



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

UTM **LOW**
CARBON
ASIA
RESEARCH CENTRE



COP27
SHARM EL-SHEIKH
EGYPT 2022



COP27 JAPAN PAVILION SIDE EVENT
JAPAN'S CONTRIBUTIONS TOWARDS A DECARBONISED AND RESILIENT ASIA

ASIA-PACIFIC INTEGRATED MODEL (AIM):
ACCELERATING CITY CLIMATE ACTIONS IN MALAYSIA

12 November 2022 | 1500-1630 EET (UTC+2)

CHAU LOON WAI | HO CHIN SIONG

*UTM-Low Carbon Asia Research Centre
Faculty of Built Environment and Surveying
Universiti Teknologi Malaysia
Johor Bahru, Malaysia*



S2A

In Malaysia we promote
AIM under S2A –

Science
to Action

in making
Low Carbon Society
a Reality

S2A FUNDAMENTAL BELIEFS & PRINCIPLES

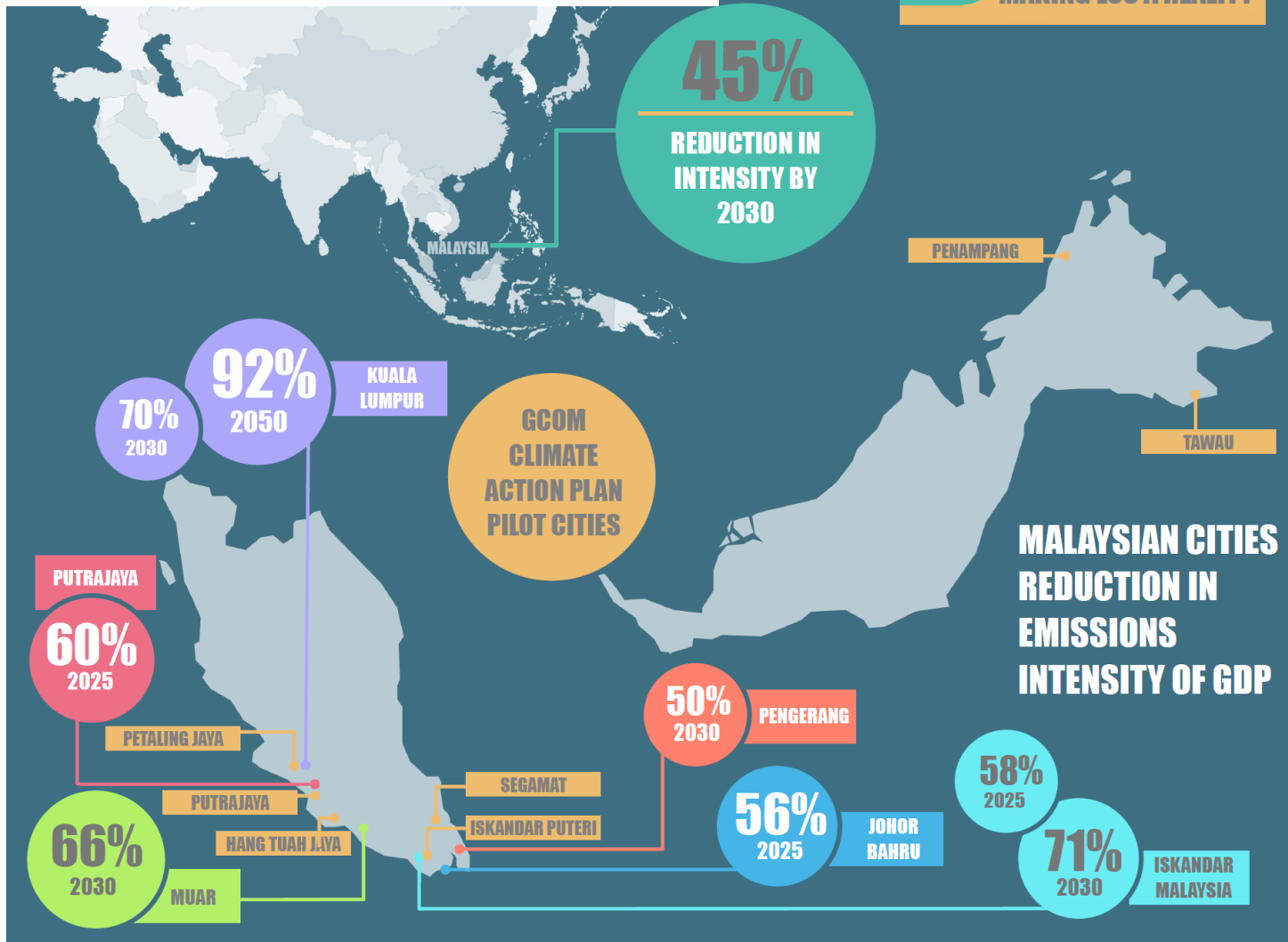
our beliefs

- Policies are only as good as their implementation
- Good policies are:
 - made with implementation in mind
 - scientifically rooted
 - people centric

our principles

- **SOCIETY** at the core
- **Decoupling**, decarbonising + **CO-BENEFITS**
- Holistic: **TECHNO**-fixes + **PEOPLE**-centric, socially-rooted programs + **ENVIRONMENTAL** countermeasures

CONTRIBUTIONS TO MALAYSIAN CITY-LEVEL LCS



2022

- GCoM 4 Pilot Cities Climate Action Plan Phase 2
- Low Carbon Society Blueprint for Iskandar Malaysia 2030- Climate Action Plan Asia-Pacific Integrated Model (AIM)

2021

- Wangsa Maju Carbon Neutral Growth Centre Action Plan 2050
- Project for Developing a Policy Framework for Building Energy Efficiency through City-to-City Collaboration between Kuala Lumpur City Hall and Tokyo Metropolitan Government – Phase 3 (FY2021)*
- Iskandar Malaysia GHG Inventory 2018-2019
- Japan-Malaysia Science-Policy Dialogue: Malaysian Climate Change Policies and Capacity Building Needs

2020

- Segamat Low Carbon Society Blueprint 2030
- Project for Developing a Policy Framework for Building Energy Efficiency through City-to-City Collaboration between Kuala Lumpur City Hall and Tokyo Metropolitan Government – Phase 2 (FY2020)*
- Development of Guidebook on How to Develop A Climate Action Plan in Malaysia
- Industrial Symbiosis Survey Workshop of Iskandar Malaysia
- Kuala Lumpur Local Plan 2040 - LCS Sector

2019

- Project for Developing a Policy Framework for Building Energy Efficiency through City-to-City Collaboration between Kuala Lumpur City Hall and Tokyo Metropolitan Government – Phase 1 (FY2020)*
- GCoM 4 Pilot Cities Climate Action Plan Phase 1
- Muar District Local Plan 2030

2018

- Low Carbon Stocktaking Exercise for Iskandar Malaysia
- Casbee Iskandar for Buildings: Assessment of Nong Chick Mosque and Johor Port Authority in Iskandar Malaysia
- Johor Bahru Low Carbon Society Action Plan 2025 (Revision)
- Low Carbon Island Model
- Penang Low Carbon Society 2030 Final Report

2016 & 2017

- Kuala Lumpur Low Carbon Society 2030 Blueprint
- Kulai_Sedenak Special Area Plan
- Casbee Iskandar for Building, City and Urban Development

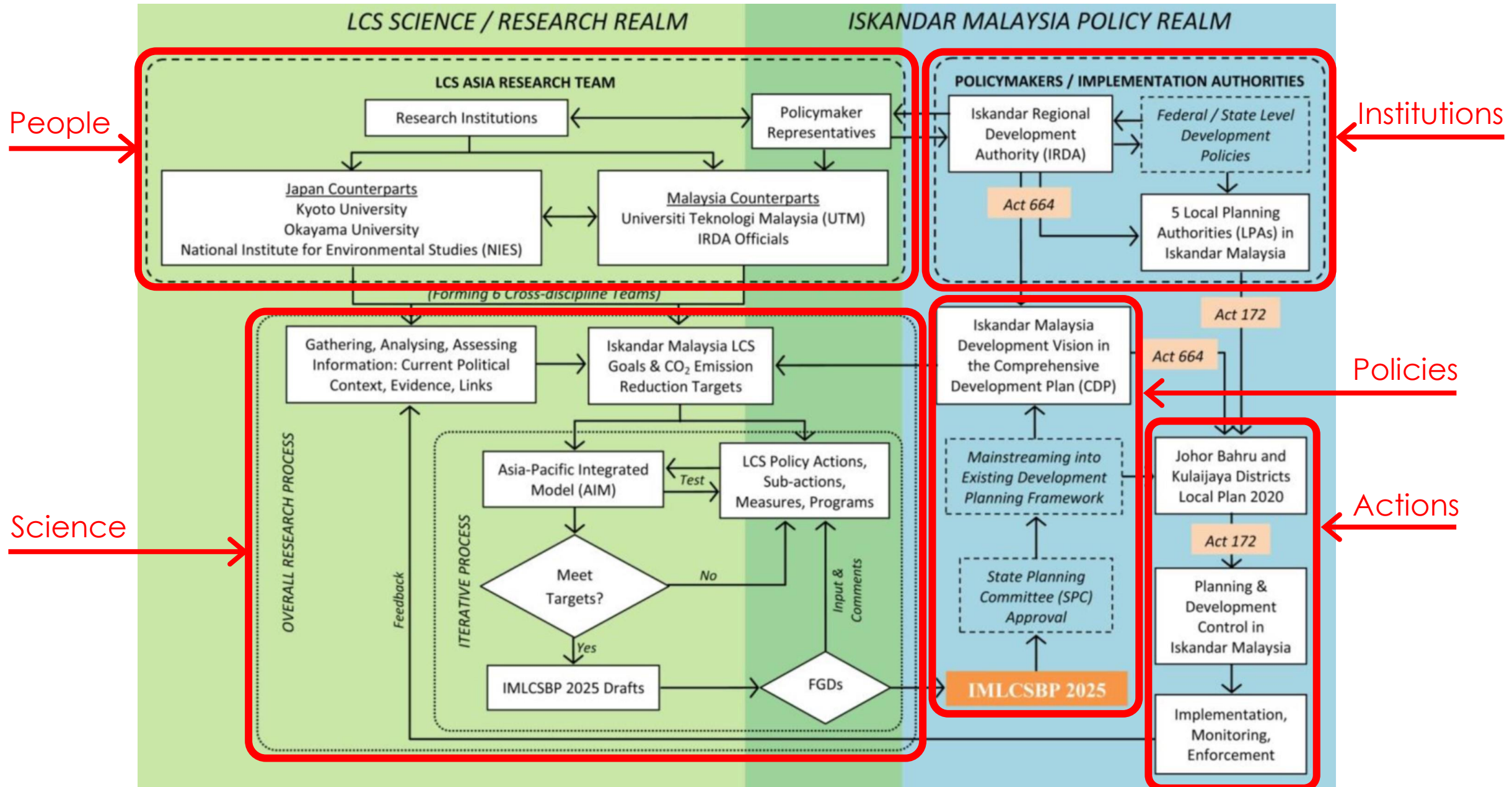
2015

- Low Carbon Society Action Plan 2025 for Johor Bahru: Vibrant world Class Cosmopolis of the South
- Low Carbon Society Action Plan for Johor Bahru Tengah: Green Livable City and Creative Innovation Belt
- Low Carbon Society Action Plan for Johor Kulai: Smart Integrated Logistic Hub
- Low Carbon Society Action Plan for Pasir Gudang: Green and Clean Industrial City
- Low Carbon Society Action Plan for Pontian: Clean energy and Biodiversity Hub
- Casbee Iskandar Pilot Project

2009-2014

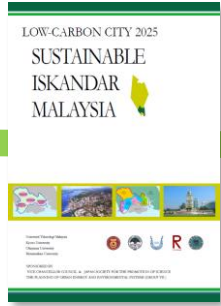
- Iskandar Malaysia Low Carbon Society Blueprint – Summary for Policymaker
- Pasir Gudang Green and Smart Cities
- Iskandar Malaysia Eco-Life Challenge 2014
- Low Carbon Society Scenarios Malaysia 2030
- Low Carbon Society Blueprint for Iskandar Malaysia 2025 - Full Report
- Iskandar Malaysia: Action for a Low Carbon Future
- Putrajaya Green City 2025

ISKANDAR MALAYSIA CLIMATE SCIENCE-POLICY-ACTION



UTM & ISKANDAR MALAYSIA'S EPIC LCS JOURNEY

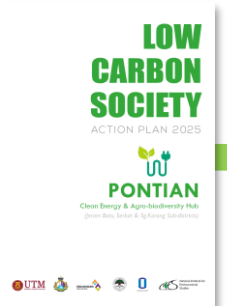
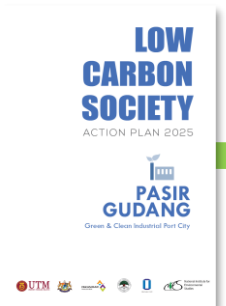
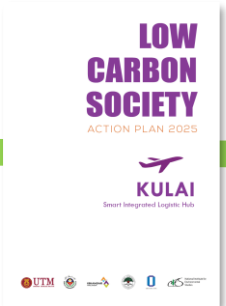
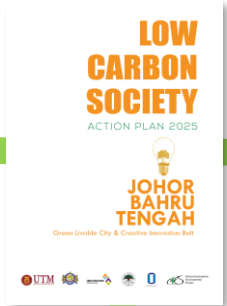
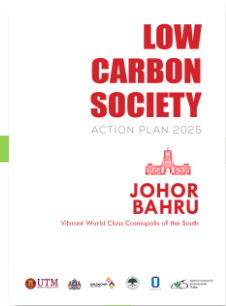
Science-based Climate Policies and Action Plans



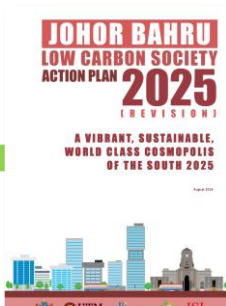
2009



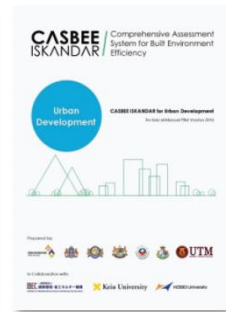
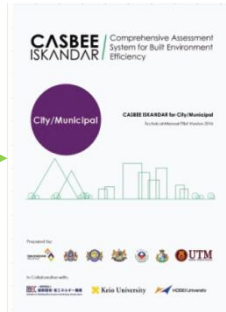
2011-2012



2014-2015

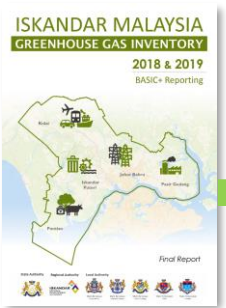
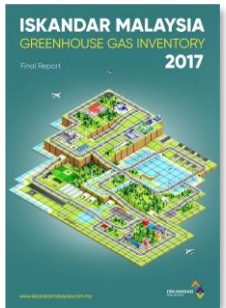


2018



Tools for Action

2015-2016



Stocktaking and Monitoring

2015-2019

LCSBPIM 2030-CAP
(Launching 12 Nov 2022 @ COP27)

2021-2022

Iskandar Malaysia Net Zero Emission Future (2050)

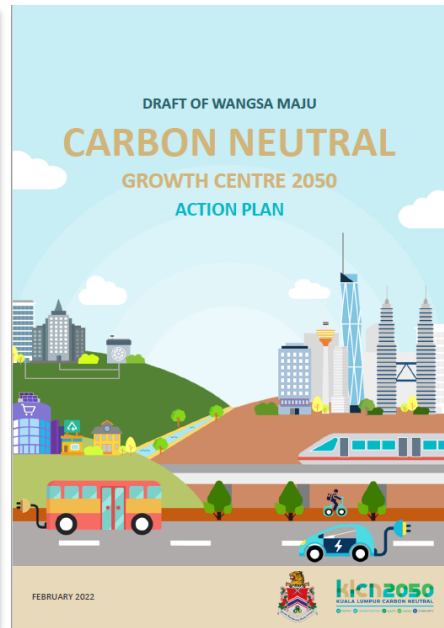
EXTENDING AIM BEYOND ISKANDAR MALAYSIA

– KUALA LUMPUR LOW CARBON SOCIETY 2030

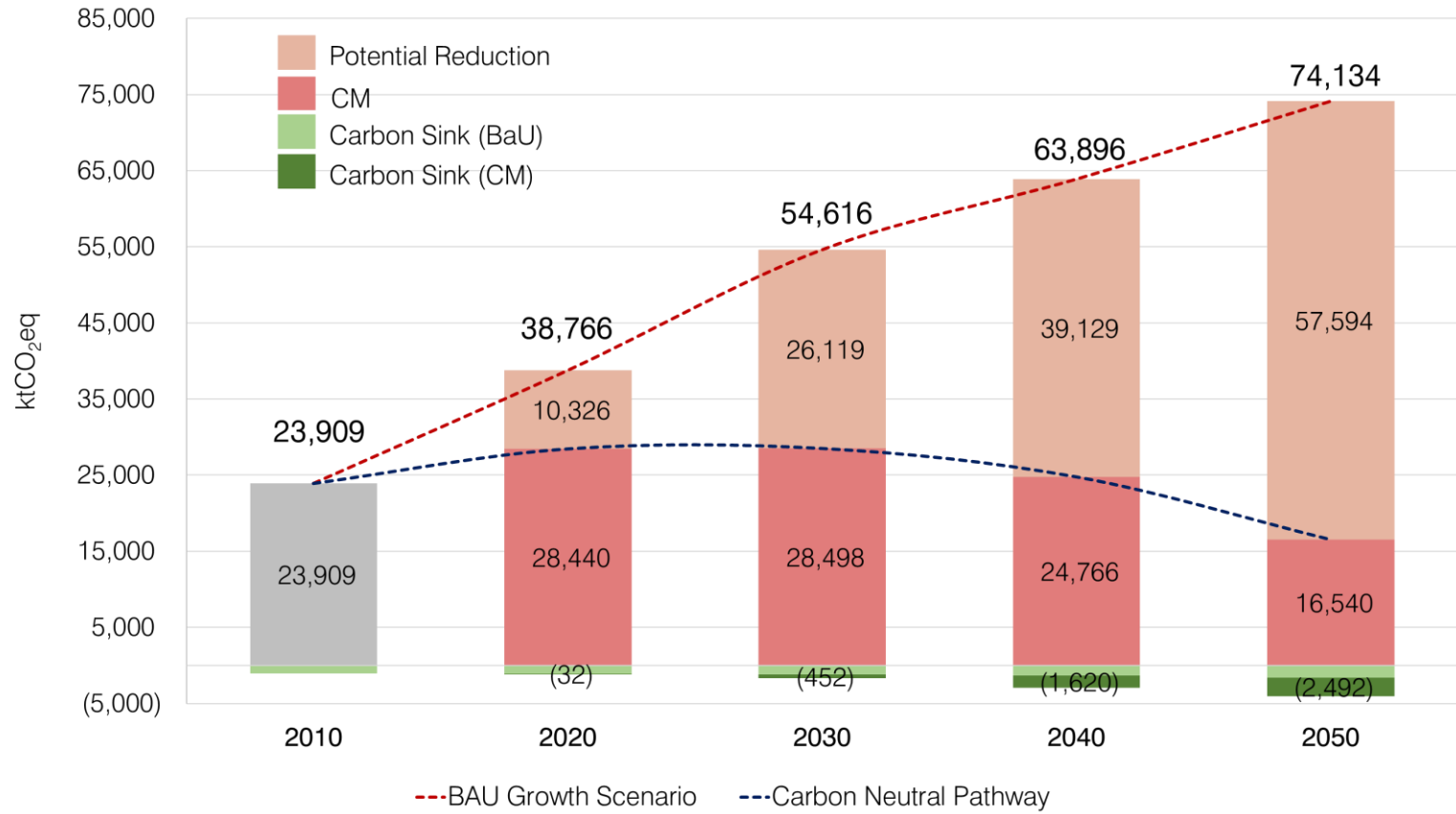
– KUALA LUMPUR NET ZERO EMISSION 2050



2017-2018

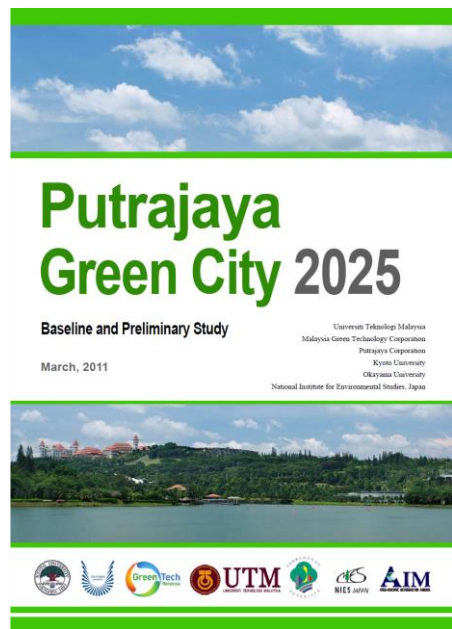


2021-2022



EXTENDING AIM BEYOND ISKANDAR MALAYSIA

- *PUTRAJAYA GREEN CITY 2025*
- *PENGERANG LOW CARBON SOCIETY 2030*
- *MUAR DISTRICT LOCAL PLAN 2030*
- *SEGAMAT LOW CARBON SOCIETY 2030*



2011-2012



2017-2018



2019-2021



2020-2021

REFLECTION ON AIM APPLICATION IN MALAYSIA CITY-LEVEL LCS

- ❑ **Low carbon society** is the way forward to strong, sustainable cities and regions.
- ❑ **Starting early and pioneering** are good – **ACT NOW(!)**.
- ❑ **Good scientific research** is cornerstone to effective implementation of LCS policies.
- ❑ **Policies supported by science** are effective for realising GHG emission reduction.
- ❑ **Progressive local/regional leaders** are pivotal to accelerating LCS transitions.
- ❑ **Highest-level government support** greatly expedites LCS science to LCS actions.
- ❑ **Internationally funded joint research** on LCS is essential to developing countries.



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THANK YOU!

UTM-Low Carbon Asia Research Centre
Block B12, 02-04-01
Faculty of Built Environment & Surveying
Universiti Teknologi Malaysia
81310 UTM Johor Bahru
Johor, MALAYSIA

T: +60-7-5557359
E: lwchau@utm.my
E: ho@utm.my

