



iCognitive

Creating Measurable and Sustainable Value

The Development of ISKANDAR Malaysia with Clean Technologies & Low Carbon Footprint

- A strategic & sustainable **BUSINESS SOLUTION**
TOWARDS A LOW-CARBON FUTURE

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PLAN SOURCE MAKE DELIVER RETURN



Agenda

- The Development of ISKANDAR Malaysia
 - ✓ *The involvement of Malaysia government sector*

- Supply Chain Management (SCM) to Reduce Carbon Footprint
 - ✓ *Low-carbon businesses against climate change*
 - ✓ *Green Supply Chain Management*
 - ✓ *Carbon emission reduction and management along the supply chain*

- Green Initiatives for ISKANDAR Malaysia
 - ✓ *Objectives in Green SCM - Business Partner Selection & Performance Monitoring with the focus on Carbon Management*
 - ✓ *Tool for Green SCM - optimising the capital costs on various clean technologies during the development*



The Development of ISKANDAR Malaysia: the involvement of Malaysia government sector

ISKANDAR Malaysia



- ✓ formerly known as Iskandar Development Region (IDR) and South Johor Economic Region (SJER)
- ✓ among the high-impact developments of the Ninth Malaysia Plan, put into action by the Prime Minister of Malaysia in March 2006 to cover the period of 2006 to 2010
- ✓ administered by Iskandar Regional Development Authority (IRDA), a Malaysian Federal Government statutory body with the objective of regulating and driving various stakeholders in both public and private sectors
- ✓ Towards the vision of developing into a strong and sustainable metropolis of international standing



The Development of ISKANDAR Malaysia: the involvement of Malaysia government sector

Comprehensive Development Plan (CDP) & Seven Strategic Social Development Thrusts (SSDT)

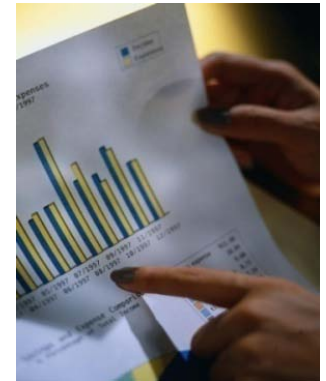
- ✓ SSDT 1: *Improve inter-agency coordination in social development of government and non-governmental agencies*
- ✓ SSDT 2 : *Enhance social capital*
- ✓ SSDT 3 : *Empower individual and privately-owned Bumiputra companies*
- ✓ SSDT 4 : *Increase property values of Bumiputra land through development*
- ✓ SSDT 5 : *Distribute the benefit of improved property values by promoting mutual funds*
- ✓ SSDT 6 : *Emphasize education and professional training*
- ✓ SSDT 7 : *Integrate Bumiputra companies into the clusters of major public and private corporations and research institutions*



The Development of ISKANDAR Malaysia: the involvement of Malaysia government sector

Comprehensive Development Plan (CDP)

- ✓ **Green Blueprint in Residential Development**
 - ✓ Maximizing energy efficiency
 - ✓ Implementing a 'Green Building' Rating
- ✓ **Commercial Development**
 - ✓ Aiming at a "Strategic Catalyst Development"
 - ✓ Developing waterfront areas, promoting tourism, expanding healthcare and iconic areas
 - ✓ Mixing commercial and residential development





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SCM to Reduce Carbon Footprint

Low-carbon businesses against climate change

CO₂ is a major greenhouse gas which causes global warming.

The main greenhouse gases

Greenhouse gases	Chemical formula	Pre-Industrial concentration	Concentration in 1994	Atmospheric lifetime (years)***	Anthropogenic sources	Global warming potential (GWP) *
Carbon-dioxide	CO ₂	278 000 ppbv	358 000 ppbv	Variable	Fossil fuel combustion Land use conversion Cement production	1
Methane	CH ₄	700 ppbv	1721 ppbv	12,2 +/- 3	Fossil fuels Rice paddies Waste dumps Livestock	21 **
Nitrous oxide	N ₂ O	275 ppbv	311 ppbv	120	Fertilizer industrial processes combustion	310
CFC-12	CCl ₂ F ₂	0	0,503 ppbv	102	Liquid coolants Foams	6200-7100 ****
HCFC-22	CHClF ₂	0	0,105 ppbv	12,1	Liquid coolants	1300-1400 ****
Perfluoromethane	CF ₄	0	0,070 ppbv	50 000	Production of aluminium	6 500
Sulphur hexa-fluoride	SF ₆	0	0,032 ppbv	3 200	Dielectric fluid	23 900

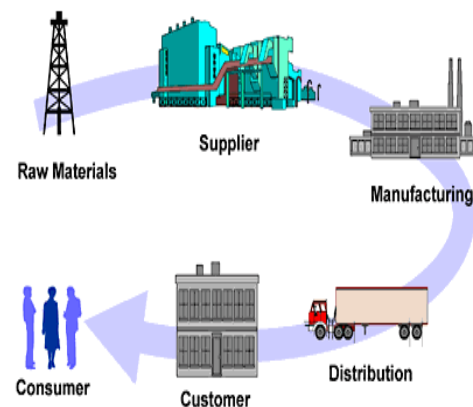
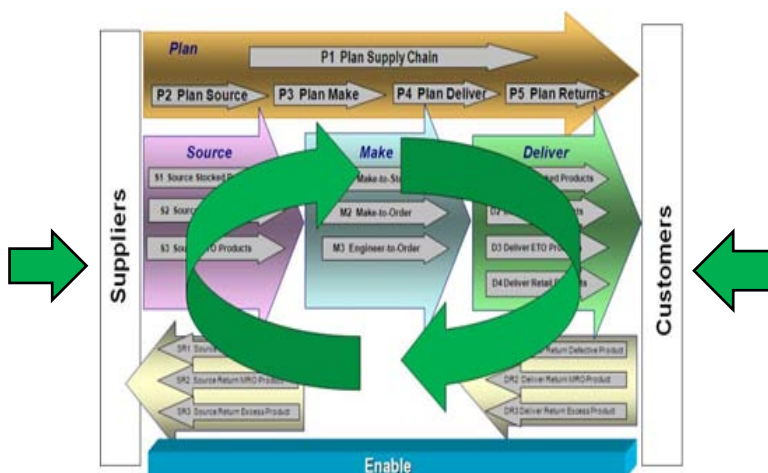
Note : pptv= 1 part per trillion by volume; ppbv= 1 part per billion by volume, ppm v= 1 part per million by volume

* GWP for 100 year time horizon. ** Includes indirect effects of tropospheric ozone production and stratospheric water vapour production. *** On page 15 of the IPCC SAR. No single lifetime for CO₂ can be defined because of the different rates of uptake by different sink processes. **** Net global warming potential (i.e., including the indirect effect due to ozone depletion).



SCM to Reduce Carbon Footprint Green Supply Chain Management (SCM)

Green SCM integrates Environmental and Supply Chain Management .



Supply Chain

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_8176

