



GREEN TECHNOLOGY: NATIONAL POLICY AND INITIATIVES OF MALAYSIA

BY:

MOHD ROSLI BIN HAJI ABDULLAH

**Ministry Of Energy, Green Technology & Water
MALAYSIA.**

CONTENT

- Introduction
- Green Initiatives
- International Cooperation



ESTABLISHMENT OF THE MINISTRY

Ministry of Energy, Green
Technology and Water,
Malaysia established in April
2009



Low Energy Office (LEO)

**Ministry of Energy, Green Technology and
Water (KeTTHA), Putrajaya**

THE NATIONAL GREEN TECHNOLOGY POLICY



National Green Technology Policy launched by Prime Minister of Malaysia 24 July 2009.



THE NATIONAL GREEN TECHNOLOGY POLICY

POLICY STATEMENT

“Green Technology shall be a driver to accelerate the national economy and promote sustainable development”



THE NATIONAL GREEN TECHNOLOGY POLICY

STRATEGIC THRUSTS

1. Strengthen The Institutional Frameworks
2. Provide A Conducive Environment For Green Technology Development
3. Intensify Human Capital Development In Green Technology
4. Intensify Green Technology Research And Innovations
5. Promotion And Public Awareness





NATIONAL GREEN TECHNOLOGY COUNCIL

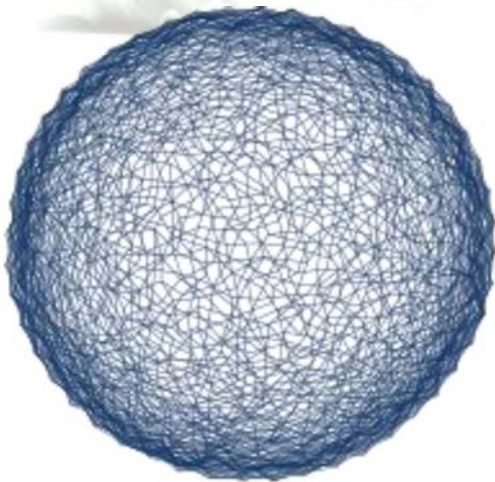
- promote high level coordination among Ministries, Agencies, the private sector and all other stakeholders
- chaired by the Prime Minister of Malaysia
- supported by a Steering Committee and seven working groups on Industrial Development, Innovation and R&D, Human Capital Development, Promotion and Education , Green Neighbourhood, Green Growth , Transportation





PM's Pledge at COP15

**United Nations Framework for Climate Change Convention
2009, Copenhagen**



**COP15
COPENHAGEN**
UN CLIMATE CHANGE CONFERENCE 2009



**To reduce carbon emission up to
40% in terms of emission intensity
of Gross Domestic Product (GDP)
by 2020 compared with its 2005
levels**



GREEN TECHNOLOGY INITIATIVES



MALAYSIAN GOVERNMENT INITIATIVES

1. GREEN TOWNSHIP IN PUTRAJAYA & CYBERJAYA



to develop Putrajaya and Cyberjaya as green cities, as a showcase for the development of other green townships in the country.



Well connected neighbourhood



Reduced carbon footprint



Thriving and vibrant economy



Green building



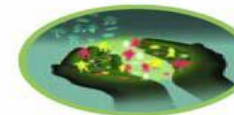
Environmentally friendly



Efficient use of resources



Well managed



Inclusiveness and equity



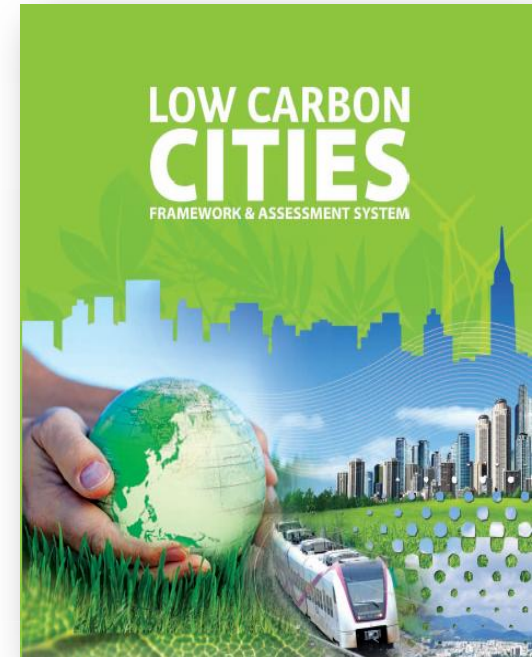
Sense of community and belonging

TRANSFORMING THE BUILT ENVIRONMENT

2. LOW CARBON CITY FRAMEWORK (LCCF)

Objective Of the LCCF

- To encourage and promote the Concept of green cities in Malaysia i.e. to reduce carbon emission in cities and townships
- To increase the compatibility of cities/ townships to their local natural system
- To guide cities in making choice/ decisions towards greener solutions



This document is also to assist local authorities in assessing whether any development to be carried out within the city contributes towards abatement of GHG.

PERFORMANCE CRITERIA FOR GHG REDUCTIONS

4 Elements for GHG Reductions in Cities and Townships



Urban Environment



- Site Selection
- Urban Form
- Urban Greenery & Air Quality



Urban Transportation



- Shift of Transport Mode
- Green Transport Infrastructure
- Green Vehicles
- Traffic Management



Urban Infrastructure



- Infrastructure Provision
- Waste
- Energy
- Water



Buildings



- Low Carbon Building
- Community Service

Elements Contribute to GHG emission






13 Performance Criteria*

35 Sub Criteria

*Performance Criteria are **measurable strategies** to reduce carbon emission through:- Policy control, technological dev., better process & product management, change in procurement system, carbon capture, consumption strategies & others.

LCCF IS A PERFORMANCE BASED SYSTEM

- The environmental achievements in a development are **defined by the sum of the CO2 reduction over the baseline CO2 emissions.**
- Projects/developments shall be awarded with the corresponding environmental performance achievements according to the achievement level.
- The maximum limit of 40% Co2 reduction aligns with the commitment made by Malaysia in arriving at the 2020 target.

Carbon Reduction Level	Level of Achievement
100%	Carbon Neutral
70-95%	Best Practice 5 (BP5) 
50-69%	Best Practice 4 (BP4) 
30-49%	Best Practice 3 (BP3) 
10-29%	Best Practice 2 (BP2) 
1%-9%	Best Practice 1 (BP1) 

3. MALAYSIA GREEN LABELLING PROGRAM (MGLP)

GOING GREEN

- Eco Design ● Energy Efficiency
- Dematerialization ● Toxic Substitution
- Pollution Prevention ● Waste Reduction

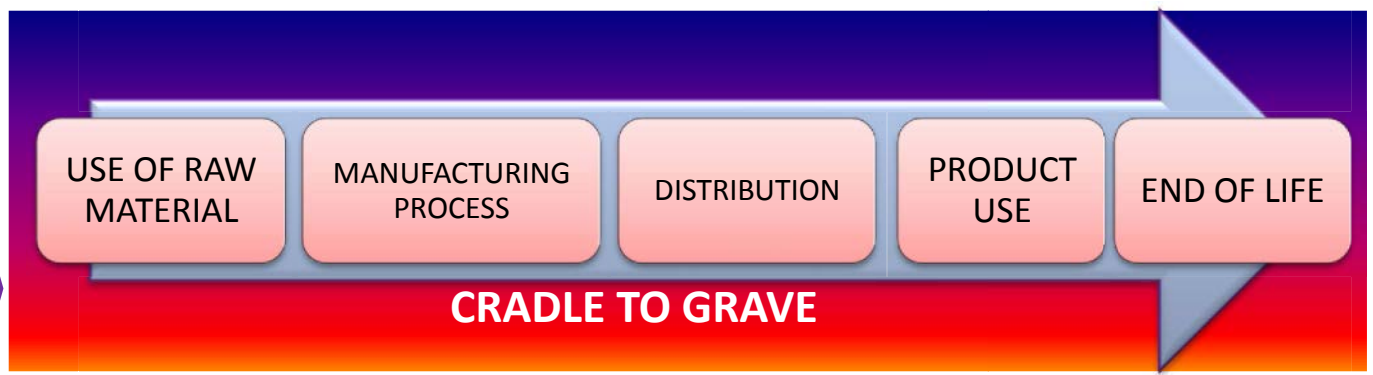
COMPLIANCE

To various standards is a must

- ISO
- IEC
- ITU
- MS
- RSPO
- FSC

DRIVERS

- Market Demand
- GOVERNMENT
- CONSUMER
- NGOs



SECTORS OF FOCUS



E&E : SMART HOME APPLIANCES
(Domestic fan and air conditioner)



CONSTRUCTION : BUILDING MATERIALS
(Ceramic tiles /cement roof tiles & Paint)



1. Malaysia Green Labelling Program

- National Eco Labelling Program
- Energy Star Rating
- Carbon Footprint

2. Government Green Procurement (GGP)

- in collaboration with Ministry of Finance
- pilot programs in selected Ministries



3. Industrial/ SME development

- in collaboration with various agencies

4. Intensify Human Capital Development In Green Technology

- seminars, Training of Trainers

5. Promotion And Public Awareness

- campaigns, Malaysia Green Directory

4. TRANSFORMING THE ENERGY SECTOR

In April 2010 the government approved the RE Policy and Action Plan.

RE Act and Sustainable Energy Development Authority Act has being approved by parliament last year. The Feed in Tariff mechanism have been introduced in December 2011.

RE Capacity is expected to increase from 73 MW in 2011 to 2,080 MW in 2020. By 2030, RE generation is estimated to grow to about 3,000 MW.



RENEWABLE ENERGY

5. TRANSFORMING THE TRANSPORT SECTOR



infrastructure
roadmap for the
use of electric
vehicles in
Malaysia.

Vehicle Fleet Test
being conducted in
Putrajaya by
PROTON

Pilot project with
OEMs in Kuala
Lumpur



ELECTRIC VEHICLES



6. INTERNATIONAL GREENTECH AND ECO PRODUCTS EXHIBITION AND CONFERENCE MALAYSIA (IGEM) 2012



Date

10 – 13 October 2012

Venue

Kuala Lumpur
Convention Center



- Exhibition
- Conference/Seminar
- Cooperation between local and foreign universities
- Workshops
- Documentaries / Videos
- *Business Matching Sessions*
- *Business Networking*

7. GREEN TECHNOLOGY FINANCING SCHEME

- RM1.5 billion soft loan
- Up to RM50.0 million for producers and RM10.0 million for users of green technology
- 2% interest subsidy by the government
- 60% government guarantee
- 140 companies are expected to benefit from the scheme



OTHER INITIATIVES

- Green Technology Baseline Study
- Green Technology Master Plan
- Baseline Study for Low Carbon Green Growth Act

International Cooperation with Japan

- Baseline and Action Plan for Putrajaya and Cyberjaya with NEDO
- Green ICT with MEITI



THANK YOU!



**Green Technology Sector
Ministry of Energy, Green Technology
and Water**

**Level 3, Block E4/5, Parcel E
Federal Government Administrative
Centre, 62668 PUTRAJAYA**

Tel: +603-8883 6000

Fax: +603-8889 3629

E-mail: webmaster@kettha.gov.my

Website: <http://www.kettha.gov.my/>