



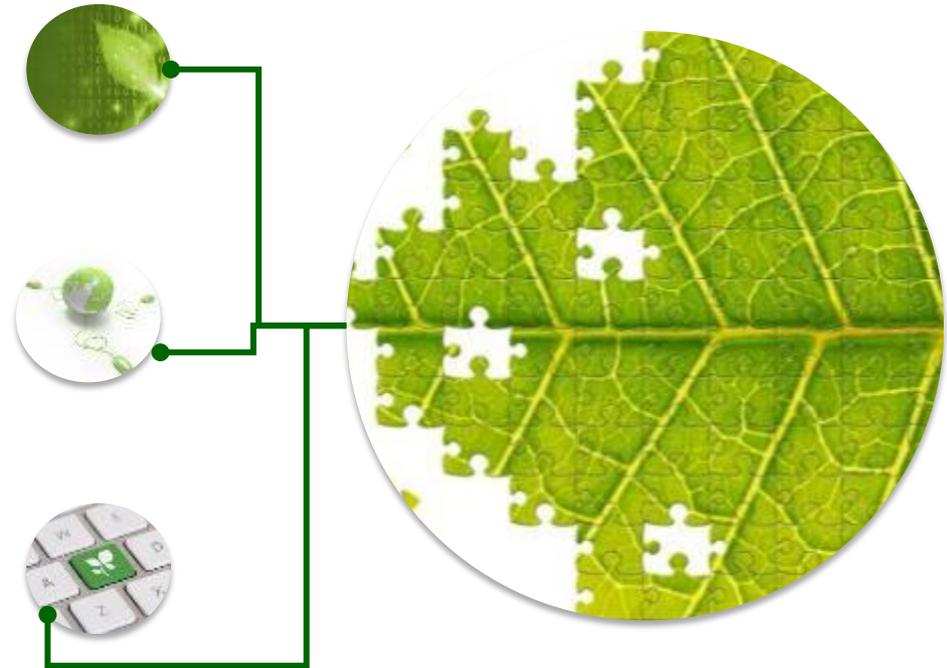
# Green Technology Initiatives in Malaysia

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9th Jun 2014

MALAYSIAN GREEN TECHNOLOGY CORPORATION

- About GreenTech Malaysia
- Roles and Functions
- Current initiatives



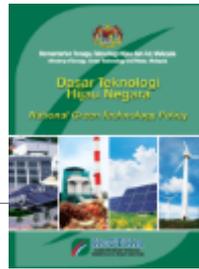
# ABOUT GREENTECH MALAYSIA



- Registered under the Companies Act 1965 as a company limited by guarantee and not having a share capital.
- First established as Pusat Tenaga Malaysia (PTM) on 12<sup>th</sup> May 1998.
- Restructured as Malaysian Green Technology Corporation (GreenTech Malaysia) on 7<sup>th</sup> April 2010.
- **Purpose: Nation's lead corporation catalysing Malaysia's growth as a global hub for green technology**



# ALIGNED TOWARDS GOALS OF NATIONAL GREEN TECHNOLOGY POLICY



## Short-Term Goals:

- Increase public awareness and commitment for GT adoption and application => advocacy programmes;
- Widespread availability and recognition of GT => standards, rating and labelling programmes;
- Increase FDIs and DDIs in GT;
- Expansion of local RDIs.
- Key sectors: energy, buildings, water & waste, transport.

10<sup>th</sup> Malaysia Plan

2011

## Mid-Term Goals:

- GT becomes the preferred choice in procurement;
- Increase GT's local market share and contribution to regional markets;
- Increase production of local GT products;
- Increase of GT RDICs by industry and MNCs;
- SMEs and SMI ventures in global GT markets;
- GT expands to include most economic sectors.

11<sup>th</sup> Malaysia Plan

2016

## Long-Term Goals:

- Inculcate of GT in Malaysian culture;
- Reduce overall resource consumption via widespread adoption of GT while sustaining national economic growth;
- Significantly reduce national energy consumption;
- Improve Malaysia's ranking in environmental ratings;
- Position Malaysia as a major producer of GT in global market;
- Expand international collaborations between local RIs and GT industries.

12<sup>th</sup> Malaysia Plan & Beyond

2021



# PURPOSES & FOCUS AREAS

**Purpose: To catalyse green technology deployment as a strategic engine for Malaysia's economic growth**

**Goal: Establish Malaysia as a world hub for Green Technologies**

**Focus Area 1:**  
Awareness  
and  
Promotion  
Programmes

**Focus Area 2:**  
Competency  
and Capacity  
Development  
programmes

**Focus Area 3:**  
Market  
Enhancement  
and  
Infrastructure  
Development  
programmes

**Focus Area 4:**  
Industry  
Development  
and  
Technology  
Transfer  
Programme

**Focus Area 5:**  
Policies and  
Financing  
Mechanism  
Programmes

**Impact of Green Technology adoptions and deployment:**  
**Environment:** reduction of carbon emission;  
**Economy:** increase in GNI/GDP and investments;  
**Social:** increase in high income jobs and knowledge workers;  
**Energy:** reduction of fossil-fuelled power and increase in renewable power.

# CURRENT INITIATIVES

**Purpose: To catalyse green technology deployment as a strategic engine for Malaysia's economic growth**

**Goal: Establish Malaysia as a world hub for Green Technologies**

## Focus Area 1 (Awareness):

- [1] Green Tech Portal & Database;
- [2] Comm Plan & Awareness;
- [3] IGEM;
- [4] My Green carnivals;
- [5] Green Kids.

## Focus Area 2 (Capacity Dev):

- [1] AEMAS Training;
- [2] MyHIJAU Training;
- [3] Green Tech NOSS development.

## Focus Area 3 (Market Dev):

- [1] Green Township;
- [2] Green Procurement;
- [3] Green Label, Standard, Certification;
- [4] Energy Audit;
- [5] CDM Energy Secretariat.

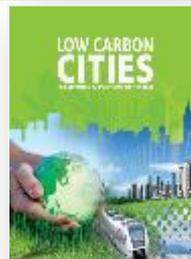
## Focus Area 4 (Industry Dev):

- [1] Green Directory;
- [2] Green Jobs;
- [3] Industrial & SME Dev;
- [4] Green ICT.



## Focus Area 5 (Policy & Finance):

- [1] GT Roadmap;
- [2] GT Financing Scheme;
- [3] EV Roadmap;
- [4] Low Carbon Green Growth Act ;
- [5] GHG Inventory.



# GEO BUILDING

GEO building – officiated by YAB PM on 24<sup>th</sup> July 2009.

First building in Malaysia to be certified as a Green Building



- Passive design
- Daylighting (almost 100%)
- Double glazing
- Insulation
- EE lighting, task lights, office equipment,  
EE air conditioning & ventilation
- Floor slab cooling
- Thermal energy storage
- Controls & sensors
- Solar PV and load shifting

Winner of 2009 ASEAN  
Energy Award (RE Category)



# CURRENT INITIATIVES: GREEN TECHNOLOGY & CLIMATE CHANGE COUNCIL

- Chaired by YAB Prime Minister:
  - 1<sup>st</sup> Council meeting: 26<sup>th</sup> January 2010;
  - 2<sup>nd</sup> Council meeting: 14<sup>th</sup> December 2010;
  - 3<sup>rd</sup> Council meeting: 11<sup>th</sup> August 2011;
  - 4<sup>th</sup> Council meeting: 23<sup>rd</sup> October 2012;
  - 5<sup>th</sup> Council meeting 6<sup>th</sup> January, 2014



## 8 Working Committees:

Industry, Human Capital, Research & Innovation, Promotion & Public Awareness, Transportation, Adaptation, Green Neighbourhood, Green Growth



# CURRENT INITIATIVES: PROMOTION & AWARENESS



IGEM



Green Carnivals



Green Kids



Youth Programme



Green Jobs Portal



- ASEAN Energy Manager Accreditation Scheme (AEMAS) was launched on 19<sup>th</sup> July 2011
- Train and certify energy managers who will then implement sustainable energy management systems within their industries/companies.

## Objectives:

- To reduce energy consumption from the industrial sector in ASEAN countries by 100,000 MWh;
- To reduce emissions of greenhouse gases by 55,000 t-CO<sub>2</sub> equivalent in ASEAN countries ; and
- To increase the professional standing of accredited energy managers

## Status (June 2014):

- 25 EMTCs conducted
- >500 EMs Certified
- 14 Local Trainers Certified
- 2 Local Auditor Certified
- 4 Organizations Certified EMGS



# CURRENT INITIATIVES: GREEN TOWNSHIP & LOW CARBON CITIES

## Green Township and Low Carbon Cities

- To promote development of green towns and cities in Malaysia.
- Impact: Green towns and cities provide high quality living to the Rakyat → addressing aspects of planning, resources, construction, operation, maintenance, waste, water, ICT, transport, infrastructure, and life cycle.



## Action plan: to enhance local green cities framework and establish international cooperation.

- To strengthen local industry/players interaction.
- To establish twin green towns/cities and international network.
- To enhance green financing opportunities.



# GREEN TOWNSHIP PROJECT DESCRIPTION

## DEVELOPMENT GOAL

To encourage the development of low carbon urban growth in Malaysia with the use of the LCCF mechanism and other relevant tools and guidelines.  
 To facilitate the move towards a low carbon society through the provision of advisory services and technical assistance to the local authorities as well as township and building developers.

## PURPOSE

Facilitation in analysing existing conditions of environment and identification of starting points for low carbon deployment strategies to : **SJ City Council**, **PJ City Council**, **HTJ Town Council** and **Iskandar Malaysia**



GREENHOUSE GAS EMISSION REDUCTION



**Urban Environment**



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



**Urban Transportation**



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



**Urban Infrastructure**



- Infrastructure Provision
- Waste
- Energy
- Water



**Buildings**



- Low Carbon Building
- Community Service

# CURRENT INITIATIVES: ELECTRIC VEHICLES (EV)



Promote Malaysia as the EV manufacturing hub:

- To produce right hand drive EV for world's market
- Impact: High-tech manufacturing in Malaysia → creates eco-system, supply chain
- Impact: Generate new FDIs and DDIs, high skill & income jobs

# CURRENT INITIATIVES: GREEN TECHNOLOGY FINANCING SCHEME

## HERE'S A BIG REASON TO GO GREEN

As of 30 APRIL 2014

Total GTFS Allocation to the Scheme	3,500,000,000.00
Total Approved Financing by Financial Institutions	1,819,564,732.00
Balance of GTFS Allocation	1,680,435,268.00
Total Number of Projects Financed	131
Total Number of Expected Green Jobs Created from Financed Projects	1,853
Total Anticipated Amount of CO <sub>2</sub> Avoided from Financed Projects (tCO <sub>2</sub> e/year)	2,146,871.03

### GREEN TECHNOLOGY FINANCING SCHEME



\* The Scheme will expire on 31 December 2015 or upon reaching financing approval of RM3.5 billion, whichever is earlier

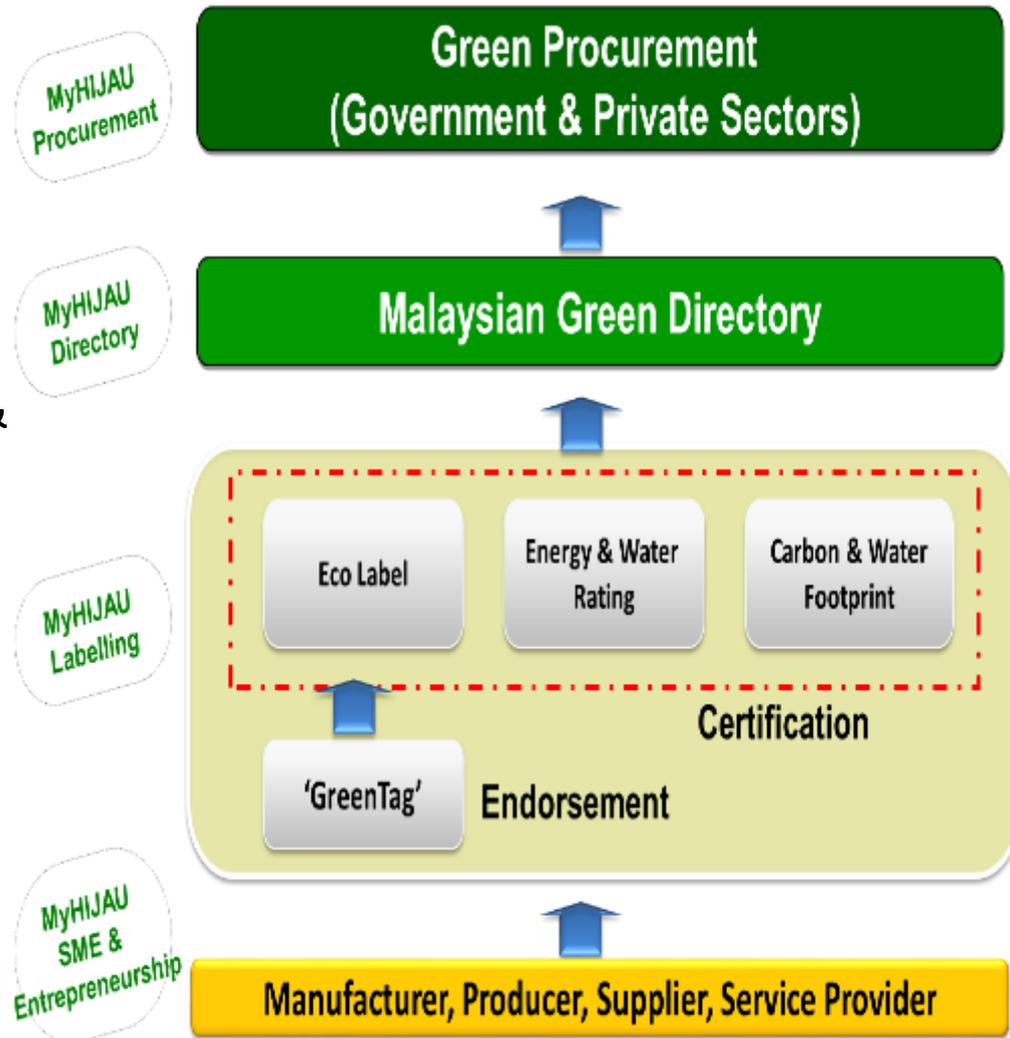
# CURRENT INITIATIVES: MYHIJAU PROGRAMME

## MyHIJAU eco-system:

- To promote and encourage green products/appliances and green procurement in local market.
- Impact: local green market expansion, leads to sustainable economic activities (consumption & production), and creates new economic opportunities.

## Action plan: to initiate pilot initiative + lead by example.

- MGTC is initiating pilot initiatives with MOF, PDRM, TNB.



# MyHIJAU PROGRAMME

Sustainable  
Consumption

MyHIJAU Procurement



MyHIJAU Directory



Sustainable  
Production

MyHIJAU Labelling



MyHIJAU  
SMEs & Entrepreneur





***“Catalysing green technology deployment as a strategic engine for Malaysia’s economic growth”***

# THANK YOU

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