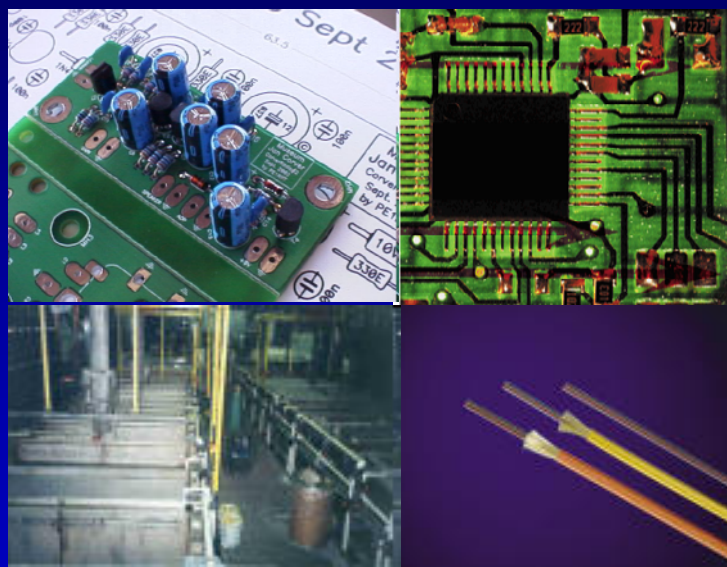


為電機及電子業中小企而建立環境管理資訊 及ISO 14001環境管理體系的支援

Environmental Information and ISO 14001 Support for HK SMEs in the Electrical & Electronic Sector



2005年1月19日

19th January 2005

商界環保協會

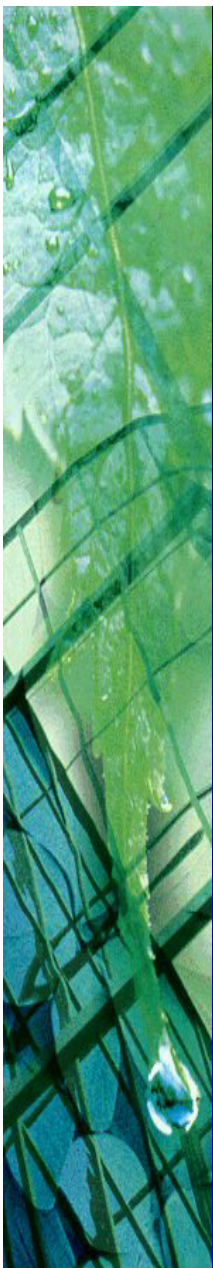
Business Environment Council



目的 Aim of the Presentation

介紹
為電機及電子業中小企而建立環境管理資訊
及**ISO 14001**環境管理體系的支援套件

To introduce the
Environmental Information and ISO14001 Support Package
for Electrical & Electronic Sector SMEs



為何需要支援套件？

Why is the support package necessary?

綠色供應鏈 Typical Green Supply Chain

綠色消費
green
consumerism

上級供應鏈
Upper Chain

環保產品
Green Product

環保、綠色設計及
生產要求

Requirements on
environmentally-
friendly & green
design and
processes

主要運作及程序

Operation & Process

環保、綠色設計及
生產要求

Requirements on
environmentally-
friendly & green
design and
processes

環保產品
Green Product

對下供應鏈
Lower Chain

更多例子... Some Examples ...

飛利浦要求供應商對可持續發展作出聲明 – 期望供應商最少要符合環境、健康及安全的要求...考慮供應商的承諾的落實亦是選擇或繼續成為合作伙伴的重要因素

Philips' Supplier Declaration on Sustainability – which outlines minimum expectations of behavior in the areas of EHS We consider a **supplier's commitment** to adhere to this Declaration an important factor in our decision to enter into or remain in a **business relationship**

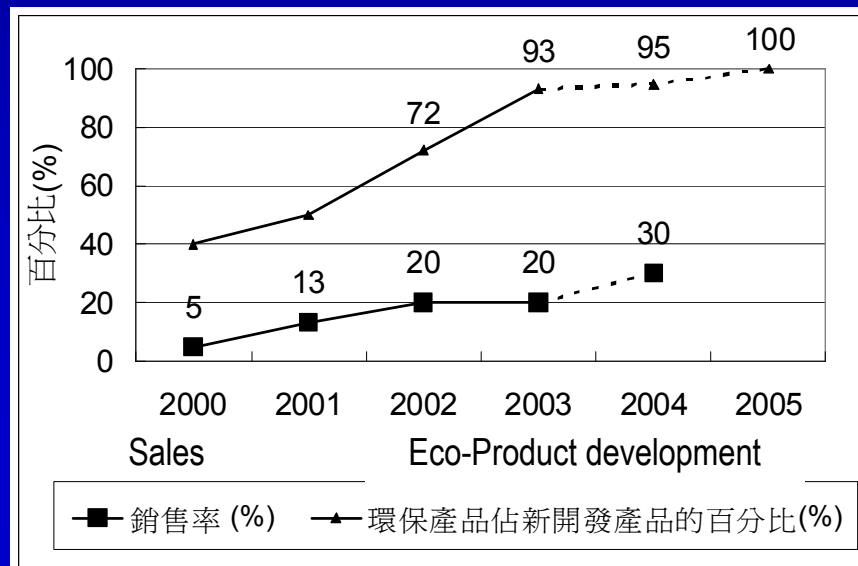
「供應商應取得ISO 14001的認證或計劃認證」

“Supplier shall have ISO14001 certification or a plan to become certified”

NEC 的綠色產品銷售率及開發計畫
(資料來源：NEC 02/03 年度環保報告)

Sale figures and development plan of green products

(source: NEC environmental report 02/03)





LG Electronics
LG電子



Matsushita Electric Group (Panasonic)
松下電器集團



Sony Corporation
新力公司



Samsung Electronics



And More

invent

HP
惠普

General Motors

通用汽車

CONNECTING PEOPLE

Nokia
諾基亞



Whirlpool



Toshiba Corporation
東芝株式會社



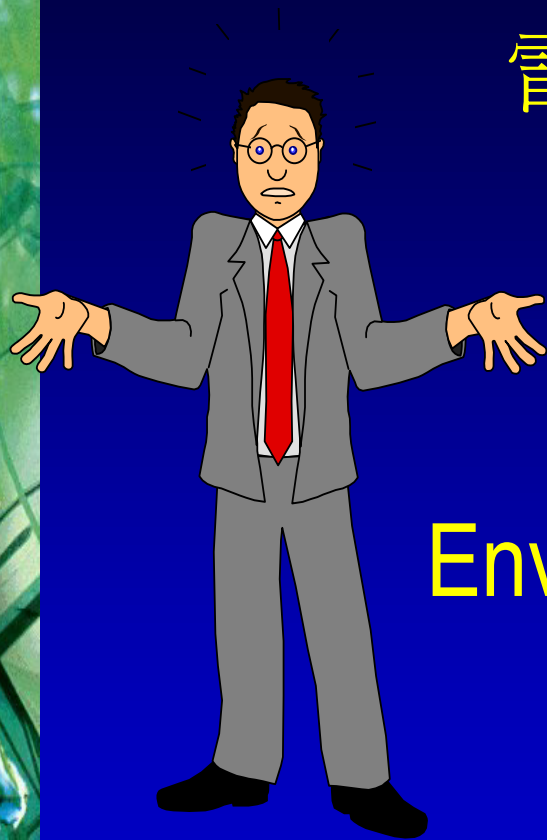
Intel Corporation
英特爾公司



NEC

惠而普

電機及電子業中小企面對 全球環保供應鏈壓力



Global Supply Chain
Environmental Pressures (SCEPs)
for E&E SMEs



環保供應鏈的種類 Types of SCEPs

- 符合**法例**要求
- 環境管理體系及**ISO 14001**認證的要求
- **清潔生產**要求
- 環保產品設計和「**環保設計**」要求
- 其他客戶特定的環保要求
- 其他相關要求
- Compliance to legal requirements and other requirements
- EMS and ISO 14001 certification requirements
- Cleaner production requirements
- Eco-Design or “Design for Environment” requirements
- Other environmental and related requirements
- Other related requirements



符合法例及其他要求

Compliance to Legal Requirements & Other Requirements

- 地區性的法例與規例
 - 有害物質使用限制指引 – 禁止在歐盟國家出售含有(或製造過程中利用)某些禁用物質的電器及電子設備
 - 電器及電子設備廢料處理指引 – 限制電器及電子設備的廢物，要求製造商負責電器及電子設備的回收及循環再造已使用的產品
- Regional based Legislations & Regulations
 - Restriction of Hazardous Substances (RoHS) - ban the sale in the EU of certain categories of E&E equipment containing (or manufactured using) certain banned substances
 - Waste Electrical and Electronic Equipment (WEEE) - restrict the types of hazardous in E&E equipment as well as to require manufacturers to be responsible for the collection, recovery and recycling of used products



環境管理體系及ISO 14001的認證要求

EMS & ISO 14001 Certification Requirements

- 承諾保護環境、符合法例及良好的環境表現
 - 長期合作伙伴的「必須」要求
 - 在指定期間取得ISO 14001認證
 - 要求二線供應商取得 ISO 14001認證
- demonstrate of commitment to environmental protection, fulfillment of legislations and good environmental performance
 - A “MUST” requirements for long-term partners
 - ISO 14001 certification acquisition within a scheduled timeframe
 - Require second tier contractor to acquire ISO 14001



Cleaner Production & Eco-Design Requirements

清潔生產及環保設計要求

- 清潔生產

(生產過程中)：節約原料、水及能源；消除有毒及危險的物料；及有毒氣體的排放及廢物的產生

- 環保設計

- 考慮產品的生命週期
- 可循環再用性、可循環再造性、耐用性或容易處理
- 控制或禁止使用有害化學物質，及能源效益

- Cleaner Production

(During Production) conserving raw materials, water and energy; eliminating toxic and dangerous materials; and reducing toxic gases emission, waste generation

- Eco-design

- Concern life cycle of a product
- the reusability, recycleability, durability and ease of disposal
- the control or non-use hazardous chemical substances & energy efficiency

Other requirements

其他要求

- 其他環保要求

呈交環保表現數據 / 自行或交由第三方進行環境審核 / 完成環保表現問卷調查 / 環境報告

- 其他要求

達至可持續發展的規定 / 符合客戶的準則 (職業健康及安全的考慮) / 進行安全視察

- Other Environmental Requirements

submit environmental performance data/ carry out environmental audit by themselves or third party for verification / answer environmental performance review questionnaire / Environmental Reporting

- Other Requirements

achieve sustainability compliance/ follow the customers' code of conduct (HSE considerations) / Conducts safety inspections



怎樣應付這些要求？

How to cope with these requirements?





環境管理體系支援套件 The Support Package

- 供應鏈壓力：全球及本地法例、法規要求；客戶要求(大型生產商)；綠色消費
- 環保提意及服務的渠道：資訊及指引、環境管理體系培訓課程、良好的環保作業指引，以及污染控制技術
- ISO 14001 環境管理體系支援套件 - 已制定的環境管理體系的文件範本、使用手冊及實例文件
- *Supply chain pressures*: Global & local legislative requirements; client requirements (key manufacturers); green consumerism
- *Sources of advice & support*: information and guidelines, EMS and environmental training, mentoring programmes, pollution controls
- *The ISO 14001 EMS Support Pack*: ready-made EMS templates, user manual and practical examples



環境管理體系文件範本及使用手冊 EMS Templates & User Manual

為建立環境管理體系的基礎


- 環境管理體系手冊 - 環境管理體系的「藍圖」
- 環境管理程序 - 如何執行環境管理體系
- 環境指引 - 描述個別活動
- 環境記錄 - 運作的証據

A basis for your EMS

- EMS Manual – the “road-map” of the EMS
- Environmental Procedures – how the EMS works
- Environmental Instructions – details on the specifics
- Environmental Records – proof of proper functioning

策劃
PLAN
執行
DO
審核
CHECK
改進
ACT

Simply insert your information – but make it accurate!
須適當地加插貴公司的資料！



電機及電子業中小企的實例

Practical EMS Examples fro E&E Sector

電機及電子業中小企的實例 – real issues faced by E&E SMEs

Electronic Components	電子零件製造業
Office, Accounting & Computing Machinery	辦公室、會計及計算器材製造業
Electroplating	水劑電鍍
Electrical Appliances & Housing & Electronic Toys	家庭電器用具及電子玩具製造業

SMEs with activities in HK & Shenzhen

在港或深圳中小企業務

電機及電子業 ISO 14001 環境管理體系實例文件

行業 Trade	文件例子 Document Examples
手錶殼及腰帶產品之電鍍工序 Electroplating for watch cases and belts	個案一 — 香港綠色電鍍公司 Case 1 – HK Green Electroplating Co.
電腦系統、通訊設備、及工業操縱裝置 線路版 PCB for computers, telecom equipment, automotive & industrial control	個案二 — 香港綠色線路板公司 Case 2 – HK Green Printed Circuit Board Co.
製造電子計算機 Manufacture of electronic calculators	個案三 — 香港綠色電子裝配公司 Case 3 – HK Green Electronics Assembly Co.
製造電鬚刨及真空吸塵器 Manufacturing of electrical shaver & vacuum cleaner	個案四 — 香港環保家電公司 Case 4 – HK Environmental Electrical Appliance Co.
螺絲及金屬零件之電鍍工序 Electroplating for screws and metal parts	個案五 — 深圳環保電鍍公司 Case 5 – Shenzhen Environmental Electroplating Co.
製造手提電話電路板 Manufacture of PCB for mobile phones	個案六 — 深圳環保電路板公司 Case 6 – Shenzhen Environmental PCB Co.
製造影印機 Manufacturing of photocopying machines	個案七 — 深圳環保裝配公司 Case 7 – Shenzhen Environmental Assembly Co.
製造家庭電器 Manufacturing of home appliances	個案八 — 深圳環保家電公司 Case 8 – Shenzhen Env'l Electrical Appliance Co.



總結

Presentation Summary

- 供應鏈壓力：全球及本地法例、法規要求；客戶要求(大型生產商)；綠色消費要求

Supply chain pressures: Global & local legislative requirements; client requirements (key manufacturers); green consumerism

- ISO 14001環境管理支援套件：最新的供應鏈壓力、已制定的環境管理體系的文件範本、使用手冊及實例文件、環保提意及服務的渠道：

The ISO14001 EMS Support Pack: updates on supply chain pressures, ready-made EMS templates, step-by-step user manual, real-life practical examples, sources of advice and support

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