

To: wklo@engineer.com, lcc.ntw@dab.org.hk, jkstolegco@gmail.com, klclegco@gmail.com, elau@dphk.org, yctam@dab.org.hk, arazack@netvigator.com, khwong@ftulegco.org.hk, info@cydho.org.hk, garychk@dab.org.hk, leungkl@leungkl.org, ipkh@dab.org.hk, contact@alanleong.net, albert.wychan@yahoo.com.hk, legco@michaeltien.hk, tpc@jamestien.com, frankieyick@liberal.org.hk, chiwaioffice@gmail.com, fankwokwaioffice@gmail.com, fkmaoffice@gmail.com, charlesmok@charlesmok.hk, benchanlegco@gmail.com, info@chankalok.hk, yhchan@ftulegco.org.hk, amlegco@gmail.com, info@cheungchiuhung.org.hk, helenawonghk@gmail.com, eq@eqweb.hk, chianglaiwan@gmail.com, office@chungsk.com, info@tonvtsewaichuen.com
From: Sum-Sum Tse-Cappi <
Date: 04/28/2014 03:48PM
Cc: info@livingislands.org.hk, cb1@legco.gov.hk
Subject: Very concerned with Environmental Impacts of EPD's approach to Waste Management

HKID: I

28-4-2014

Dear Member of the Public Works Sub Committee

Proposed Incinerator for Hong Kong

I am extremely concerned about the environmental impacts of the proposed Incinerator that the EPD plan to site on reclaimed land adjacent to Shek Kwu Chau.

The original selection process and criteria for the Shek Kwu Chau site were seriously flawed – there was false

and misleading information about wind direction and environmental impacts, inadequate attention to the detailed transportation costings, and insufficient consideration given to the need for transporting 1,000 tonnes per day of toxic ash from the remote Island location to existing landfill sites. The best reason the EPD gave for selecting SKC is that it achieves a "balanced spatial distribution" of waste processing sites. This "beggar-my-neighbour approach" is surely not the way Asia's World City should be conducting its Government?

Why hasn't the Environment Bureau reconsidered options /alternatives to their only proposal? There are valid and credible alternative proposals for multiple smaller locations around the SAR, that would,

- be closer to sources of waste and existing landfill sites,
- represent a much lower risk of failure,
- be available to be brought on-line sooner,
- be smaller scale and therefore more cost effective,
- provide more integrated facilities for sorting and recycling waste,
- provide more employment opportunities, and
- could represent lower capital costs and lower overall operating costs.

The EPD proposal deserves to be rejected, for the good of Hong Kong. The people of Hong Kong expect you to make the right decisions so that the future of the SAR is not blighted by this infamous and single minded proposal.

Yours sincerely

CAPPI, Raymond Paul (Mr)

- Lantau Resident

To: wklo@engineer.com, lcc.ntw@dab.org.hk, jkstolegco@gmail.com, klclegco@gmail.com, elau@dphk.org, yctam@dab.org.hk, arazack@netvigator.com, khwong@ftulegco.org.hk, info@cydho.org.hk, garychk@dab.org.hk, leungkl@leungkl.org, ipkh@dab.org.hk, contact@alanleong.net, albert.wychan@yahoo.com.hk, legco@michaeltien.hk, tpc@jamestien.com, frankieyick@liberal.org.hk, chiwaioffice@gmail.com, fankwokwaioffice@gmail.com, fkmaoffice@gmail.com, charlesmok@charlesmok.hk, benchanlegco@gmail.com, info@chankalok.hk, yhchan@ftulegco.org.hk, amlegco@gmail.com, info@cheungchiuhung.org.hk, helenawonghk@gmail.com, eq@eqweb.hk, chianglaiwan@gmail.com, office@chunask.com, info@tonytsewaichuen.com
From: "Xiayi CAI [6P]"
Date: 04/29/2014 01:36PM
Cc: cb1@legco.gov.hk
Subject: Environmental Impact

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Proposed Incinerator for Hong Kong

I am extremely concerned about the environmental impacts of the proposed Incinerator that the EPD plan to site on reclaimed land adjacent to Shek Kwu Chau.

The original selection process and criteria for the Shek Kwu Chau site were seriously flawed – there was false and misleading information about wind direction and environmental impacts, inadequate attention to the detailed transportation costings, and insufficient consideration given to the need for transporting 1,000 tonnes per day of toxic ash from the remote Island location to existing landfill sites. The best reason the EPD gave for selecting SKC is that it achieves a "balanced spatial distribution" of waste processing sites. This "beggar-my-neighbour approach" is surely not the way Asia's World City should be conducting its Government?

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Yours sincerely

Xiaxi Cai

To: wklo@engineer.com, lcc.ntw@dab.org.hk, jkstolegco@gmail.com, klclegco@gmail.com, elau@dphk.org, yctam@dab.org.hk, arazack@netvigator.com, khwong@ftulegco.org.hk, info@cydho.org.hk, garychk@dab.org.hk, leungkl@leungkl.org, ipkh@dab.org.hk, contact@alanleong.net, albert.wychan@yahoo.com.hk, legco@michaeltien.hk, tpc@jamestien.com, frankieyick@liberal.org.hk, chiwaioffice@gmail.com, fankwokwaioffice@gmail.com, fkmaoffice@gmail.com, charlesmok@charlesmok.hk, benchanlegco@gmail.com, info@chankalok.hk, yhchan@ftulegco.org.hk, amlegco@gmail.com, info@cheungchiuhung.org.hk, helenawonghk@gmail.com, eq@eqweb.hk, chianglaiwan@gmail.com, office@chungsk.com, info@tonytsewaichuen.com
From: "Jade JEFFRIES [6P]"
Date: 04/29/2014 01:52PM
Cc: info@livingislands.org.hk, cb1@legco.gov.hk
Subject: Environment impact caused by incinerator

Dear Member of the Public Works Sub Committee

Proposed Incinerator for Hong Kong

I am extremely concerned about the environmental impacts of the proposed Incinerator that the EPD plan to site on reclaimed land adjacent to Shek Kwu Chau.

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Yours sincerely

Jade Jeffries

From: "James Middleton"
To: <f_pwsc@legco.gov.hk>, <panel_ea@legco.gov.hk>

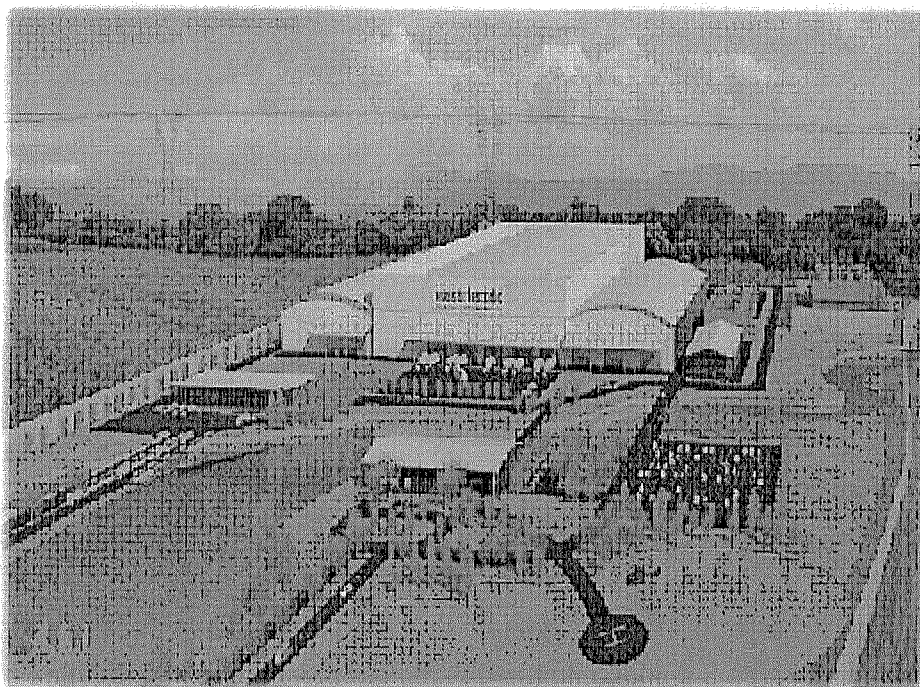
Date: Tuesday, April 29, 2014 05:11PM
Subject: The Plasma Gasification snowball starts

The Plasma Gasification snowball starts

Teesside UK (2 plants) British Airways/Solena UK, Morcenx France, Costa Rica, Barbados

U.S. firm to invest \$390 million to convert solid waste into electricity

<http://insidecostarica.com/2014/04/28/u-s-firm-invest-390-million-convert-solid-waste-electricity/>



April 28th, 2014 (InsideCostaRica.com) Costa Rica could soon be home to the largest solid waste gasification plant in Central America, according to U.S. firm, Waste Electric.

According to company spokesperson Adrian Meza, construction of the \$390 million plant, which would convert solid waste into electricity, could begin in

about four months and would take about two years to complete. The firm is currently awaiting the proper permits from the National Environmental Secretariat (SETENA).

At full capacity, the plant would produce enough electricity to power 108,000 homes, which would be sold to the Costa Rican Electricity Institute (ICE).

The 40,000 square meter plant is to be built on 11 hectares within the Coyal Free Zone in Alajuela.

The plant would take some of the 4,000 tons of solid waste generated daily in the country and turn it into electricity through a process called gasification. The waste used by the plant would ordinarily end up in landfills.

<http://www.caribbeanpressreleases.com/articles/10364/1/Cahill-Energy-to-Invest-240-Million-in-Barbados-Clean-Energy-Plant/Page1.html>

Cahill Energy to Invest \$240 Million in Barbados Clean Energy Plant

- By [S Coward](#)
- Published 20-Mar-14
- [Environment/Energy](#)
- Rating: Unrated

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New York, March 20, 2014 - Guernsey-based Cahill Energy is delighted to announce it signed a historic agreement with the Government of Barbados on 15th March 2014 to build and operate a leading edge clean energy plant on the Caribbean island. Established to finance, build, own and operate utility-scale Waste to Energy plants in key markets, Cahill Energy plans to utilise the most innovative technology available to transform all kinds of waste on Barbados into clean, renewable energy.

Cahill Energy expects to invest up to \$240 million (USD) in the proposed plant which is set to be built in Vaucluse, St Thomas, creating up to 650 skilled labour jobs, stimulating growth across the island and providing the Government of Barbados with several hundred million dollars in estimated savings over the lifetime of the 30 year contract.

Clare Cowan, CEO of Cahill Energy, commented: "Cahill Energy began exploring Waste to Energy in 2011 and our attention was directed towards the Caribbean by 7th Heaven Properties. While we recognize the country faces some short term challenges due to the impact of the global economic downturn, we believe the fundamentals are strong. We are therefore confident that this investment represents a phenomenal business opportunity for our investors and offers even greater benefits to the people of Barbados."

Hon. Christopher P. Sinckler, M.P., Minister of Finance and Economic Affairs of Barbados, added: "This investment by Cahill Energy represents a "game changer" for Barbados and truly belies any doubt that Barbados is still a preferred destination for solid, and impactful foreign direct investment."

The plant will provide a leading edge, environmentally sound solution to two of Barbados's most pressing challenges: waste management and energy security. Using plasma gasification technology (one of the most effective and environmentally friendly methods of waste treatment

available), the plant will transform up to 650 tonnes of solid waste per day into clean, renewable energy. As a result, the plant will eliminate environmental threats posed by the use of landfill. The energy generated will provide a new domestic source of power for Barbados, reducing the island's reliance on costly imported fossil fuel. The plant is expected to provide up to 25% of Barbados's total energy needs and reduce the cost of energy substantially. Dr. the Hon. Denis S. Lowe, M.P., Barbados's Minister of Environment, said: "Cahill Energy offers us a real solution to becoming energy independent, while at the same time reducing our massive oil import bill. Cahill Energy has brought a Waste to Energy option to the Government of Barbados that is far superior to any other we have examined. We believe that our country will be changed forever as a result."

AlterNRG owns 100% of Westinghouse Plasma Corporation, a world leader in plasma gasification technology, which is expected to supply the plasma gasification technology. The use of Westinghouse Plasma's proven, patented, Waste to Energy technology (which is already in use in 6 commercial facilities worldwide) would significantly contribute to cutting Barbados's dependence on landfills, reduce carbon dioxide emissions and transforming the island nation into one of the greenest economies in the entire region.

Cahill is advised by international law firm Taylor Wessing, a leading adviser in the alternative energy sector. The legal team is led by Dominic FitzPatrick, Head of Corporate, Commercial and Projects.

Senator the Hon. Darcy W. Boyce, Minister of Energy in the Office of the Prime Minister of Barbados, said: "This Waste to Energy project is a major step to put Barbados firmly on the way to its initial target of replacing by 2029, 29% of its oil based electricity by generation from renewable and alternative energy. Indeed, this project will help Barbados significantly to reach this target ten years earlier than planned."

Media Contact: Robert Cooper, Cahill Energy, press@cahill-energy.com

Air Products' factory will support Government energy drive



1:10pm Friday 25th April 2014 in Business News By Steven Huggill

http://www.thenorthernecho.co.uk/business/news/11172935.Energy_firm_starts_on_second_Teesside_plant/

Francis Maude, Minister for the Cabinet Office, left. with David Taylor, Air Products' energy business vice-president, at the site of the new factory



A PIONEERING energy firm has officially started work on a second North-East factory. Air Products is building another advanced gasification plant in Billingham, near Stockton. The factory will create 50 jobs, support about 750 construction posts, and operate from 2016. Bosses say it will annually take up to 350,000 tonnes of non-recyclable waste away from landfill, helping to power about 50,000 North-East homes.

The development is backed the Government's Energy for Growth scheme, which aims to save taxpayers' money by securing a fixed electricity price from suppliers. **The Cabinet Office last year agreed a deal to buy power from the plant for the next 20 years**, which ministers predict will save £97m and meet two per cent of the Government's overall energy consumption.

<http://www.cho-power.com/en/cho-power-in-morcenx-france-a-first-in-europe.html>

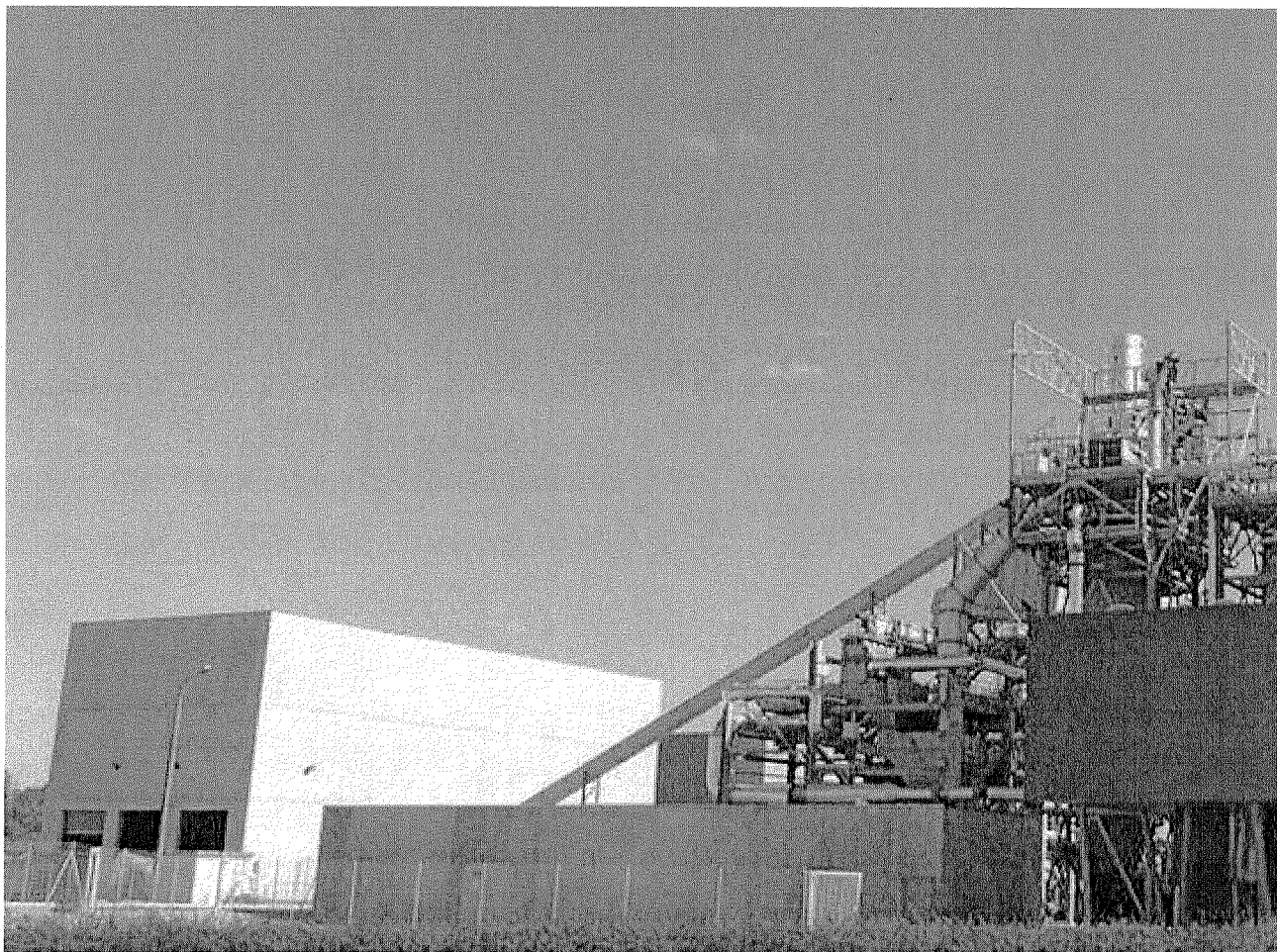


CHO-Power in Morcenx (France): a first in Europe

Showcasing the technological know-how of CHO-Power, the Morcenx plant is up.

- It uses **ordinary industrial waste** from the region (**37,000 tonnes/year**) and **wood chips** (**15,000 tonnes/year**).
- **All the electricity is sold on to EDF**, the high-voltage network being nearby.
- **Additional production of 18MW of hot water** from the heat generated by the process fuels a vegetable greenhouse at the site.

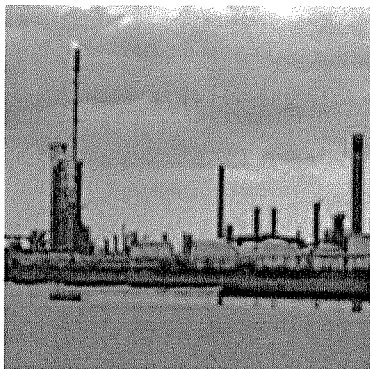
Picture of the plasma enhanced gasification facility :



The project fits in with European and French energy contexts promoting the use of continuous source renewable

<http://www.tcetoday.com/latest%20news/2014/april/coryton-site-to-host-green-jet-fuel-plant.a>

News - full story



New plant will support 150 permanent jobs

17/04/2014

Coryton site to host green jet fuel plant

British Airways to fuel flights using landfill waste

Adam Duckett

BRITISH AIRWAYS' long-awaited US\$500m waste-to-fuel facility will be built at the site of the former Coryton refinery in Essex, UK.

Plans for the GreenSky project have been under development for more than four years now. British Airways has now confirmed that construction of the plant will begin in 12 months on the former refinery site, which has been rebranded as the Thames Enterprise Park.

The plant is scheduled to begin operations in 2017, taking 575,000 t/y of post-recycled waste, normally destined for landfill or incineration, and converting it into 120,000 t of fuel including 50,000 t of jet fuel for British Airways. Once completed, the plant will support 150 permanent jobs.

The integrated biomass-gas to liquid process at the heart of the project has been developed by US process engineering firm Solena. High temperature plasma gasification converts the waste to synthetic gas. This is then passed through third party Fischer Tropsch technology provided by Velocys using a fixed-bed microchannel system to convert the gas to waxes which are then cracked into fuel and naphtha.

Solena says its unique use of plasma torches gives it the edge over other gasification technologies enabling it to convert much more varied streams of waste.

"We are always striving to reduce our impact on climate change and this first-of-its-kind project marks a significant step for the aviation industry," says Willie Walsh, CEO of British Airways' parent company IAG.

"The sustainable jet fuel produced each year will be enough to power our flights from London City Airport twice over with carbon savings the equivalent of taking 150,000 cars off the road.

British Airways has agreed to buy fuel produced at the plant for the next 11 years, in a deal worth US\$550m at today's prices.

The project continues the redevelopment of the site of the former Coryton refinery, which was closed in 2012. The assets were bought by a joint venture made up of Vopak, Shell and Greenergy, with plans to also refurbish it into a terminal for the bulk importation and blending of fuels.

To: wklo@engineer.com, lcc.nw@dab.org.hk, jkstolegco@gmail.com, klclegco@gmail.com, elau@dphk.org, yctam@dab.org.hk, arazack@netvigator.com, khwong@ftulegco.org.hk, info@cydho.org.hk, garychk@dab.org.hk, leungkl@leungkl.org, ipkh@dab.org.hk, contact@alanleong.net, albert.wychan@yahoo.com.hk, legco@michaeltien.hk, tpc@jamestien.com, frankieyick@liberal.org.hk, chiwaioffice@gmail.com, fankwokwaioffice@gmail.com, fkmaoffice@gmail.com, charlesmok@charlesmok.hk, benchanlegco@gmail.com, info@chankalok.hk, yhchan@ftulegco.org.hk, amlegco@gmail.com, info@cheungchiuhung.org.hk, helenawonghk@gmail.com, eq@eqweb.hk, chianglaiwan@gmail.com, office@chungsk.com, info@tonytsewaichuen.com
From: Marc Marier
Date: 04/30/2014 09:00AM
Cc: CC=info@livingislands.org.hk, cb1@legco.gov.hk
Subject: Excessive cost of EPD's approach to Waste Management

Hong Kong

HKID

April 30, 2013

Dear Member of the Legco Finance Committee and Public Works Sub Committee

Excessive Cost of EPD Proposed Integrated Waste Management Facility

I write to ask for your consideration of the concerns I have regarding the proposal by the EPD to construct a giant incinerator on reclaimed land off Shek Kwu Chau.

The cost of the EPD proposal is excessive and wasteful – HK\$18 billion for a single incinerator, including huge land reclamation work and the destruction of natural habitats in an area of outstanding natural beauty. Of course, the money is not a problem for Hong Kong with its huge surplus, but should the Environment Bureau be allowed to be so wasteful of tax-payers money if it is not necessary?

Surely Government can tackle the problem of waste management in ways that are less wasteful of tax-payers money?

The EPD have consistently lied about the total tonnage of waste being recycled in Hong Kong, and they have totally misled us with the cost of building the Organic Waste Treatment plant in North Lantau. The current forecasts of the costs of this Project have risen far out of line with construction inflation. The information in the EPD Blueprint for Waste Management therefore lacks all credibility and should not be believed. The costs will simply escalate out of control and the incinerator operation may never achieve the tonnages forecast by the EPD.

My opinion is that tax-payers money will be better spent and will realise greater value for tax-payers by addressing the waste problems at source. Smaller-scale, fully integrated waste management facilities will provide solutions on a district by district basis, will be more effective and more manageable, and will encourage personal responsibility for the amounts of waste that we all produce.

I hope that you reject the EPD proposals and make the right decision for the future of Hong Kong – Asia's World City.

Yours sincerely

Marc Marier

To: wklo@engineer.com, lcc.ntw@dab.org.hk, jkstolegco@gmail.com, kiclegco@gmail.com, elau@dphk.org, yctam@dab.org.hk, arazack@netvigator.com, khwong@ftulegco.org.hk, info@cydho.org.hk, garychk@dab.org.hk, leungkl@leungkl.org, ipkh@dab.org.hk, contact@alanleong.net, albert.wychan@yahoo.com.hk, legco@michaeltien.hk, tpc@jamestien.com, frankieyick@liberal.org.hk, chiwaioffice@gmail.com, fankwokwaioffice@gmail.com, fkmaoffice@gmail.com, charlesmok@charlesmok.hk, benchanlegco@gmail.com, info@chankalok.hk, yhchan@ftulegco.org.hk, amlegco@gmail.com, info@cheungchiuhung.org.hk, helenawonghk@gmail.com, eq@eqweb.hk, chianglaiwan@gmail.com, office@chungsk.com, info@tonytsewaichuen.com
From: Marc Marier
Date: 04/30/2014 08:59AM
Cc: CC=info@livingislands.org.hk, cb1@legco.gov.hk
Subject: Concerned with Climate Change and Health of EPD's approach to Waste Management

Hong Kong

HKID

April 30, 2013

Dear Member of the Public Works Sub Committee,

EPD Proposed Integrated Waste Management Facility

I am writing to you to express my deep concern regarding the proposed Incinerator for which the Environmental Protection Department needs your approval before proceeding.

My main concerns are on the impacts on Climate Change and Human Health.

There are two levels of concern. Firstly, it is estimated that for every one tonne of waste that is incinerated, one tonne of carbon dioxide is released into the atmosphere. This means three thousand tonnes of CO₂ will be released every day from the giant incinerator, according to EPD estimates of waste to be incinerated. Whilst not immediately threatening to human health, there is no doubt that this will have a negative effect on climate change. Should Hong Kong be endorsing this kind of approach when there are other less damaging options available?

My second concern is that the EPD proposal takes insufficient account of the Hong Kong AQO. Are there any statistics to prove scientifically exactly what toxins will be emitted from the Incinerator? Have the EPD compared the forecast emissions with the 2012 AQO's? If so, will they be kind enough to share the figures with us all? It is a fact that moving grate incinerators do emit toxic elements into the atmosphere. It is interesting that the Government Medical Department have not so far expressed any opinion on this matter regarding the impacts of the Incinerator releasing dioxins and particulates into the atmosphere. One wonders how many premature deaths are "acceptable" to Hong Kong as a consequence of large scale moving-grate incineration.

On 16th April 2012, the EPD produced a Discussion Paper for the Panel on Environment Affairs Sub Committee on Improving Air Quality. The purpose of the Paper was to seek "*the views of Members on the proposed new Air Quality Objectives (AQOs) and air quality improvement measures for achieving these new Objectives*". The Paper did not mention Incineration as a contributory cause of deteriorating air quality, but under the heading of Economic Implications, sections 11 and 12 discuss;

*"The delivery of the proposed new AQOs and the air quality improvement measures would help combat air pollution, thereby improving quality of life, reducing medical cost and indirectly raising labour productivity. The consultant estimates that about 4,200 unnecessary hospital admissions and 7,400 statistical life years would be saved each year (or an improved average life expectancy of around one month for the entire population) upon attainment of the proposed new AQOs[2]. Other health benefits, such as less people contracting asthma or other respiratory diseases, would also be expected. In addition, **better air quality and visibility would help attract more tourists and foreign investments, and are conducive to attracting talents to stay and work in Hong Kong.** All these would contribute to reinforcing our position as a world city and leading international business hub. The proposal would also facilitate further collaborative efforts with Guangdong in improving regional air quality and the development of environmental industry in the region.*

*The impacts of individual proposed air quality improvement measures, which have to be assessed on a case-by-case basis, would be felt differently by different sectors of the economy. In particular, the more stringent standards and requirements to comply with the proposed AQOs would incur implementation costs for various businesses and raise their operating costs. Moreover, **the proposed AQOs would raise the standards required for obtaining the EIA approval for infrastructural projects,** which may lead to higher*

mitigation costs in order to comply with the standards. The consultant nevertheless advises that, for indicative purpose, the annualized cost incurred by the public for implementing the proposed Phase I air quality improvement measures would be about HK\$ 596 million. This is, however, significantly lower than the anticipated benefit of HK\$ 1,228 million per year due to the improvement of public health."

The EIA Report for Incineration was carried out before the AQO's were revised. Does this mean that emissions from the Incinerator will not have to comply with the revised AQO's?

With the greatest of respect, I would ask that you reject the EPD proposal for incineration and insist that they carry-out proper evaluation of the waste issues and come up with a strategy that does not cause more damage to Hong Kong and her residents.

Yours sincerely,

Marc Marier

To: "wklo@engineer.com" <wklo@engineer.com>, "lcc.ntw@dab.org.hk" <lcc.ntw@dab.org.hk>, "jkstolegco@gmail.com" <jkstolegco@gmail.com>, "klclegco@gmail.com" <klclegco@gmail.com>, "elau@dphk.org" <elau@dphk.org>, "yctam@dab.org.hk" <yctam@dab.org.hk>, "arazack@netvigator.com" <arazack@netvigator.com>, "khwong@ftulegco.org.hk" <khwong@ftulegco.org.hk>, "info@cydho.org.hk" <info@cydho.org.hk>, "garychk@dab.org.hk" <garychk@dab.org.hk>, "leungkl@leungkl.org" <leungkl@leungkl.org>, "ipkh@dab.org.hk" <ipkh@dab.org.hk>, "contact@alanleong.net" <contact@alanleong.net>, "albert.wychan@yahoo.com.hk" <albert.wychan@yahoo.com.hk>, "legco@michaeltien.hk" <legco@michaeltien.hk>, "tpc@jamestien.com" <tpc@jamestien.com>, "frankieyick@liberal.org.hk" <frankieyick@liberal.org.hk>, "chiwaioffice@gmail.com" <chiwaioffice@gmail.com>, "fankwokwaioffice@gmail.com" <fankwokwaioffice@gmail.com>, "fkmaoffice@gmail.com" <fkmaoffice@gmail.com>, "charlesmok@charlesmok.hk" <charlesmok@charlesmok.hk>, "benchanlegco@gmail.com" <benchanlegco@gmail.com>, "info@chankalok.hk" <info@chankalok.hk>, "yhchan@ftulegco.org.hk" <yhchan@ftulegco.org.hk>, "amlegco@gmail.com" <amlegco@gmail.com>, "info@cheungchiuhung.org.hk" <info@cheungchiuhung.org.hk>, "helenawonghk@gmail.com" <helenawonghk@gmail.com>, "eq@eqweb.hk" <eq@eqweb.hk>, "chianglaiwan@gmail.com" <chianglaiwan@gmail.com>, "office@chungsk.com" <office@chungsk.com>, "info@tonytsewaichuen.com" <info@tonytsewaichuen.com>
From: Mawgan Grace >
Date: 04/30/2014 12:04AM
Cc: "info@livingislands.org.hk" <info@livingislands.org.hk>, "cb1@legco.gov.hk" <cb1@legco.gov.hk>
Subject: Concerned with Climate Change and Health of EPD's approach to Waste Management

Mawgan Grace

HKID:

29th April 2013

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There are two levels of concern. Firstly, it is estimated that for every one tonne of waste that is incinerated, one tonne of carbon dioxide is released into the atmosphere. This means three thousand tonnes of CO₂ will be released every day from the giant incinerator, according to EPD estimates of waste to be incinerated. Whilst not immediately threatening to human health, there is no doubt that this will have a negative effect on climate change. Should Hong Kong be endorsing this kind of approach when there are other less damaging options available?

My second concern is that the EPD proposal takes insufficient account of the Hong Kong AQO. Are there any statistics to prove scientifically exactly what toxins will be emitted from the Incinerator? Have the EPD compared the forecast emissions with the 2012 AQO's? If so, will they be kind enough to share the figures with us all? It is a fact that moving grate incinerators do emit toxic elements into the atmosphere. It is interesting that the Government Medical Department have not so far expressed any opinion on this matter regarding the impacts of the Incinerator releasing dioxins and particulates into the atmosphere. One wonders how many premature deaths are "acceptable" to Hong Kong as a consequence of large scale moving-grate incineration.

On 16th April 2012, the EPD produced a Discussion Paper for the Panel on Environment Affairs Sub Committee on Improving Air Quality. The purpose of the Paper was to seek "*the views of Members on the proposed new Air Quality Objectives (AQOs) and air quality improvement measures for achieving these new Objectives*". The Paper did not mention Incineration as a contributory cause of deteriorating air quality, but under the heading of Economic Implications, sections 11 and 12 discuss;

*"The delivery of the proposed new AQOs and the air quality improvement measures would help combat air pollution, thereby improving quality of life, reducing medical cost and indirectly raising labour productivity. The consultant estimates that about 4,200 unnecessary hospital admissions and 7,400 statistical life years would be saved each year (or an improved average life expectancy of around one month for the entire population) upon attainment of the proposed new AQOs[2]. Other health benefits, such as less people contracting asthma or other respiratory diseases, would also be expected. In addition, **better air quality and visibility would help attract more tourists and foreign investments, and are conducive to attracting talents to stay and work in Hong Kong.** All these would contribute to reinforcing our position as a world city and leading international business hub. The proposal would also facilitate further collaborative efforts with Guangdong in improving regional air quality and the development of environmental industry in the region.*

*The impacts of individual proposed air quality improvement measures, which have to be assessed on a case-by-case basis, would be felt differently by different sectors of the economy. In particular, the more stringent standards and requirements to comply with the proposed AQOs would incur implementation costs for various businesses and raise their operating costs. Moreover, **the proposed AQOs would raise the standards required for obtaining the EIA approval for infrastructural projects**, which may lead to higher mitigation costs in order to comply with the standards. The consultant nevertheless advises that, for indicative purpose, the annualized cost incurred by the public for implementing the proposed Phase I air quality improvement measures would be about HK\$ 596 million. This is, however, significantly lower than the anticipated benefit of HK\$ 1,228 million per year due to the improvement of public health."*

The EIA Report for Incineration was carried out before the AQO's were revised. Does this mean that emissions from the Incinerator will not have to comply with the revised AQO's?

With the greatest of respect, I would ask that you reject the EPD proposal for incineration and insist that they carry-out proper evaluation of the waste issues and come up with a strategy that does not cause more damage to Hong Kong and her residents.

Yours sincerely

Mawgan grace

To: <wklo@engineer.com>, <lcc.ntw@dab.org.hk>, <jkstolegco@gmail.com>, <kiclegco@gmail.com>, <elau@dphk.org>, <yctam@dab.org.hk>, <arazack@netvigator.com>, <khwong@ftulegco.org.hk>, <info@cydho.org.hk>, <garychk@dab.org.hk>, <leungkl@leungkl.org>, <ipkh@dab.org.hk>, <contact@alanleong.net>, <albert.wychan@yahoo.com.hk>, <legco@michaeltien.hk>, <tpc@jamestien.com>, <frankieyick@liberal.org.hk>, <chiwaioffice@gmail.com>, <fankwokwaioffice@gmail.com>, <fkmaoffice@gmail.com>, <charlesmok@charlesmok.hk>, <benchanlegco@gmail.com>, <info@chankalok.hk>, <yhchan@ftulegco.org.hk>, <amlegco@gmail.com>, <info@cheungchiuhung.org.hk>, <helenawonghk@gmail.com>, <eq@eqweb.hk>, <chianglaiwan@gmail.com>, <office@chungsk.com>, <info@tonytsewaichuen.com>
From: "adrienne" >
Date: 04/29/2014 10:35PM
Cc: <info@livingislands.org.hk>, <cb1@legco.gov.hk>
Subject: Very concerned with EPD's approach to Waste Management

SAR.

Hong Kong

28th April, 2014

Dear Member of the Public Works Sub Committee

EPD Proposed Incinerator for Shek Kwu Chau

I write to express my concern for Hong Kong regarding the lack of effective strategies for managing waste in the SAR. It is indeed sad and disappointing that the Environment Bureau has not come up with a holistic approach to the SAR's waste problems, preferring instead the easy option of "just burn it all – problem solved!"

It is shameful that the EPD insists on merely stating that the landfills will be full soon, but this would **not** be true if we had effective 'waste' management and, as I pointed out to Mr Elvis Au, we view 'waste' as a potential resource. I have carried out my own research and have spoken to energy experts overseas and many believe a large MG incinerator is not the best solution or even a good solution! There are alternatives and as a permanent resident who was born here and loves Hong Kong, I urge you to reject the EPD proposal for the incinerator as well as landfill expansion. An integrated approach is far more effective. Enforced waste separation with smaller gasification plants, and with the production of biochar from organic waste are all much better integrated alternatives. Effective use of all recyclables would also allow us to be seen as a region worthy of praise and example, not international shame. In addition, we are putting our population at further risk from this type of incinerator. We currently have terrible air quality and I wonder if the EPD has carried out any research on the effects of carcinogenic incineration 'waste' air particles in combination with such toxic air pollution? I was told by Mr Au that the cancer causing particles caused by this type of incineration are in small amounts, and have been considered 'safe' in other environments. However, our air is already compromised with toxic chemicals. What would be the cumulative effect of toxic air and incinerator carcinogenic waste?

I urge you to recommend immediate waste separation and research into use of recyclables as well as the use of all organic materials for compost/biochar and energy production but reject the shameful suggestion that a mega incinerator, especially the moving grate incinerator is the only feasible solution for our waste.

I urge you to reject the EPD proposals for Incineration. Hong Kong deserves better than this.

Thank you.

Yours sincerely,

Adrienne Watson

BSc MSc PGCE

To: wklo@engineer.com, lcc.nw@dab.org.hk, jkstolegco@gmail.com, kiclegco@gmail.com, elau@dphk.org, yctam@dab.org.hk, arazack@netvigator.com, khwong@ftulegco.org.hk, info@cydho.org.hk, garychk@dab.org.hk, leungkl@leungkl.org, ipkh@dab.org.hk, contact@alanleong.net, albert.wychan@yahoo.com.hk, legco@michaeltien.hk, tpc@jamestien.com, frankieyick@liberal.org.hk, chiwaioffice@gmail.com, fankwokwaioffice@gmail.com, fkmaoffice@gmail.com, charlesmok@charlesmok.hk, benchanlegco@gmail.com, info@chankalok.hk, yhchan@ftulegco.org.hk, amlegco@gmail.com, info@cheungchiuhung.org.hk, helenawonghk@gmail.com, eq@eqweb.hk, chianglaiwan@gmail.com, office@chungsk.com, info@tonytsewaichuen.com
From: Jessica Ying Ying Chan
Date: 04/29/2014 07:45PM
Cc: info@livingislands.org.hk, cb1@legco.gov.hk
Subject: Very concerned with EPD's approach to Effective Waste Management

Dear Member of the Public Works Sub Committee

EPD Proposed Incinerator for Shek Kwu Chau

I write to express my concern for Hong Kong regarding the lack of effective strategies for managing waste in the SAR. It is indeed sad and disappointing that the Environment Bureau has not come up with a holistic approach to the SAR's waste problems, preferring instead the easy option of "just burn it all – problem solved!"

The Environment Bureau proposal for dealing with Hong Kong's waste problem does not represent an integrated process for our waste – despite the IWWMF name they have given it. They are taking the easy and most expensive option which will involve minimal waste sorting and mass incineration of unsorted waste.

There will be no incentive to reduce waste or sort waste if it is all going to be dumped in the furnace for disposal, regardless of the damage this does to the environment, air quality and human health.

Other countries, notably Taiwan, Japan and South Korea, have implemented effective processes for waste

reduction at source, have applied waste charging where appropriate, encouraged practices for sorting of recyclables, are dealing effectively with recovered recyclables, and only as a last resort do they finally dispose of residual waste by landfill or thermal treatment? Hong Kong is lagging way behind these and other Asian countries in effectively dealing with its recyclable waste – and it appears that years of inactivity by the Environment Bureau are to blame. We are in the situation we are in because of a failure to act responsibly to manage waste. Why is it so difficult for the EPD? Building a huge incinerator will only benefit the construction industry and the operator of the plant. The people of Hong Kong will not benefit from this.

Why is it so difficult to implement effective waste sorting at high-rise housing estates? Are certain departments obstructing waste management solutions because it is "too hard" for them to do anything about it? Waste can be smelly and unpleasant, but dealing with waste at source and applying effective sorting and recovery of recyclables is the right thing to do, and it can be done.

I urge you to reject the EPD proposals for Incineration. Hong Kong deserves better than this.

Yours sincerely

Jessica Chan

To: wklo@engineer.com, lcc.ntw@dab.org.hk, jkstolegco@gmail.com, klclegco@gmail.com, elau@dphk.org, yctam@dab.org.hk, arazack@netvigator.com, khwong@ftulegco.org.hk, info@cydho.org.hk, garychk@dab.org.hk, leungkl@leungkl.org, ipkh@dab.org.hk, contact@alanleong.net, albert.wychan@yahoo.com.hk, legco@michaeltien.hk, tpc@jamestien.com, frankieyick@liberal.org.hk, chiwaioffice@gmail.com, fankwokwaioffice@gmail.com, fkmaoffice@gmail.com, charlesmok@charlesmok.hk, benchanlegco@gmail.com, info@chankalok.hk, yhchan@ftulegco.org.hk, amlegco@gmail.com, info@cheungchiuhung.org.hk, helenawonghk@gmail.com, eq@eqweb.hk, chianglaiwan@gmail.com, office@chungsk.com, info@tonytsewaichuen.com
From: Paula LEPORE BURROUGH
Date: 04/30/2014 11:38AM
Cc: CC=info@livingislands.org.hk, cb1@legco.gov.hk
Subject: Subject=Very concerned with Environmental Impacts of EPD's approach to Waste Management

Dear Member of the Public Works Sub Committee

Proposed Incinerator for Hong Kong

I am extremely concerned about the environmental impacts of the proposed Incinerator that the EPD plan to site on reclaimed land adjacent to Shek Kwu Chau.

The original selection process and criteria for the Shek Kwu Chau site were seriously flawed – there was false and misleading information about wind direction and environmental impacts, inadequate attention to the detailed transportation costings, and insufficient consideration given to the need for transporting 1,000 tonnes per day of toxic ash from the remote Island location to existing landfill sites. The best reason the EPD gave for selecting SKC is that it achieves a “balanced spatial distribution” of waste processing sites. This “beggar-my-

neighbour approach" is surely not the way Asia's World City should be conducting its Government?

Why hasn't the Environment Bureau reconsidered options /alternatives to their only proposal? There are valid and credible alternative proposals for multiple smaller locations around the SAR, that would,

- be closer to sources of waste and existing landfill sites,
- represent a much lower risk of failure,
- be available to be brought on-line sooner,
- be smaller scale and therefore more cost effective,
- provide more integrated facilities for sorting and recycling waste,
- provide more employment opportunities, and
- could represent lower capital costs and lower overall operating costs.

The EPD proposal deserves to be rejected, for the good of Hong Kong. The people of Hong Kong expect you to make the right decisions so that the future of the SAR is not blighted by this infamous and single minded proposal.

Yours sincerely

Paula Lepore Burrough



ClearTheAir
爭氣行動

www.cleartheair.org.hk

Legco

Attention all Honorable Members

1st May 2014

Dear Hon Legco Members,

Our organisation has already written to you to show that Hong Kong has a choice in its Zero waste options and (non-existent) Zero waste policies, waste treatment and handling, recycling and reuse i.e. it does have numerous Plan 'B' options.

We have provided information which totally refutes the Government Blueprint stance and flawed incineration / landfill extension policy.

We provided self-explanatory information from Dr Tim Evans, since 1994 the head of the Wastewater Management Panel of CIWEM UK and a world renowned expert witness.

CIWEM's worldwide policy position on the use of food waste diverters/ disposers and the use of the sewage system is confirmed as totally viable for Hong Kong shown in the below Dropbox link.

www.ciwem.org/policy-and-international/policy-position-statements/food-waste-disposers.aspx

Using the recommended treatment above and Green Bin food waste collections delivered to garburators at transfer stations, would remove 40% of our domestic daily waste stream.

The relevant files we refer to are downloadable at the following link:

<https://www.dropbox.com/sh/rhjwr50vpd2vxf9/9iFT527h3Z?n=155421562>

We also bring to your attention self-explanatory information on plasma gasification advances including local conglomerate China Everbright International's move into plasma gasification technology.

We would urge all members, including those already outfitted with Government supplied blinkers and ear muffs, to appraise this information wisely.

Hong Kong has numerous waste treatment options and is not a third world country – it should enhance Zero Waste policies, recycling and reuse. It should be guided by the experts at CIWEM on food waste handling and take note of the advances in plasma gasification technology that could be used to reverse mine our landfills and convert unusable construction waste to Plasmarok to be used as road aggregate.

Hong Kong has an alphabet of different options, not just a plan B, which our Government tells us does not exist anyway, so we should believe them – NOT!

Kind regards,

James Middleton

Chairman

Email chair@cleartheair.org.hk



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www.cleartheair.org.hk

Incinerator builder CHINA EVERBRIGHT INTERNATIONAL now sees the (PLASMA) light
www.ebchinaintl.com/en/investors/press_each.php?id=p140429
www.theasset.com/article/26510.html#axzz30NsrXR48



Press Release 29 Apr 2014

Everbright International Obtains Nanjing Gaochun Waste-to-Energy Project

Explores New Technological Ground in Waste Treatment with **the Proposed Use of Plasma Gasification Technology**

29 April 2014, Hong Kong – China Everbright International Limited ("Everbright International" or the "Group") (HKSE: 00257) is pleased to announce that it has signed an investment agreement with the Nanjing Gaochun District People's Government ("Gaochun District Government"), for the investment and construction of a household waste-to-energy project in Gaochun District ("Gaochun Project" or the "Project").

Gaochun Project, with a total investment of approximately HKD400 million, is designed to have a daily household waste processing capacity of 500 tonnes and generate green electricity of over 54,000,000 kWh annually. The Project will be constructed on a BOT (Build-Operate-Transfer) basis for 30 years and its gas emission will comply with the Euro 2000 Standard. In addition to household waste, Gaochun Project will also process other solid waste including agricultural straw and municipal sludge.

Through the introduction of plasma gasification technology as the Project's preferred technical solution, it will accelerate the research of new waste treatment technology, with the ultimate goal of manufacturing the technology domestically by adopting it to local markets.

Mr. Chen Xiaoping, CEO of Everbright International, said, "Gaochun Project is situated next to the Group's Nanjing Waste-to-Energy Project and Nanjing Jiangnan Veinous Industrial Park, allowing the three projects to take advantage of their synergy through the use of resources and achieve centralized management to effectively reduce costs. In addition, Gaochun District Government pays considerable attention to energy conservation and development of ecological civilization, and actively tries to employ the harmless treatment, reduction and reuse of household waste. Gaochun Project will be a starting point for us to initiate a comprehensive strategic cooperation with the Gaochun District Government in the areas of environmental protection equipment, environmental protection technology services and other environmental protection investment projects, in order to help improve the quality of the environment in Gaochun District and contribute to the sustainable development of the local community."

U.S. firm to invest \$390 million to convert solid waste into electricity

<http://insidecostarica.com/2014/04/28/u-s-firm-invest-390-million-convert-solid-waste-electricity/>

Cahill Energy to Invest \$240 Million in Barbados Clean Energy Plant

www.caribbeanpressreleases.com/articles/10364/1/Cahill-Energy-to-Invest-240-Million-in-Barbados-Clean-Energy-Plant/Page1.html

Email chair@cleartheair.org.hk



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Air Products' (AP) second plasma factory will support Government energy drive

Air Products building another advanced gasification plant in Billingham, UK (1,000 tpd per module)
[www.thenorthernecho.co.uk/business/news/11172935.Energy firm starts on second Teesside plant/](http://www.thenorthernecho.co.uk/business/news/11172935.Energy_firm_starts_on_second_Teesside_plant/)

British Airways to fuel flights using landfill waste (1,550 tonnes per day per module)

www.tcetoday.com/latest%20news/2014/april/coryton-site-to-host-green-jet-fuel-plant.aspx#.U1sWQmdZrb0

Solena Lufthansa plant (1,550 tpd) per module

www.solenafuels.com/index.php/projects

Solena Turkish Airlines

www.biofuelsdigest.com/bdigest/2013/06/25/turkish-airlines-teams-with-solena-fuels-on-bio-jetfuel/

Solena signs agreements with US & international airlines to supply jet biofuels in northern California

Ten airlines have signed Letters of Intent (LOI) with Solena Fuels to negotiate the purchase of jet biofuels produced from urban and agricultural waste at a proposed northern California facility, dubbed 'GreenSky California'. The agreement involves seven airline members of the Air Transport Association (ATA) and its development was led by **American Airlines and United Continental**. The other ATA members to the agreement are **Alaska Airlines, FedEx, JetBlue Airways, Southwest Airlines and US Airways**, along with associate member **Air Canada and outsiders Frontier Airlines and Lufthansa**. The facility is planning to produce sustainable jet biofuel to support airline operations at Oakland, San Francisco and/or San Jose airports from 2015.

www.greenaironline.com/news.php?viewStory=1272

Westinghouse Plasma Gasifier in Bije China

<http://www.waste-management-world.com/articles/2014/03/alter-nrg-to-supply-15-mw-plasma-gasification-waste-to-energy-plant-in-china.html>

<http://finance.yahoo.com/news/alter-nrg-corp-executes-usd-181200824.html>

Wuhan Kaidi China trash to fuel plasma facility

<http://www.westinghouse-plasma.com/projects/>

<http://www.waste-management-world.com/articles/2013/01/plasma-gasification-turning-waste-to-fuel-in-china.html>

Europlasma Morcenx plant (France) is currently under commissioning start-up

www.cho-power.com/en/cho-power-in-morcenx-france-a-first-in-europe.html

Advanced Plasma Power receives planning permission for its waste to energy project in Tyseley UK

Press Release: 16 Dec 2013

<http://blog.advancedplasmawpower.com/news/advanced-plasma-power-receives-planning-permission-waste-energy-project-tyseley/>

Chinook Sciences wins Queen's Award for Enterprise in Innovation - The only company in this clean-tech sector to achieve this honour

April 21st, 2014

<http://www.chinookenergy.com/articles.asp?newsID=44>

Email chair@cleartheair.org.hk

Chinook is currently finalising construction of the world's largest industrial gasification plant at Oldbury in the West Midlands. The plant is scheduled to begin operations later this year. Chinook has numerous other projects in the pipeline both in the UK and across the globe through its development subsidiary, Chinook Energy. These include the development of plants in Carnbroe, Scotland, Thames Gateway in East London, and the Nottingham Energy Park in Bulwell. The latter will include a manufacturing facility, a research laboratory, training facilities as well as an RODECS® End-Stage Recycling® plant to power the site and local homes and businesses.

Chinook will shortly announce details about a recently-signed project in the Middle East. Work on the site and project has already begun for Phase 1 of the project and it is scheduled for completion at the end of 2015. Once this plant is fully operational, it will be the world's largest waste gasification facility.

Two UK firms recognized for recycling, renewable energy operations
April 23th, 2014 <http://www.chinookenergy.com/articles.asp?newsID=45>



THE QUEEN'S AWARDS
FOR ENTERPRISE:
INNOVATION
2014

The Queen's Awards for Enterprise, an annual awards program for British businesses and other organizations who excel at international trade, innovation or sustainable development, has recognized Chinook Sciences and Veolia Environment as winners of the award for 2014. The awards are the highest official U.K. awards for British businesses

Chinook Sciences wins Rushlight Waste to Energy award for 2012-2013
February 4th, 2013 <http://www.chinookenergy.com/articles.asp?newsID=33>

The Rushlight Awards are judged by an independent panel of recognized experts covering all clean technology sectors and drawn from academia, trade associations, government departments and specialist media. In particular, the judges included senior figures from DEFRA, the Institute of Chemical Engineers, the Institute of Environmental Sciences, DECC, WRAP, PERA, the Renewable Energy Association and the Carbon Trust, along with noted academics from the Universities of York, Newcastle, Nottingham, London, Edinburgh and Cranfield.

The trophy was presented to Chinook Sciences at the annual Rushlight Awards gala dinner on January 31 by Chris Murphy, Deputy Chief Executive of the CIWM (Chartered Institute of Waste Management) with the Minister of State for Energy and Climate Change, Greg Barker in attendance.



Advanced Plasma Power and Group Machiels announce landmark waste management

Advanced Landfill Reverse Mining in Belgium

<http://blog.advancedplasmapower.com/press-releases-archive/advanced-plasma-power-and-group-machiels-announce-landmark-waste-management/>

THE INCINERATOR – GAME OVER

<https://www.youtube.com/watch?v=JiVt4k12bzk>

Legislate sorting of waste at source !

https://storify.com/EU_ecoinno/16th-eu-forum-on-eco-innovation

<https://www.youtube.com/watch?v=Yiy7RZNF0ds&list=PLddRfvph7URTeQQ7wH7yHhqiqtORQYaND>

The European Commissioner for the Environment considers European drivers for change

<https://www.youtube.com/watch?v=Ys8dQeNzKkk&list=PLddRfvph7URTeQQ7wH7yHhqiqtORQYaND>

To: <wklo@engineer.com>, <lcc.ntw@dab.org.hk>, <jkstolegco@gmail.com>, <kiclegco@gmail.com>, <elau@dphk.org>, <yctam@dab.org.hk>, <arazack@netvigator.com>, <khwong@ftulegco.org.hk>, <info@cydho.org.hk>, <ga.ychk@dab.org.hk>, <leungkl@leungkl.org>, <ipkh@dab.org.hk>, <contact@alanleong.net>, <albert.wychan@yahoo.com.hk>, <legco@michaeltien.hk>, <tpc@jamestien.com>, <frankieyick@liberal.org.hk>, <chiwaioffice@gmail.com>, <fankwokwaioffice@gmail.com>, <fkmaoffice@gmail.com>, <charlesmok@charlesmok.hk>, <benchanlegco@gmail.com>, <info@chankalok.hk>, <yhchan@ftulegco.org.hk>, <amlegco@gmail.com>, <info@cheungchiuhung.org.hk>, <helenawonghk@gmail.com>, <eq@eqweb.hk>, <chianglaiwan@gmail.com>, <office@chungsk.com>, <info@tonytsewaichuen.com>
From: "Craig and Elisa Colbran" >
Date: 05/02/2014 01:34PM
Cc: <info@livingislands.org.hk>, <cb1@legco.gov.hk>
Subject: Very concerned with Environmental Impacts of EPD's approach to Waste Management

Dear Member of the Public Works Sub Committee

Proposed Incinerator for Hong Kong

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The EPD proposal deserves to be rejected, for the good of Hong Kong. The people of Hong Kong expect you to make the right decisions so that the future of the SAR is not blighted by this infamous and single minded proposal.

Yours sincerely

Elisa Colbran

Bachelor of Psychology, Bachelor of Education(History)