PROJECT CLEAN AIR

Verification Service on Clean Air Charter Certification Final Report

For

Hong Kong Air Cargo Terminals Limited (Hactl)



Prepared by



7th June 2016

1. INTRODUCTION

Founded in 1971, Hong Kong Air Cargo Terminals Limited (Hactl) has been an integral part of Hong Kong and an active contributor to our city's economic development for the past four decades. With the terminal started its operation in 1976 to meet demand for a consolidated air cargo service in Hong Kong's manufacturing economy, Hactl's SuperTerminal 1, one of the most advanced air cargo facilities in the world since 1998, is capable of handling 3.5 million tonnes of cargo per annum.

Based on the findings from the pre-audit questionnaire completed by Hactl in May 2016, it was determined that Hactl fits into Group C category of the certification scheme, showing that the organisation has comprehensive management systems and means in place to identify and verify the implementation of energy efficiency/ emission reduction programmes that are in compliance with the requirements of the Clean Air Charter (CAC).

This report outlines the findings of the Business Environment Council Limited 商界環保協會有限公司 (BEC) from a walk through audit and interview with Hactl's representative, Mr. Sam So, Senior Quality & Safety Officer. The site visit was conducted in the Hactl office located at SuperTerminal 1 of the Hong Kong International Airport by Ms. Annie Yeung and Ms. Mo Pang on 12th May 2016. The purpose of this audit was to verify Hactl's commitments to the CAC.

2. OBSERVATIONS AND COMPLIANCE

Based on the site meeting, Hactl's programmes and practices on reducing air emissions were reviewed. In general, a systematic approach on addressing the CAC's commitments has been implemented as follows:

- Its top management had committed to establish and implement its environmental management system (EMS) which has been certified with ISO 14001:2004 since March 2012. Maintaining the CAC certification is one of objectives in Environmental Plan 2016 approved by the top management.
- The Executive Director (Operation Services), who also acts as the chief coordinator, and all department heads take part in the annual management review on the EMS and OHSAS 18001 systems whenever objectives and targets are reviewed and set.
- Objectives and targets on air emissions and energy reduction are well defined and documented through its corporate Environmental Policy and Energy Policy.
- In compliance with its Environment, Health and Safety (EHS) system, its EHS
 Committee with members representing different functional units, Environmental &
 Management (E&M) Team and Quality & Safety (QS) team are responsible for
 monitoring and implementing the air emissions and energy consumptions during its
 operation regularly.
- Hactl has established and implemented the Energy Management System (EnMS) which meets the standard and all relevant requirements of ISO 50001:2011 for its operations since July 2013.
- North Office Buliding, South Office Block and 3/F and 4/F Cargo Handling (Workstations) Areas in the premises have been awarded with IAQ Certificates of Excellent Class, Good Class and Good Class, respectively since 2015.
- Environmental news and information have been disseminated to its staff members through the company's magazine "Hactlink", staff induction course and its television channel.
- Hactl has joined the Hong Kong International Airport's Carbon Reduction Programme since 2010, assisting the airport to reduce airport-wide carbon emissions by 25% per workload unit by 2015 from 2008 levels.

Regarding the 6 commitments of the CAC, the table below summarizes the achievements of Hactl:

Commitments **Actions done** 1) Operate to a Hactl has established, maintained and implemented EMS and EnMS recognized world for its cargo handling related operations and other daily operations class standard, or (with well-defined Environmental Policy and Energy Policy). the standards Hactl is committed to take part in Hong Kong Airport Authority's carbon established by the reduction programme for reducing airport-wide carbon emissions by Hong Kong / 25% by 2015 from 2008 levels. Guangdong governments on emissions of air pollutants. (Relevant to industrial operations, power plants and business with direct emissions). 2) Use continuous The commitment is aimed at industrial operation or power plants, emissions monitors hence not applicable to Hactl. (CEMs) at Hactl has reviewed its overall emissions in compliance with ISO 14001 significant sources, and ISO 50001 requirements to monitor and evaluate its environmental e.g. large and and energy performance, respectively. medium plants. Hactl conducts Energy Review Report annually to analyze its energy (Relevant to large / use and consumption annually. medium industrial operations and 香港空運貨站有限公司 香港空運貨站有限公司 power plants) Hong Kong Air Cargo Terminals Ltd. Hong Kong Air Cargo Terminals Ltd. 香港國際機場超級一號貨站辦公大權北座六樓 Block, SuperTerminal 1, Hong Kong International Airpor Photos of ISO 14001 and ISO 50001 certificates of Hactl Hactl has continuously monitored its indoor air quality (IAQ) and

Commitments **Actions done** obtained Excellent Class of Indoor Air Quality Certificate for its North office building and Good Class for 3/F and 4/F cargo handling areas and South office block since 2015. Indoor Air Quality Certificate (Excellent Class) 室內空氣質素檢定證書《卓越級》 18 Dec 2015 10 17 Dec 2016 indoor air quality of the following location(s) has fully co of the Indoor Air Quality Objectives. n空製育素完全符合「卓起版」室內空製質素指標。 ng SuperTerminal 1 稱 超級一號貨運站 SuperTerminal 1, Hong Kong International Airport 香港國際機場超級一號貨運站 on(s) 東京 North Office Building 辦公大樓北座 12 Nov 2015 Indoor Air Quality In 室內空氣質素資訊中 Photo of IAQ certificate 3) Publish information Hactl has publicised its environmental measures to staff members, on energy and fuel tenants, corporate partners and the public through its magazine use, as well as total "Hactlink" twice a year. emissions of air pollutants annually and timely, if emissions are significant. Contributing to the World's Greenest Airport Photo of Hactlink

Commitments Actions done 4) Adopt energy-Super Terminal 1 (ST1) of Hactl reduced 12% of carbon emission in 2013 efficient measures when compared with its baseline in 2011. in their operations. Kong Air Cargo Terminals Limited - SuperTerminal 1 香港空運貨站有限公司 - 超級一號貨站 has achieved the requireme 經到下列要求 rbon Reduction 12% Certificate 減碳 12%證書 Photo of Carbon Redution 12 % Certificate of Hactl Hactl has implemented a number of energy saving measures during its operations to reduce emissions, including: Hactl has performed chiller plant monitoring and optimization work that saved 145,833 kWh and 194,300 kWh of electricity in 2014 and 2015 respectively. Hactl has replaced traditional light bulbs with energy-saving alternatives, such as LED lights, at office area and exit signs of the warehouse to reduce 182,340 kWh of electricity consumption. Photo of LED lights at office area

Commitments **Actions done** 6-watt LED bollard at roof garden of Hactl Hactl has retrofitted lighting in warehouse, North office block and outdoor area to reduce 1,088,000 kWh of energy. De-lamping of unnecessary lighting devices in the warehouse, office and outdoor area was adopted by Hactl in 2015, saving 194, 300 kWh of energy. Another 52,800 kWh of energy were reduced by shutting down passenger lifts with low utilization rate in the warehouse of Hactl's main building; Hactl has increased the number of electric forklifts to replace those driven by liquefied petroleum gas (LPG) such that the electric forklifts reached 62% of the entire fleet of forklifts as of May 2016.

Photo of electric forklift

Commitments	Actions done
	Hactl has increased the number of electric vehicles from 3 units to 5 units since 2013. Photo of electric vehicles at the entrance of Hactl
5) Identify and encourage business-relevant measures to be taken on days when air pollution is high.	Hactl has reminded vulnerable staff members to reduce outdoor activities during high Air Quality Health Index (AQHI) days as far as possible.
6) Share air quality expertise in business with others.	Hactl has shared its environmental commitments with its staff members through regular internal events (particularly the "Green Lunch"), and press releases online.

Actions done

Commitments

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Photo of Green Lunch

 Hactl has shared its experience in environmental protection particularly on carbon reduction with its business partners in its industry during the sharing seminar in the Central Government Complex and site visit of the Hong Kong Awards for Environmental Excellence (HKAEE) 2016.



Photo of Hactl's sharing at the seminar of HKAEE 2016

3. CONCLUSION

Hong Kong Air Cargo Terminals Limited has demonstrated their commitments towards the CAC's commitments, and is recommended to be certified under the CAC.