



Supply Chain Environmental Requirements of Subcontractors

供應鏈中對分判商的環保要求

Presented by Iain Wink

2 December 2004

Topics 題目

- Background 背景
- Environmental expectations 環保期望
- Best practice guidance 良好作業指引
- Conclusions 結論



Background 背景

1. Hong Kong Construction Association

香港建造商會

- 325 members 325 成員
- voice of the industry 業界聲音

2. HKCA Environmental Committee in partnership with the EPD 建造商會環保分會與環保署之伙伴合作



HKCA/EPD - Green Construction Information Corner - Microsoft Internet Explorer


File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS

Address http://www.hkca.com.hk/epd/epd_faq_intro.htm Go Links >>

 香港建造商會 HONG KONG CONSTRUCTION ASSOCIATION

Members Site | About HKCA | News Bulletin | Email Us

 環境保護署
Environmental Protection Department
The Government of the Hong Kong
Special Administrative Region

GREEN CONSTRUCTION INFORMATION CORNER

Introduction

- Introduction
- Environmental Legislation
- Frequently Asked Questions
- Licences & Permits
- Training Material
- Construction & Demolition Waste
- Practical Tips
- Good Examples for Environmental Compliance in Hong Kong

Welcoming Message

Partnership brings out Greener Construction! This is the very reason for the development of this Green Construction Information Corner as a vehicle to reach the goal. Welcome aboard!



The Green Construction Information Corner

The mutual objective and interests of the Environmental

Announcement

Start | Internet | Microsoft PowerPoint - [H...] | HKCA/EPD - Green Con... | 12:23

Background 背景

1. Hong Kong Construction Association

香港建造商會

- 325 members 325 成員
- voice of the industry 業界聲音

2. HKCA Environmental Committee in partnership

with the EPD 建造商會環保分會與環保署之伙伴合作

3. Values and Codes of Ethical behaviour 價值與行為守則

- Relationships with consultants, subcontractors and suppliers 與顧問公司，分判商，供應商的關係
- Laws and Regulations 法例與法規
- Community and Environment 社區及環境




HKCA - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS

Address http://www.hkca.com.hk/new/pg_ethics.htm Go Links >>



香港建造商會
THE HONG KONG CONSTRUCTION ASSOCIATION
A member of International Federation of Asian and Western Pacific Contractors' Associations (IFAWPCA)

CODE OF ETHICS

THE HONG KONG CONSTRUCTION ASSOCIATION LIMITED
CODE OF ETHICS

Each member of HKCA owes a duty to the community, its business partners, employees and to its fellow members. The HKCA Council requires all members to act professionally and to subscribe to this code of ethical behaviour in order to collectively promote integrity within the construction industry. All members shall use their best endeavour to observe and practise this code as follows:-

- Laws and Regulations**
Members should comply with all the statutory rules and regulations, and be law-abiding. They should also promote improvements to such laws, regulations and other provisions.
- Honesty and Fairness**
Members should conduct all their business dealings with honesty and fairness. They should not solicit advantage from or offer advantage to any person to affect the execution of their duties or exert undue influence upon any person for the purpose of ensuring business.

Home

About HKCA

News Bulletin

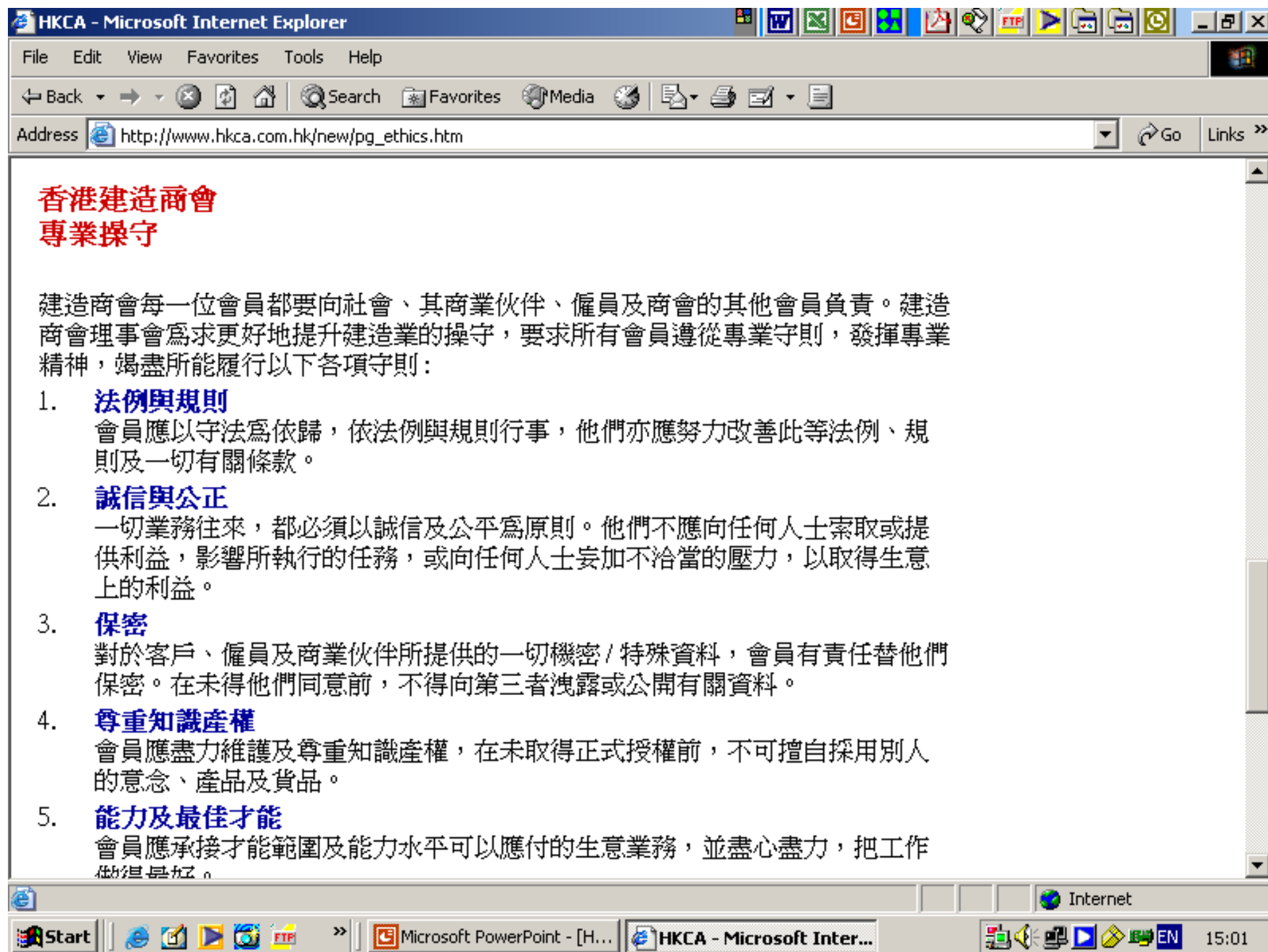
Members Site

Contact Us

Hotline: 2572 4452

Done Internet

Start Microsoft PowerPoint - [H... HKCA - Microsoft Inter... 12:31



香港建造商會 專業操守

建造商會每一位會員都要向社會、其商業伙伴、僱員及商會的其他會員負責。建造商會理事會為求更好地提升建造業的操守，要求所有會員遵從專業守則，發揮專業精神，竭盡所能履行以下各項守則：

1. 法例與規則

會員應以守法為依歸，依法例與規則行事，他們亦應努力改善此等法例、規則及一切有關條款。

2. 誠信與公正

一切業務往來，都必須以誠信及公平為原則。他們不應向任何人士索取或提供利益，影響所執行的任務，或向任何人士妄加不恰當的壓力，以取得生意上的利益。

3. 保密

對於客戶、僱員及商業伙伴所提供的一切機密 / 特殊資料，會員有責任替他們保密。在未得他們同意前，不得向第三者洩露或公開有關資料。

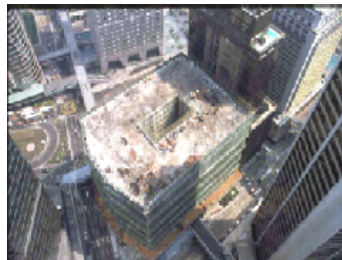
4. 尊重知識產權

會員應盡力維護及尊重知識產權，在未取得正式授權前，不可擅自採用別人的意念、產品及貨品。

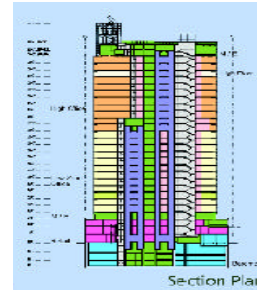
5. 能力及最佳才能

會員應承接才能範圍及能力水平可以應付的生意業務，並盡心盡力，把工作做得最好。

Demolition /
redevelopment
拆除 / 重新开发



Concept and
planning
方案及规划



Design
设计



Construction
施工



Operation
运营



**Environment inputs in
supply chain cycle**
在供應鏈循環中的環保輸入



Environmental expectations in the supply chain 在供應鏈中的環保期望

- **Scale of involvement** 投入程度
- **Cumulative impacts** 累積的影響
- **Shared values** 共同價值
- **Regulatory Compliance** 遵守法規



Minimum Environmental Controls expected

預期對環境最低的影響



Dust 粉塵



Fumes 廢氣



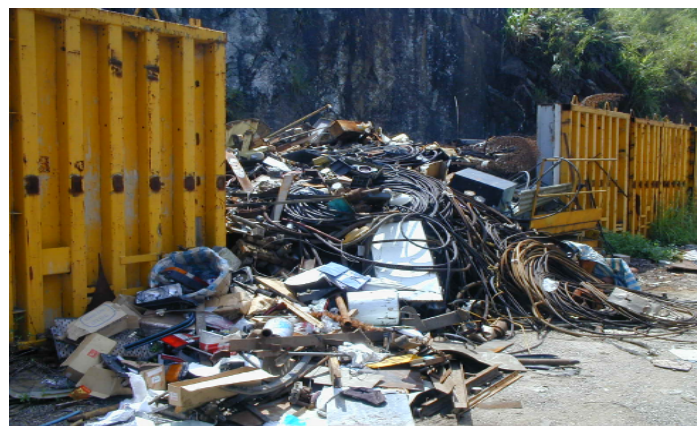
Chemicals 化學品泄漏



Noise 噪音

Minimum Environmental Controls expected

預期對環境最低的影響



Solid Wastes 固體廢物



Pests 虫鼠



Wastewater 廢水



環境保護署 - 新消息 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS Feeds

Address http://www.epd.gov.hk/epd/tc_chi/news_events/current_issue/constructiontrade.html Go Links

香港特別行政區政府
環境保護署

香港

政府資訊中心 繁體純文字 简体版 ENGLISH

搜尋 網頁指南

主頁 香港的環境 空氣 噪音 廢物 水質 環評與規劃

消息與活動 主目錄

- 新消息
- 立法會提問及回應
- 致編輯的信
- 活動
- 新聞稿
- 公告
- 憲報公告
- 招標
- 職位空缺
- 其他公告

搜尋此部份

消息與活動：新消息

與建造業積極合作

環保署與建造業攜手，共同推動環保。環保署與香港建造商會、建造業訓練局及職業訓練局香港專業教育學院合作，擬備下列培訓教材，以協助增強建造業的環保意識及促進機構為業內人士提供培訓及在工作間分享和採用良好環保操作。



Done Internet

Start Microsoft PowerPoint - [H...] 環境保護署 - 新消息 - ... 15:03

Environmental expectations in the supply chain 在供應鏈中的環保期望

- Scale of involvement 投入程度
- Cumulative impact 累積的影響
- Shared values 共同價值
- Regulatory Compliance 遵守法規
- **Contractual compliance** 合約要求
 - Pollution control solutions 污染控制方案



Provision of Pollution Control Facilities

提供控制污染設備



Wastewater Treatment
System 污水處理設備



Wheel Washing Facility
自動洗車設備



Provision of Chemical Spillage Control Facilities 提供控制化學品泄漏設備



Oil Spillage Kit
油污處理設備



Chemical Waste Store
化學廢物倉



Environmental expectations in the supply chain 在供應鏈中的環保期望

- Scale of involvement 投入程度
- Cumulative impact 累積的影響
- Shared values 共同價值
- Regulatory Compliance 遵守法規
- Contractual compliance 合約要求
 - Pollution control solutions 污染控制方案
- **Other requirements 其他要求**
 - Policies and systems 政策與系統



Provision of Environmentally Friendly Plant 提供環保機械設備



Quiet Breaker with Water Spray

設置灑水系統的靜音型破碎機



Provision of Welfare / Hygiene Facilities and Services 提供環境衛生設備及服務



Waste Bins 垃圾回收箱



Chemical Toilets 化學廁所



Precast Building Materials 預制建築物料



Precast Façade 預制件



Precast Bay Window 預制窗



Precast Bridge Segment 預制橋身



Noise Mitigation (Operational) 室外噪音消減



Noise Barrier 隔音屏障
& Enclosure 隔音罩



Noise Barrier
隔音屏障



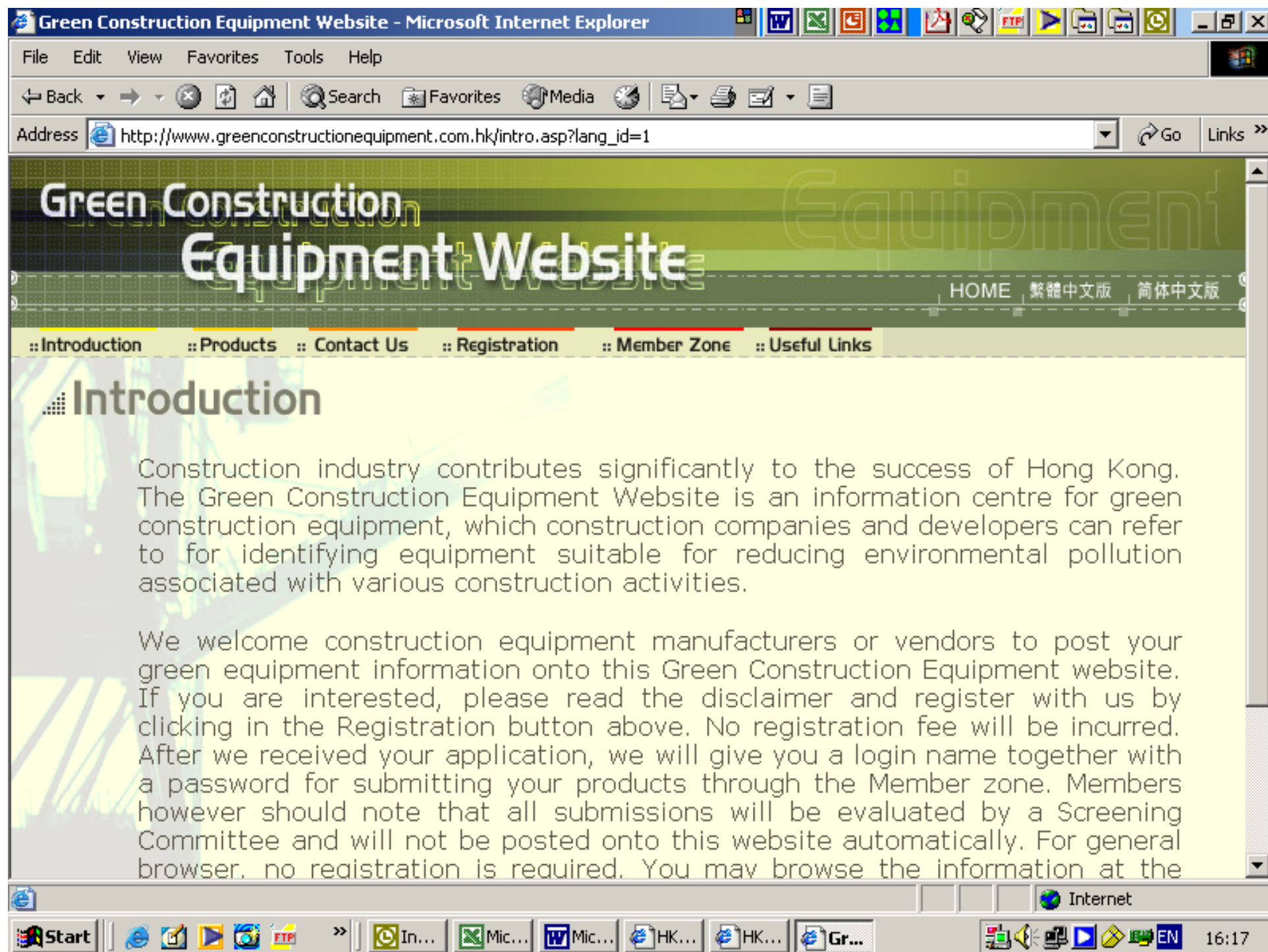
Reusable Formwork 可再用模板



Reusable Steel
Column Mould
可再用鋼模



Reusable Self-climbing
Hydraulic Formwork
安全攀緣屏



Green Construction Equipment Website

HOME 繁體中文版 简体中文版

:: Introduction :: Products :: Contact Us :: Registration :: Member Zone :: Useful Links

Introduction

Construction industry contributes significantly to the success of Hong Kong. The Green Construction Equipment Website is an information centre for green construction equipment, which construction companies and developers can refer to for identifying equipment suitable for reducing environmental pollution associated with various construction activities.

We welcome construction equipment manufacturers or vendors to post your green equipment information onto this Green Construction Equipment website. If you are interested, please read the disclaimer and register with us by clicking in the Registration button above. No registration fee will be incurred. After we received your application, we will give you a login name together with a password for submitting your products through the Member zone. Members however should note that all submissions will be evaluated by a Screening Committee and will not be posted onto this website automatically. For general browser, no registration is required. You may browse the information at the

Environmental expectations in the supply chain 在供應鏈中的環保期望

- Scale of involvement 投入程度
- Cumulative impact 累積的影響
- Shared values 共同價值
- Regulatory Compliance 遵守法規
- Contractual compliance 合約要求
 - Pollution control solutions 污染控制方案
- Other requirements 其他要求
 - Policies and systems 政策與系統
- **Main Contractor position**



總承建商角式



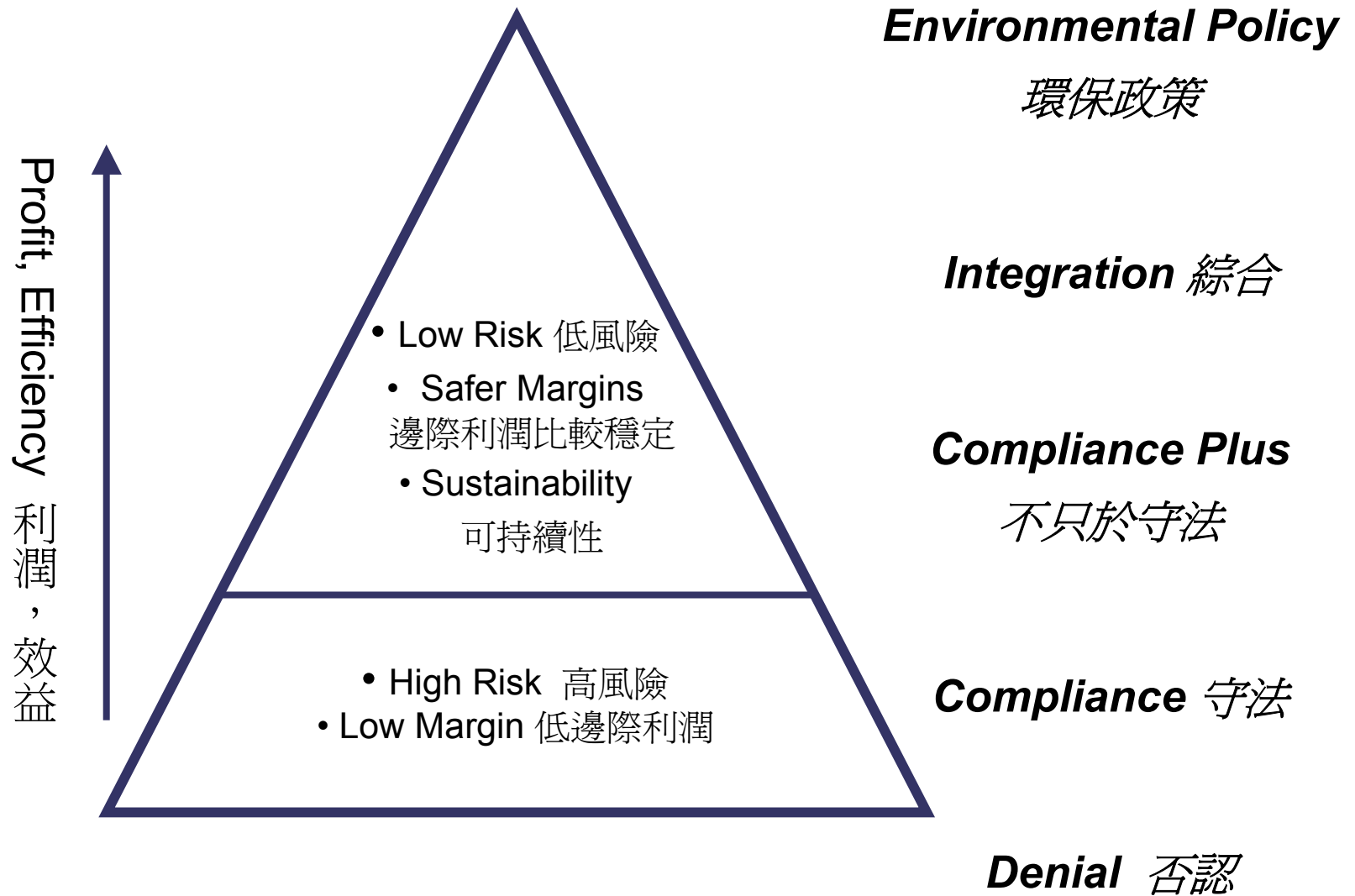
Main Contractors position

總承建商角式

- Duties and obligations 職責和責任
- Design 設計
- Planning and methods 計劃與工作方法
- Selection of suppliers and subcontractors 選擇供應商與分判商
- Overall environmental management system 整體環境管理系統
- Control and enforcement 控制和執行
- Leadership and example 領導和以身作則



Balancing risk 平衡風險



Contaminated Land Risk Example

例子：受污染土地

- Legacy of industrial uses, processes and waste disposal 工業產品加工過程中產生的遺棄物和廢棄物
- Global problem of contaminated land and waters 土地及水污染是全球性問題
- Pressure for land for development 土地开发的压力
- Environmental standards & public expectations 环境标准及公眾期望



Risks : 危機

- Pollution to surrounding environment 周圍環境的污染
- Health risks to land occupiers & adjoining occupants 危害土地擁有者及鄰社的健康
- Pollution of underground & surface water supplies 地下水及地面水供應的污染
- Corrosion or damage to structures 建築物結構的侵蝕或損害
- Creation of hazardous environments 製造有害的環境



Contractors treatment solutions 承建商處理方案

- Bioremediation 生物修復
- Soil washing 土地清洗
- Vapour extraction 蒸汽萃取
- Stabilisation / solidification
穩定/凝固處理
- immobilisation 固定
- cement, clays, liners,
polymers 水泥、鬆土、襯墊
聚合體



Best Practice Guidance

良好作業指引

Tender Stage 投標階段

- Ensure awareness 保持環保意識
- Identify particular impacts and sensitivities 找出特定影响和敏感性
- Indicate relevant specifics 指出相關要求
- Require commitment 要有承諾

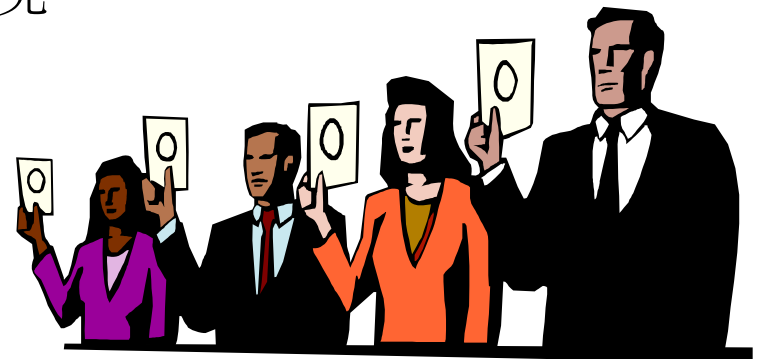


Best Practice Guidance

良好作業指引

Selection of Subcontractor 選擇分判商

- Approach on environmental grounds or Green Purchasing Policy 環保背景或綠色採購政策
- Environmental Policy & EMS in place 實行環保政策及管理系統
- Methods to demonstrate commitment 以施工方法實踐承諾
- Previous performance 過往表現
- Equipment & other resources 設備及其他資源



Best Practice Guidance 良好作業指引

Construction Planning & Execution 建造計劃及執行

- Site & environmental planning
工地及環保計劃
- Impact identification & assessment
影响檢定及評估
- Baseline information 背景資料
- Allocation of treatment facilities
分配處理設施
- Training 訓練
- Enforcement 落實執行



Conclusions 結論

- HKCA commitment 建造商會承諾
- Potential for improvement
潛在可以改善之處
- Whole supply chain influence
影响整個供應鏈
- Lots of help at hand 現有很多支援
- Actions 行動
 - Leadership 領導
 - Partnering 伙伴
 - Research 研究
 - Procurement process change
改變採購過程





Thank You