ming Estate Ko Cheung Court Ko Yee Estate Kwai Chung Estate Kwai Fong Estate Kwai Shing (East) Estate

Kwai Shing (West) Estate Kwong Fuk Estate Kwong Tin Estate Kwun Lung Lau Kwun Tong Garden Estate Lai King Estate Lai Kok Estate Lai On Estate Lai Tak Tsuen Lai Yiu Estate Lakeside Garden Lee On Estate Lei Cheng Uk Estate Lei Muk Shue (I) Estate Lei Muk Shue (II) Estate Lei Yue Mun Estate Lek Yuen Estate Lok Fu Estate Lok Man Sun Chuen Lok Wah (North) Estate Lok Wah (South) Estate Long Ping Estate Lower Ngau Tau Kok (II) Estate Lower Wong Tai Sin (II) Estate Lung Hang Estate Lung Tin Estate Ma Hang Estate Ma Tau Wai Estate Mei Lam Estate Mei Tuna Estate Ming Tak Estate Ming Wah Dai Ha Model Housing Estate Moon Lok Dai Ha Mountain Shore Nam Cheong Estate Nam Shan Estate Nga Ning Court Nga Wan Estate Oi Man Estate Oi Tung Estate On Tin Estate On Ting Estate On Yam Estate Pak Tin Estate Park Belvedere Ping Shek Estate Ping Tin Estate
Po Tat Estate Po Tin Estate **Prosperity Court** Prosperous Garden Radiant Towers Regal Court Sai Wan Estate Sam Shing Estate Sau Mau Ping Estate Serenity Place Sha Kok Estate Sha Tau Kok Chuen Shek Kip Mei Estate Shek Lei (I) Estate Shek Lei (II) Estate Shek Wai Kok Estate Shek Yam (East) Estate

Sheung Lok Estate Sheung Tak Estate Shun Lee Estate Shun On Estate Shun Tin Estate Siu Sai Wan Estate So Uk Estate Sun Chui Estate Sun Tin Wai Estate Sunshine Grove Tai Hang Tung Estate Tai Hing Estate Tai Ping Estate Tai Wo Hau Estate Tai Yuen Estate The Pinnacle Tin Chak Estate Tin Heng Estate Tin Shui (I) Estate Tin Shui (II) Estate Tin Tsz Estate Tin Wah Estate Tin Wan Estate Tin Yan Estate Tin Yat Estate Tin Yiu (I) Estate Tin Yiu (II) Estate Tin Yuet Estate Tivoli Garden Tsui Lam Estate Tsui Lok Estate Tsui Ping (South) Estate Tsz Ching Estate Tsz Hong Estate Tsz Lok Estate Tsz Man Estate Tui Min Hoi Chuen Tung Tau (I) Estate Tung Tau (II) Estate Un Chau Estate Upper Ngau Tau Kok Estate Upper Wong Tai Sin Estate Verbena Heights Wah Fu (I) Estate Wah Fu (II) Estate Wah Lai Estate Wah Sum Estate Wan Hon Estate Wan Tsui Estate Wang Tau Hom Estate Wo Lok Estate Wong Chuk Hang Estate Wu King Estate Yat Tung (I) Estate Yat Tung (II) Estate Yau Oi Estate Yau Tong Estate Yiu Tung Estate Yue Kwong Chuen Yue Wan Estate

1 Lion Rock Road 10 Lok Fung Path 11 Macdonnell Road 111 High Street 127 Repulse Bay Road 133-139 Electric Road 18 Farms Road 45 Island Road 56 Repulse Bay Road 6 Lok Fung Path 8 Waterloo Road Academic Terrace Aegean Coast Aldrich Garden Anglers' Bay AquaMarine Bailey Garden Balmoral Garden Bauhinia Garden Bauhinia Gardens Bav View Garden BayCrest **Bayshore Apartments Bayview Mansion** Bayview Park Beaulieu Peninsula **Belair Gardens** Belgravia Belleve Garden Bella Vista Belvedere Garden Phase II Beneville Beverley Heights Beverly Garden Beverly Hill Birchwood Place Bowen's Lookout Branksome Brilliant Garden **Broadview Court** Camellia Court Cameo Court Cape Mansions Caroline Garden Casa Bella Casa Marina I Casa Marina II Cathay Lodge Century Towers Charming Garden Charmview Court Chateau Royale Chelsea Court Cheong Fai Building Cheong Ming Building Cheung On Estate Cheung Wah Estate Chi Cheung Building Chi Fu Fa Yuen Chi Lok Fa Yuen Ching Fai Terrace Ching Lai Court Choi Ming Court Chuang's Heigh

**Private Housing Estates** 

The Merrylands

The Metropolis
The Montebello

#### **Private Housing Estates**

Chun Man Court Chung Hwa & Kiu Shing Building Chuna Yuen Buildina City Garden City One Shatin City Regalia Classical Garden III - Dynasty View Classical Garden IV - Grand Dynasty View Common Bond Building Concord Building Conifer Lodge Constellation Cove Convention Plaza Apartments Covent Garden Craigmount Crowfields Court Crystal Park Cypresswaver Villas Dawning Views De Fenwick De Victoria Deer Hill Bay Delight Court Discovery Bay Dragon Court Dragon View Durham Road 9 Dynasty Court Dvnastv Heights East Point City (Residential) Echo Peak Tower Eldo Court Elegance Garden Elegant Garden Elegant Terrace Ellery Terrace Elm Tree Towers Emerald Garden **Emperor Height** Eva Court Evergreen Place Fairview Court Fairview Heights Far East Yuen Long Bldg Faradav House Finery Park Flora Plaza Floral Towe

Florence Plaza

Fok On Garden

Fontana Gardens

Foo Tat Building

Fortune Court

Fu Loy Garden

Fortune Garden

Fu Lee Loy Mansion

Forest Hill Fortuna Court

Fu Ning Garden Fu Tao Building Fu Tor Lov Sun Chuen Stage II Fujiya Mansion Fuk Lung Building Fulham Ğarden Full Harvest Building Full Jade Mansion Fully Mansion Fung Cheong Building Fung Shing Street Disciplined Services Quarters Fung Ting Court Fung Wah Estate Galaxia Gallant Court Garden Rivera Garden Vista **Gateway Apartments** Glamour Court Glory Rise Golden Jade Heights Golden Lion Garden Stage Golden Phoenix Court Goldmine Building Grand Court Grand Del Sol Grand Horizon Grand Pacific Views / Grand Pacific Heights Grand Regentville Grand View Garden Grandview Garden Grandview Tower Granville Garden Greenfields Greenery Crest Greenery Place Greenery Plaza Greenery Villa Greenfield Garden Greenview Garden Greenwood Garden Greenwood Terrace Greenwood Terrace Haddon Court Hamden Court Hamilton Court Handsome Court Hanford Garden Hang Fu Building Hang Hing Court Hang Tung Building Harbour Heights Harbour View Garden Harmony Garden Hawaii Garden Healthy Gardens Heng Fa Chuen

Heng Fa Villa

Hilltop Gardens

Heung Yuen Building

Hillwood Court Hilton Plaza Hin Kena Estate Hing Hon Building Hing Tin Estate Hoi Tao Building Homantin Police Married Quarters Hong Fai Building Hong King Building Hong Kong Baptist University Staff Quarters Hong Kong Gold Coast Hong Lok Yuen Hong Nga Court Hong Sing Garden Hong Tin Court Hong Villa Honor Villa Honour House Hop Yick Building Hop Yick Plaza Horae Place Horizon Place Hua Hai Building Hung Kwong Building I-Feng Building Blk A Illumination Terrace Imperial Court Imperial Terrace Island Harbourview Island Place Island Resort Ivv On Belcher's Jade Court JC Place Jolly Place Jov Garden Jupiter Terrace Ka Lung Court Ka Yee Court Ka Young Building Kadorrie Avenue Mansion Kai Fat Building Kam Fat Building Kam Hay Court Kam Men Mansion Kam Tai Court Kam Ying Court Kambo Building Kent Court Kin Ming Estate Kin Sang Estate Kin Yip Mansion King Lai Court King Ming Court King Nga Court King's Garden King's Park Hill

Kingsford Gardens

Kingswood Villas - Chestwood Court

Kingswood Villas - Kenswood Court

Kingswood Villas - Locwood Court

Kingsford Height

Kingswood Villas - Lynwood Court Kingswood Villas - Sherwood Court Ko Chun Court Kwai Chung Police Married Quarters Kwong Fai Mansion Kwong Lam Court Kwong Sang Hong Block A Kwong Yuen DSQ Kwong Yuen Estate LaBella Mansion Lagoon Court Laguna City (Phase I, II & IV) Laguna City Phase 3 Lai King Disciplined Services Quarters Lai King Terrace Staff Quarters Las Pinadas Le Cachet Le Sommet Lee Bo Building Lee Ga Building Lei King Wan Lei On Court Leon Court Les Saisons Liberte Lido Garden Lotus Villa Lucky Court Luk Yeung Sun Chuen Lung Hin Court Lung Poon Court Lung Tak Court Lung Tang Court Maiestic Park Malahon Apartments Man Bo Building Man Fai Building Man King Building Man Kwong Court Man Wah Building Man Ying Building Man Yiu Building Mandarin Court Block 5 Manhattan Plaza Marbella Gardens Marina Garden Marina Habitat Maritime Bay May Tower Mei Chung Court Mei Sun Lau Mei Wah Mansion Metro City Phase Metro City Phase I Metro Harbour View Metro Loft Metropolitan Rise Miami Beach Towers (Phase I) Miami Beach Towers (Phase II Ming Fai Building

#### **Private Housing Estates**

Ming Yuen Mansion (Phase III) Minster Court Monmouth Place Monmouth Villa Monticello Mornina Jov Buildina Mountain Cour N.T. Depot PMQ Nerine Cove New Kwai Fong Gardens Newton Harbour View Newton Harbour View II Nichotson Tower No. 1 Hee Wong Terrace No. 1 Plantation Road No. 1 Po Shan Road No. 77 The Peak Nob Hill Ocean Pointe Ocean Shores Ocean View Oceania Heights On Hong Building On Ga Building On Kav Court On Ning Garden Opulence Height Orchid Court Oscar By The Sea Pacific Palisades Palatial Crest Palatial Stand Palm Beach Palm Court Palm Cove Paradise Square Parc Oasis (Tower 1-20) Parc Oasis II Parc Palais Parc Regal Parc Rovale Parc Versailles I & II Park Central Park Island Park Mansions Park Place Park Vale Park View Garden Parkland Villas Parkside Villa Peace Building Peace Court Peaksville Piccadilly Mansions Pik Uk Correctional Services Quarters Po Chi Court Po Pui Court Po Shan Mansions Block B Po Tak Bldg

Pokfulam Gardens Pok Hong Estate Prima Villa Prince of Wales Hospital SQ (BLK E) Pristine Villa Provident Centre Queen's Garden Queen's Terrace Rayana Garden Realty Garden Regence Royale Regency Park Regentville Repulse Bay Towers Residence Bel-Air Rhine Terrace Rhythm Garder Rica Victoria Riviera Gardens Robinson Heights Robinson Place Rockford/Clifford Mansion Rose Dale Gardens Royal Court Royal Dragon Villa Royal Green Royal Palms Royal Peninsula Royal Sea Crest Royal Terrace Sai Kung Town Centre San Po Kong Mansion San Wai Court Sau Mau Ping Disciplined Services Quarter Scenery Garden Sceneway Garden Scenic Gardens Scenic Horizon Scenic View Sea Cliff Mansions Sea Crest Terrace Sea Crest Villa Phase Sea Crest Villa Phase 2 Sea Crest Villa Phase 4 Seasons Villas Seaview Crescent Seaview Garden Serenade Cove Serenity Park (Phase I) Serenity Park 2 Sereno Verde Sevmour Place Sham Wan Towers Shan Tsui Court Shatin Centre Shatin Heights Shatin Park Phase III Shatin Plaza Shatin PMQ / FSQ Shau Kei Wan Plaza

Shun Lee Disciplined Services Quarter The Palace Silver Mansion The Parcville Silver Star Court The Pinnacle Site 1, Aberdeen Centre The Rainbow Garden Site 2-5. Aberdeen Centre The Regalia Siu Hong Court (Phase 3 & 4) The Regalis Sky Horizon The Repulse Bay Skylight Tower The Sea Crest Skyline Mansion Block 2 The Somerest Skyline Plaza The Tolo Place South Bay Garden The Trend Plaza South Bay Towers The Villa Horizon South Horizons The Waterfront South Wave Court Three Bays Tin Ping Estate Splendid Place Stanley Court Ting Fook Villas Starcrest Ting Nga Court Stewart Terrace Top Jade Mansion Summit Terrace Town Square Treasure Court (Blk 1-9) HSK Sun Court Sun Shing Centre Tropicana Court Sun Sing Centre Sun Tuen Mun Centre Tropicana Gardens Tseung Kwan O Fire Services Quarters Tsing Chung Koon Road GQ Suncrest Tower Tsing Yi Garden
Tsing Yi Police Married Quarters Sunderland Estate Sunshine City A-B Sunshine City C-D Tsing Yung Terrace Sunshine City E-M Tsuen Wan Fire Services Quarters Sunshine City N-R Tsui Chuk Garden Tsui Wan Estate Sunway Gardens Supernova Stand Tsz Oi Court Stage III Tuen Mun Town Plaza Symphony Garden Tai Kung Building Tui Wah Building Tai Po JDQ Tung Chun Court Tai Wan Building Tuna Chuna Crescent Tung Kei Building Tak Lee Court Tak Po Garden Tung Keung Building Tak Wai Building Tung On Building Tung Wai Court Tak Tai Court Tak Tin Estate Tycoon Court Tang Court Universal Phase I Building Tanner Garder Tavistock, TavistockII & Aigburth Valiant Park The Arcadia Valverde Vantage Park The Belcher's The Bloomsville Venice Gardens The Cairnhill Vianni Cove The Caldecott Victor Court The City Culture Villa Athena The Cliveden Villa by the Park The Colonnade Villa Lotto Villa Oceania The Floridian Villa Pinada The Gracedale Villa Premiere The Grand Panorama Villa Rocha The Harbourside Villa Tiava The Harbourview Villa Veneto The Manhattan Village Garden The Mayfair Village Tower

Sheffield Villas

Sheung Shui Centre

Shun Fai Building

#### **Commercial and Industrial Buildings**

Villas Sorrento Vision Court Wah Fai Court Wah Fat Building Wah Kwai Estate Wah Lok Building Wah Ming Center Blk A & B Wah Ming Estate Wah Shun Gardens Wah Sun Building Wai Fat Building Wai Wah Court Waldorf Garden Wan Tau Tong Estate Wang Fai Mansion Wealth Garden Wealth House Wealthy Court Welland Plaza Wellive Court Wesley Villa West Kowloon Disciplined Service Quarters Whampoa Garder Wilshire Park Windsor Court Windsor Heights Windsor Villa Wing Fai Mansion Wing Taing Road Fire Services Quarter Winsome Park Wo Fat Mansion Wo Ming Court Wonderland Villas Wong Tai Sin Disciplined Services Wong Tai Sin Estate Phase 1&4 Wong Tai Sin Fire Services Quarter Woodland Crest Woodland Heights World-Wide Garden Wyler Gardens Hang Chien Court Yee Fai Building Yee Fung Court Yee Kok Court Yee Nga Court Yen Hau Mansion Yick Fai Building Ying Ga Garden Ying Ming Court Ying Wa Court Yiu On Estate

Yu Tung Court

Yue Fai Court Yue Xiu Plaza

Yuet Wu Villa

Yuk Lung Mansion

Yuk Sing Building

108 Java Road Commercial Centre Hewlett Centre 135 Bonham Strand Trade Centre Hilder Centre 148 Electric Road Hing Lee Commercial Building 235 Wing Lok Street Trade Centre Hing Yip Commercial Centre Hip Kwan Commercial Building Hip Lik Industrial Building 625 King's Road ABBA Commercial Building Ho King Commercial Centre Allways Centre Argyle Centre Phase I Hollywood Centre Bank of America Tower Hong Kong Industrial Centre Beverley Commercial Centre Hong Kong International Terminals Big Star Centre Hong Kong Spinners Industrial Building Boss Commercial Centre Phase I. II. IV Bowring Commercial Centre Hong Leong Industrial Complex Houston Centre Houston Industrial Building Cable TV Tower Canny Industrial Building Carfield Commercial Building **HSBC** Centre Carnival Commercial Building Century Industrial Centre **HSBC** Main Building Hung Cheong Factory Building Hutchison Logistics Centre Cheung Kong Factory Building Cheung Lung Industrial Building Island Place (Management) Ltd China Hong Kong City China Hong Kong Tower Jetta House Joseph Yen Industrial Building China Insurance Group Building Kentucky Industrial Building King's Commercial Building China Resources Building Chit Lee Commercial Building Kingsway Ind'l Bldg (Phase I & II) Citygate Management Office Kong Nam Industrial Building Cityplaza Management Office Kowloon Bay Industrial Centre Clifford Centre Kowloon Government Offices Comweb Plaza Kowloon Plaza Kwai Tak Industrial Centre Concordia Plaza Kwong Wah Plaza Corporation Park Corporation Square Kwun Tong Harbour Plaza Crown Data Centre I Kwun Tong Plaza Lai Cheong Factory Building Crown Data Centre II Crown Data Centre III Lane Crawford House CTMA Centre Leader Industrial Centre Leader Industrial Centre Delta House Dragon Industrial Building Lee Hang Industrial Building Liberal Factory Building Lucida Industrial Building Enterprise Square Enterprise Square 2 Enterprise Square Three Mansfield Industrial Centre Everglory Centre EW International Tower Millennium City 1 Millennium City 2 FairView Commercial Building Millennium City 3 Far East Finance Centre Millennium City 5 Festival Walk Management Office Mong Kok Commercial Centre Fu Hang Industrial Building Mongkok Christian Centre Fu Lee Commercial Building Nathan Center Galaxy Plaza New Commerce Centre Garment Centre New Jade Shopping Arcade Gold Way Industrial Centre New Tech Plaza Golden Dragon Comm Building New Trade Plaza Golden Plaza **New Trend Centre** GoodView Centre New World Renaissance Hotel Grandtech Centre Ocean Building Guardforce Centre Office Tower, Convention Plaza Hang Bong Commercial Centre Olympian City 1 Olympian City 2 Hang Cheong Factory Building Hang Ngai Jewelry Centre One Capital Place Hang Wai Industrial Building One International Finance Centre Harbour Building Harbour Centre Tower 2 Pacific Place Management Office Hermes Commercial Centre Pacific Trade Centre

Pakpolee Commercial Centre Pan Asia Centre Perfect Industrial Building Ping Fai Industrial Building Ping Wui Centre Pinocine Building Prat Commercial Building Premier Centre Progress Commercial Building Prosper Commercial Building Queen's Tower Queensway Government Offices Redge House Righteous Centre Rightful Centre Rise Commercial Building Ritz Plaza Royal Commercial Centre Seaview Centre Shing Hing Commercial Building Shiu Fat Industrial Building Shui On Centre Shun Fat Industrial Building Shun Tak Centre Siu Wai Industrial Centre Skyline Tower Skyline Tower South Seas Centre Star House Sun Cheong Industrial Building Sun Fai Commercial Centre Sunwise Industrial Building Tai Tak Industrial Building TaiKoo Place Management Office Telford House The Center The Centrium Top Glory Tower Tsim Sha Tsui Centre Unionway Commercial Centre Universial Trade Centre Wai Ching Commercial Building Wai Wah Commercial Centre Wang Cheong Industrial Building Wealth Commercial Centre Well Tech Centre WellBorne Commercial Centre Wheelock House Wing Fat Industrial Building Wing Hing Industrial Building Wing On House Winning Commercial Building Winsome House Witty Commercial Building World Tech Centre World Trade Square Yau Tong Industrial City YCH Chinachem C & A Home Yiko Industrial Building Yue Fai Cmmercial Centre Yuen Fat Industrial Building Yuen Long Trade Centre Yuen Shing Industrial Building

#### **Schools**

#### University

City University of Hong Kong Hong Kong Baptist Univers Hong Kong University of Science and Technology

The Chinese University of Hong Kong The Hong Kong Polytechnic University The Open University of Hong Kong The University of Hong Kong

#### **Tertiary School**

Hong Kong Baptist Theological Seminary Hospitality Industry Training and Development Centre The Hong Kong Institute of Education VTC School of Business and Information Systems

#### Secondary School

Assembly of God Hesron Secondary School Baptist Wing Lung Secondary School Bishop Paschang Memorial School C.C.C. Tam Lee Lai Fun Memorial Secondary School Caritas Fanling Chan Chun Ha Secondary School CCC Kei Chi Secondary School CCC Kung Lee College CCC Ming Yin College Chinese International School Chinese Y.M.C.A. College Ching Chung Hau Po Woon Secondary School
Cognitio College (Kowloon)
CUHK FAA Thomas Cheung School
Delia Memorial School (H.W.) Diocesan Boys' School F. D. B. W. A. Mrs Fung Ping Shan Primary School Fanling Government Secondary School G.T. (Ellen Yeung) College

HKMLC Queen Maud Secondary School HKSYC&IA Chan Nam Chong Memorial School Hoi Ping Chamber of Commence Secondary School Hong Kong Chinese Women's Club College Hong Kong Taoist Association The Yuen Yuen Institute No St. Mark's School 3 Secondary School Kwai Chung Methodist College Lam Tsuen Public Wong Fook Luen Memorial School Lions College LST Young Ko Hsiao Lin Secondary Marymount Secondary School Po Leung Kuk Laws Foundation College Po Leung Kuk Yao Ling Sun College Queen's College Old Boys' Association Secondary School Times College Queen Elizabeth School Old Students Association Tseung Kwan C Secondary School Rosarvhill School (Secondary Section) S.K.H. Li Fook Hing Secondary School Shun Tak Fraterval Association Seaward Woo College

Shun Tak Fraterval Association Yung Yau College South Tuen Mun Government Secondary School SSY Ho Ngai College St. Antonius Girls' College St. Paul's School, Lam Tin T.W.G.Hs Sun Hoi Directors' College Ta Ku Ling Ling Ying Public School Tack Ching Girls' Secondary School Tang King Po School The Chinese Foundation Secondary School The Hong Kong Management Association KS Lo College Tseung Kwan O Government Secondary School TSK Victoria Government Secondary School Tsuen Wan Trade Association Primary School Wong Shiu Chi Secondary School Yan Čhai Hospital No 2 Secondary School

#### Primary School

Aldrich Bay Government Primary School Alliance Primary School Kowloon Tong Asbury Methodist Primary School Baptist (STW) Lui Ming Choi Primary School Baptist Rainbow Primary School Buddhist Wong Cheuk Um Primary School C.C.C. Kei Ching Primary School P.M. CCC Chuen Yuen First Primay School Chinese Methodist School (North Point) A.M. Section Chun Tok School Confucian Tai Shing Primary School Conservative Baptist Lui Ming Choi Primary School (A.M.) Dr. Catherine F. Woo Memorial School (p.m.) Emmanuel Primary School Emmanuel Primary School Kowloon Good Counsel Catholic Primary School Good Shepherd Primary School (PM)

Ho Yu College and Primary School (Sponsored by Sik Sik Sir Ellis Kadoorie (Sookunpo) Primary School Hong Kong Baptist Convention Primary School Hop Yat Church School Hung Hom Government Primary School Kowloon Tong School (Primary Section) Lutheran L.K.K. Primary School (PM) Ng Wah Catholic Primary School Our Lady of China Catholic Primary School Po Leung Kuk Chan Yat Primary School Po Leung Kuk Wong Clan Association Primary School Rosaryhill School (Primary Section) S.K.H. Fung Kei Primary School S.T.F.A. Wu Siu Kui Memorial Primary School (P.M.) Sacred Heart of Mary Catholic Primary School (a.m. Sacred Heart of Mary Catholic Primary School (p.m.) Shak Chung Shan Memorial Catholic Primary School

SKH Kei Lok Primary School St Bonaventure Catholic Primary School St. Antonius Primary School A.M. Section St. Antonius Primary School P.M. St. Stephen's Church Primary School STFA Leung Kit Wah Primary School T.W.G. Hs. Leo Tung Hai Lee Primary School Tan Chuk Hang Public School Tsing Yi Trade Association Primary School Tuen Mun Government Primary P.M. School Tung Koon School (Sheung Shui) Xianggang Putonghua Yanxishe Primary School of Science Yan Oi Tong Tin Ka Ping Primary School Yau Ma Ti Catholic Primary School (Hoi Wang Road)

#### Kindergarten

Belvedere Angle-Chinese Kindergarten

Christian Alliance Chen Lee Wing Tsing Mem Kindergarten

Lei Yue Mun Methodist Kindergarten Christian Alliance Louey Choy Kwan Lok Kindergarten Christian Family Service Centre Cheerland Day Nursery Christian Family Service Centre Tak Tin Day Nursery Christian Little Angel K/G (Richland Gardens) Creative Kindergarten (Sceneway Garden) Creativity (Park Vale) Kindergarten Deborah English Kindergarten Deborah English Kindergarten (Bauhinia Garden) ELCHK Amazing Grace Child Care Centre Faith Lutheran Church Kindergarten HKYWCA Cheung Ching Nursery HKYWCA Lung Hang Nursery Hong Kong 5-S Kindergarten & Int'l Child Care Centre Hong Kong Society for the Protection of Children Ma Tau Chung Day Nursery Hop Yat Church Kindergarten

Alice Lan & Vera Shen Education Fund Gordon Pei Nursery Hop Yat Church Shin Ka Chuen Memorial Kindergaten Ling On Child Care Centre Lok King Kindergarten
Loving Heart Lutheran Kindergarten Ming Wai International Preschool Ming Wai kindergarten Ming Wai kindergarten (North Point Branch)
NT Tin Sum Anglo-Chinese Kindergarten Po Leung Kuk Butterfly Bay Nursery
Po Leung Kuk Tin Ka Ping Siu Hong Kindergarten S.K.H. St. Matthias' Church Chiu Chun Kindergarten Shin Yat Tong On Yat Kindergarten St. James Lutheran Kindergarten t. James' Settlement Kathleen McDouall Child Care Ctr T.W.G.H. Liu Yan Tak Memorial Kindergarten T.W.G.H Hung Wong kar Gee Day Nursery

T.W.G.Hs Lui Fung Faung Memorial Kindergarten T.W.G.Hs Wong Chu Wai Fun Kindergarten
The Eyangelical Lutheran Church of Hong Kong Cheung Wah The HK Chinese Women's Club Child Care Centre The Salvation Army Ng Kwok Wai Memorial Kindergarten Tin King Estate Baptist Lui Kwok Pat Fong Kindergarten Tivoli Anglo-Chinese Kindergarten Truth Baptist Church Child Care Centre Tsing Yi Rural Committee Kindergarten
Tsing Yi Trade Association Shek Yam Kindergarten Tsung Tsin Mission Graceful Kindergarten & Nursery (Ma On Shan) Tung Chung Baptist Kindergarten

Victoria Nursery & Causeway Bay Victoria Nursery

Victoria Kindergarten

# 召集人的序言

在香港,回收充電池是一個頗為嶄新的概念。人們往往並無留意 他們家中和辦公室的電子用品有很多都使用充電池,也不知道這 些電池含有可再造物料,如果棄置在堆置區可能會變成有害物 質。我們推行「充電池回收計劃」的目的,是希望提高市民在這 方面的意識和改變他們的習慣。計劃推行的首年成績已相當不 俗,令人鼓舞。

計劃自二零零五年四月推出以來至二零零六年三月底,充電池的回收率已達到5%,較其他地區一般的回收率高出約一倍之多。現行的回收網絡已覆蓋廣泛地區,但我們仍會不斷擴大範圍。電池和電子產品業界透過生產者責任計劃籌辦和提供所需經費,不但確保能以較環保的方式處理充電池,更可以向其他行業証明,生產者承擔產品對環境影響的責任是可實行的。

建立了適當的機制以後,下一步便是致力提高公眾意識。在二零零六年一月進行的一項調查顯示,僅有約半數香港市民知道有「充電池回收計劃」。我們所訂的兩年目標是在二零零七年三月底或之前回收率達到10%。因此,我們會加強宣傳,呼籲更多市民積極參與這項饒有意義的計劃。

充電池回收計劃工作小組召集人(2006/2007) GPI國際有限公司吳淑娟小姐 **7.** □ 關於充電池回收計劃



充電池回收計劃開幕典禮



合照

#### 7.1 背景

試驗計劃的結果顯示,在香港回收 充電池是可行的。在二零零五年四 月九日展開的「充電池回收計劃」 ,把回收電池的種類擴展至各類 便攜式充電池。這計劃也是由業 界籌辦和資助的自願性生產者責 任計劃。環境保護署和兩個環保 團體,即地球之友和綠色力量, 為計劃提供技術和行政支援,以



N BE

彻世

#### 7.2 參與公司

參與籌辦的公司共有34間充電池和電子產品的生產商和進口商(公司名單見附件一)。這些公司為計劃提供所需經費。產生較多廢充電池的公司每年支付25,000元,較少的公司每年5,000元。計劃首年所籌集的資金共港幣51萬元。

根據這項生產者責任計劃,回收充電池的責任由生產商、進口商、零售商和消費者共同承擔。

#### 7.3 工作小組

「充電池回收計劃」由業界、環境保護署和環保團體組成的三方夥 伴工作小組負責管理。在二零零五至零六年度,工作小組共有19名 成員(成員名單見附件二)。環境保護署黃棟剛博士為工作小組召 集人,而綠色力量的文志森博士則擔任司庫。此計劃分別於二零零 五年八月二十四日舉行工作小組會議,及於二零零六年三月八日召 開周年大會。



充電池回收計劃回收點



周年會議

#### 7.4 計劃如何運作

「充電池回收計劃」在香港多處地點設置回收點,收集鋰離子(Liion)、鎳氫(NiMH)和鎳鎘(NiCd)電池。這項服務費用全免,所收集的電池會運往海外設施循環再造。

為使計劃更具成效,我們邀請零售商、鐵路營辦商、物業管理公司和學校提供回收點。計劃設有主要和輔助回收點。主要回收點設於市民大眾容易接觸到的鐵路車站、連鎖店和其他零售店。它們由多間支援公司(大部份是零售商和鐵路營辦商)和34間籌辦公司設置(支援公司的名單見附件三)。這些公司

旗下店舖所收集到的電池運送到他們內部特定的中央點集中儲存, 以待計劃指定的收集商收集。

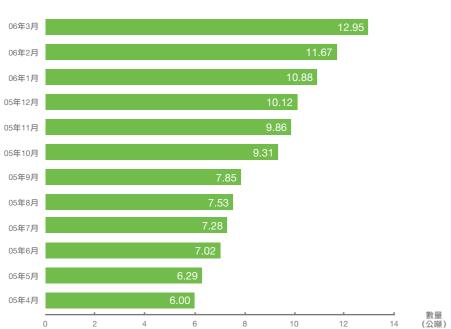
輔助回收點設於參與的屋苑、工商 業樓宇和學校(名單見附件四) 內。所收集的電池會送往就近的主 要回收點,然後由收集商收集。



#### 8.1 收集

數量:政府的目標,是在二零零七年三月底前回收本港10%廢棄充電池循環再造。在二零零五年四月九日至二零零六年三月三十一日,我們共回收了13公噸充電池(相等於320,000枚),佔廢棄充電池總數5%。回收的電池約40%來自工商業。其他國家也有推行類似的自願性計劃,但首年的回收率一般只有2%至3%,相比之下,香港的成績已相當不俗。

圖表 8.1.1 二零零五至零六年的充電池回收量



註:「流動電話電池回收計劃」和「充電池回收計劃」在 二零零五年四月同時進行。

回收點:年內,回收點的數目增加了超過40%。我們最初在二零零五年四月九日推出計劃之時,共設置了1,071個回收點。到了二零零六年三月三十一日,回收點的數目已增至1,514個,遍布全港各區。



回收點總數	:	1,514
南區		

Α	南區	66
В	中西區	150
С	灣仔	90
D	東區	129
E	油尖旺	154
F	九龍城	103
G	九龍塘	106
Н	深水埗	71
	黃大仙	64
J	葵青	95
K	沙田	98
L	荃灣	56
M	屯門	79
N	元朗	78
0	大埔	42
Р	西貢	62
Q	北區	43
R	離島	28



工商業電池廢物:有些公司在日常的業務中會產生大量電池廢物: 全港總數約為一年50公噸。這些廢物一直受化學廢物規例管制,由 持牌收集商運到堆填區以安全的方法處置。

工作小組接納了環境保護署的建議,同意擴大「充電池回收計劃」的範圍,接收工商業電池廢物。自二零零五年六月起,環境保護署一直聯絡各主要廢物生產者,勸諭他們不要再將廢充電池運往堆填區棄置,應該參與回收計劃以將廢電池循環再造。廢物生產者每次須支付收集及循環再造費用。地下鐵路公司是首間參與計劃的機構。

#### 回收工商業電池廢物的收費

電池類別	費用(港幣/千克)
鋰離子	3.70 元
鎳氫	3.70 元
鎳鎘	3.70 元
<b>鎳鎘(工業用-不含電解液)</b>	5.30 元
<b>錦鎘 (工業用・含電解液)</b>	6.10 元

產生大量電池廢物的工商業機構須支付收集及循環再造費用,而市民則可免費 使用這項服務。

收集商:正昌環境管理有限公司是計劃的指定持牌收集商。除了到各參與及支援公司的中央點收集電池外,收集商還須將電池分類和量重,以及在每枚電池的金屬端子上貼上遮蔽保護膠紙(皺紋膠紙)。

收集商會每隔一個或兩個月收集廢電 池一次,視乎數量而定,亦會按要求 作特別的收集安排。



將回收的充電池分類

#### 8.2 循環再造

充電池含有具價值的物料例如鈷、鎳和鎘等,可回收及出售作不銹鋼、磁合金和鎘電池的材料。首批重13公噸的充電池已於二零零六年四月運往南韓循環再造。



充電池回收計劃首次載運典禮



#### 8.3宣傳推廣

在二零零五年九月至二零零六年三月,環境保護署為計劃大力進行 宣傳活動。重點宣傳包括:

- 拍攝一套有關「充電池回收計劃」的政府宣傳聲帶和短片,供 電台和電視台播放。
- 在25輛巴士和5輛電車的車身展示廣告,並在新巴巴士上播放廣 告宣傳短片。
- 在各地鐵站和部分九鐵車站刊登廣告。
- 製作供學校使用的教材套。
- 在電費、水費及煤氣費帳單內加入宣傳信息。
- 在政府設施和郵政局張貼計劃的海報。
- 到學校及屋苑進行超過50次外展探訪活動。
- 在學校和屋苑舉辦海報及電池回收箱設計比賽









#### 8.4 就公眾意識和參與進行 的調查

我們在二零零六年一月聘請城市大 學進行電話調查,以評估市民對計 劃的認識和參與程度。超過1,000 名市民接受了電話訪問。調查結果 發現:

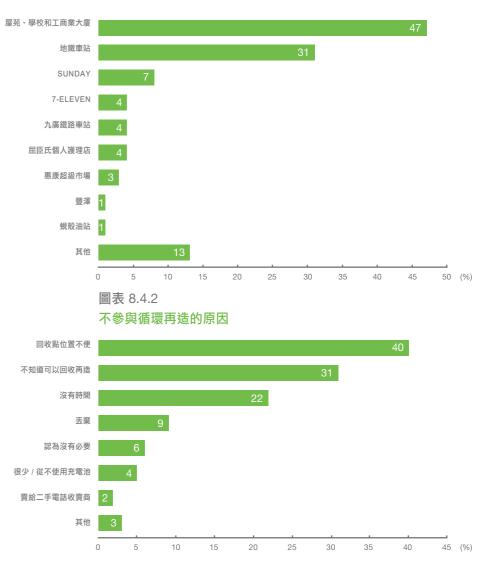
- 知道「充電池回收計劃」的受 訪者佔49%。
- 在知道該計劃的市民當中,只 有36%知道哪裡可以找到回收 點。我們有必要向市民加強宣 傳回收點位置。

#### 7 見圖表 8.4.1

• 73%有意交回充電池回收再造 的受訪者中,43%表示多數會 這樣做,只有30%表示一定會 這樣做。強大的宣傳攻勢十分 有用,我們會繼續向市民進行 宣傳推廣。

7 見圖表 8.4.2

圖表 8.4.1 市民通常會知道他們住所、辦公室和學校的回收點位置



以及吸納新成員

### 

「充電池回收計劃」在本年度有盈餘,原因是我們用10%回收率作首年預算,而全年回收了5%。

截至二零零六年三月為止,計劃有港幣147,809.9元盈餘,這筆款 項會用於來年的宣傳工作<u>上。</u>

	二零零五 / 零六年度	
活動	原本預算	最終開支 <sup>[1]</sup>
回收及分類	156,000 元	106,851.9 元
出口及循環再造	94,000 元	27,835 元
宣傳 <sup>[2]</sup>	260,000 元	227,503.2 元
總計	510,000 元	362,190.1 元

- [1] 實際支出數目摘錄自綠色力量編纂的對帳單。
- [2] 環境保護署亦在二零零五至零六年度額外提供110萬元進行宣傳,以鼓勵市民積極參與充電池回收。

10.

#### 展望未來

「充電池回收計劃」推行的首年,已 在回收工作及提高公眾意識方面奠下 根基。工作小組有信心能在這個基礎 上,大幅擴展電池回收和減少把有用 的物料送到本港堆填區棄置。 計劃進入第二年後,我們的工作主要會集中於兩個優先項目,即宣傳教育和吸納新成員。

招募工作:我們必須進一步擴大回 收點網絡,讓市民更容易參與回收 活動。此外,亦須確保所有產生充 電池的公司都參與其中。我們會嘗 試增加主要及輔助回收點的數目, 雖然一些充電池和電子產品的生產商和進口商仍未參與計劃,不過,他們的消費者所產生的廢充電池最終都被投放到回收箱內。來自這些「坐享其成」者的廢充電池佔二零零五至零六年度回收總數的10%。工作小組和環境保護署會與這些公司的管理

由於要擴大回收網絡和進行宣傳,我們需要額外的資金。二零零六至零七年度所需的經費為港幣65萬元,我們寄望新成員能增加計劃的收入。

層聯絡,設法鼓勵他們參與。

聯辦公司名單(2005-2006)

品牌 - 公司名稱

博世(電動工具)-美最時(香港)有限公司

百靈牌 - 吉列香港有限公司 佳能 - 佳能香港有限公司 金霸王 - 吉列香港有限公司

勁量-勁量香港有限公司

到量。到量百尺百成公司 EPSON - 愛普生香港有限公司 超霸 - 超霸電池有限公司 日立(數碼攝錄機及鬚刨) - 香港日立有限公司

Hi-Watt - 高力電池實業有限公司 HP, Compaq - 惠普亞太區(香港)有限公司 IBM - IBM 國際機器中國香港有限公司

JVC - 信興集團

Kodak - 柯達(香港)有限公司 松日 - 松日高科有限公司

Maxell - Maxell 亞洲有限公司

摩托羅拉-摩托羅拉亞太有限公司 摩托羅拉(對講機)-雅舒曼(香港)有限公司

NEC - 日本電氣香港有限公司 諾基亞 - 諾基亞(香港)有限公司 奧林巴斯 - 奧林巴斯香港中國有限公司 Oral-B - 吉列香港有限公司

Panasonic - 信興集<u>團</u>

Panasonic - 信興集團 飛利浦 - 飛利浦電子有限公司 理光 - 理光(香港)有限公司 SAFT - 帥福得香港有限公司 三星 - 三星電子香港有限公司 三洋(充電池) - 三洋能源(香港)有限公司 聲寶 - 聲寶 - 樂聲(香港)有限公司 西門子 - 西門子有限公司 新力愛立信 - 新力愛立信移動通信公司

新力愛立信 - 新力愛立信移動通信公司

新力,愛華-SONY(新力)香港有限公司

天諾思-天諾思香港有限公司 東芝(影音產品)-東芝香港有限公司

Uniross - Uniross Batteries (HK) Ltd.

#### **BOSCH** 博世

#### Canon







松回 **Matsunichi**®



#### NEC

#### NOKIA

**BRAUN** Hitachi CA Sheimer Hi-Watt JVC Duracell **Energizer** Kodak **EPSON** 

#### **OLYMPUS**

#### **Panasonic** 小野猫

#### **PHILIPS**









#### UNIROSS

**SHARP** Maxell Oral-B **Siemens** Ricoh **Toplux** SAFT **Toshiba** 

工作小組成員 (2005-2006)

環境保護署 綠色力量 地球之友 潘智生教授(香港理工大學) 美最時(香港)有限公司 佳能香港有限公司 超霸電池有限公司 信興集團 摩托羅拉亞太有限公司 日本電氣香港有限公司 諾基亞(香港)有限公司 飛利浦電子有限公司 三星電子香港有限公司 三洋能源(香港)有限公司 西門子有限公司 新力愛立信移動通信公司 SONY(新力)香港有限公司 天諾思香港有限公司

Uniross Batteries (HK) Ltd.

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# 附件三

支援公司 (2005-2006)

7-ELEVEN 豐澤 九廣鐵路公司 地鐵公司 蜆殼香港有限公司 SUNDAY 屈臣氏個人護理店 惠康超級市場



# 附件四

參與的屋苑、工商業大廈和學校名單

觀龍樓

葵盛(西)邨 廣福邨 廣田邨

觀塘花園大廈

#### 公共房屋

鴨脷洲邨 悅庭軒 寶石大廈 蝴蝶邨 版圖軒 加惠臺 加澤長長長長長長長長長長 象山 長宏邨 祖堯邨 龍濤苑 青逸軒 幸福邨 富昌邨 電富富富富富 富富東東 東 東 東 東 m俊厚健高浩興6 宋宏德康盛景民 明軒邨村臺臺邨8 深紅乙欣頌嘉 福明榮賢福 報本花花邨 園園 家維邨 啟德花園(第一期) 啟田邨 啟業邨 金坪邨健明邨 高翔苑 高怡邨 葵涌邨

葵盛(東)邨

荔景邨 麗安邨 勵德邨 麗瑤邨 翠塘花園 利安邨 李鄭屋邨 梨木樹(一)邨梨木樹(二)邨 鯉魚門邨 瀝源邨 樂富邨 樂民新村 樂華 (南) 邨 朗屏 美林邨 美東邨 明華大廈明華大廈 滿樂大廈 職業 職峯灣畔 南昌邨 雅寧苑 銀灣邨 愛東頓 安田邨 安蔭邨白田邨 雅景臺 坪石邨平田邨 寶達邨 寶田邨萬盛閣 駿發花園 旭輝臺 永豪閣 石籬(一)邨石籬(二)邨石黧角邨

石蔭(東)邨

石蔭邨 常樂邨 尚德邨 水邊圍邨 順利邨順安邨 小西灣邨 蘇屋邨 新翠邨 新田園邨 晴碧花園 噴大大太大大疊. 岩坑興平窩元翠潭 花東邨邨口邨軒都 翠屏(南)邨 慈正邨 慈康邨 午頭用上邨 黃竹仙花園 華富(一)邨 華富(二)邨 華荔邨 華郊邨(華冠樓及華勉樓) 雲漢邨環翠邨 横頭磡邨 禾輋邨 和樂邨 有 新 竹 持 景 東 ( ( ( ( ( )

油麗邨山地

耀東邨

漁光村 漁灣邨

#### 私人住宅大廈

獅子石道1號 樂楓徑十號政府宿舍 麥當勞道11號 意中野 淺水灣道127號 電器道大廈 農圃道18號 香島道45號 淺水灣道56號 窩打老道8號 學士臺 愛琴海岸 愛蝶灣 海雲軒 碧海藍天 碧麗花園 翠海花園 紫翠花園 寶盈花園 威豪花園 海峰華軒灣景樓 灣景園縣電影電影 南灣道57號 碧麗苑 蔚晴軒 麗城花園二期 聚康山莊 碧華閣\_ 比華利山 寶樺臺 Bowen's Lookout 蘭心閣 彩暉花園 郝德傑山 翠彤苑 烈海別墅 嘉路蓮花園 淺月灣一期 淺月灣二期 國泰新宇 世紀大廈富榮花園 雅怡雅苑 賽詩閣 昌明大廈 長安邨 慈祥大廈 置富花園置樂花園 清暉臺 清麗苑

#### 私人住宅大廈

莊士軒 度民苑 中華及僑盛大廈 中原樓 金碧閣 城市花園 沙田第一城 嘉裕居 新峰花園III期 - 御峰苑 新峰花園IV期 - 御峰豪園 金邦大廈鴻都大廈 滌濤山 華翠豪園 紀園 嘉樂閣 柏濤小築 牽晴間 維景軒 鹿茵山莊 愉景灣 恆龍隊 對衡道9號 帝景園 東港城(住宅) 寶峰閣 雅都花園 富雅花園 美景台 慧明苑 雅利德樺臺 偷富大廈 御景臺 寶雲山莊 安景閣 粉嶺名都 遠東發展元朗大廈 榕翠園 富麗花園 花都廣場

豪園

富來花園

富澤大廈 豐昌大廈 鳳庭苑 峰華邨 星河明居 麒麟閣 河畔花園翠湖花園 港威豪庭 華麗閣 港逸軒 金獅花園1期 金鳳閣 金源花園加林閣 朗晴居 海欣花園浪琴軒 御庭軒 金寶花園 慧景臺 恆峰花園 雍翠豪園 碧濤軒 翠韻華庭 愉景花園 翠華花園 康翠臺 華烈園 海天閣 愛敦大廈 恆順園 恆富大廈 恆興樓 海峰園海怡花園 富華廣場 福安花園 夏威夷花園 富達大廈 健威花園 杏花園 倚龍山莊 永光苑富麗閣 香苑 海港花園 雅景花園 富利來大廈

富寧花園 富都大廈 富多來新村二期 富十屋 福隆大廈 富林苑 滿發大廈 豐盛街紀律部隊宿舍 康睦庭園第二座

瓊林関

希爾頓中心

顯徑邨 興選大廈 興田都 海都 何文田警察已婚宿舍 康輝大廈 康景樓 香港浸會大學職員宿舍 香港黃金海岸 康樂園 康雅苑 康盛花園 康田苑峰景花園 翰庭軒 金勳大廈 合益樓 合益廣場A座 海悅豪庭 月海灣 華海大廈 鴻光大廈 益豐大廈A座 光明豪 帝豪閣俊庭居 維港灣 藍灣半島 綠意居 龍成花園 樂頤居 天樂園 縉景臺 嘉隆苑 嘉怡閣 家瀼大廈 加多利大廈 金發大廈錦禧苑 錦泰苑 錦英苑 根德閣健明邨 建業大廈 瓊麗苑 暑雅茄 皇冠花園京士柏山 瓊峰園 瓊峰臺 嘉湖山莊翠湖居

嘉湖山莊景湖居

嘉湖山莊樂湖居

嘉湖山莊賞湖居

高俊苑

葵涌已婚警察宿舍 廣輝大廈 廣林苑 廣生行大廈A座 廣源紀律部隊宿舍 嘉華星濤灣 利寶大廈 麗湖閣 麗港城(第1、2及4期) 麗港城3期 荔景紀律部隊宿舍 朗松居 嘉逸軒 利寶大廈利基大廈 鯉景灣 鯉安苑 利安閣 昇悅居 麗都花園 幸運関 綠楊新邨 龍軒苑 龍蟠苑 龍德芬 龍騰閣 龍欣茄 帝庭豪康 萬寶大廈文輝樓 文光関 文華樓 文耀樓 翠華五期大廈 馬寶花園 慧豐園 海悅豪園 梅苑 美新樓 美華大廈 新都城一期 港灣豪庭 都會坊 金都豪苑 邁亞美海灣(第一期) 明暉大廈 明雅苑

明園花園洋樓(3期)

萬信臺

#### 私人住宅大廈

萬茂苑 滿峰台 晨樂大廈 曉翠山莊 和富中心裕景花園 曉峰園 山景閣 芬園已婚警察宿舍 濱景花園 聯邦花苑 富滙豪庭 南浪海灣 海峰花園 新葵芳花園 帝庭軒 麗東海景豪園 麗東海景豪園第二期 貝沙灣 海韻臺 蔚豪苑 羲皇臺1號 采頤花園 種植道1號 寶珊道1號 港輝豪庭 海濱花園 盈暉臺 縉皇居 雍昙臺 維景灣畔 海典灣海典軒 阜朝関 嘉御龍庭 安康大廈 安基大廈安基苑 加州豪園 半鳥豪庭 安寧花園豐裕軒 帝華軒 御皇臺 安蘭閣 西盲死 清水灣半島 寶馬山花園 新圍苑 輝煌豪園 俊暉華庭 棕月灣 棕櫚閣 滙景花園 御景園 翠濤居 御景軒 百利達廣場 又一居(第1-20座) 又一居二期 曉暉花園 海峰園 君頤峰 浪烈園1期 賀龍居 帝欣苑一及二期 四季雅苑 海提灣畔 將軍澳中心 百年順大廈 韶澐居 雅柏苑 西寧閣 翠景花園 疊茵庭 柏麗豪園 蝶翠峰 信怡閣 深灣軒 金富洋樓 宜安閣 蔚巒閣 山翠苑 碧苑 壁屋懲教署職員宿舍 沙田中心沙田花園 松園 寶志閣 寶珮苑

寶城大廈

寶德大廈 薄扶林花園

放廷軒 威爾斯親王醫院宿舍

嘉柏園/嘉翠園 秀茂坪紀律部隊宿舍 浪翠園2期 浪翠園4期 太湖花園第2期 太湖山莊 沙田廣場
沙田已婚警察及消防宿舍 瑞豐華庭 上水中心

順利紀律部隊宿舍

銀星閣 香港仔中心第一期 香港仔中心第二至五期 兆康苑(第三、四期) 海天峰嘉麗苑 年豐園第二期 灣景庸場 南灣花園 南灣大廈 海怡半島南濤閣 匯豪峰 海灣園 星域軒 翠豐臺麗日閣 新成中心 新屯門中心 新德園 新港城 A-B 新港城 C-D 新港城 E-M 新港城 N-R 耀星華庭 朗峰園 大埔政府職員宿舍 大運大廈 得寶花園 德威大廈 德大閣 德田邨 達隆名居 丹拿花園 騰皇居, 譽皇居 寶翠園 陶源 喜珀山 高雅軒 寶雲匯 仁禮花園 逸意居逸怡居 嘉兆臺 君臨天下 港景別墅 曼克頓 The Mayfair 逸華軒 都會豪庭 嘉豪軒

逸樺園

嘉皇臺

采業庭 豪峰軒 彩華花園 帝鑾閣 影灣園 怡峰 新港城海濤居 海天灣 漾日居 Three Bays 定福花園 廣基大廈 荃灣城市廣場 康南閣 將軍澳消防宿舍 青松觀路政府宿舍 青怡花園 青衣已婚警察宿舍 青榕臺 荃灣消防宿舍 翠竹花園 翠灣邨 慈愛苑三期 屯門市廣場 翠華大廈 東駿苑 東基大廈 東強大廈 東威閣 雙溪別墅 海腦庸場 環海大廈壹期 慧豪閣 彗暑軒 威德閣 朗庭園 樂陶苑 茵翠豪庭 怡峰原 威都閣 山村大廈 御海園

莊輝閉

華發大廈

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#### 商業及工廠大廈

製衣中心

萬金中心裕景中心

偉達中心

衛安中心

高威工業中心

金龍商業大廈

恆邦商業中心

恆藝珠寶中心

恆威工業中心

海港政府大樓

維港中心二斯

恆貿商業中心

華貴邨 華樂大廈 華明中心AB座 華明邨 華信花園 華新大廈 彗莊関 華都花園 運頭塘邨 宏耀大廈 港麗豪園 宣裕居 富家関 華麗庸場 禁官閣 西九龍紀律部隊宿舍 黃埔花園 衛城閣 寶松苑 金莎花園 榮輝大廈 永定道消防已婚宿舍 和發大廈和明苑 華景山莊 黃大仙紀律部隊宿舍 黄大仙上村 黃大仙消防已婚宿舍 奕翠園 怡園 世界花園 偉恆昌新邨 - 恆景閣 怡輝大廈 怡閣苑 怡雅苑 怡峰茄 益輝大廈 英明芴 英華閣 裕東苑 漁暉苑 越秀廣場 悦湖山莊 玉龍樓

毓成大廈

渣華道108號商業中心 富德中心 文咸東街135商業中心 電氣道148號 **國利大** 興業商業中心 永樂街235商業中心 協群商業大廈 革阜道625號 協力工業大廈 利群商業大廈 好景商業中心 百達中心 田角中心第一座 荷李活商業中心 **香港工業由心** 美國銀行中心 香港國際貨櫃碼頭 百利商業中心 香港紗廠工業大廈第1,2,4期 巨显由心 豐隆工業中心 寶時商業中心 好時中心 寶靈商業中心 興盛工業大廈 滙豐中心 滙豐銀行總行 有線雷視大樓 佳力工業大廈 嘉匯商業大廈 和盖物流中心 港運城物業管理有限公司 世紀工業中心 兆孚工業大廈 根德工業大廈 昌隆工業大廈 中港城 中港大廈 金時商業大廈 金威工業大廈(第1,2期) 中保集團大廈 華潤大廈 江南工業大廈 九龍灣工業中心 九龍政府合署 東薈城辦事處 太古城中心辦事處 九龍廣場 香港中心 葵德工業中心 光華席場 經達廣場 康宏廣場 觀塘碼頭廣場 企業中心 觀塘廣場 麗昌工業大廈 商業廣場 嘉栢中心第一期 連卡佛大廈 嘉栢中心第二期 立泰工業中心 利達工業中心 嘉栢中心第三期 兆萬中心 匯達大廈 利行工業大廈泰昌工業大廈 龍翔工業大廈 企業廣場 龍力工業大廈 萬輝工業中心 企業廣場2期 創紀之城一期 創紀之城二期 企業廣場第三期 恆港中心 創紀之城三期 安泰國際中心 怡暑商業大廈 旺鱼商業大廈 遠東金融中心 **望覺基督教大樓** 又一城辦事處 富恆工業大廈 匯留中心 新翠商場 富利商業大廈 銀河廣場 新科技廣場

新貿中心 新時代工貿商業中心

新世界萬麗酒店

會展廣場辦公大樓

國際金融中心一期太古廣場辦事處

太平洋貿易中心

百寶利商業中心

華海廣場

奥海城一期 奥海城二期 泛亞中心 善美工業大廈 屏會中心 白麗仙 寶勒商業大廈 時豐中心 的學商業大廈 **興發商業大廈** 阜后商業大庫 金鐘道政府合署 宣時由心 興富中心 利時商業大廈 部斯中心 凱豪商業中心 誠興商業大廈 兆發工業大廈 順發工業大廈 信德中心 兆威工業大廈 宏天廣場 嘉禮大廈 南洋中心 星光行 新昌工業大廈 新輝商業中心 順力工業大廈大德工業大廈 太古坊辦事處 德福大廈 中環中心 中央廣場 鵬利中心 聯威商業中心 環留中心 偉程商業大廈 威華商業中心 宏昌工業大廈 廣發商業中心 威達工貿商業中心 威邦商業中心 會德豐大廈 榮發工業大廈 榮興工業大廈 永安集團大廈 運通商業大廈 雪山大廈 威達商業大廈 環貿商業中心 油塘工業城 仁濟醫院華懋護理安老院 益高工業大廈 裕輝商業中心

元郎貿易中心

源盛工業大廈

#### 學校

#### 大學

香港城市大學 香港浸會大學 香港科技大學 嶺南大學

#### 中學

#### 小學

#### 幼稚園

香港中文大學 香港理工大學 香港公開大學 香港大學

大專院校

香港浸信會神學院 旅遊服務業培訓發展中心 香港教育學院

職業訓練局工商資訊學院

南屯門官立中學 晉色園主辦可藝中學