603B00006

603B00006

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☒ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by BMT ASIA PACIFIC
(name of person or organisation)

at _____ and _____
(telephone) (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	**Importing more electricity through purchase from the Mainland power grid**	**20%**	**30%**	**40%**	**10%**
		Total : 50%			
OPTION 2*	**Using more natural gas for local generation**	**20%**	**-**	**60%**	**20%**

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☒	☒ Safety ☒ Reliability ☒ Affordability ☒ Environmental performance ☐ Others (please specify): _____
2	☒	☐	Safety Reliability Affordability Environmental performance Others (please specify): _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☒

Reasons: (You can tick more than one box below)

Safety ☒

Reliability ☒

Affordability ☒

Environmental Performance ☒

Others ☐ **Please specify:** JUST LIKE GAS, MAINLAND ENERGY WILL COME? TOO HIGH A PRICE WITH NO CHANCE FOR NEGOTIATION.

Part 4

Other Comments and Suggestions

WHY WAS THE GOVERNMENT ABANDONED ITS COMMITMENT TO RENEWABLE ENERGY?

603B00012

603B00012

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。
郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

亨通貿業有限公司
(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基建。不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☑ **安全** ☑ **可靠性** ☐ **合理價格** ☑ **環保表現** ☐ **其他（請註明）:** _____
2	☑	☐	☑ **安全** ☑ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☐
環保表現 ☐
其他 ☐ **請註明:** _____

第四部分

其他意見或建議

中國制度不完善，对生命、環保等问题监管不力，本人主張本地發电

603B00015

603B00001

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by Citi Eng. Ltd. (name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☑ **Environmental performance** ☑ **Others (please specify):** choice more mix, average price
2	☐	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☑

Option 2 ☐

Reasons: (You can tick more than one box below)

Safety ☐

Reliability ☐

Affordability ☐

Environmental Performance ☑

Others ☑ **Please specify:** more mix to be choice

Part 4

Other Comments and Suggestions

多用再生能源发电，减少浪费用电，减少灯光，减少冷气；'''，

603B00018

603B00018

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by FICO Hong Kong Limited
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	**Importing more electricity through purchase from the Mainland power grid**	**20%**	**30%**	**40%**	**10%**
		Total : 50%			
OPTION 2*	**Using more natural gas for local generation**	**20%**	**-**	**60%**	**20%**

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☑ **Please specify:** Please refer to the following comments

Part 4

Other Comments and Suggestions

Mainland China utilities still have a lot to learn from their counterparts in other parts of the world. Hong Kong was rated as the best among over 100 economies by the World Economic Forum in 2013 with regard to quality of electricity supply. This speaks louder than any words can say. It is insane to bet on Mainland China to provide electricity supply to Hong Kong if our power utilities are already best in class.

603B00025

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- 3 JUN 2014
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EC

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or

☐ individual response (representing the views of an individual)

by ARA Asset Management (Prosperity) Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Option 2 provides the best mix of reducing pollution while maintaining a reliable power supply.

603B00026

603B00026

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or ☐ individual response (representing the views of an individual)

by Marketon Investment Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	**Importing more electricity through purchase from the Mainland power grid**	**20%**	**30%**	**40%**	**10%**
		Total : 50%			
OPTION 2*	**Using more natural gas for local generation**	**20%**	-	**60%**	**20%**

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Some news report showed that Macau, which is heavily reliant on Mainland power supply is actually more expensive than HK.

603B00027

603B00027

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by Cheung Kong Development Co. Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Option 2 is the best option for Hong Kong.

603B00028

603B00028

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or

☐ individual response (representing the views of an individual)

by CK Life Sciences Int'l., (Holdings) Inc
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	**Importing more electricity through purchase from the Mainland power grid**	**20%**	**30%**	**40%**	**10%**
		Total : 50%			
OPTION 2*	**Using more natural gas for local generation**	**20%**	**-**	**60%**	**20%**

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** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Newspapers said Guangzhou suffered over 3 hours of power outage compared to 1-2 minutes in HK. Option 2 is preferred.

603B00029

603B00029

Annex

Response Form
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mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by Maranta Estates Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
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** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

The attractiveness of Hong Kong is in its high standard of living. A reliable energy supply is one of them.

603B0030

603B0030

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

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mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a
- [x] corporate response (representing the views of a group or an organisation) or
- [ ] individual response (representing the views of an individual)

by Cheung Kong Infrastructure Holdings Ltd
(name of person or organisation)

at _____ and _____
(telephone) (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
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** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Our experience in energy companies overseas shows that option 2, local generation is the best choice among the two.

603B00031

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

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mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing,
Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by Cheung Kong E & M Engineering Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
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		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Our service requires a reliable energy source so option 2 is the best option.

603B00032

603B00032

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or ☐ individual response (representing the views of an individual)

by Becogate Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

HK should do its part in reducing pollution.

603B00033

603B00033

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a
- [x] corporate response (representing the views of a group or an organisation) or
- [ ] individual response (representing the views of an individual)

by Wonder Pacific Investment Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	**Importing more electricity through purchase from the Mainland power grid**	**20%**	**30%**	**40%**	**10%**
		Total : 50%			
OPTION 2*	**Using more natural gas for local generation**	**20%**	**-**	**60%**	**20%**

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Option 1's benefits to HK is speculative.

603B00036

敬啟者：

以下為「香港本土」就未來發電燃料組合的綜合意見書：

政府正諮詢公眾未來發電燃料組合，「香港本土」認為當局的兩個方案均不可取，方案1只會增加依賴大陸電力，令未來供電不穩，方案2則維持兩電壟斷，市民毫無選擇。故此，「香港本土」建議第三個方案，將來電力市場「廠網分家」，發電、輸電、配電和供電的資產和業務分開，且加強兩電聯網，逐步開放市場。

「香港本土」成員毛孟靜、范國威認為，向大陸購電的主要憂慮是供電不穩，南方電網現時每年每戶的停電時間約138分鐘，比香港的少於1分鐘(港燈)及2.3分鐘(中電)，最多相差過百倍，香港社會難以承受如此重大風險。而且，繼食水及菜肉等依靠大陸供應，若電力市場亦「大陸化」，資源糧食過度依賴單一來源，香港命運將被北京控制。

再者，「香港本土」質疑政府常以大陸向澳門供電穩定作比較例子，香港比澳門電力需求多逾十三倍，兩地不能相提並論，而且本港金融、數據中心、物流、運輸等國際業務非常集中，若因技術或政治原因，大陸停止供電，後果不堪設想。

毛、范表示，向大陸購電亦不能達致當局環保原意，因為港府根本無從監察廣東及南方電網發電來源，單憑兩個大陸電網現時燃料組合推斷，不能反映實況，而且大陸邊際燃料(即新增發電燃料)主要是燃煤，向大陸購電只會適得其反，額外增加碳排放。

方案2則只改變本地發電燃料組合，減少燃煤污染環境，卻未能打破兩電壟斷。「香港本土」建議，長遠而言，只有「廠網分家」，未來建新電廠或電網時，以「興建、營運及轉移」模式招標，把其他公司引入電力市場，增加競爭，香港市民始能真正受惠。

「香港本土」成員

立法會議員

毛孟靜　范國威

(黃家裕　代行)

二零一四年六月三日

603B00038

603B00038

香港中華廠商聯合會
The Chinese Manufacturers' Association of Hong Kong
(一九三四年成立 Established in 1934)

廠商會八十周年
CMA 80th Anniversary

敬啟者：

對「未來發電燃料組合」諮詢文件之意見

本會認同，在釐訂香港的未來發電燃料組合時，須考慮多項政策目標；除了要確保以合理價格、安全、可靠地滿足本港的能源需求，以及把發電對環境所造成的負面影響減至最低之外，亦應兼顧未來電力市場的改革和長遠發展，以便為2018年以後電網的開放和規管架構檢討奠定基礎。

雖然本港從內地輸入更多電力的技術可行性已有所提高，但購電的方案難免會對本地供電的可靠性和穩定性帶來新的變數。再者，根據諮詢文件的概算，比較從內地電網購電(「方案一」)與利用更多天然氣於本地發電(「方案二」)，二者在平均每單位的成本上相差並不大，反映了購電未必有助於紓緩本港未來電費水平大幅上漲的壓力。另一方面，輸入電力雖然可以改善香港的碳排放表現，但考慮到內地的發電燃料組合，則會衍生「置換效應」而增加內地的排放量；在「同一天空」下，與「方案二」相比，「方案一」甚或會對區域整體的空氣質素帶來負面的影響。綜合上述各點，本會傾向於支持諮詢文件中提出的「方案二」，即利用更多天然氣作本地發電。

從長遠看，本港有必要改善規管架構和引入競爭，令電力供應在保持可靠和穩定之餘，亦可維持於合理的價格水平。從內地電網購電既有助於引入水電等香港本地沒有的較清潔能源和促進燃料組合更趨多元化，亦可提供更多的空間，讓本港在發電層面上引入競爭，為開放電網創造條件。有見及此，本會認為買電的方案可從長計議；日後當內地電網的營運水平進一步提升，特別是在可靠性、穩定性以及可持續性等方面能夠達致與本地電力公司相若的水平時，本港亦可考慮從內地電網購電。

有關上述意見，如有任何疑問，請與本會政策研究總監顏紅曉先生(電話：　　　　)聯絡為荷。

此致

環境局電力檢討科

香港中華廠商聯合會
行政總裁

RECEIVED
ENB

二零一四年五月三十日

604B00002

604B00002

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。
郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

聲音先行
(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基建。不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就每個方案説明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☑ 安全 ☑ 可靠性 ☑ 合理價格 ☑ 環保表現 ☐ 其他 (請註明): ____
2	☐	☑	☑ 安全 ☑ 可靠性 ☑ 合理價格 ☑ 環保表現 ☐ 其他 (請註明): ____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇一個)

方案1 ☐ 沒有信心

方案2 ☐

原因: (可選擇多過一項)

安全 ☐

可靠性 ☐

合理價格 ☐

環保表現 ☐

其他 ☐ **請註明:** ____________

第四部分

其他意見或建議

若作出任何類似提議並實施後，有任何不安全或不穩定，政府要負責任賠償。否則萬動不服。

604B00004

604B0000

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a
- [x] corporate response (representing the views of a group or an organisation) or
- [ ] individual response (representing the views of an individual)

by ARA Asset Management (Fortune) Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	**Importing more electricity through purchase from the Mainland power grid**	**20%**	**30%**	**40%**	**10%**
		Total : 50%			
OPTION 2*	**Using more natural gas for local generation**	**20%**	**-**	**60%**	**20%**

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Reliability of power supply is extremely important to the property management business.

604B00005

604B00005

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

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mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or ☐ individual response (representing the views of an individual)

by Conestoga Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

The upfront investment of Option 1 is not worthwhile.

604B00006

604B00006

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by Biro Investment Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	**Importing more electricity through purchase from the Mainland power grid**	**20%**	**30%**	**40%**	**10%**
		Total : 50%			
OPTION 2*	**Using more natural gas for local generation**	**20%**	**-**	**60%**	**20%**

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Option 1 is untested and uncertain. It's not a viable option.

604B00007

604B00007

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by Green Island Cement (Holdings) Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	**Importing more electricity through purchase from the Mainland power grid**	**20%**	**30%**	**40%**	**10%**
		Total : 50%			
OPTION 2*	**Using more natural gas for local generation**	**20%**	**-**	**60%**	**20%**

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

There are many ways to develop sustainable energy locally. There is no need to import electricity from the Mainland.

604B00008

604B00008

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

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mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by Randash Investment Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

HK should look for ways to improve its standard of living. Option 1 does not do this except make electricity more expensive.

604B00009

604B00009

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or ☐ individual response (representing the views of an individual)

by Bermington Investment Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

In the serviced suite business, blackouts, even for minutes or hours will severely affect clients.

604B00010

604B00010

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or ☐ individual response (representing the views of an individual)

by Chesterfield Realty Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Option 1 will require heavy upfront costs with no benefits. Option 2 is preferred.

604B00011

604B00011

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a
- [x] corporate response (representing the views of a group or an organisation) or
- [ ] individual response (representing the views of an individual)

by Portofino Management Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐
Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑
Reliability ☑
Affordability ☑
Environmental Performance ☑
Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Reliable energy is important not only for every day services but also emergency services.

604B00015

604B00015

15

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。

郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科

電子郵件: fuel_mix@enb.gov.hk

傳真: 2147 5834

第一部分(見註)

這是 ☐ 團體回應 (代表個別團體或機構意見) 或

☐ 個人回應 (代表個人意見)

_____

(個人或機構名稱)

_____ 及 _____

(電話) (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基建。不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** [illegible]
2	☑	☐	☐ **安全** ☑ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:**

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☐
可靠性 ☑
合理價格 ☐
環保表現 ☐
其他 ☐ **請註明:** [illegible]

第四部分

其他意見或建議

[illegible]

604B00021

604B00021

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or

☐ individual response (representing the views of an individual)

by Sunrise Pacific Overseas Ltd.
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** might involve more nuclear power.
2	☑	☐	☑ **Safety** ☑ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):**

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☐

Environmental Performance ☐

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Freedom to buy natural gas at the international market and greater control on the price of the electricity supply

604B00022

604B00022

22

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。

郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☐ 團體回應 (代表個別團體或機構意見) 或
☑ 個人回應 (代表個人意見)

L.K. LAI & CO., LTD.
黎屈務有限公司

(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基建。不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☐	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** _____
2	☑	☐	☑ **安全** ☑ **可靠性** ☑ **合理價格** ☑ **環保表現** ☑ **其他（請註明）:** _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☑
環保表現 ☑
其他 ☑ **請註明:** _____

第四部分

其他意見或建議

自力更新，不可求別人，靠自己

604B00026

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by ANALOGUE HOLDINGS LTD.
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	**Importing more electricity through purchase from the Mainland power grid**	**20%**	**30%**	**40%**	**10%**
		Total : 50%			
OPTION 2*	**Using more natural gas for local generation**	**20%**	**-**	**60%**	**20%**

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☑ **Others (please specify):** OPEN ELECTRICITY MARKET
2	☑	☐	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐
Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑
Reliability ☑
Affordability ☑
Environmental Performance ☑
Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

ELECTRICITY REFORM IS A COMPLEX ISSUE WHICH CANNOT BE DETERMINED WITH TWO SIMPLE OPTIONS.

605B00001

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by Anderson Asia (Holdings) Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Electricity reliability is imperative to maintain business operations particularly one engaged in investment.

605B00002

605B00002

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before 18 June 2014 by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by Cheung Kong (Holdings) Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐
Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑
Reliability ☑
Affordability ☑
Environmental Performance ☑
Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Hong Kong has a reliable and efficient energy supply while improving service and lowering pollution. Option 2 will continue this trend.

605B00006

605B00006

(06)

Annex

Response Form

Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before 18 June 2014 by one of these means:	
mail:	Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong
e-mail:	fuel_mix@enb.gov.hk
fax:	2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by Pat Chun International Ltd.
(name of person or organisation)

at ____________ and ____________
(telephone) (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
[illegible]		[illegible]	-	[illegible]	[illegible]
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reasons (You can tick more than one box below)
1	☐	☑	☐ **Safety** ☑ **Reliability** ☐ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐
Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☐
Reliability ☑
Affordability ☐
Environmental Performance ☑
Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Please see my attachment

Attachment

Our company operates a manufacturing facility in Hong Kong, using electricity as our primary energy source. We rank reliability and availability of electric power over affordability and environmental issues. Hence, if limited to the two choices in the consultation document, we prefer option 2 – local generation with natural gas.

Furthermore, the consultation is thin on both facts and choices – very superficial reasons were given to support the tabled options and eliminate others. We request the Government to issue a more comprehensive explanation that details the various technical merits and disadvantages of a wider range of options, rather than force us to make important decisions with limited information.

605B00008

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。
郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

Nishitani (Asia) Limited
(個人或機構名稱)

(電話) 及 (電郵)

第二部分
燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基礎，不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☐ **安全** ☑ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** _____
2	☑	☐	☑ **安全** ☑ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☐
環保表現 ☑
其他 ☐ **請註明:** _____

第四部分

其他意見或建議

主要針對從內地購電的安全及供電的穩定性、可靠性。

605B00009

The Incorporated Owners of the Thesaurus Court

翠華閣業主立案法團

No 330-336 Shun Ning Road, Shamshuipo, Kowloon

環境局局長
(經辦人: 吳文傑先生)
Faxline 2147 5834

吳先生,

未來發電燃料組合公眾諮詢

本業主立案法團(法團) 對上述諮詢有以下意見:-

1. **建議新的燃料組合**

1.1 輸入核能: 不能超越 20%;
1.2 天然氣: 不少於 65%; 及
1.3 煤及再生能源: 不多於 15%。

2. **全力支持增加利用天然氣作本地發電 65%: 理據**

2.1 供電的稳定，安全性及合理價格是非常重要。達至此目的，有関發電必須在本港進行及由政府和社会監察。在過去兩間電力公司表現良好，因此我們相任他们在未來可以有效利用更多天然氣作本地發電；
2.1 我們明白到增加利用天然氣作本地發電後，電費應增加，但加幅及理據始終由本港自行審視，控制和決定;
2.3 由於增加利用天然氣作本地發電後電費相應增加，政府應借此機會鼓勵和教導市民節省能源，達致更環保；及
2.4 大幅增加電費不一定是壞事，當大家感受到「肉痛」時一定自我節能。同一道理政府經常大幅加香煙稅目的是鼓勵煙民戒煙。

3. **<u>支持保留煤及再生能源 15%: 理據</u>**

3.1 對環境破壞不是這麼大；及

3.2 調節全用天然氣帶來的加價壓力及單一(除核電) 的危機。

4. **<u>反對從內地電網購電: 理據</u>**

4.1 擔心稳定性；輸往澳門量少而稳定不表示大量輸往香港同样稳定；

4.2 現已有 23%核電力是由內地輸入，在此基礎上再大量增加，內地必然操控香港 85%的供電及價格，非常危險；

4.3 內地為應付供額外電力给香港，可能在珠三角興建新的燃煤/火力發電廠，染污環境，得不償失；及

4.4 簽約購電後，倘若香港因經濟環境等因素而减少用電，是否像東江水不輸港照付款一样?

Signed
(黃伯仁)
義務秘書
翠華閣業主立案法團

2014 年 6 月 5 日

606B00009

606B00009

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。
郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

Galaxy Engineering Co.
(個人或機構名稱)

(電話) — 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基建。不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

606B00009

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就**每個**方案説明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☑ **安全** ☑ **可靠性** ☑ **合理價格** ☑ **環保表現** ☐ **其他 (請註明):** ______
2	☑	☐	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他 (請註明):** ______

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☑
環保表現 ☑
其他 ☐ **請註明:** ______

第四部分

其他意見或建議

若落實方案1，從南方电網買电，那將來不能控制所買电的價錢，而且不能保證~~環~~对環境表現有好處。當香港向南網買电時，南網亦會使用更多煤來發电。

606B00012

606B00012

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before 18 June 2014 by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 6834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or

☐ individual response (representing the views of an individual)

by HKUGA College
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Contact person : Benson KWAN (Mr.)
email:

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☐ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☐

Environmental Performance ☐

Others ☑ **Please specify:** Overall carbon emission

Part 4

Other Comments and Suggestions

1) Please make an online form for public consultation
2) Provide at least 3 options to avoid design bias.
3) The HKSAR Government should provide incentives for citizens and companies to reduce energy use per capita (outside the scope of this consultation)

606B00014

606B00014

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月16日或之前透過以下方式提交你的意見。

郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科

電子郵件: fuel_mix@enb.gov.hk

傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或

☐ 個人回應 (代表個人意見)

住友重机械减速机（香港）有限公司

(個人或機構名稱)

_____ 及 _____

(電話) (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基建，不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見？(請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☑ **安全** ☑ **可靠性** ☑ **合理價格** ☑ **環保表現** ☑ **其他（請註明）**：影响香港本土就业
2	☑	☐	☑ **安全** ☑ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）**：

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☐
環保表現 ☑
其他 ☑ **請註明:** 长远考虑香港可以自主价格合理定价，而且增加本地就业

第四部分

其他意見或建議

反对从大陆电网购电，不要以环保为借口，外购的电到底以何种方式发电香港根本无法控制，最终只是香港付出高于正常水平的电费来把污染转移。如果放弃自主发电，香港将失去议价能力最终只有任人宰割。

Hong Kong Branch
Institution of MECHANICAL ENGINEERS

606B00016

606B00016

Environment Bureau
Electricity Reviews Division
15/F East Wing
Central Government Offices
2 Tim Mei Avenue
Hong Kong

By e-mail only
fuel_mix@enb.gov.hk

3 June 2014

Dear Sir,

Initial Position Paper on Views on Future Fuel Mix for Electricity Generation for Hong Kong

Background

The Environment Bureau is conducting a three-month public engagement exercise to foster in-depth discussion and solicit views from the community pertaining to the future fuel mix for electricity generation in Hong Kong (the Consultation) launched on 19th March 2014. Two (2) options are proposed in the Consultation:-

- Option 1 imports 20 per cent of electricity from Daya Bay Nuclear Power Station and 30 per cent of electricity from China Southern Grid (CSG) with the rest generated locally by coal and gas in the allocation of 40 and 10 per cent respectively.
- Option 2 imports 20 per cent of nuclear electricity from Daya Bay Nuclear Power Station with the remaining 60 and 20 per cent produced locally by coal and gas respectively.

In response to the Consultation, Institution of Mechanical Engineers Hong Kong Branch is hereby pleased to render the collective views and comments on the subjects of the Consultation as below.

Comments

The subject was discussed in the light of the four (4) energy policy objectives, namely Safety, Reliability, Cost and Environmental Performance, in conjunction with the technical and social considerations tendered by the members.

Policy objective: Reliability
We noticed that Option 1 has provided no detail to assure dedicated and secured electricity supply to Hong Kong from CSG and warrant that the current high level of power supply reliability and power quality is not compromised. In particular, the current world class supply reliability in Hong Kong of 99.999% equivalent to a yearly average unplanned outage time of one (1) to two (2) minutes is far superior to that of CSG at 99.96% or power outage of approximately 3.2 hours per year.

Policy objective: Cost

We reckon that Option 1 has offered no sufficient substantiation on the investment on infrastructure and local back-up generating capacity, and the prospective pricing structure in terms of fuel cost and tariff.

Policy objective: Environmental performance

We are of the view that since Hong Kong and the Pearl River Delta region (PRD) share the same climate owing to the proximity of each other, emissions from either place will directly affect the other indiscriminately. Though the Consultation has not specified the prospective fuel(s) for generating 30 per cent of power to supply Hong Kong from CSG under Option 1, we believe that most likely the source will be from coal according to Guangdong's 12th 5-year plan of increasing coal generation capacity by 50% between 2011 and 2015. In this respect, unless explicitly the PRD sees substantial and effective reduction of carbon intensity and emissions in electricity generation, Option 1 tenders no advantage over Option 2 from the environmental performance perspective

Others: Operation and execution

We are concerned that the Consultation has given too little coverage on the means of execution of Option 1, such as load dispatch and management, satisfaction of peak demand and load pattern of Hong Kong. Also, the allocation of fuel mix for the two (2) power companies, CLP Power and HK Electric, under both Options is unclear. Furthermore, the impact due to improved technologies and energy efficiency initiatives as well as social-political considerations has not appeared to be duly taken into account in both Options.

Summary and Suggestion

We acknowledge the Consultation is important to the livelihood and prosperity of Hong Kong in many generations to come and, given its significance and influence to the future, the community should be furnished with as much relevant data as possible for review and discussion. However, in view of the above, it would be pre-mature for the public and the professionals to judge which option would be the most suitable for our future fuel mix for electricity generation in Hong Kong, while Option 1 has casted more doubt than certainty as of the discussion to date.

To warrant a thorough evaluation on the Options proposed, we would suggest the Government to substantiate the impacts of Option 1 on the areas in Reliability, Cost, Environmental performance and Operation and execution we specifically addressed above. Unless informed with sufficient supplementary information, we hold our reserved view towards Option 1 and opine Option 2 is more practical.

Besides, in the light of Option 2, the majority of the existing local coal-fired units are scheduled to retire from 2017. We would wish the Government to provide more information in upgrading the existing coal-fired units for a lower carbon yield.

Thank you for your attention.

Yours faithfully,

Barry Chi-Hong Lee
Chairman (2014 – 2015)
Institution of Mechanical Engineers Hong Kong Branch

BL/wht

607B00001

附件

回應表格

香港的未來接駁燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見：
郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力機計科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(背景)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

Nishitani (Asia) Limited
(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
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**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見？(請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☐ **安全** ☑ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）：** _____
2	☑	☐	☑ **安全** ☑ **可靠性** ☐ **合理價格** ☑ **環保表現** ☐ **其他（請註明）：** _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☐
環保表現 ☑
其他 ☐ **請註明:** _____

第四部分

其他意見或建議

主要針對從內地購電的安全及供電的穩定性、可靠性。
以及主張對環保支持，希望以天然氣為主要電力供應。

608B00001 608B00001

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。
郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

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☐ 個人回應 (代表個人意見)

愛浦邨互助委員會
(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
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*以上的燃料比例用以提供一個基礎作發展電力供應所需的基建，不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

第三部分

具體諮詢問題

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方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☐ 安全 ☑ 可靠性 ☑ 合理價格 ☑ 環保表現 ☐ 其他 (請註明): _____
2	☐	☑	☐ 安全 ☐ 可靠性 ☑ 合理價格 ☑ 環保表現 ☐ 其他 (請註明): _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇一個)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☐
可靠性 ☑
合理價格 ☐
環保表現 ☐
其他 ☐ 請註明: 要綁 購電不一定環保

第四部分

其他意見或建議

可再生能源比例太低
比現在科技應能改善燒煤對環境影响
利用垃圾，廚餘等發電，考慮加建核電廠

609B00012

609B00012

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。
郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

Hong Kong Specialty Gases Co. Ltd.
(個人或機構名稱)

_____ (電話) 及 _____ (電郵)

第二部分
燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基建。不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☑ **安全** ☑ **可靠性** ☑ **合理價格** ☑ **環保表現** ☐ **其他（請註明）:** _____
2	☑	☐	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☑
環保表現 ☑
其他 ☐ **請註明:** _____

第四部分

其他意見或建議

Option 2 can ensure better stability to HK household and business sector, as well as public transport system.

609B00018

香港小童群益會
The Boys' & Girls' Clubs Association of Hong Kong

回應香港的未來發電燃料組合公眾諮詢

電力乃推動及維護本港現時的經濟、社會及民生其中一種最重要的能源之一。保持長期而穩定的電力供應是有必要的。為配合本港的《清新空氣藍圖》，本港必須尋找更潔淨的能源生產方法，減低本地碳排放之餘，更促進本地對可再生能源使用比率。可惜，本地可再生能源的生產因地理環境所限制，不能有效地取替化石燃料地位。政府必須盡快實行長期的能源供應政策，為將來本港社會及可再生能源發展奠定基石。本會對是次發電燃料組合公眾諮詢有以下建議：

燃料組合的選擇：

兩個供電組合各有利弊，但本會認為方案一較方案二理想。主要考慮因素有二，“兩間電力公司能否應付更長遠的香港能源消耗情況”及“將來可再生能源使用可能性”

兩間電力公司能否應付更長遠的香港能源消耗情況

香港電力需求將會陸續上升，但本港土地資源有限，再加上環境保護的必要，兩電能否不斷擴大規模以應付本地需求是一個必須考慮因素。首先，增加電力供應商及供電來源，可減少本港覓地建廠的需要，省卻下來的土地可作環境保育之用。其次，隨著本港發展，兩電增建廠房及引入低碳原料始終會有上限。若果，本地電力供應臨近上限才另覓供應商，電力價格及需求急切性將會比現時更高。

將來的可再生能源使用可能性

本港兩間電力供應商皆有引入可再生能源以減低本港碳排放及對化石燃料的需求。可惜，以現今科技而言，本港發展可再生能源的潛力並不能完全取代本港現時對化石能源及將來用電需求的增長。再者，本港受地形限制，發展可再能源的支出將會昂貴及發展範圍地段有限。為達致本港長遠發展本地可再生能源的目標，增加電網可以提高本港將來逐漸要求內地提供可再生能源的百份比。同時，亦可要求兩電投放更多資源研發及使用更有效率的可再生能源科技。

其他建議：

除了增加能源供應外，政府更應以立法方向加強商界於節省能源消耗。根據機電署 2013 年及之前的《香港能源最終用途數據》，商界電力使用率佔全港的總耗電量 66%。無可置疑，商界是主要推動本港經濟的主要命脈，用電量高亦在所難免。可是，部份商業機構及商舖於沒有充份理由下，於非工作時間及人流非常稀少的情況下仍然燈火通明（圖片一）。此種商業行為是與本港節省能源大方向

背道而馳，亦加速本港電力供應到達供不應求景況及光污染的其中一個成因。雖然，不應“一竹篙打一船人”，但本港商業區，如旺角，通宵亮燈普遍可見。

另外，本港龐大的電力需求亦源於市民用電的不良習慣。當局應加強向市民宣傳節能的好處，亦應每年撥出更多的資源增強節省能源及能源以外的環境教育。好讓市民及年青一代從少培養環境保護意識。

維持穩定的電力供應，乃香港持續經濟發展及穩定大眾市民生活所需。雖然電力使用增長率有所減慢，但若果以現時本港市民及商業機構的電力使用習慣，電力使用程度只會繼續有升無減。短期之策是從港外引入電子力，同時加強本地電力供應商的產電能力。而最長期的有效之策，是從市民的日常習慣入手，有效地推廣節省能源的習慣。

609B00028

609B00028

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。
郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☑ 個人回應 (代表個人意見)

SNSI CAPITAL MANAGEMENT HK LIMITED
(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基建。不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

609B00028

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見？(請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☑ **安全** ☑ **可靠性** ☑ **合理價格** ☑ **環保表現** ☐ **其他（請註明）:** _____
2	☑	☐	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☑
環保表現 ☑
其他 ☑ **請註明:** _____

第四部分

其他意見或建議

ALWAYS SUPPORT HONG KONG

609B00053

609B00053

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。
郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

青盛苑業主立案法團

(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基礎。不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

609B00053

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見?(請就**每個**方案説明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☐ 安全 ☐ 可靠性 ☐ 合理價格 ☐ 環保表現 ☐ 其他（請註明）: 經常停電、價格貴
2	☑	☐	☑ 安全 ☑ 可靠性 ☑ 合理價格 ☑ 環保表現 ☐ 其他（請註明）:

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇一個)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☑
環保表現 ☑
其他 ☐ 請註明: ____________

第四部分

其他意見或建議

内地自己本来已供电不足，常停电，价格贵比本港还要贵，把资源发展本港电力。

609B00058

609B...58

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。

郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討組
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

JF Thermal System Limited.
(個人或機構名稱)

_____ 及 _____
(電話) (電郵)

第二部分
燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基礎。不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見？(請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☑ **安全** ☑ **可靠性** ☑ **合理價格** ☑ **環保表現** ☐ **其他（請註明）:** _____
2	☑	☐	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☑
環保表現 ☑
其他 ☐ **請註明:** _____

第四部分

其他意見或建議

支持本地发电！

610B00016

610B00016

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。

郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

Good Power Electronics Ltd.
(個人或機構名稱)

及

(電話) (電郵)

第二部分

燃料組合

方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基建，不同燃料的實際分配應按實際情況釐定。

**包括少量柴油。

610B00016

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就每個方案説明你的看法)

[illegible]	[illegible]	[illegible]	[illegible]
1	☐	☑	☑ 安全 ☑ 可靠性 ☐ 合理價格 ☑ 環保表現 ☑ 其他（請註明）: 削弱價能力,受污染,不受控
2	☑	☐	☑ 安全 ☑ 可靠性 ☑ 合理價格 ☑ 環保表現 ☑ 其他（請註明）: 香港人自主商議監管

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇一個)

方案1 ☐

方案2 ☑

原因: (可選擇多過一項)

安全 ☑

可靠性 ☑

合理價格 ☑

環保表現 ☑

其他 ☑ 請註明: 香港政府自行監管有效性高,不須向北供

第四部分

其他意見或建議

覺香港人不順其意時,可停你水/電,如"東江供水"議價力低,減量亦不可,民生依賴過多,死路一條,有如有條件的限制外國進口生活?難爭,香港人要捱貴雞/牛,讓"五丰行"獨佔,難有議價力.

610B00018

610B00018

附件

回應表格
香港的未來發電燃料組合公眾諮詢

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電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☐ 團體回應 (代表個別團體或機構意見) 或
☑ 個人回應 (代表個人意見)

旅遊服務業培訓發展中心

(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
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**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☑ **安全** ☑ **可靠性** ☑ **合理價格** ☑ **環保表現** ☐ **其他（請註明）:** _____
2	☑	☐	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☑
環保表現 ☑
其他 ☐ **請註明:** _____

第四部分

其他意見或建議

支持本地服務提供者再注入環保再生能源發現，持續減排，改善環境及空氣質素！

610B00049

610B00049

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before 18 June 2014 by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

RECEIVED 10 JUN 2014 ENB

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or

☐ individual response (representing the views of an individual)

by MITSUBISHI CORPORATION HONG KONG PROJECT CONSTRUCTION OFFICE
(name of person or organisation)

at _____ (telephone) at _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
OPTION 1*	Importing more electricity through purchase from the Mainland power grid	20%	30%	40%	10%
		Total : 50%			
OPTION 2*	Using more natural gas for local generation	20%	-	60%	20%

* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☑ **Others (please specify):** price, the negotiation ability, control of resources
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☑ **Please specify:** Protect local employment

Part 4

Other Comments and Suggestions

Other than Option 1 and Option 2, it is strongly recommended for opening more options/choices for choose. Also, the options have to few concern on Renewable Energy (RE)

610B00053

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。
郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

Grand Loyal Corporation Ltd
(個人或機構名稱)

(電話) 及 (電郵)

第二部分
燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
現時 (2012)		23%	-	22%	55%**
方案1*	通過從內地電網購電以輸入更多電力	20%	30%	40%	10%
		總共：50%			
方案2*	利用更多天然氣作本地發電	20%	-	60%	20%

*以上的燃料比例用以提供一個基礎作規劃電力供應所需的基建。不同燃料的實際分配應按實際情況釐定。

**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☐	☑	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☑ **環保表現** ☐ **其他（請註明）:** _____
2	☑	☐	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☐
可靠性 ☐
合理價格 ☑
環保表現 ☑
其他 ☐ **請註明:** _____

第四部分

其他意見或建議

天然氣及煤(及可再生能源)可以更環保

6108000 70

Annex

Response Form
Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

Please send this response form to us on or before **18 June 2014** by one of these means:

mail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing, Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☑ corporate response (representing the views of a group or an organisation) or

☐ individual response (representing the views of an individual)

by China Scientific (H/C) Ltd
(name of person or organisation)

at _____ (telephone) and _____ (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
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		Total : 50%			
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* The above fuel mix ratios aim at providing a basis for planning the necessary infrastructure for electricity supply. Flexibility should apply to actual deployment of each fuel type, having regard to the circumstances happening on the ground.

** Inclusive of a small percentage of oil

610B00070

Part 3

Specific Questions for Consultation

Q1: How do you view each of the two fuel mix options with regard to safety, reliability, cost, environmental performance and other relevant considerations? (Please indicate your view on **EACH** of the two options.)

Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
1	☐	☑	☑ **Safety** ☑ **Reliability** ☐ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____
2	☑	☐	☐ **Safety** ☐ **Reliability** ☐ **Affordability** ☐ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☑

Environmental Performance ☑

Others ☐ **Please specify:** enhance local employment.

Part 4

Other Comments and Suggestions

Our local utilities have proven record of reliability and buying power from mainland China would inevitably one way or the other burning more coal in China, in order to meet electricity demand in Hong Kong. We suggest to burn more gas to improve our ambient air environment.

610B00126

610B.00126

Annex

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nail: Environment Bureau, Electricity Reviews Division, 15/F, East Wing,
Central Government Offices, 2 Tim Mei Avenue, Tamar, Hong Kong

e-mail: fuel_mix@enb.gov.hk

ax: 2147 5834

art 1 (See Notes)

is is a ☑ corporate response (representing the views of a group or an organisation) or
☐ individual response (representing the views of an individual)

by Asia Adia
(name of person or organisation)

_____ and _____
(telephone) (e-mail)

art 2

Fuel Mix Options

	FUEL MIX	IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
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Part 3

Specific Questions for Consultation

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Option	Support	Not Support	Reason for NOT supporting (You can tick more than one box)
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2	☑	☐	☑ **Safety** ☑ **Reliability** ☑ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐
Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑
Reliability ☑
Affordability ☑
Environmental Performance ☑
Others ☐ **Please specify:** _____

art 4

ther Comments and Suggestions

Hong Kong is capable to generate our own electricit
Why do we need mainland Chinese Company to sell
us ?

610B00130

610B00130

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。

郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討科
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

沙田ZVB.
(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
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**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見？(請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
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2	☑	☐	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☐
可靠性 ☑
合理價格 ☑
環保表現 ☐
其他 ☐ **請註明:** _____

第四部分

其他意見或建議

方案二能控制燃料價格。
方案一可能會增加停電的次數。

610B00140

610B00140

Annex

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Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

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e-mail: fuel_mix@enb.gov.hk

fax: 2147 5834

Part 1 (See Notes)

This is a ☐ corporate response (representing the views of a group or an organisation) or

☑ individual response (representing the views of an individual)

by JULIAN EGLI, LIQUID ASSETS LIMITED.
(name of person or organisation)

at _____ (telephone) and JM V (e-mail)

Part 2

Fuel Mix Options

FUEL MIX		IMPORT		NATURAL GAS	COAL (& RE)
		NUCLEAR (DBNPS)	GRID PURCHASE		
Existing (2012)		23%	-	22%	55%**
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2	☑	☐	☐ **Safety** ☑ **Reliability** ☐ **Affordability** ☑ **Environmental performance** ☐ **Others (please specify):** _____

Q2: Which of the two fuel mix options do you prefer? Why? (Please tick **ONLY ONE** box)

Option 1 ☐

Option 2 ☑

Reasons: (You can tick more than one box below)

Safety ☑

Reliability ☑

Affordability ☐

Environmental Performance ☑

Others ☐ **Please specify:** _____

Part 4

Other Comments and Suggestions

Strongly support HK to be self-sufficient and use its own resources before seeking assistance.

610B00156

610B00156

附件

回應表格
香港的未來發電燃料組合公眾諮詢

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第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

Top Weal Limited
(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
		核能 (大亞灣核電站)	從電網購電		
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**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
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2	☑	☐	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** _____

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☐
可靠性 ☐
合理價格 ☑
環保表現 ☑
其他 ☐ **請註明:** _____

第四部分

其他意見或建議

天然氣及煤(及可再生能源)可以更環保

610B00178

610B00178

附件

回應表格
香港的未來發電燃料組合公眾諮詢

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電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

京士相晨運之友
(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
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**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見? (請就**每個**方案說明你的看法)

方案	支持	不支持	不支持方案的原因 (可選擇多過一項)
1	☑		☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** ~~價格~~
2		☑	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）:** 價格

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☑

方案2 ☐

原因: (可選擇多過一項)

安全 ☑

可靠性 ☐

合理價格 ☑

環保表現 ☑

其他 ☐ **請註明:** _____

第四部分

其他意見或建議

從內地購電，簡單實際。

610 R00196

610B00196

附件

回應表格
香港的未來發電燃料組合公眾諮詢

請於2014年6月18日或之前透過以下方式提交你的意見。
郵寄地址: 香港添馬添美道二號政府總部東翼十五樓環境局電力檢討組
電子郵件: fuel_mix@enb.gov.hk
傳真: 2147 5834

第一部分(見註)

這是 ☑ 團體回應 (代表個別團體或機構意見) 或
☐ 個人回應 (代表個人意見)

Talent Pacific International Ltd.
(個人或機構名稱)

(電話) 及 (電郵)

第二部分

燃料組合

燃料組合		輸入		天然氣	煤 (及可再生能源)
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**包括少量燃油。

第三部分

具體諮詢問題

問1: 就安全、可靠性、合理價格、環保表現及其他相關的考慮而言，你對兩個燃料組合方案有何意見？(請就**每個**方案說明你的看法)

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1	☐	☑	☑ **安全** ☑ **可靠性** ☑ **合理價格** ☑ **環保表現** ☐ **其他（請註明）：** 過份倚賴內地之自主性
2	☑	☐	☐ **安全** ☐ **可靠性** ☐ **合理價格** ☐ **環保表現** ☐ **其他（請註明）：**

問2: 你認為在兩個燃料組合方案中，哪一個較理想？為什麼？(請只選擇**一個**)

方案1 ☐
方案2 ☑

原因: (可選擇多過一項)

安全 ☑
可靠性 ☑
合理價格 ☑
環保表現 ☑
其他 ☐ **請註明:** 行之有效，有往績可尋，監管控制較易

第四部分

其他意見或建議

良好供电服务及其他基建配套对香港经济发展非常重要，我们这些中小企特别赖以发展业务和成功经营，实不容有失。

610B00216

地球之友 friends of the earth

Response to HK Government Fuel Mix Consultation

June 2014

Contents

香港地球之友
Friends of the Earth (HK)

Executive Summary

The purpose of this paper is to respond to the Hong Kong Government's Fuel Mix consultation.

We emphasize that there is insufficient information about both options for citizens to make an informed choice. For example, more information is required regarding the cost of infrastructure expansion, the allocation of these costs, the potential for market competition, and the long-term sustainability for both options. We also strongly advise that Hong Kong's future fuel mix should incorporate a much higher proportion of renewable energy that could be generated locally and in the Guangdong region – there is extensive evidence that Hong Kong has the potential to significantly expand its renewable energy sector, where end-of-line generation should not be neglected.

Further, we conclude that the two fuel mix options themselves are not enough to address the critical issues of climate change, demand reduction, energy conservation, and market competition. We suggest that rather than looking at the Fuel Mix now, and later Green Buildings, Energy Efficiency, and Climate Change separately, we should address all of these issues together and form a **long-term sustainable energy strategy** for Hong Kong. The strategy must take into account emissions reduction, demand reduction, and renewable energy. Finally, in order to propel and facilitate these changes, there must be extensive change in policy, including reforms to the current, vertically-integrated duopoly market and the Scheme of Control.

Introduction to FoE(HK)'s Response

Friends of the Earth (HK) welcomes the HK Government's public consultation which has triggered active debate on an issue so critical to Hong Kong's and the Planet's future.

FoE(HK) has accepted the government's request for a response and has formed a dedicated team of specialists including academics, industry professionals, researchers and advisors.

After much research and debate FoE(HK) is unable to separate the Fuel Mix subject from other key issues including:

1. Climate Change
2. Demand-Side Management
3. Market Competition
4. Carbon Pricing
5. New and Emerging Technologies
6. Flexibility to Adopt New Technologies
7. Other Energy Forms
8. Appropriate and Relevant Data and Information
9. Business Imperatives
10. Social Expectations
11. Government Regulations

In effect the topic of Fuel mix must be part of a comprehensive Energy Strategy for Hong Kong that embraces all forms and uses of energy beyond electricity (and certainly beyond just considering fuel sources such as coal, oil, gas and uranium)!

FoE(HK)'s Observations

Option 1

Option 1 would be to import more electricity via purchasing from the China Southern Power Grid (CSG) in the Mainland.

Possible advantages:

- access to wider diversity of energy sources, which acts as a buffer upon shortages
- access to renewable energy in the Mainland, especially wind, solar and hydro
- more flexibility for local CO_2 reductions in the near future
- claimed to provide more room to introduce market competition.

Possible disadvantages:

- the inability to differentiate energy sources in the grid; e.g. what proportion of the grid energy is from coal plants, renewable energy or nuclear plants
- high initial cost to establish the cross-boundary infrastructure to link the mainland grid with the HK grid
- lower reliability, when comparing CSG reliability to the current 99.9997% reliability in HK

Queries:

- although this option can reduce local emissions, is HK simply exporting our pollution to the Mainland, rather than reducing emissions altogether?
- the current 99.9997% reliability of HK electricity means that the city only suffers an outage of an average of 3 minutes per year. As there is sufficient backup for critical infrastructure such as hospitals, transportation and data centres, how important is maintaining that high level of reliability or could Hong Kong have a slightly lower reliability without unduly affecting the community?
- is the past reliability of the CSG network a reliable indicator of its future reliability?
- how will the cost of building the cross-boundary infrastructure be transferred to consumers?
- what proportion of the cross-boundary infrastructure cost will be paid by the mainland side versus the HK side?
- which company or new entity will provide this cross-boundary infrastructure service?
- is there a chance for a more competitive market instead of the current duopoly?
- is it possible for HK to source directly from renewable energy suppliers in the mainland (e.g. via direct transmission) instead of grid purchase?

Option 2

Option 2 would be to use more natural gas for local generation. The proportion of natural gas in the fuel mix is proposed to rise from the current level of 22% to 60% by 2020.

Possible advantages:

- claimed to be reliable, given the current record of CLP and Hongkong Electric Company
- establishment cost may be cheaper, though more cost assessment is required

Possible disadvantages:

- no change to the current duopoly market
- limits the possibility of sourcing renewable energy from the Mainland
- more local emissions
- the price of natural gas is generally volatile
- a natural gas plant has a 30-year average lifespan
- heavy reliance (60%) on one energy type
- will only reduce CO_2 emissions in the short term, but locks HK into unsustainable levels afterwards

Queries:

- using natural gas to replace coal can reduce emissions in the short term, it will not be able to meet more stringent emissions caps in the long term. What are the plans and the associated costs to eventually phase out natural gas in the long term, if we are to expand it now?
- how will the costs of natural gas expansion be transferred to customers in the short and long term?
- there may be a concern that Option 1 will make HK a captive electricity buyer to the Mainland, it is important to note that for Option 2, natural gas must still be purchased from or through the Mainland given the current infrastructure. Will new infrastructure be built in HK to provide the option for independent gas supply?

Caveats to Both Options, and Moving Forward

The foremost priority for the fuel mix revision is combating climate change, and therefore significantly reducing CO_2 emissions over the long term. The Intergovernmental Panel on Climate Change (IPCC) puts Climate Change well in front of Reliability and Affordability. The HK Government aims to reduce carbon intensity by 50-60% of 2005 levels by 2020, but has not stated any plans after 2020. Although the current emissions cap can help short-term, further reductions must be imposed in the long term in order to effectively mitigate climate change

Since climate change is a global issue, it does not matter which side of the border CO_2 emissions are discharged. Therefore, in order for Option 1 to be effective, we must ensure that we are purchasing or investing mainly in clean, renewable energy sources from the Mainland.

Option 2 currently lacks long-term potential. Although natural gas is cleaner than coal, it still contributes to CO_2 emissions. Even though this option can meet the 50-60% carbon intensity reduction, it is unlikely that we can reduce emissions further into the post-2020 era, if we continue to rely mainly on fossil fuels.

FoE(HK)'s Viewpoint

Our Goals

The future fuel mix of Hong Kong is a complex issue, and neither option offered by the government is satisfactory in wholly addressing this matter. Instead, we strongly recommend developing a **long-term, sustainable energy strategy** for Hong Kong that focuses on all forms of energy, emissions reduction, and demand-side management and reduction. To be successful such a strategy requires not only changes to the fuel mix, but also reforms to policy and the business, environmental and social mindset of Hong Kong citizens.

End of Line Generation and Renewable Energy Potential

Hong Kong has sufficient potential to incorporate end of line generation as a considerable portion of the fuel mix. Renewable energy can surely contribute much more than 1% of Hong Kong's power supply, as suggested in the consultation document. Most countries of the EU have set at least 10% of their fuel mix as renewable energy around 2010, and we suggest that Hong Kong should strive for a more aggressive target.

Energy generation from biomass offers arguably the largest potential in Hong Kong. Biomass can account for up to 35% of the energy supply in developing countries[1]. Given Hong Kong's enormous waste production, food waste, construction/renovation wastes, sludge, and sewerage can all generate power if we have tapped these resources. An integrated waste treatment facility can contribute roughly 2% of our power demand on its own. More biogas from landfills can also be collected and used to generate power. Waste water can also be treated with microbes to generate energy via biogas, in addition to treating water. These options should be presented within the fuel mix consultation.

Tri-Generation (Tri-gen) offers huge efficiency savings and already has proven technology and economics. Tri-Generation is the production of electricity, heat and chilled water from a single source input. The heat energy resulting from power generation is used for heating purposes and to produce chilled water for cooling purposes through an absorption chiller, thus enhancing the energy efficiency of the system.

"Generate- on- Drop" is another opportunity to supply electricity from descending elevators and fixed cranes.

Micro-Hydro energy also has considerable potential in Hong Kong. There is a high difference in potential energy between our reservoirs and the water supply in every individual building. This potential energy is often wasted by pressure reducing valves in buildings that dissipate the energy to reduce the water pressure to a level suitable for building use. Mini water turbines can be substituted for the traditional

[1] http://www.altenergy.org/renewables/biomass.html

pressure reducing valves to capture this energy. The Olympian City already has several mini water turbines installed while the Polytechnic University and The Avenue plan to integrate water turbines into their system by late 2014. The Tuen Mun water treatment plant has 180 kW hydrogenerators that also convert excess potential energy from water treatment into electricity, yielding 1,450 MWh annually per generator. Huge amounts of excess potential energy can be harvested from the drainage, sewage, and water treatment systems, as well as from individual residential and commercial buildings.

Wind and solar energy also have vast room for expansion in Hong Kong. The cost of onshore wind energy is already competitive with coal, being one of the cheapest energy alternatives. Our 2003 study[2] on wind potential shows that 3-4 islands of Hong Kong hold potential for large wind farms, offering an average wind power of 300W/m2. Although there may be limited space for large scale wind farms, Hong Kong also has potential to expand small scale wind turbines on individual buildings. Small wind turbines and hybrid solar-wind turbines already exist in some buildings in Hong Kong, at Shek Kwu Chau, Sai Kung, and Shau Kei Wan, though there is still much room for expansion. Further, a study by Dr. Lu Lin at the Hong Kong Polytechnic University suggests that there is enough roof-space in Hong Kong to generate 5,981 GWh per year, roughly 14% of our power demand. Finally, the use of solar water heaters is both proven and economical, and could be implemented on top of buildings. The savings in heating energy plus reductions in cooling loads beneath would contribute to energy and CO_2 reduction.

Demand Reduction and Energy Conservation

Electricity generation is the largest contributor to carbon emissions in Hong Kong (67%)[3], so reducing the demand for energy will also lower CO_2 emissions that is far more cost effective than using cleaner but more expensive fuel in the proposed new fuel mix. The two fuel mix options presented in the consultation document do not address demand reduction even though this is a crucial factor and must be taken into account in our long-term sustainable energy strategy for Hong Kong. Demand reduction requires multiple steps including implementing the appropriate infrastructure and policies, as well as changing the social mindset of citizens to be more environmentally responsible.

Every building in Hong Kong should be designed or renovated to include cleaner or more efficient infrastructure. In terms of lighting, having double or tripple glazed windows with "Low Emiscivity" glass and shadings to reduce the penetration of solar radiation from natural light into indoor environment, or upgrading to fiber optic lights or LED lights can contribute to power reduction. Upgrading to more efficient ventilation systems, such as Variable speed drives on air conditioning equipment, can also contribute. Older, inefficient models should be replaced with more efficient alternatives to reduce air pollution and carbon emissions. Hydro turbines should be installed into pipe systems to capture potential energy of water running down the drain. The Zero Carbon Building has a tri-generation system which uses bio-diesel derived from waste cooking oil to power its generator, reducing the building's electricity demand by 143MWh per year.

The building envelop plays an important role in cutting down energy consumption by improving the thermal insulation of buildings, ie to keep the indoor environment cooler in summer and warmer in

[2] http://data.foe.org.hk/research/HEC-FINAL-REPORT-JULY-2003.pdf
[3] http://carbon-manager.hkpc.org/website/eng/intro.asp

winter. A large percentage of the energy used by air conditioning systems is used to overcome external heat that is transferred to indoor environment.

FoE(HK) welcomes the mandatory Building Energy Codes and is looking forward to the expedition of more stringent standards and their application. We look forward to the Government's consultation document on Green Buildings and Demand Side Management.

Conclusion

FoE(HK) urges the government NOT to choose Option 2 as presented in the consultation document, however we cannot simply choose Option 1 as the preferred option as there are lots of outstanding questions and concerns raised by the public. Our government should provide those details and their proposed plans to iron out all those uncertainties.

Option 2 as presented, even with the potential to maintain the exceptionally high reliability, has the potential drawback of keeping the status quo within the energy market by closing the doors to open market competition, which has been dominated by the two power companies for many decades.

The government consultancy study conducted in 1998 suggested that Hong Kong open up its energy market to introduce competition to benefit the environment.

Option 1 as presented, may imply liberalization of the energy market but the implication is not clear in what ways to break up the current duopoly in our energy market. FoE(HK) is concerned about the transfer of our power generation emissions from Hong Kong to our neighbouring cities which, we believe, is unethical even in small quantities. Option 1 has several drawbacks as mentioned earlier in this paper and we request that the government provides more details on their plan to remove those drawbacks. The reliability of the China Southern Power Grid is a key concern, therefore the government has to come up with a practical plan to ensure the reliability meets the expectation of Hong Kong so that choosing Option 1 will not jeopardize the reliable supply of power for our city.

Many of our suggestions, including expanding the renewable energy sector, expanding demand-side management, and promoting energy conservation, requires some fundamental changes to policy and Hong Kong's existing energy market.

FoE(HK) is looking forward to contributing to the upcoming consultations on:

- Review of the Scheme of Control.
- Green Buildings and Energy management
- Hong Kong's Climate Strategy

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Hong Kong Association of Energy Engineers

Response Paper to Future Fuel Mix for Electricity Generation Consultation Document

1. Introduction

The Environment Bureau has launched a consultation document of Future Fuel Mix for Electricity Generation in March 2014 for seeking the views and feedback on the proposed two Options from the public. It has arisen a lot of debates and views exchange on this topic amongst different industries and professionals.

In response to the consultation document, Hong Kong Association of Energy Engineers (HKAEE) co-organized with The Association of Energy Engineers (Hong Kong Chapter) (AEE-HKC) organized a Policy Forum on 10th May 2014 for gathering views from our members and other professionals. We invited officials from Environment Bureau, China Light Power and Hong Kong Electric to introduce the fuel mix proposal and render their different views on those two Options. Thereafter, we also conducted focus group discussions based on the four policy objectives described in the Consultation Document. The forum received an over-whelming attendance with more than 100 participants and we gathered valuable views from the participants.

This response paper summarizes those key views and discussion results collected from the Forum. We trust this response paper can provide valuable and insightful views to the Government for further consideration.

2. Concerns on Option 1 – Purchase from the Mainland power grid

This Option is to import electricity through purchase from the Mainland power grid, i.e. China Southern Power Grid Co. (CSG). The majority of our collected views reflected a great reservation to support Option 1. The reasons and the major concerns are deliberated in the following.

2.1 Reliability – The current reliability level cannot be compromised given Hong Kong is characterized with extensive business activities, high standard of quality of life and high density of populations. This demands a very high reliability of electricity supply to secure both our economy and even life safety as well.

In Option 1, for a considerable amount (30% of total) of imported electricity from grid purchase, there is no transparency on the historical reliability data from CSG, nor any information about anticipated risks and any proposed risk mitigation measures. The perceived risk is at least associated with cross-border transmission cables which are prone to damage under severe weather

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conditions or natural disaster such as earthquakes, flooding, etc. By taking this Option, Hong Kong is going to forfeit our own control on risk / reliability management on electricity supply. Relying on an outside party to achieve a high degree of reliability is uncertain now. We by virtue will have no bargaining power and is hardly to impose any regulatory regime on CSG especially Hong Kong is just a small business buyer to them. What Hong Kong can do is to provide a backup power plant according to the Consultation Document. It sounds relatively passive as comparing to our current situation. Hence, we do not consider the reliability level of Option 1 is comparable to Option 2.

2.2 **Environmental** – Regarding the carbon emission and air pollution, our participants have a strong consensus to look into this issue at global rather than local level. The shifting of generating electricity to China does not improve the environmental performance in global perspective. The document does not reveal clearly about the ratio of using coal to other fuel mix for generating electricity in CSG. As such, it is uncertain on how the Option 1 can achieve the air pollutant emission reduction targets by 2020 and it is not right by shifting the carbon emission across the border. Not to mention that Hong Kong has no say on controlling the type of fuel to be used by CSG in future.

The other point is that the environmental impact or loadings to the natural environment when constructing the cross-border cabling infrastructure and facilities has not been counted. Again, there is no sufficient information or data in the Consultation Document to support that the environmental performance of Option 1 is comparable to that of Option 2.

Undoubtedly technology has made shale gas price more affordable and the resource more accessible than ever. Yet, the current technology in extracting shale gas is a very environmentally damaging process, especially towards water resources, in terms of both quantity and the contamination. Gas price is claimed to have peaked by some. While we may not disagree in the foreseeable future, probably for 5-10 years, but how do we know environmental costs due to regulatory requirements or reclaiming the damaged environment will not add to the gas price. Burning gas may have fewer emissions, but we have not taken into account of the pollution factor during extractions. Can we therefore still be sure about the benefits from burning coal? If we want to tackle environmental performance as a global issue, then why shouldn't we consider also costs to damage of environments at the source of extractions?

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2.3 **Affordability** – The Consultation Document proposes that cost should not be a major consideration in assessing the two proposed fuel mix options. We cannot agree this statement without further information, assumptions and substantiation on predicting the tariff impact under these two options to the public. For Option 1, does HKSAR government has a strong bargaining power to negotiate and what will be its negotiation strategy? On the other hand, although no one could forecast the future price of natural gas, the availability of shale gas in USA and China appears on the rising trend. Furthermore, the capital cost for constructing the cross-border cabling infrastructure would be extensive and the construction period including land resumption would also be lengthy. It is believed that such cost will possibly be passed on to the consumers in terms of tariff.

Options of fuel mix is suggested to be left flexible and as business decisions for the power companies such that they can make the fuel mix decision to ensure reliability, affordability and environmental performance. Instead of fixing the fuel mix, the role of government should be to set the criteria for reliability, environment performance, and costs to public, and probably the requirement of a minimum percentage of renewables and/ or nuclear to be included etc. These will set the rules for the power companies to make the right decisions of investment, finally they require a business model that's to sustain. And they are the one to take the risks.

3. How about Option 2 – Using more natural gas for local generation?

Based on Technical Memorandum under Air Pollution Control Ordinance and Air Quality Objective, gas mix for electricity generation will be increased to 40 % by 2015; hence to increase the gas mix to 45% or more to meet 2020 target would not be a technical problem.

The merits of Option 2 can demonstrate the confidence to meet the reliability and environmental performance. The demerit point is that coal together with Renewable Energy (RE) constitutes 20% to total fuel mix. We suggest the Government to further provide the breakdown of their individual percentage figure. The Government should put more focuses or effort for expanding the solar or wind energy application in Hong Kong. Other technologies such as coal gasification, carbon capture and storage should also be included into further study.

As per the Consultation Document, we agree that it should be the long term plan to phase out coal for electricity generation. However, there is no indication on timeline for such phase out action and any proposal for what possible fuel type is recommended as the substitution to the coal. Relatively speaking, we received the overall views which show in favour to Option 2 given there are many uncertainties in Option 1.

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4. Comments for Consideration

Should coal be totally phased out? Given out current knowledge, coal seems evil, but that kept our use cost low. It worked as the component to compensate the electricity cost. Can we not extend the service life of the existing coal fired power plant such that they make reliable backups? Can new technologies not be developed such that burning coal may make a cleaner process? Or can we leave the decision to the utility companies.

5. Other Suggestions

Beyond Option 1 and 2, we strongly recommend the Government to study and implement the following:-

- De-centralized electricity / energy supply with integrating the waste management facilities, i.e. conversion waste to energy use.
- Different tariff tiers to further promote the energy conservation on the demand side.
- Maximising the energy efficiency of existing and new buildings.

Hong Kong as a free market, the Government can consider allowing flexibility for each power company to decide for choosing which option or options they prefer as they are in a better position to generate electricity in a cost effective and environmentally friendly manner from the commercial and supplier side. Purchasing electricity from CSG seems not to be a good way in terms of opening the electricity market in Hong Kong's own context. Nevertheless, Government still could go for an open market by inviting other power providers than the current ones for local power supply to ensure an environmentally friendly, cost effective and reliable electricity supply for HK in near future.

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6. Conclusion

HKAEE co-organized with AEE-HKC held the policy forum for gathering the views on Future Fuel Mix for Electricity Generation Consultation Document as launched by the Environment Bureau. Views on preferring Option 2 is more relative to Option 1, but more detail information is required for a further study and discussion. All those key views are summarized in the above paragraphs.

We consider that this Consultation Document can initiate a very good discussion to provide feedback to the Government. We would be pleased to continue to collaborate with the Government, the power companies and other stakeholders towards an optimum solution on fuel mix for future electricity generation aiming to foster a greener Hong Kong to our next generations.

Dr K L Chan
President, HKAEE
5 June 2014

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MTR Corporation Limited
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10 JUL 2014

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Environment Bureau,
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2 Tim Mei Avenue,
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Our ref: T&ES/TSES/TSU/OHL&HV/R11029

Your ref: -

10th June 2014

By Post and Fax (no. 2147 5834)

Dear Sirs / Madams,

MTR's Views on the Public Consultation on Future Fuel Mix for Electricity Generation for Hong Kong

The Government launched the Public Consultation on Future Fuel Mix for Electricity Generation on 19th March 2014. We would like to express our views as follows:

1. We welcome Government's public consultation on this topic. We support the four policy objectives that underpin Hong Kong's energy policy – safety, reliability, affordability and environmental efficiency. Our position is that any option chosen should be one that meets the four policy objectives appropriately.

2. In supporting Government's approach on improving the environment for future generations and minimising the environmental impact of electricity generation, as well as being a responsible member of the Hong Kong community, we always strive for energy efficiency across our operations.

3. We are providing the most convenient and effective low carbon public transportation means in Hong Kong. The railway electricity consumption in 2013 was 1,420 GWH which accounted for only 3% of total power generation in Hong Kong. One would appreciate the effectiveness of our system in making use of these 3% of the total energy generated to carry around 5.2 million people every weekday which accounted for 46% of the total number of public transportation journeys in Hong Kong.

4. Being one of the large power demand users, we have effectively controlled the maximum power demand and utilised this efficiently. Large demand users, such as us, have helped the two power companies on their planning of future demand and daily generation operation. This in turn has led to power companies being able to optimise the power network development to cope with the growth in a more controllable and predictable manner.

5. In respect of the future fuel mix options, we opine that the consultation document should outline a more holistic strategy on opening the electricity market in future including the introduction of more competition in generation and transmission etc., for public consultation.

by.

MTR 610B00218

6. On the two fuel mix options, we have the following specific views and concerns in the areas of power supply reliability and tariff:

Reliability

7. A reliable power supply is crucial to the provision of reliable railway services for the existing and the future expanded railway networks under the Government's Railway Development Study Plan to serve general public. The current supply reliability should be guaranteed in the future whichever option is finally adopted. Adequate redundancy should be incorporated in the design to ensure that the current high reliability performance of power supply remains or even better.

8. As such, more information on the supply arrangement of China Southern Power Grid (CSG), including how the high supply reliability target under the grid purchases option could be maintained, the risk associated with supply from CSG to the current Hong Kong electricity supply network, including a vulnerability analysis should be made available for the public's consideration.

Tariff

9. More information should be provided on:
   i. Detailed calculations that lead to the estimation of doubled tariff in year 2023;
   ii. CSG tariff structure, rate and mechanism on the approval of future changes in Option 1;
   iii. Proposed tariff structure, rate and mechanism on the approval of future changes of both options and
   iv. The cost of local transmission, distribution, customer services and other support services of both options.

10. Our railway network is directly connected to the two current Hong Kong power companies with dedicated supply sources to which we are charged competitive tariff rates for large power consumption. More information should be provided to demonstrate how this arrangement could be maintained in the future fuel mix, especially for Option 1 where interconnections are built for CSG supply.

11. Energy charge affects the railway operating cost and the sustainable operations of the railway service. We expect a mechanism be established to suppress the electricity generation cost increase and to maintain a stable charge of electricity for the railway service.

12. Due to high capital cost in building new generation and transmission infrastructure in both Options, more information should be provided to reduce the maximum demand for electricity in day time. We suggest there can be a bigger night time discount in tariff rate, buy back of electricity on renewable energy from consumers and other energy saving measures.

MTR

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Should there be any queries, please contact Mr. Ronald Cheng, General Manager- Technical & Engineering Services, at tel. 2993 3003 or the undersigned at tel. 2993 2300.

Yours faithfully,

Dr Jacob Kam
Operations Director

AL/RC/TYF

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Mr. KS Wong
Secretary for the Environment
Electricity Reviews Division
Environment Bureau
15/F East Wing, Central Government Offices
2 Tim Mei Avenue, Tamar,
Hong Kong

7 June, 2014

Re: Consultation – Future Fuel Mix for Electricity Generation

Dear Mr. Wong,

I am writing to respond to the call for consultation on Future Fuel Mix for Electricity Generation in Hong Kong. In the "Forward" of the consultation document, you are right in stating that :

- "As a well-developed economy, Hong Kong is one of the world's leading commercial, financial and logistics centres."
- "Hong Kong is also a well-known vertical city... with high density of skyscrapers served by lifts and escalators. "
- "The safe and reliable electricity we have become used to is key to our quality of life and crucial for our economic competitiveness."

It is precisely for these reasons that I believe Hong Kong should maintain its full electricity generation capacity without relying on the China South Grid (CSG). Here are my reasons:

(1) A world-class city should have its own electricity generation capacity and plan

For the same reasons that you have given in the "Forward", Hong Kong as a world-class city should be self-sufficient in electricity generation. Currently, it has two electricity companies (HKE and CLP) which not only supply electricity in Hong Kong, but also have overseas business in the electricity sectors in other regions/countries such as mainland China, Australia and the United Kingdom. Hong Kong is building up her capacity for international electricity business (which is still expanding) and is supported by a world-class university system which educate and train professionals in Electrical and Electronic Engineering including power systems.

(2) Introducing electricity from China South Grid (CSG) will NOT increase competitiveness in the long run.

At the moment, HKE and CLP supply electricity in HK. Firstly, I do not see how increasing the number of players from 2 to 3 will increase competitiveness, particularly when CSG is still a state-own organization which does not operate under full free-market principle. Introducing CSG will probably create unfair competition instead of fair competition. Secondly, CSG can of course generate electricity at a low price for HK (even without making profit or at a loss). But there is no say from HK people about the fuel mix in CSG. So there is a possibility that HK will be seen as selfishly shifting the pollution from HK to South China.

(3) There may be no say from HK people about the electricity price in the future.

When CLP proposed to substantially increase the electricity price a few years ago, HK people reacted very strongly with public criticisms and protests. Consequently, CLP (as a local company) backed down and reduced the price rise. In the future, if HKE and CLP gradually lose their competitiveness and CSG increases the electricity price, will HK people gather outside the headquarter of CSG to protest? I am afraid that there is little HK people can do if such situation occurs.

(4) Which company is more reliable?

This morning, I read the news article about the statement made by your deputy Mr. Vincent Liu Ming-Kwong about his view on the reliability of CSG. I must say that his statement is not true. Over the last decade, I have the chances of doing site tests on the lighting systems in South China and have personally observed many instability problems. Besides the blackout problem, there are many other issues such as poor mains voltage regulation, voltage dips and missing mains cycles etc. For example, the mains voltage in HK is well regulated within +/-6%. I have observed wide voltage swing in the mains voltage in South China. Personally, I do have some reservation about the official reliability data in China. Has the Environment Bureau got any independent verification of their reliability data?

HK has enjoyed a highly reliable electricity system. There is no doubt that HK still has the leading edge in terms of electricity safety and reliability over the CSG even in the coming years. Why does the HKSAR government consider moving "***backward***"? You say in the "***Forward***": "The safe and reliable electricity we have become used to is key to our quality of life and crucial for our economic competitiveness." Has the HKSAR government ***become used to*** the safe and reliable electricity that it wants to do something different? Or is it a tactic to use a 3rd competitor to bargain with HKE and CLP for the next Scheme of Control?

With such a high density of tall buildings in HK and our heavy reliance on the electric Mass Transit Railway (MTR), it would be disastrous to see malfunctions in tens of thousands of lifts and escalators and prolonged delays in MTR. Any option that may degrade the reliability of the electricity supply will cost HK dearly – well beyond the increasing costs of electricity generation based on LPG.

Option 2 in your consultation document is a relatively safe approach to secure safe and reliable electricity generation for HK. In addition, it is imperative that HK should keep the electricity business and related professionals (and employments). However, one should be more imaginative and forward-looking. The HKSAR government should consider developing new policies and incentives to encourage both mainland and local power companies to increase their wind and solar power generation. If such large-scale renewable energy resources become available, HK should increase her renewable energy in future "energy" mix (rather than using the existing concept of "fuel" mix) ***even at a higher price***.

Professor Ron Hui, Ph.D, FIEEE, FIET, FTSE (Aust. Academy of Tech. Sci & Engineering)
Philip Wong Wilson Wong Professor of Electrical Engineering
Chair Professor of Power Electronics