

**立法會**  
**Legislative Council**

LC Paper No. CB(1)895/14-15(04)

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**Panel on Environmental Affairs**

**Meeting on 2 June 2015**

**Background brief on "Provision of onshore power supply system in  
Kai Tak Cruise Terminal"  
prepared by the Legislative Council Secretariat**

**Purpose**

This paper provides background information on the provision of onshore power supply ("OPS") system at the Kai Tak Cruise Terminal ("KTCT"), and gives a brief account of the views and concerns expressed by Members on the subject.

**Background**

2. According to the Administration, after its intensive efforts to reduce the emissions from power plants and vehicles, vessels have become the largest contributor of local emissions, accounting for 50% and 37% of the sulphur dioxide ("SO<sub>2</sub>") and respirable suspended particulates emissions respectively in 2012. To reduce vessel emissions, the Administration has introduced regulatory control on the quality of marine light diesel with a view to reducing emissions from local vessels with effect from 1 April 2014<sup>1</sup>. In addition, all ocean-going vessels ("OGVs") will be required to use compliant fuel<sup>2</sup> while berthing in Hong Kong to reduce emissions and improve air quality as from

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<sup>1</sup> The Government tabled the Air Pollution Control (Marine Light Diesel) Regulation before the Legislative Council ("LegCo") on 22 January 2014 for negative vetting to impose a statutory cap of 0.05% on the sulphur content of locally supplied marine diesel. The regulation took effect on 1 April 2014.

<sup>2</sup> Compliant fuel means any of the following: (i) low sulphur marine fuel; (ii) liquefied natural gas; or (iii) other fuels approved by the air pollution control authority (i.e. the Director of Environmental Protection) on the ground that its use can achieve SO<sub>2</sub> reduction at least as effectively as using low sulphur marine fuel.

1 July 2015<sup>3</sup>.

### Onshore Power Supply

3. With the commissioning of KTCT in June 2013, the Chief Executive announced in the 2013 Policy Address that space had been reserved at KTCT for the installation of OPS<sup>4</sup> facilities so that cruise vessels with appropriate connecting devices could further reduce their emissions when berthing.

4. As advised by the Administration at the meeting of the Panel on Environmental Affairs ("the Panel") on 27 April 2015<sup>5</sup>, the Administration had commissioned a study on the feasibility of providing OPS supply at KTCT. It was finalizing the findings of the study and working out a way forward in consideration of all relevant factors.

### **Members' views and concerns**

5. Since 2013, members of the Panel and the Subcommittee on Issues Relating to Air, Noise and Light Pollution ("the Subcommittee") formed by the Panel have at various meetings urged the Administration to expedite the installation of OPS facilities at KTCT and explore the installation of OPS facilities at other terminals such as the Ocean Terminal and the container terminal in Kwai Tsing District. Similar concerns have also been expressed by members of the Panel on Development and the Panel on Economic Development when discussing issues relating to the Kai Tak Development or KTCT. The major views and concerns expressed by members are summarized in the ensuing paragraphs.

### Installation of OPS facilities at KTCT

6. In response to members' concern about the progress of installing OPS facilities at KTCT at the Panel meeting on 23 March 2015, the Administration advised that the Environmental Protection Department ("EPD") had entrusted the Electrical and Mechanical Services Department ("EMSD") to conduct a consultancy study on the technical feasibility of installing OPS facilities at KTCT having regard to the relevant international standards and technical

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<sup>3</sup> The Government tabled the Air Pollution Control (Ocean Going Vessels) (Fuel at Berth) Regulation before LegCo on 18 March 2015 for negative vetting to mandate OGVs to switch to compliant fuel while at berth in Hong Kong waters. The regulation will take effect on 1 July 2015.

<sup>4</sup> OPS is a technology through which vessels equipped with relevant onboard facilities can be connected to the shoreside local electricity grid instead of running the auxiliary engines while berthing, thereby reducing emissions around the port area.

<sup>5</sup> See paragraph 21 of LC Paper No. [CB\(1\)763/14-15\(03\)](#)

requirements. The Administration would report the findings and recommendations on the installation of OPS facilities at KTCT to the Panel shortly. The Administration also noted that a growing number of cruise liners had been adopting other new technologies instead of OPS to reduce emissions from cruises when they were berthing at cruise terminals.

#### Installation of OPS facilities at other terminals

7. On members' enquiry about the progress of installing OPS facilities at the container terminal in Kwai Tsing District to improve air quality in the vicinity areas, the Administration advised that only marine vessels that equipped with the necessary devices could use OPS while berthing, regardless of whether they were container vessels or cruises. As most of the container vessels were not equipped to use OPS, switching to low-sulphur marine fuel when at berth was more viable and effective than using OPS in reducing air pollution generated by container vessels in the vicinity of container terminal.

8. According to the information provided by the Administration at the special Finance Committee meeting on 30 March 2015<sup>6</sup>, EPD had respectively liaised with the operators of Ocean Terminal and the container terminal regarding the proposal of installation of OPS facilities in these terminals. The former was studying the feasibility of the proposal while the latter currently had no plan to install OPS facilities because space was limited at the terminal and few OGVs were equipped with OPS.

#### **Council question**

9. At the Council meeting on 12 November 2014, Hon LEUNG Yiu-chung, raised a question relating to the technical feasibility of installing OPS facilities. Issues covered in the question included whether EMSD could publish the study report by the end of 2015; and whether the Administration had set a timetable for the installation of OPS facilities at KTCT. The Council question and the Administration's reply are hyperlinked in the **Appendix**.

#### **Recent development**

10. The Administration will report at the Panel meeting on 2 June 2015 on the findings of the study on the feasibility of installing OPS facilities at KTCT and the recommended way forward.

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<sup>6</sup> See Administration's replies to Members' questions for Finance Committee special meeting on 30 March 2015 ([http://www.legco.gov.hk/yr14-15/english/fc/fc/w\\_q/enb-e.pdf](http://www.legco.gov.hk/yr14-15/english/fc/fc/w_q/enb-e.pdf))

## **Relevant Papers**

11. A list of relevant papers is set out in the **Appendix**.

Council Business Division 1  
Legislative Council Secretariat  
27 May 2015

## Onshore power supply system in Kai Tak Cruise Terminal

## List of relevant papers

Council/ Committee	Date of meeting	Paper
Subcommittee on Issues Relating to Air, Noise and Light Pollution	*27 February 2014	Report of the Subcommittee on Issues Relating to Air, Noise and Light Pollution to the Panel on Environmental Affairs (LC Paper No. <a href="#">CB(1)1003/13-14(01)</a> )
Panel on Environmental Affairs	17 July 2014	Administration's paper on "Administration's response to the Report of the Subcommittee on Issues Relating to Air, Noise and Light Pollution" (LC Paper No. <a href="#">CB(1)1785/13-14(05)</a> )
Panel on Environmental Affairs	23 March 2015	Administration's paper on "2015-16 Budget-related initiatives of Environmental Protection" (LC Paper No. <a href="#">CB(1)652/14-15(04)</a> )
Panel on Environmental Affairs	27 April 2015	Administration's paper on "Progress of air quality improvement measures" (LC Paper No. <a href="#">CB(1)763/14-15(03)</a> )

\*Issuance date

## Hyperlink to relevant Council Question:

Date	Council Question
12 November 2014	Council question raised by Hon LEUNG Yiu-chung <a href="http://www.info.gov.hk/gia/general/201411/12/P201411120401.htm">http://www.info.gov.hk/gia/general/201411/12/P201411120401.htm</a>