



中華人民共和國香港特別行政區

Hong Kong Special Administrative Region of the People's Republic of China



立法會 LEGISLATIVE COUNCIL

許智峯議員 Hon HUI Chi-fung

香港特別行政區
環境事務委員會
陳淑莊主席

陳主席：

建議考察外地回收設備

自內地縮緊進口回收物料的準則，政府跟議員均有表示過本地回收業急需提升其處理回收物料的水平和能力。奈何受不同因素影響，本地的回收業及回收率近年仍然持續低迷，未見起色。有見海外國家的回收業較具規模，回收率亦較香港的高，我認為十分值得香港借鑒，遂我現致函 閣下，向委員會建議到外地視察當地的回收設備、了解當地回收業如何運作，以及了解當地政府如何跟回收商合作提高當地的回收率。

現附上我對擬考察的地點及廠家作出的初步研究及建議，但詳情亦歡迎秘書處及議員同事作出建議及提供意見。謹請 閣下及委員會接納以上建議。

順頌 鈞安

委員許智峯

2018年5月28日

副本抄送：環境事務委員會副主席何君堯議員

Shortlist of Plastic Recycling Technologies and Plants Organized by Country

Japan

Showa Denko Factory(Kawasaki plant) (Ogimachi)

A chemical recycling plant that turns plastic into ammonia, carbon dioxide in a process called gasification

Info: http://www.sdk.co.jp/english/csr/sh/communication_2.html

Location: <http://www.sdk.co.jp/english/about/network/domestic.html>

PET Refine Technology plant in Ogimachi, Kawasaki

Mechanical processing for PET Bottles, most common plastic material, that can be recycled into all sorts of materials including back into PET bottles

New Owners: <http://www.jeplan.co.jp/ja/>

Notice of Purchase: <http://www.jeplan.co.jp/uploads/ee9a10a16f6586b389648ee7d782f3e6.pdf>

JFE Plastic Resource Corporation: Kawasaki

A recycling company that has the capabilities to use combustion and mechanical recycling to recycle plastics for chemical (giving BF gas and molten iron) and material (NF boards) use.

<http://www.jfe-plr.co.jp/en/company/map.html>

Minato Resource Recycling Center: Minato City Konan

A comprehensive waste sorting center that sorts all of the waste in Minato ward into all of the different categories.

<http://trans.city-minato.jp/LUCMINATO/ns/tl.cgi/http%3a//www.city.minato.tokyo.jp/jigyokeikaku/kurashi/gomi/seso/shisetsu/chukan/shigenkacenter/shigenkacenter.html?SLANG=ja&TLANG=en&XMODE=0&XCHARSET=utf-8&XJSID=0>

<http://www.city.minato.tokyo.jp/index.html>

Green Cycle Systems, in cooperation with Mitsubishi Electric Corporation: Chiba Prefecture

Japan's first large-scale, high-purity plastic recycling, sorts post-consumer shredded plastic mixture, commonly obtained from recycling appliances, into industrial grade plastic with a 70% recycling ratio – then supplied to Mitsubishi Electric as a material.

http://www.mitsubishielectric.com/en/sustainability/environment/ecotopics/plastic_sp/greencycle/index.html

More information:

http://www.mitsubishielectric.com/en/sustainability/environment/ecotopics/plastic_sp/index.html

Korea

Samyang Corporation, PET Bottle Recycling plant in Shihwah Industrial Complex

The largest PET bottle recycler in Korea, handling 15,000 tons annually.

https://samyangcorp.com/chn/Chemistry//pet01_03

Suwon City Waste Sorting Plant(수원재활용사업소)

Address: 17-3 Ha-dong, Yeongtong-gu, Suwon, Gyeonggi-do, South Korea

One of the largest government owned sorting plants with automated sorting systems, handles 90 tons a day.

<http://www.ioniaent.com/default/>

Jungrang-gu Waste Sorting Plant

Address: 34-8 Mangu-dong, Jungnang-gu, Seoul, South Korea

One of the newer government waste sorting plants with automated sorting systems can handle 30 tons a day.

<http://www.ioniaent.com/default/>

Yongin City Waste Sorting Plant(용인시재활용센터)

Address: 17-3 Ha-dong, Yeongtong-gu, Suwon, Gyeonggi-do, South Korea

Another large Government owned sorting plant with automated sorting system, can handle 90 tons a day.

<http://www.ioniaent.com/default/>

Taiwan

Da Fon Environmental Technology Co

A Taiwan based recycling company that recycles, sorts, processes, shreds, and even manufactures plastics.

<http://global.df-recycle.com/TW/index.php>

Miniwiz

A Taiwan Design studio that uses recycled materials they create innovative designs and products ranging from building materials, airplanes, interior designs, and Nike shoes.

<http://www.miniwiz.com/home.php>

BANG XIE ENTERPRISE CO., LTD.

Address: No. 205, Tianwei Street, Shulin District

A company that specializes in collecting post-consumer plastics and processes it into the raw plastic pellets that can be used to create new materials. They are a main supplier for Miniwiz.

<https://www.taiwantrade.com/company/bang-xie-enterprise-co-ltd-152586.html>

International Automated Waste Sorting Companies

TOMRA Sorting Technology Co. Ltd.

An international company that sells sorting machines for all types of waste with test facilities in

Fujian, China:

<https://www.tomra.com/en/sorting/recycling/test-centers/xiamen>

Shiga, Japan:

<https://www.tomra.com/en/sorting/recycling/test-centers/japan>

Gyeonggi-do, South Korea:

<https://www.tomra.com/en/sorting/recycling/test-centers/korea>

Pellenc ST

A French waste sorting company, that sells waste sorting machines

<http://www.pellencst.com/>

Plastics to Fuel(PTF) Recycling Companies

Phoenix Depot International: (Ontario, Canada)

Supplier of machines that takes Mixed LDPE and HDPE plastics and turns it into a usable petro based fuel:

<http://www.phdintl.com/>

Ecocreations Korea

Supplier of machineries that use Pyrolysis method to turn plastic bottles into usable fuels

eco@ecocreation-in.com

http://www.ecocreation-in.com/index.php?mid=case&category=1336&document_srl=1850

http://www.ecocreation-in.com/index.php?mid=case&category=1336&document_srl=1416

Agilyx

An Oregon, USA based recycler that has been doing PTF since 2013.

<http://www.agilyx.com/>

Klean Industries

An international environmental analysis firm with a robust consulting service that offers amongst many things a pyrolysis PTF recycling machine.

<http://www.kleanindustries.com/s/Home.asp>