





- BACKGROUND
- THE NATIONAL GREEN TECHNOLOGY POLICY
- PROGRAMMES/ ACTIVITIES FOR 2010





ESTABLISHMENT OF MINISTRY OF ENERGY, GREEN TECHNOLOGY AND WATER (KeTTHA)

APRIL 2009

Ministry of Energy, Green Technology and Water was established during the Cabinet reshuffle





LAUNCHING OF THE NATIONAL GREEN TECHNOLOGY
POLICY

Rememberian Tenaca, Teknologi Hijau Dan Air

24 JULY 2009

National Green Technology Policy was launched by the Prime Minister of Malaysia





DEFINITION OF GREEN TECHNOLOGY



The development and application of products, equipment and systems

used to conserve the natural environment and resources, which minimizes and reduces the negative impact of human activities.

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CRITERIA OF GREEN TECHNOLOGY

- Minimizes degradation to the environment;
- Has zero or low green house gas (GHG) emission
- Safe for use and promotes healthy and improved environment for all forms of life;
- Conserves the use of energy and natural resources; and
- Promotes the use of renewable resources





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



OBJECTIVES



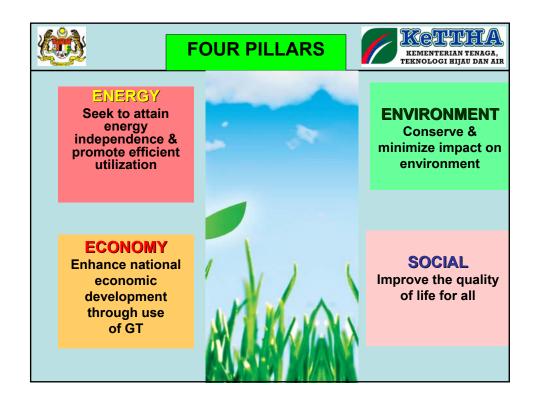
- To minimize growth of energy consumption while enhancing economic development;
- To facilitate the growth of GT industry & enhance its contribution to national economy;
- To increase national capability and capacity for innovation in GT development & enhance Malaysia's competitiveness in global arena; (contd)



OBJECTIVES (contd)



- To ensure sustainable development & conserve environment for future generations;
- To enhance public education & awareness on GT and encourage its widespread use.







SECTORS IN GREEN TECHNOLOGY

ENERGY SECTOR

- Energy Supply
- Energy Utilisation



BUILDING SECTOR



TRANSPORTATION SECTOR



WATER & WASTE MANAGEMENT SECTOR





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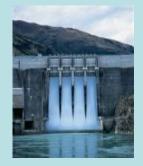


ENERGY SECTOR

Application of Green Technology in power generation and in the energy supply management by the industrial and commercial sectors







Application of Green Technology in all energy utilisation sectors and in demand side management programmes





BUILDING SECTOR

Adoption of Green Technology in the construction, management, maintenance and demolition of buildings









WATER & WASTE MANAGEMENT SECTORS

Adoption of Green Technology in the management and utilisation of water resources, waste water treatment, solid waste and sanitary landfill







TRANSPORTATION SECTORS





Incorporation of Green Technology in the transportation infrastructure and vehicles, in particular, biofuels and public road transport









Short-Term Goals



10th Malaysia Plan (2011-2015)

- Increased public awareness and commitment for the adoption and application of GT;
- Widespread availability and recognition of GT (products, appliances, equipment and systems) in local market;
- Increased foreign and domestic direct investments (FDIs and DDIs) in GT; and
- Expansion of local research institutes and institutions of higher learning



Mid-Term Goals 11th Malaysia Plan (2016 – 2020)



- GT the preferred choice in procurement of products & services;
- · Larger local market share in GT,
- Increased production of local GT products;
- Increased Research Development & Innovation of GT by local universities and research institutions
- Expansion of local SMEs and SMIs on GT into global market;
- Expansion of GT applications to most economic sectors.



Long-Term Goals



12th Malaysia Plan (2020 – 2024) and beyond

- Inculcation of GT in Malaysian culture;
- reduces overall resource consumption while sustaining national economic growth;
- Significant reduction in national energy consumption;
- Improvement of Malaysia's ranking in environmental ratings;
- Malaysia a major producer of GT in the global market;
- Expansion of international collaborations between local universities and research institutions with GT industries.



Strategic Thrust 1



STRENGTHEN THE INSTITUTIONAL FRAMEWORKS

- Formation of a GT Council
- Establishment of the Malaysia GT Agency
- Review and establish legal mechanisms
- Enhancement of institutional clarity



Strategic Thrust 2



PROVIDE CONDUCIVE ENVIRONMENT FOR GT DEVELOPMENT

- innovative economic instruments, including monetary and fiscal measures
- strengthening the understanding of local players in GT industries
- promotion of FDIs and DDIs
- establishment of strategic GT hubs
- establishment of GT funding mechanism



STRATEGIC THRUST 3



INTENSIFY HUMAN CAPITAL DEVELOPMENT IN GT

- training & education programs to improve human resource capacity
- financial & fiscal incentives for students to pursue GT disciplines
- retraining programme & scheme to enhance competency of semi-skilled labour
- grading & certification mechanisms for competent personnel
- brain gain programs



STRATEGIC THRUST 4



INTENSIFY GT RESEARCH AND INNOVATIONS

- financial grants in RDIC
- Establishment of a coordinating agency for RDI and centre of excellence or new research institute for GT development
- smart partnerships between the Government, industries, and research institutions
- strong linkages between local research institutions and regional and international centres of excellence in GT RDI



STRATEGIC THRUST 5



PROMOTION AND PUBLIC AWARENESS

- information dissemination
- involvement of media, NGOs and individual stakeholders
- development of syllabus in education system
- demonstration programs of effective GT applications
- Adoption of GT in all Government facilities





THE GREEN TECHNOLOGY COUNCIL

- High level coordination forum for government ministries, agencies, private sectors and key stakeholders
- Chaired by the PM
- Supported by a steering committee and 4 working groups
- The first GT Council was held on 26 January 2010

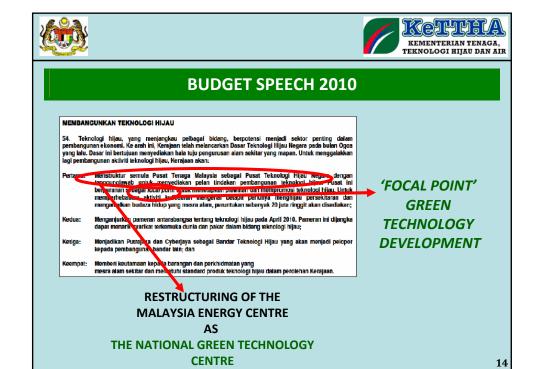


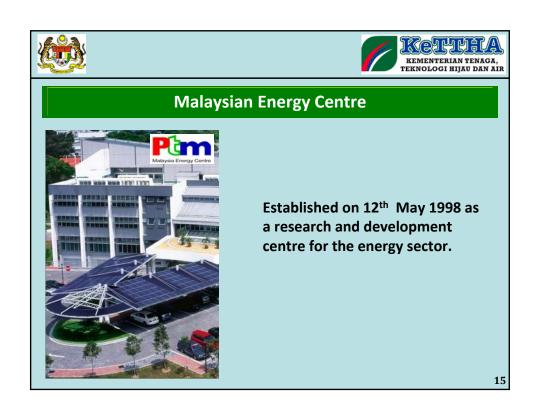


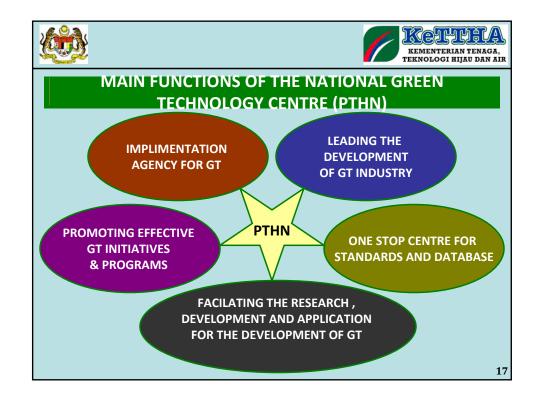


PROGRAMME

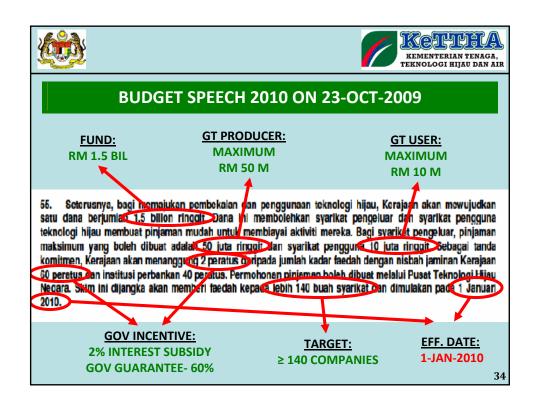
RESTRUCTURING OF MALAYSIA ENERGY CENTRE (PTM) AS THE NATIONAL GREEN TECHNOLOGY CENTRE (PTHN)

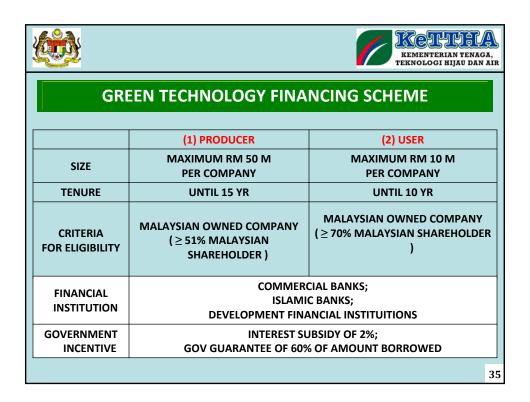


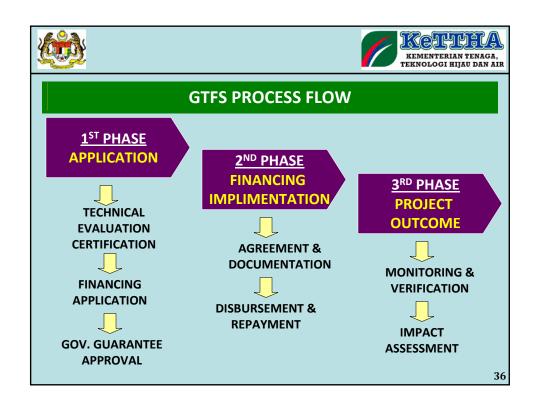




















PROGRAMME

ROADMAP ON GREEN TECHNOLOGY

- A Roadmap on Green Technology will be prepared this year
- PTHN is tasked to come up with the road map





PROGRAMME

GREEN PROCUREMENT AND LABELING FOR GT

- KeTTHA is working with Ministry of Finance on mechanism for Green Procurement to be implemented for government agencies
- KETTHA is working with SIRIM to develop standards, certification and labeling mechanism to support this





PROGRAMME

PROMOTION & PUBLIC AWARENESS ON GT

- KeTTHA will undertake a promotion and public awareness programme
- To increase awareness of GT among the stakeholders and general public
- To involved media and NGOs





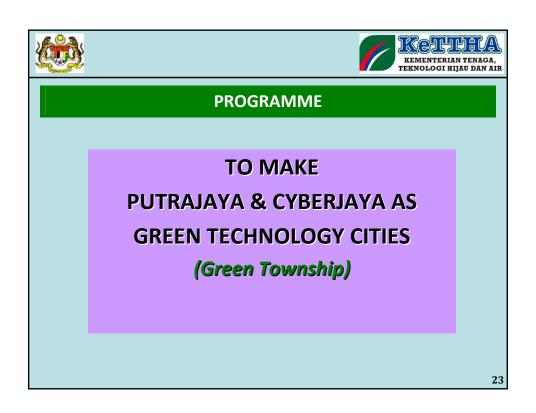
PROGRAMME

INTERNATIONAL CONFERENCE AND EXHIBITION ON GREEN TECHNOLOGY 2010



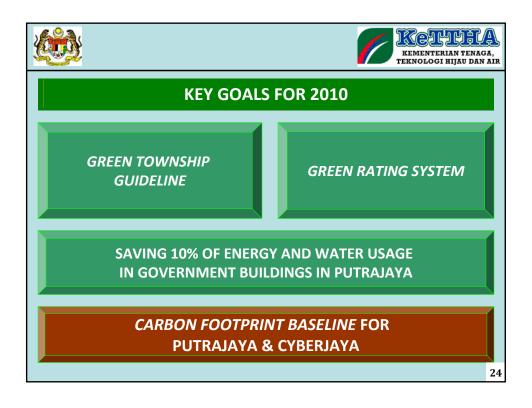




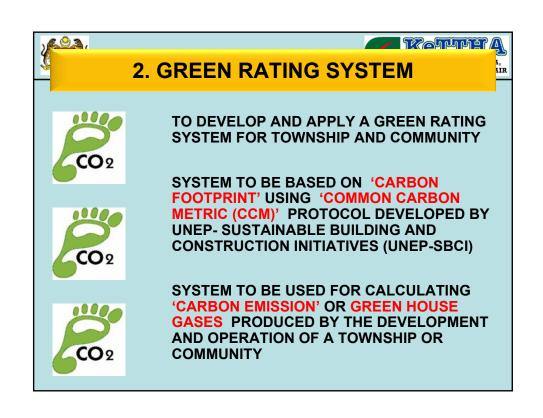


GREENING OF PUTRAJAYA AND CYBERJAYA

- During the Budget Speech in October 2009 the Prime Minister informed that the government will:
 - "Develop Putrajaya and Cyberjaya as pioneer townships in Green Technology, as a showcase for the development of other townships."











3. SAVING 10% OF ENERGY AND WATER USAGE IN GOVERNMENT BUILDINGS IN PUTRAJAYA







TO IMPLEMENT THE FOLLOWING ACTIVITIES:-

- 1. SEMINARS AND AWARENESS CAMPAIGNS
- 2. BASIC TRAINING ON ENERGY AND 3. WATER MANAGEMENT TO USERS'S BUILDING MANAGERS
- 4. TECHNICAL ADVISORY SERVICES
- 5. A COMMITTEE OF ALL
 STAKEHOLDERS AND USERS TO
 OVERSEE AND COORDINATE
 ACTIVITIES

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OTHER ACTIVITIES

- CONFERENCES AND WORKSHOPS
- COLLECTION OF DATA FOR THE GREEN RATING SYSTEM
- DEMONSTRATION PROJECTS ON GREEN TECHNOLOGY
- RETROFITTING OF THE PRIME MINISTER'S OFFICE BUILDING BY KETTHA & PWD
- RECYCLING AND COMPOSTING PROJECT PUTRAJAYA CORPORATION (PJC)
- ➤ ROADMAPS AND DEVELOPMENT PLAN BY PUTRAJAYA CORPORATION, PUTRAJAYA HOLDINGS, CYBERVIEW SDN. BHD AND SEPANG MUNICIPAL COUNCIL IN DEVELOPING THE GREEN TOWNSHIP CONCEPT IN PUTRAJAYA & CYBERJAYA

AGENCIES INVOLVED		
LOCAL GOV.	Putrajaya Corporation (PJC)	Sepang Municipal Council
Township Developer	Putrajaya Holdings	Cyberview Sdn Bhd
Operator / Owner / Managers	PWD Putrajaya, Bahagian Perumahan & Hartanah (BPH- JPM) & PJC	Cyberview Sdn Bhd & Multimedia Development Corp. (MDEC)
Project Implementor	KeTTHA, PTHN	
Others	Kementerian Wilayah Persekutuan & Kesejahteraan Bandar Ministry of Natural resources and Environment(NRE) Ministry of Housing and Local Government (KPKT) Dept. Of Town and Country Planning Institut Sultan Iskandar Institute (ISI-UTM) Malaysia Green Building Confederation (MGBC) Malaysia Institute of Planners (MIP) National Hydraulic Research Inst.	

