20th AIM Workshop NIES Tsukuba Japan 23-25 January 2015

Realization of Blueprint for LCS in Malaysia

Science into Policy – Low carbon Society blueprint



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Project for Development of Low Carbon Society Scenarios for Asian Regions

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Content- Structure of Presentation

Background

- Updates CO20
- Urban problem and low carbon solution policy in Malaysia

Challenges

And

Solution

 Low Carbon Society Blueprint for Iskandar Malaysia

Solution- 12 actions

LČS

Malaysia

- Local authorities
- Conclusions

UTM hosted Side-events and exhibition at COP20 Lima, Peru on 2-12 December 2014







Prof Nordin spoke on behalf of VC UTM opening address at COP20 side event jointly organised by UTM-NIES Japan



Prof Ho interviewed by Climate Studio at COP20 UNFCC Lima Peru



HE Ambassador Horie and Y bhg Dato Loo, KSU Kettha invited as keynote at **UTM-NIES** side event



Prof Ho presentation with other Asian experts on climate change agenda in COP20



Panellists at UTM-NIES side event at **COP20 Lima Peru**



Our Peruvian guests at UTM exhibition booth 78 at COP20 Lima Peru



Participation of UTM-Low Carbon centre at six (6) side events of COP2 Lima Peru Dec 2-12 2014



5 Dec 2014– Urban Climate change and Finance organised by JICA Tokyo at Japan Pavilion



8 Dec 2014 – Achieving Low Carbon Asia organised by IGES Tokyo at Japan Pavilion



9 Dec 2014 – AIM modelling application organised by NIES at Japanese Pavilion



10 Dec 2014 LoCARNet – GHG Reduction potential in Asia at Indonesia Pavilion by IGES

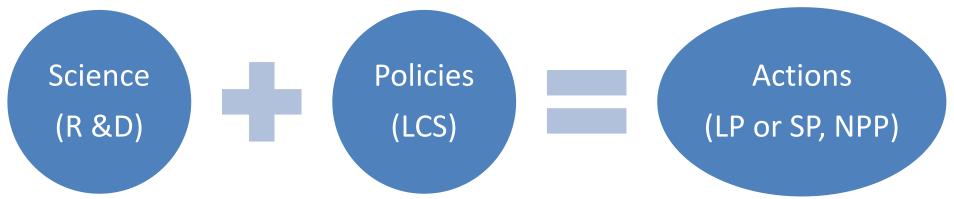


11 Dec 2014 Realizing Low carbon Societies in Malaysia and Asia organised by UTM-NIES at Caral Room

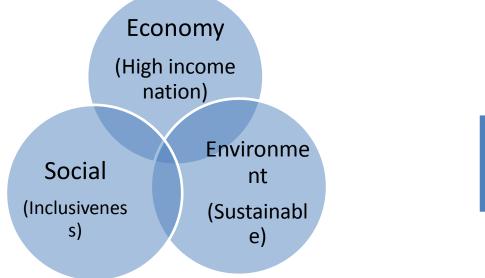


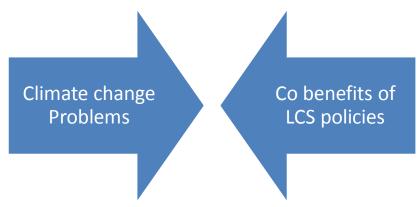
12 Dec 2014 Transition and Global Challenges towards LCS organised by LCS R Net at EU Pavilion

Role of researchers to promote Low carbon sustainable development approach



Key element Sustainable development = PRO GROWTH, PRO JOB, PRO POOR and PRO ENVIRONMENT





Projected Greenhouse Gas Emission Reduction in Iskandar Malaysia

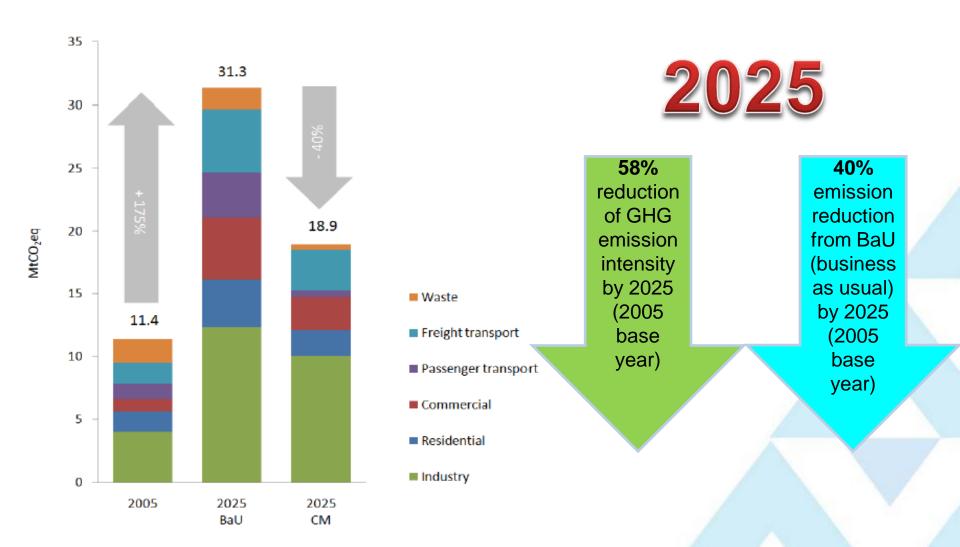


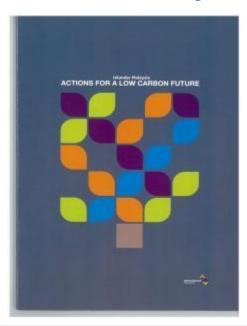
Figure 1: GHG emissions by sectors

04 Potential Mitigation Options for Iskandar Malaysia

12 Actions Towards Low Carbon Future

Mitigation Options	CO2	%
	Reduction	
Green Economy	7,401	59%
Action 1 Integrated Green Transportation	1,916	15%
Action 2 Green Industry	1,085	9%
Action 3 Low Carbon Urban Governance**	-	-
Action 4 Green Building and Construction	1,338	11%
Action 5 Green Energy System and Renewable Energy	3,061	24%
Green Community	2,557	21%
Action 6 Low Carbon Lifestyle	2,557	21%
Action 7 Community Engagement and Consensus Building**	-	-
Green Environment	2,510	20%
Action 8 Walkable, Safe and Livable City Design	264	2%
Action 9 Smart Urban Growth	1,214	10%
Action 10 Green and Blue Infrastructure and Rural Resources	620	5%
Action 11 Sustainable Waste Management	412	3%
Action 12 Clean Air Environment**	-	-
Total	12,467**	100%

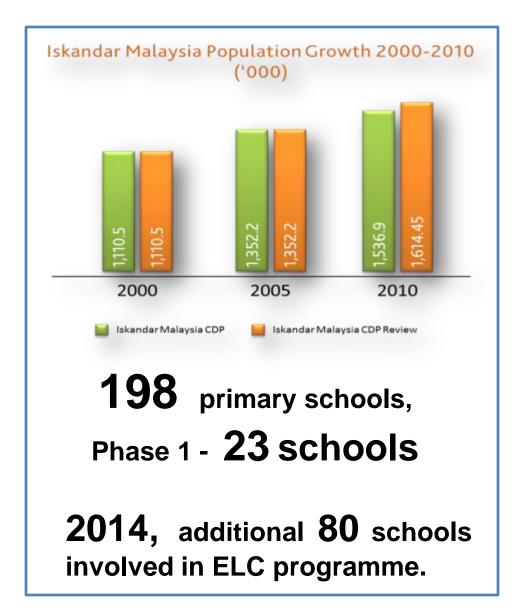
Iskandar Malaysia: Actions For A Low Carbon Future



- The Booklet 'Actions for a Low Carbon Future' – list of 10 programmes which IRDA has started implementing or have been completed.
- On 6th November 2013, the Iskandar Malaysia: Actions for A Low Carbon Future is the implementation booklet which outlines the 10 programmes, was launched by Malaysia Prime Minister Dato' Sri Mohd Najib Tun Abdul Razak.
- On 15th and 18th November 2013, was the subsequent global launching at COP 19, Warsaw, Poland.

	Programmes	PIC
1	Integrated Green Transportation – Mobility Management System	Kamisah Mohd Ghazali
2	Green Economy Guidelines	Ivy Wong Ling Ling
3	Eco-Life Challenge Project for Schools	Isma Ezwan Safri
4	Portal on Green Technology	Choo Hui Hong
5	Trees for Urban Parks/Forests	Boyd Dionysius Joeman
6	Responsible Tourism and Biodiversity Conservation	Boyd Dionysius Joeman
7	Bukit Batu Eco-Community	Hamdi Mohd Yusof
8	GAIA – Green Accord Initiative Award	Ivy Wong Ling Ling
9	Low Carbon Village FELDA Taib Andak	Dr Ibrahim Ngah (UTM)
10	Special Feature: Smart City – Nafas Baru Pasir Gudang: CLEAN AND HEALTHY CITY	Sakurah Jamaluddin , Sharifah Shahidah Syed Ahmad, Muhammad Fadly Muhammad Nor, Choo Hui Hong

Quick update : Eco life Challenge Programmes





The Iskandar Malaysia Eco-Life Challenge Project focuses on energy household accounting. School children track the energy consumption, waste generation and management, travelling choices, frugal consumption and utilizing renewable energy resources (sunlight). The aim is to raise children's awareness level on low carbon aspects.

03 Low Carbon Society Proposal Plans for 5 Municipalities

Iskandar Malaysia

FIVE (5) Local Municipalities

Integrating Iskandar Malaysia and 5 Local Municipalities

Top - down

Low Carbon Society Blueprint for Iskandar Malaysia 2025

Direction, Guide and Policy



Bottom - up

Low Carbon Society Action Plan for Johor Bahru 2025

Low Carbon Society Action Plan for Johor Bahru Tengah 2025

Low Carbon Society Action Plan for Pasir Gudang 2025

Low Carbon Society Action Plan for Kulai Jaya 2025

Low Carbon Society Action Plan for Pontian 2025

Detail Local Action

- Priority and Preference
- Correct Data through Survey
- Chose Implementable measures on the ground
- Pioneering Activities through Pilot Projects











03 Low Carbon Society Proposal Plans for 5 Municipalities

Local Action Plan: Cover and Theme (Example)









































Johor Bahru

'The Vibrant Heart of

Southern Region'

'Livable Community City'

Johor Bahru Tengah

Pasir Gudang

'Green Manufacturing Hub'

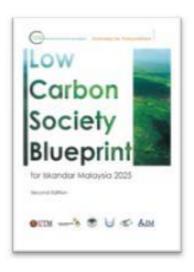
Kulai Jaya

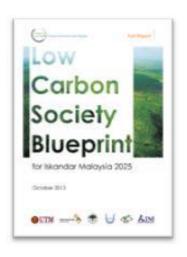
'Smart Logistic Hub'

Pontian

'Agrobiodiversity Hub'

Low Carbon Society for Iskandar Malaysia Publications









Low Carbon Society Blueprint for Iskandar Malaysia 2025-Summary for Policymakers

http://irdep.irda.com.m y/cms/download/docu mentSharing/18230 Low Carbon Society Blueprint for Iskandar Malaysia 2025- Full Report

> http://irdep.irda.com.m y/cms/download/docu mentSharing/26570

A Roadmap towards Low Carbon Iskandar Maaysia 2025

http://irdep.irda.com.m y/cms/download/docu mentSharing/26563 Iskandar Malaysia: Action for a Low Carbon Future

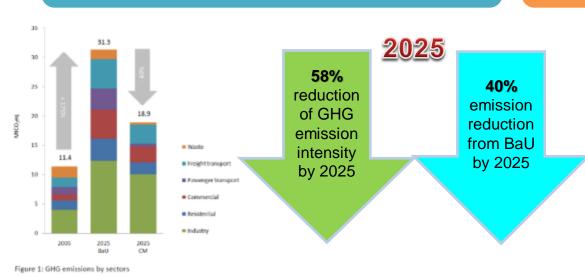
> http://irdep.irda.com.m y/cms/download/docu mentSharing/26571

In Progress-Developing a Low Carbon Society Roadmap for Iskandar Malaysia

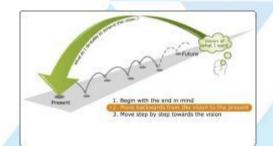
Blueprint for Iskandar
Malaysia

- Clear GHG target for year 2025

Low Carbon Society
Implementation
Roadmap 2015-2025
using Backcasting
Tool







Conclusion- Way forward

a) GOOD PRACTICE and ACTION INTEGRATED and MULTI DISPLINARY SCIENCE-KNOWLEDGE-POLICY- IMPLEMENTATION (completing PDCA cycle)

b) METHODOLOGY

Good baseline quantitative study, consensus building and low carbon blueprint plan will help to develop an integrated climate resilient, Low carbon framework for a city by providing objective decision.

c) MEDIA and BUY- IN Stakeholder participation

c) NETWORK

The researchers/scientists have to work with local implementation agencies and international collaboration for capacity building opportunities.



Thank You Terima Kasih 谢谢 धन्यवाद ありがとう



