COP 18 Side Event Doha 30 November 2012

Bridging Science and Policy Making: Low Carbon Future

The Case of UTM and Iskandar Malaysia

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Background

Iskandar Malaysia: Key Challenges



Population: 1.3 mil. (2005) | 3.0 mil. (2025)

GDP: 35.7 bil. RM (2005) I 141.4 bil. RM (2025)



Voluntary 40% reduction of CO₂ emission intensity by 2020

Issues

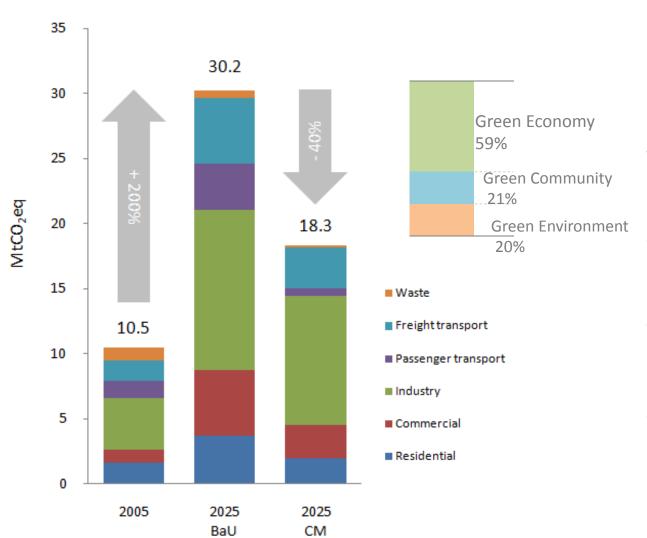
- Rapid urbanization and industrialization
- Relatively high carbon intensity dependence on fossil fuel
- High private car ownership
- Low density development and urban sprawl
- Low efficiency appliances

Government Policy Directions

- National Green Technology Policy
- National Policy on Climate Change
- National Renewable Energy Policy and Action Plan
- National Policy on the Environment
- 10th Malaysia Plan
- Green Neighborhood Planning Guideline
- _Low Carbon Cities Framework and Assessment System

04 Potential Mitigation Options for Iskandar Malaysia

Green Economy, Green Community and Green Environment



	2005	2025	2025	202ED-	103EC#4
Unit	2005	2025	2023	ZUZODa	2025CM
		BaU	CM	U	/2005
				/2005	
Final Energy	2.5	7.6	5.2	3.11	2.14
Demand (Mtoe)					
GHG emissions	10.5	30.2	<u>18.3</u>	2.88	1.74
(MtCO2eq)					
Per Capita CO2	7.7	10.1	6.1	1.30	0.78
Emissions (tCO2eq)					
GHG Intensity	0.29	0.21	0.13	0.73	0.44
(kgCO2eq/RM)					

04 Potential Mitigation Options for Iskandar Malaysia

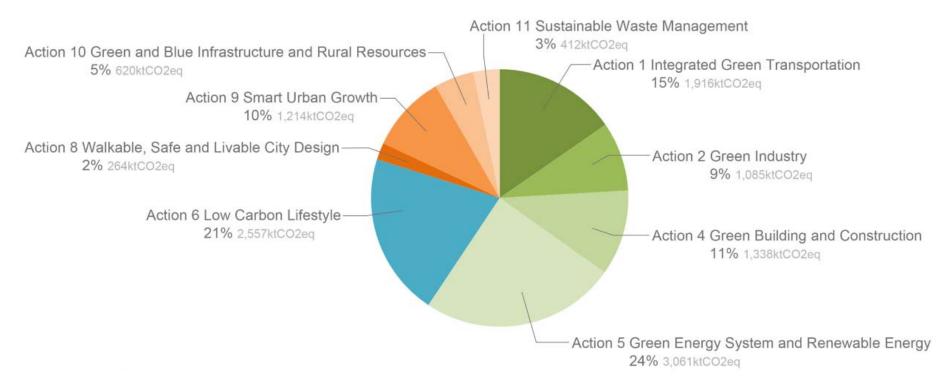
12 Actions Towards Low Carbon Future

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%

04 Potential Mitigation Options for Iskandar Malaysia

12 Actions Towards Low Carbon Future







Quantification from LCS modeling assist **better understanding** on impact of proposed actions, sub actions and programs.

Good baseline study, consensus building and low carbon blueprint plan will help to develop an integrated climate resilient, Low carbon framework for a city or region.

Green cities or Local carbon cities need to have a **LOW CARBON SOCIETIES mindset**/ behavior and **Joint effort** between different professions (Planners, architect, engineer and related environmental profession)

Important to have a Asian (eg IGES & AIM workshop) and International platform for research collaboration between researchers in LCS as well as capacity building opportunities.



Thank you for your attention!

Thank You Terima Kasih 谢谢 धन्यवाद ありがとう