

Development of National GHG Inventory System: The Malaysia Experience

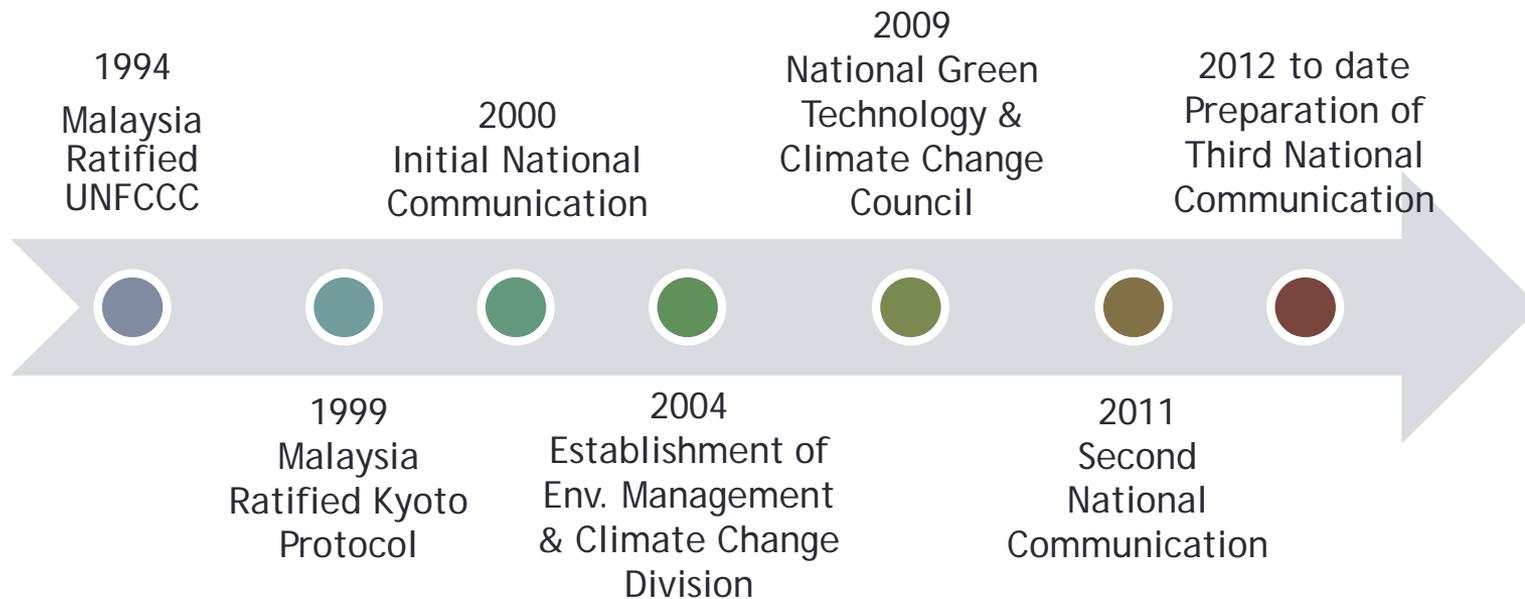
11th Workshop on GHG Inventories in
Asia (WGIA11)



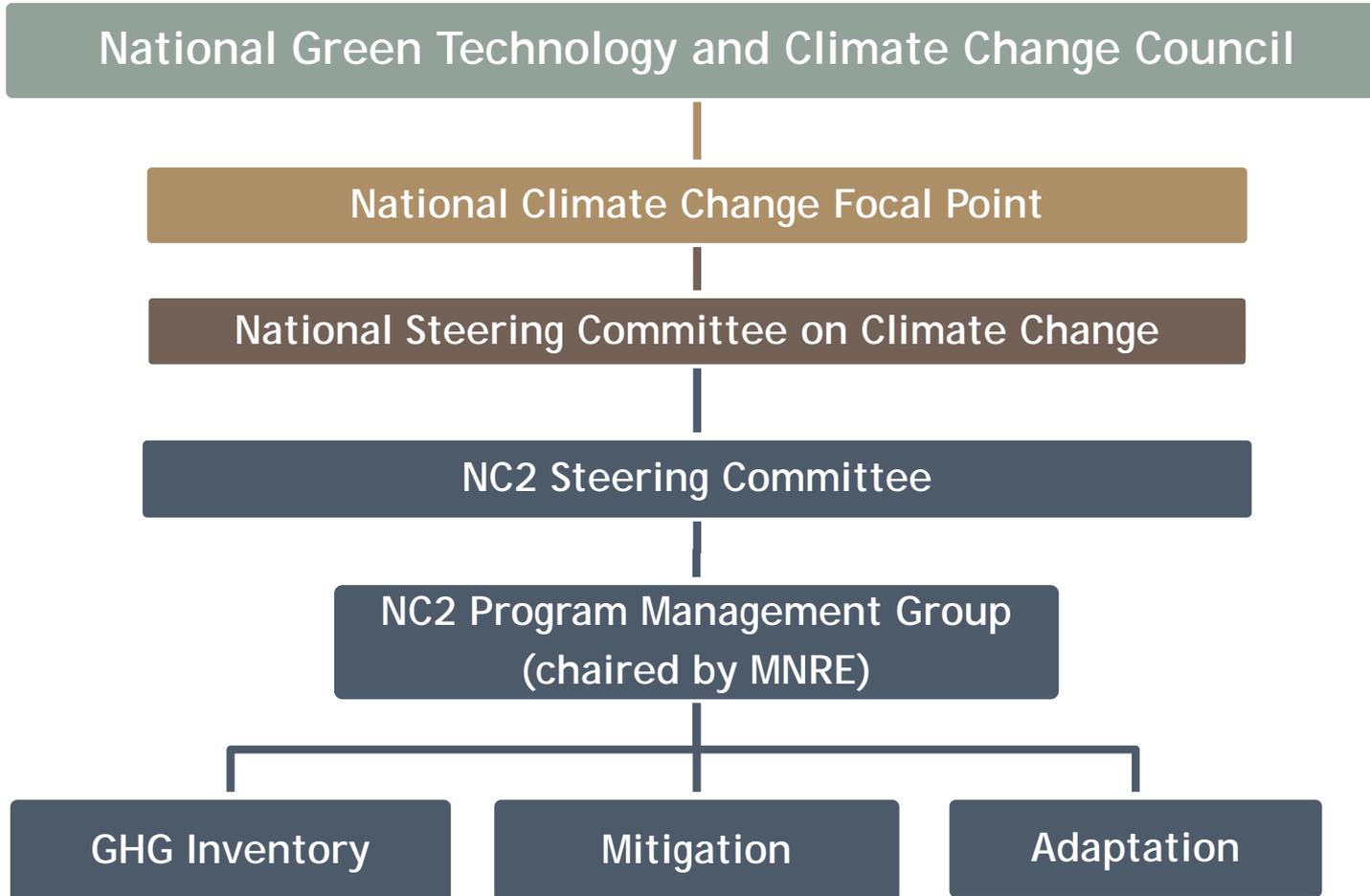
Department of Environment
Ministry of Natural Resources & Environment
MALAYSIA

OVERVIEW

MALAYSIA CLIMATE CHANGE ACTION



INSTITUTIONAL ARRANGEMENTS



NATIONAL GREEN TECHNOLOGY & CLIMATE CHANGE COUNCIL

National Green Technology & Climate Change Council
(NGTCCC)

To formulate policies and identify the strategic issues in the National Green Tech Policy development and climate change.

Advise NGTCCC the following matters:

- 1) Coordination and cooperation between various government agencies;
- 2) Effective government policies and their implementation;
- 3) Improving the fiscal and support mechanisms
- 4) Assessment of national policy mechanisms to support objectives & policies of Green Technology and Climate Change Policy.

Advisory Panel

Steering Committee

Industry

Green Development

Human Capital

Research & Innovation

Promotion & Public Awareness

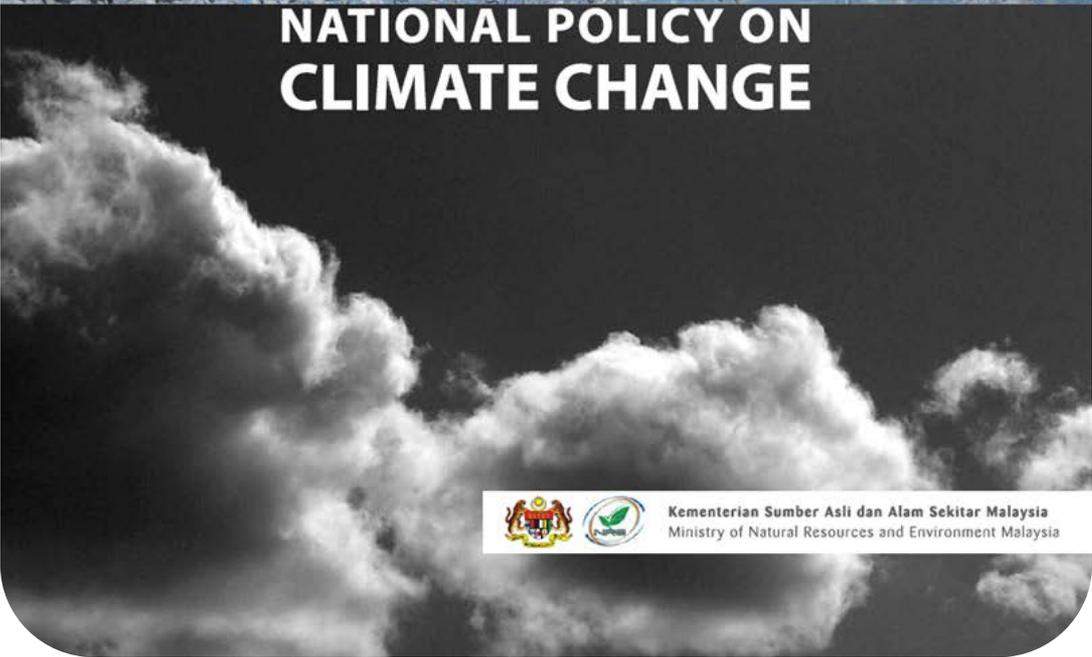
Transportation

Green Neighborhood

Adaptation



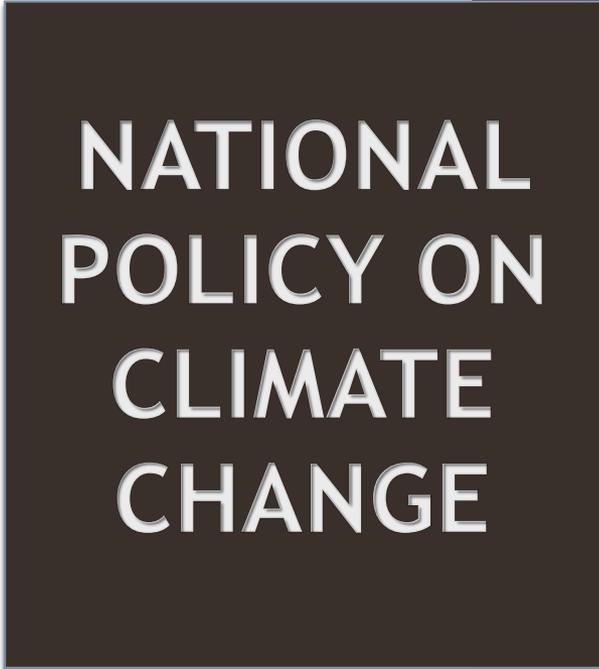
**DASAR PERUBAHAN
IKLIM
NEGARA**



**NATIONAL POLICY ON
CLIMATE CHANGE**

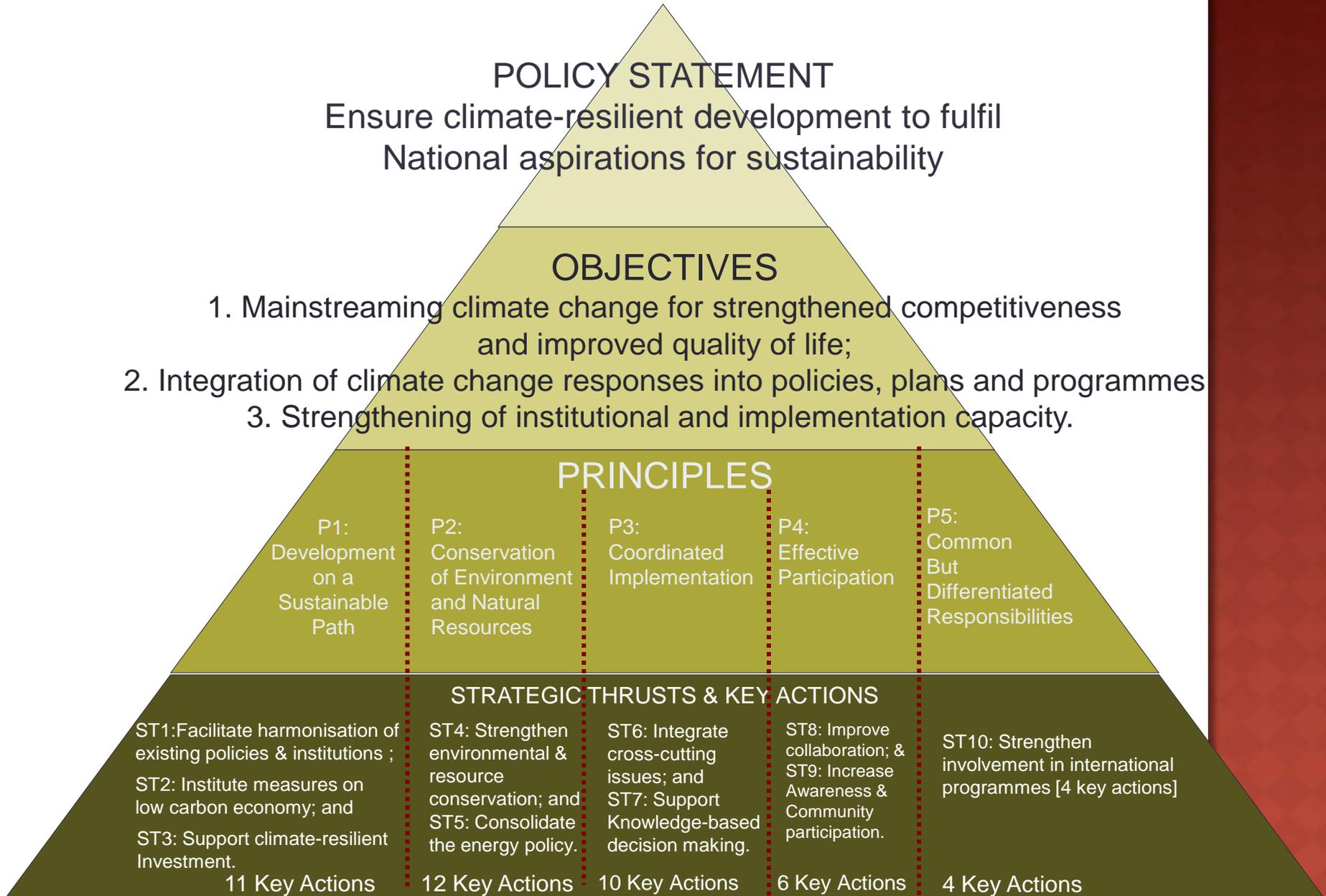


Kementerian Sumber Asli dan Alam Sekitar Malaysia
Ministry of Natural Resources and Environment Malaysia



**NATIONAL
POLICY ON
CLIMATE
CHANGE**

NATIONAL POLICY ON CLIMATE CHANGE



GHG INVENTORY WORKING GROUP



Energy Sector
Malaysian Green Technology Corporation (MGTC)



Industrial Processes & Product Use (IPPU)
Malaysian Green Technology Corporation (MGTC)



Agriculture
Malaysian Agricultural Research & Development Institute (MARDI)

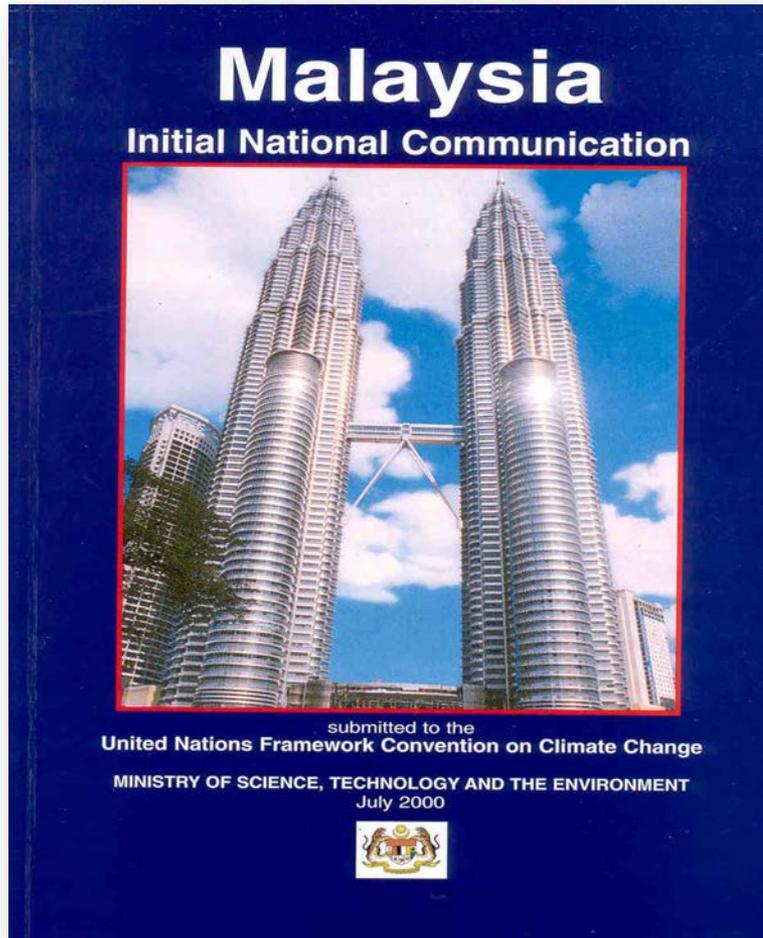


Land Use, Land Use Change and Forestry
Forest Research Institute Malaysia (FRIM)

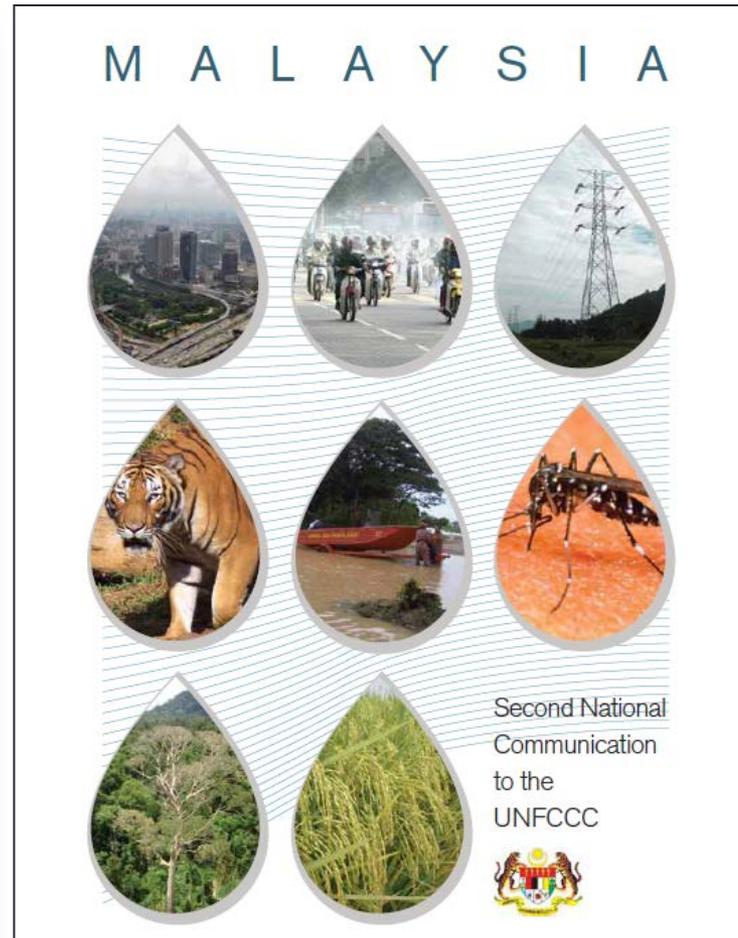


Waste Sector
Department of Environment (DOE)

NATIONAL COMMUNICATION



SUBMITTED IN 2000



SUBMITTED IN 2011

MALAYSIA PLEDGE AT COP 15, COPENHAGEN 2009

"This indicator is conditional on receiving the transfer of technology and finance of adequate and effective levels from our Annex 1 partners..."

*"...to announce here in Copenhagen that Malaysia is adopting an indicator of a voluntary reduction of up to 40% in terms of **emissions intensity** of GDP by the year 2020 compared to 2005 level..."*

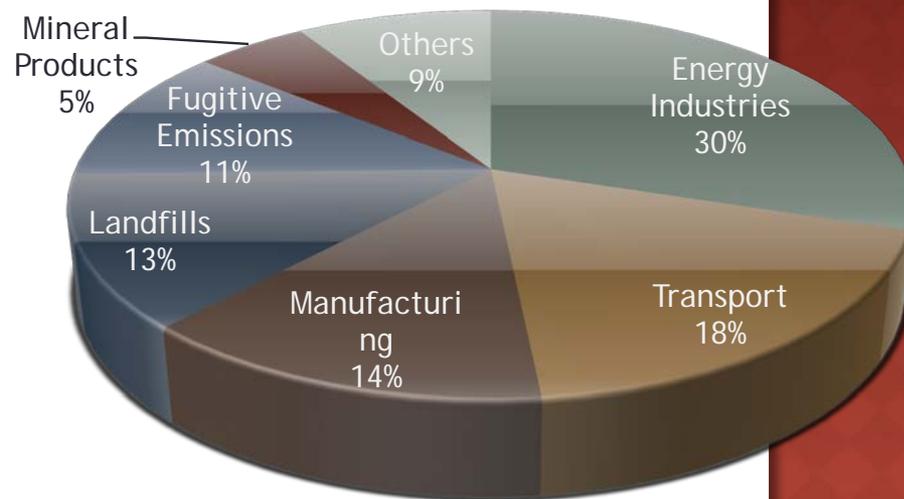
COPENHAGEN COP15



UNITED NATIONS
CLIMATE CHANGE
CONFERENCE 2009

MAJOR SOURCES OF GHG EMISSION IN MALAYSIA (YEAR 2000)

SOURCES	EMISSIONS (Gg CO ₂ eq)	%
Energy Industries	58,486	30.0
Transport	35,587	18.4
Manufacturing	26,104	13.5
Landfills	24,541	12.7
Fugitive Emissions from Oil & Gas Systems	21,987	11.4
Mineral Products	9,776	5.1
Others	17,060	8.9



IMPROVEMENTS IN SECOND NATIONAL COMMUNICATION

- Revised 1996 IPCC Guidelines were used.
 - INC -1995 IPCC Guidelines
- Key categories disaggregated and expanded in Energy Sector.
 - INC - Reference Approach
 - SNC - Sectoral Approach
- Additional key categories are included in IPPU & LULUCF sector.
- Good Practice Guidance (2000) characteristics are adopted to improve transparency, consistency, comparability, completeness and accuracy in the inventory.

KEY CATEGORIES	INC 1994	SNC 2000
<u>Industrial Processes</u>		
Mineral Products		
▪ Cement production	/	/
▪ Lime production	-	/
▪ Limestone & dolomite production	-	/
Chemical Industry		
▪ Ammonia production	-	/
▪ Nitric Acid production	-	/
▪ Carbide production	-	/
▪ Petrochemicals	-	/
Metal Production		
Iron & Steel production	-	/
<u>Land Use, Land Use Change & Forestry</u>		
Natural Forest		
▪ Permanent forest reserve	-	/
▪ State land	-	/
Plantation Forest	/	/
Plantation Crops		
▪ Rubber	/	/
▪ Oil Palm	/	/
Urban Forestry	-	/
Bamboo & Rattan	-	/
Abandonment of Managed Land	-	/
Soil	-	/

KEY CATEGORIES COMPARISON BETWEEN INC & SNC

FUTURE IMPROVEMENTS

- ◉ Development of National GHG Inventory Software (adapted from IPCC 2006 Inventory Software).
- ◉ National Corporate Reporting Program (MyCarbon) on voluntary basis.
- ◉ Studies to develop country specific emission factors.
- ◉ Knowledge development for GHG inventory compiler in various agencies.

THANK YOU