1.0 Development of Kuala Lumpur Low Carbon Society 2030

Images of Low Carbon Society

Today
High Carbon Society
Lower Sustainability

Tomorrow
Low Carbon Society, Higher Sustainability, Green Growth/Economy

Source: Image adapted from Iskandar Regional Development Authority
Malaysia Commitment
Speech by Datuk Seri Najib Tun Razak, Prime Minister

“... Malaysia is adopting an indicator of a voluntary reduction up to 40% in terms of emission intensity of GDP by the year 2020 compared to 2005 levels.”
17th December 2009

“... Reduction up to 45% in terms of emission intensity of GDP by the year 2030 compared to 2005 levels as indicated in INDC submitted to COP21.”
COP21 Paris December 2015

Why Low Carbon Society?

Global Citizens + Responsibilities
For the Earth, For Our Future Generation

Green as New Consumer Culture, New Market, New Growth (KeTTHA Initiatives)

Money Saving
Energy conservation and Renewable Energy
Malaysia's global commitment to reduce 45% CO2 emission intensity by 2030 (based on 2005)

Climate Change /Low Carbon Initiatives

Kuala Lumpur Low Carbon Society 2030 Blueprint

National Physical Plan (NPP-3)

Kuala Lumpur Structure Plan 2020

DBKL Planning Guidelines

Planning Control

Greater KL/KV (NKEA)(2010)

Greater KL Land Public Transport Master Plan 2020

Kuala Lumpur City Plan 2020

DBKL Strategic Plan 2010 - 2020

ICT Strategic Plan 2015

General (Non-Spatial) Development Policies

Spatial Development Planning
2.0 Kuala Lumpur 2010-2030 Scenarios

**Population**
- **2010**
  - Population (Million): 1.67
  - Average number of people per household: 3.80
  - Number of households: 440,690
- **2020**
  - Population (Million): 2.20
  - Average number of people per household: 4.00
  - Number of households: 550,001
- **2030**
  - Population (Million): 2.49
  - Average number of people per household: 3.30
  - Number of households: 754,060

**Gross Domestic Product**
- **2010**
  - GDP (mil RM): 84,852
  - GDP Per Capita (RM/Capita): 50,670
  - Floorspace for commercial (mil m²): 31
- **2020**
  - GDP (mil RM): 227,621
  - GDP Per Capita (RM/Capita): 103,460
  - Floorspace for commercial (mil m²): 54
- **2030**
  - GDP (mil RM): 399,013
  - GDP Per Capita (RM/Capita): 160,350

Source: Malaysia Department of Statistics (2011)
3.0 Kuala Lumpur Structure Plan 2020

Kuala Lumpur to be a World Class City by 2020

**Vision**

- World Class BUSINESS Environment
- World Class WORKING Environment
- World Class LIVING Environment
- World Class GOVERNANCE

- To enhance the role of Kuala Lumpur as an international commercial and financial centre
- To create an efficient and equitable city structure
- To enhance the city living environment
- To create a distinctive city identity and image
- To have an efficient and effective governance
Development Thrusts

1. Dynamic world Class Business City
2. Connectivity & Accessibility
3. Sustainable Land Use
4. City Living Environment
5. Protecting & Enhancing the Environment
6. Enhancing Green Network & Blue Corridor
7. Distinctive Image & Identity
8. Green Infrastructure

Strategic Directions

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Key Initiatives

73
5.0 Smart Cities – Green Initiatives

- Green Industrial Sector
- Energy Efficient Buildings
- Green Resilient Infrastructure
- Greening of the city
- Low Carbon Transport Systems

Intelligent Systems

Source: Asian Development Bank
6.0 Greening Urban Sectors: Kuala Lumpur Initiatives

**Transport**
- Rail system
- Bicycle lane
- Bus system
- Pedestrian Network

**Buildings**
- Green Building Index (GBI)

**Waste**
- Reduce Reuse Recycle 3R program

**Water**
- River of Life
- Rain water harvesting

**Energy**
- Energy –efficient buildings
- Euro5 NGV for Public Transport

**Infrastructure & Digital Technology**
- Integrated Transport Information System (ITIS)

**Environment**
- Open spaces
- Tree Planting
- Vertical green
- Community garden
- Preserving Forest
Profile Development of Kuala Lumpur Low Carbon Society 2030

Consultancy and Research Team: Universiti Teknologi Malaysia (UTM), Kyoto University (KU), Okayama University (OU)

Joint Coordinating Committee: Kuala Lumpur City Hall (KLCH)

Study: Kuala Lumpur, Jurisdiction area fall under Kuala Lumpur City Hall

Period: 2016-2017

Base year: 2010

Target year: 2030

Objective:
To integrate existing plans and projects in the city of Kuala Lumpur that relate to climate change mitigation and low carbon measures into a comprehensive framework for implementation towards cutting the city’s CO2 emission intensity by 70% by 2030 without compromising the city’s vision and economic growth targets.
9.0 Key Finding: Kuala Lumpur GHG Emission

GHG Emission Intensity of GDP
Community engagement is a key component in the preparation of the Kuala Lumpur Low Carbon Society Blueprint 2030.
Cities are the main contributors to greenhouse gases (GHGs) emissions but also the key solution to combating climate change.

Kuala Lumpur as the primary city of Malaysia is committed to significantly contribute to achieving the national GHG reduction target.

Low carbon society is the way forward to a world class, prosperous, liveable and sustainable Kuala Lumpur.

Good scientific research is cornerstone to the formulation and effective implementation of LCS policies.

LCS policies that are built on rigorous science are effective for realising GHG emissions reduction.

Community engagement and consensus building are pivotal towards ensuring successful LCS strategies.

Highest-level government support greatly expedites LCS science to LCS actions.
Thank you for your attention!

Thank You Terima Kasih 谢谢 धन्यवाद ありがとう