

PROJECT CLEAN AIR CHARTER PHASE II

Pilot Certification Scheme for Clean Air Charter

Final Report

For

Neonlite Electronic & Lighting (HK) Ltd



Prepared by



May 2008

1. INTRODUCTION

Neonlite Electronic & Lighting Hong Kong Ltd. (NEL) has one office in Hong Kong, 3 factories in China and a number of concept stores overseas. The Hong Kong office is located at 29/F Tower 6, The Gateway, Tsimshatsui, Kowloon. There are around 100 staffs in Hong Kong and around 8000 staffs in the China factories and overseas offices. NEL has achieved ISO9001, ISO14001, OHSAS18000 and SA8000 certifications. The main business of NEL is to produce light fittings. Products of NEL achieved energy efficiency labels in Hong Kong, UK and Singapore.

This report outlines the findings of the Business Environment Council (BEC) from a walk through audit and interview with a representative from NEL, Ms. Blanca Ho and Ms. Joyce Ip.

NEL has elected to voluntarily participate in the certification scheme as part of a pilot program under phase II of the Project Clean Air organised by the Hong Kong General Chamber of Commerce, the Business Environment Council and the Business Coalition on the Environment.

From initial pre-audit telephone conversations with Ms. Joyce Ip of NEL it was determined that the company fits into Group C where work done on each Clean Air Charter commitment has been conducted.

The audit visit was led by Mr. Benny Au and Mr. C.F. Leung on 20th July 2007. The purpose of this audit was to report NEL's implementation of the Clean Air Charter observed during the meeting and the subsequence material submitted for demonstration purpose.


2. OBSERVATIONS AND COMPLIANCE



Based on the site meeting, company programmes and practices on reducing air emission were reviewed. In general, a systematic structure on addressing the Clean Air Charter has been implemented with the followings:


- Company policy has been established with the following objectives:
 - Implement pollution-free processes in product design and manufacturing
 - Use renewable or recyclable materials to minimize use of resources and energy
 - Comply with environmental legislations and industry codes of practices
 - Promote sense of environmental protection among staff and business partners
- Environmental management system has been implemented with four dedicated groups to develop and implement environmental programs and their concerns are energy, paper and stationery, design and waste management.
- Awareness of reducing green house gas emission with objectives and programmes planned.

Regarding the six commitments of the Clean Air Charter, the table below summarizing the HNHK achievements:

Commitment	Action done
Operate to a recognized world class standard, or the standards established by the Hong Kong / Guangdong governments on emissions of air pollutants, even if it is not a requirement to do so here. (Relevant to industrial operations, power plants and business with direct emissions)	<ul style="list-style-type: none"> • NEL has achieved ISO9001, ISO14001, OHSAS18000 and SA8000 certifications. • Products are not just complying with EU directive on WEEE and RoHS but also achieving a higher standard. For example, NEL is using lead-free glass and lower mercury contained light bulb.
Use continuous emissions monitors (CEMs) at significant sources, e.g. large and medium plants. (Relevant to large / medium industrial operations and power plants)	<ul style="list-style-type: none"> • Air pollution control measures include the exhaustion of lead mists (from soldering), and VOC (inserting process), Hg gas (lighting tube manufacturing) is ventilated and treated by activated carbon system. Air quality is monitored at a regular basis. • Indoor air quality is also closely monitored to ensure a healthy and safe working environment in the factories.

Commitment	Action done												
<p>Publish information on energy and fuel use, as well as total emissions of air pollutants annually and timely, if emissions are significant.</p>	<p>The company environmental policy and objectives are published in their company website with achievement on energy saving, CO₂ emission reduction.</p> <ul style="list-style-type: none"> • Energy consumption per lamp in 2006 is reduced by 11.1% when compared with the 2004 level. • CO₂ emission in 2006 is reduced by 9.4%, i.e. 2632 tons when compared with the 2004 level <p>In addition, NEL indicated that the overall fuel savings are:</p> <table border="1" data-bbox="808 564 1547 703"> <thead> <tr> <th>Year</th> <th>2005</th> <th>2006</th> </tr> </thead> <tbody> <tr> <td>Electricity saved (kWh)</td> <td>391,886</td> <td>3,554,322</td> </tr> <tr> <td>LPG saved (kg)</td> <td>67,133</td> <td>350,247</td> </tr> <tr> <td>Reduction in CO₂ (kg)</td> <td>465,858</td> <td>3,928,174</td> </tr> </tbody> </table>	Year	2005	2006	Electricity saved (kWh)	391,886	3,554,322	LPG saved (kg)	67,133	350,247	Reduction in CO ₂ (kg)	465,858	3,928,174
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<p>Undertake to adopt energy-efficient measures in their operations.</p>	<ul style="list-style-type: none"> • Cleaner flue is applied during manufacturing process including the use of Infrared radiation burner to replace heat conductive burner (save up to 60% electricity consumption) and thermal radiation burner. In addition, LPG heaters are installed to replace the electric thermal burners. <div data-bbox="804 919 1272 1187">  </div> <p>Natural ventilation system is installed in the factory to reduce unnecessary energy consumption on mechanical ventilation.</p>												

Commitment	Action done
	<div data-bbox="790 284 1328 643">  <p>MEGAMAN® <i>Always the Better Choice!</i></p> </div> <div data-bbox="790 643 1328 1003">  <p>Air Filtering Systems Neonlite Electronic & Lighting (HK) Ltd</p> <p>2004 6 2</p> </div> <div data-bbox="1328 284 2045 643"> <p>Use lead-free soldering process to eliminate gas emission. Mechanical snap-in method and water-based adhesive are applied during the manufacturing process.</p> </div> <div data-bbox="1328 643 2045 1003"> <p>A number of air pollution control measures have been implemented, such as installing active carbon system to treat the Hg gas. Moreover, hydro-venting system is used to treat kitchen fumes.</p> </div>

Commitment	Action done
	 <p>Notice Board: Utilities Monitoring Neonlite Electronic & Lighting (HK) Ltd</p> <p>Notice boards are available in the factories displaying the news and resources consumption including energy to help spreading out the “sustainable” concepts within company.</p> <ul style="list-style-type: none"> Based on the ISO 14001, environmental audits are conducted twice a year with recommendations on air emission and energy efficiency aspects.
<p>Identify and encourage business-relevant measures to be taken on days when air pollution is high.</p>	<p>NEL will consider reduction on vehicle exhaust and will incorporate any future government initiatives on reduction of air emission by vehicle.</p>
<p>Share air quality expertise in business with others.</p>	<ul style="list-style-type: none"> Newsletter “MEGANEWS” is provided to internal staffs as well as their customers, dealers in Hong Kong and overseas with topics on energy saving, air pollution reduction, etc. NEL actively participated in various award competitions on sustainability with awards including “Hong Kong Award for Industry 2006” and “Eco-Business Award 2007”. RTHK produced a local television programme with NEL on their sustainability ideas and implementations.



3. CONCLUSION

As a consequence of Neolite Electronic & Lighting HK Ltd.'s current drives and commitment towards reduction on air emission and energy effectiveness, high standards of management and practices have already been integrated into the daily operation and manufacturing propose. These are sufficient to comply with the Clean Air Charter requirement which means that the overall environmental performance is moving towards a sustainable direction. Congratulation!