

Case analysis of the climate change institution

- Case study of Development of Low Carbon Society Iskandar Malaysia

What are the **Key Success Factors for Implementation** of city-level climate change actions?

1. S2A **Methodology**,
2. Real Economic **growth**,
3. Political will and community **buy in**,
4. Institutional support – **Organization arrangement** for sustainability



FLAGSHIP A

JOHOR BAHRU CITY CENTRE
• Central Business District (CBD) as heritage and cultural city
• Customs, Immigration and Quarantine Complex (CIQ)
• Johor – Singapore Causeway

FLAGSHIP B

NUSAJAYA
• Kota Iskandar
• EduCity
• Medical Park
• International Destination Resort
• Southern Industrial & Logistics Clusters (SILC)
• Puteri Harbour

FLAGSHIP C

WESTERN GATE DEVELOPMENT
• Port of Tanjung Pelepas (PTP)
• Tanjung Bin Power Plant
• 2nd Link Access to Singapore
• RAMSAR World Heritage Park
• Tanjung Piai – Southernmost Tip of Mainland Asia
• Maritime Centre

FLAGSHIP D

EASTERN GATE DEVELOPMENT
• Tanjung Langsat Industrial Complex
• Johor Port
• Tanjung Langsat Port
• Pasir Gudang Industrial Park

FLAGSHIP E

SENAI-SKUDAI
• Senai Airport City
• Senai High-Tech Park
• Sedenak Industrial Park
• MSC Cyberport City
• Johor Technology Park
• University Technology Malaysia (UTM)

Development of Low Carbon Society Blueprint Iskandar Malaysia 2025 (LCSBP 2016)

- LCSBP 2016 – Comprehensive Development Plan for **decarbonization with 5 Steps**
- Step1 – **Methodology** S2A - PDCA
- Step2 – **Ambitious** City Target setting (58% GHG emission intensity reduction)
- Step 3 – **Planned Actions** (Actions, Measures and Programs)
- Step 4 – **Buy in** at National , State and City level
- Step 5 – **Institutional support** – organization arrangement for sustainability



COP26 Side event JICA RI Nov 4 2021 at 1250 Glasgow

Blueprint and GHG inventory

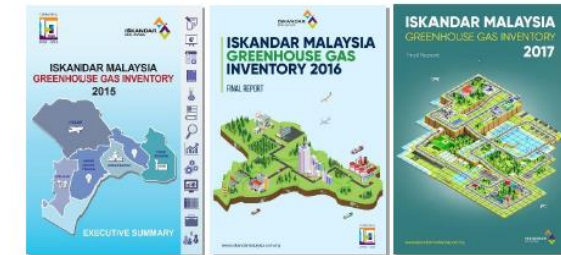
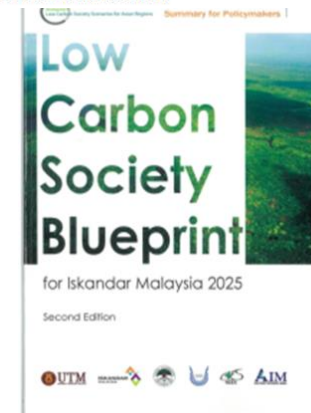


Figure 1: Past GHG Inventories by IRDA



LCS scenarios for policy development in IM The *Low Carbon Society Blueprint for Iskandar Malaysia 2025*

Objectives

- ✓ Prepare Document that presents comprehensive climate change mitigation policies and detailed strategies to guide development of Iskandar Malaysia

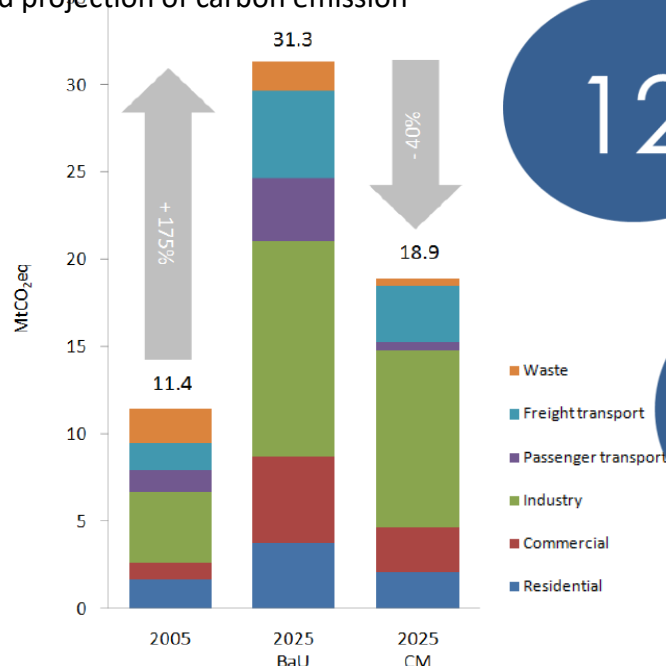
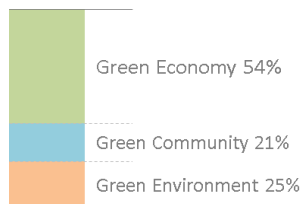
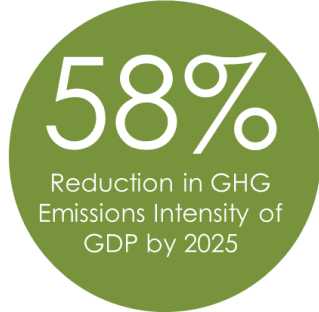
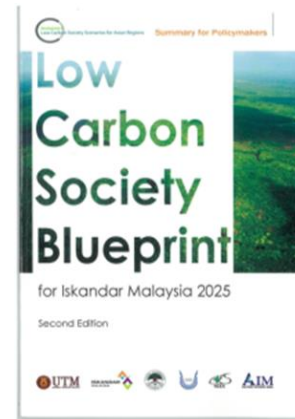
Impact

- ✓ **Holistic and integrated approach to decouple economy and environment development**

Comprise of two principal components:

I) Narrative on growth scenarios, policies, measures and programs to achieve a minimum targeted **40% reduction in carbon emission by 2025** based on the 2005 level and;

II) **scenario-based modelling** and projection of carbon emission reductions achievable.



12

Actions

281

Programs

GHG reductions by Actions

| Mitigation Options | ktCO ₂ Reduction | % |
|---|-----------------------------|-------------|
| Green Economy | 6,937 | 54% |
| Action 1 Integrated Green Transportation | 1,916 | 15% |
| Action 2 Green Industry | 1,094 | 9% |
| Action 3 Low Carbon Urban Governance** | - | - |
| Action 4 Green Building and Construction | 1,203 | 9% |
| Action 5 Green Energy System and Renewable Energy | 2,725 | 21% |
| Green Community | 2,727 | 21% |
| Action 6 Low Carbon Lifestyle | 2,727 | 21% |
| Action 7 Community Engagement and Consensus Building** | - | - |
| Green Environment | 3,094 | 25% |
| Action 8 Walkable, Safe and Livable City Design | 263 | 2% |
| Action 9 Smart Urban Growth | 1,214 | 10% |
| Action 10 Green and Blue Infrastructure and Rural Resources | 392 | 3% |
| Action 11 Sustainable Waste Management | 1,224 | 10% |
| Action 12 Clean Air Environment** | - | - |
| Total | 12,467** | 100% |

Buy In political and global

Buy in global – Promote IM as Green region investment hub

Iskandar Malaysia LCS Blueprint 2025



MARRAKECH 2016
COP22 | CMP12 | CMA1
UN CLIMATE CHANGE CONFERENCE

Launching
CASBEE
Iskandar
Malaysia on
10 Nov. 2016
at COP22.

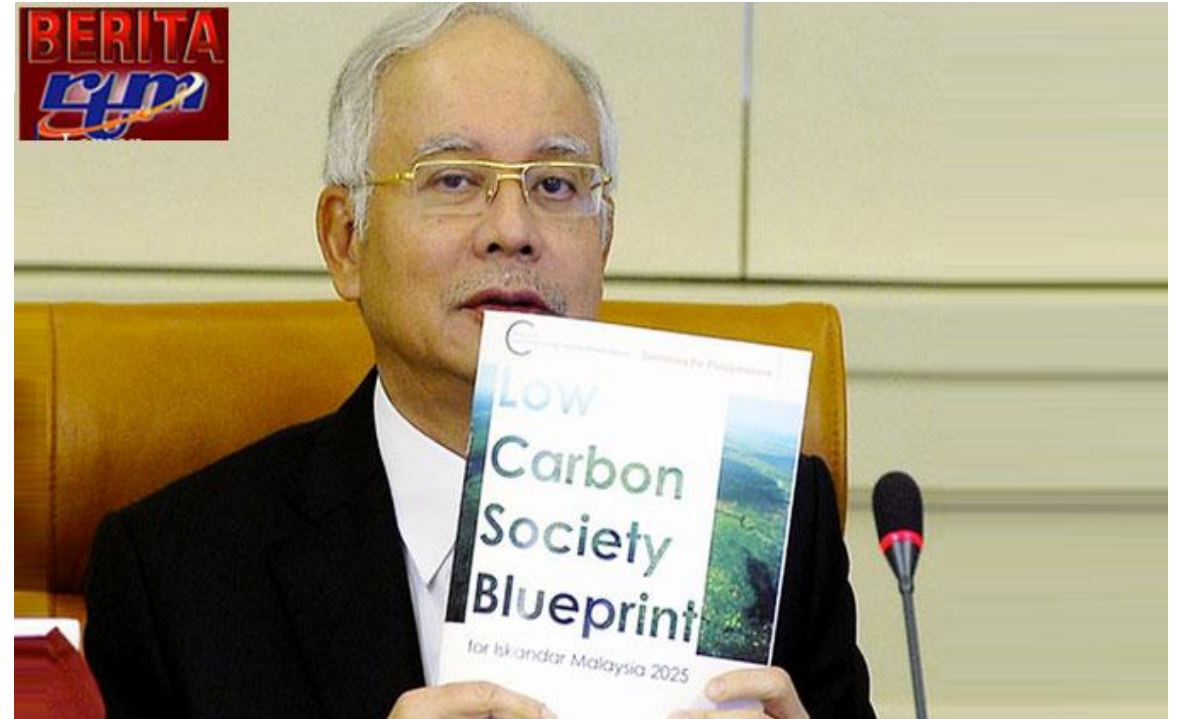
-Building
-Urban
Development
-City



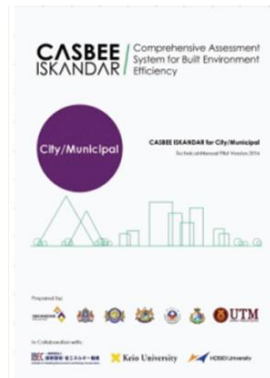
United Nations Climate Change Conference

DOHA 2012
UN CLIMATE CHANGE CONFERENCE
COP18|CMP8

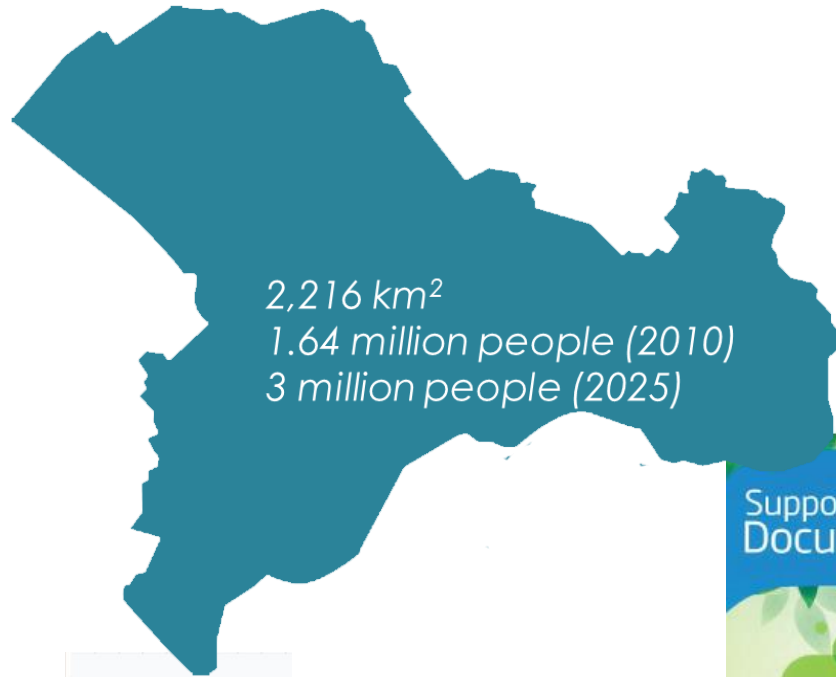
Officially launched @ COP 18,
Doha, Qatar on 30 Nov. 2012



Launching officially endorsed by
the R.H. Prime Minister of Malaysia
on 11 Dec. 2012



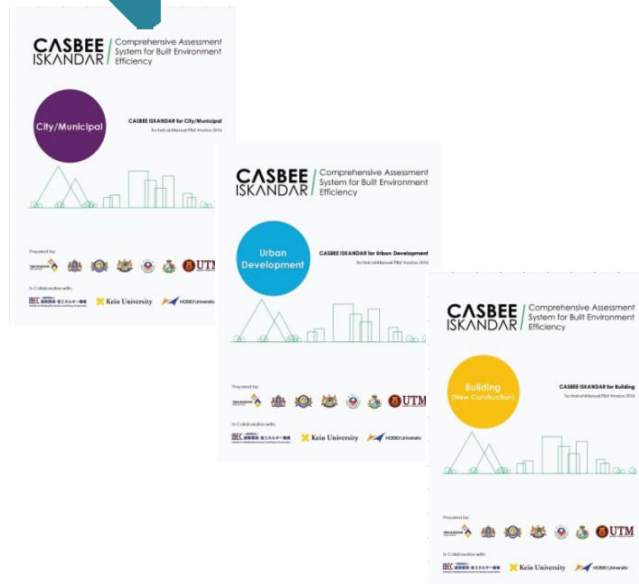
Buy in from private sector



Iskandar Malaysia

main southern development corridor in Johor, Malaysia

GREEN ACCORD AWARDS



Supporting Documents

1. Site Plan
2. Floor Plans
3. CD with Photos to Support Application
4. Energy Bill
5. Water Bill
6. Green Building Rating System Results (LEED, GBI, CASBEE etc)

The GAIA application form is available for download at Iskandar Malaysia's official website starting 15 May 2016. All applications must be submitted:

via e-mail to:
shahrinaz@irda.com.my

or mailed to:
IRDA
G-01, Block B, Danga Bay, Jalan Skudai,
80200, Johor Bahru, Johor, Malaysia

Closing date for submissions:
All applications must reach IRDA by 5 pm, 5th July 2016

Language:
All entries should be in Malay or English.

Judging:
Assessment of eligible submissions will be made by an independent panel of professionals in the green building and construction industry. The Organiser's decision is final and no correspondence or communication will be considered following its final decision. The results and grading details are confidential and will not be shared.

www.iskandarmalaysia.com.my

IskandarMalaysiaOfficial IskandarMsla IskandarMalaysia

Green Accord Initiative Award 2016

Buy in from communities- Business, Authoriteis, NGO and School

Sustainable & Low Carbon Schools / Community



Organizational Arrangement

UTM-Low Carbon Research Centre



RCE Iskandar



UNITED NATIONS
UNIVERSITY

UTM-LOW CARBON ASIA
RESEARCH CENTRE



LCS Research & Training Hub in Asian Region