



**KEMENTERIAN TENAGA, SAINS, TEKNOLOGI,
ALAM SEKITAR DAN PERUBAHAN IKLIM**
MINISTRY OF ENERGY, SCIENCE, TECHNOLOGY, ENVIRONMENT & CLIMATE CHANGE



WORKSHOP OF THE ASIA REGIONAL GROUP 2019

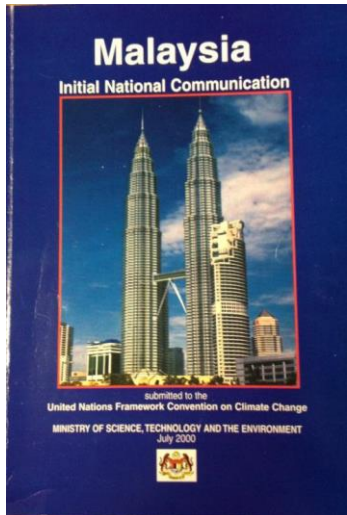
Challenges & Lessons Learned from BURs & ICA
26 April 2019

NORZARIFAH ISMAIL

Senior Analyst

**CHAMPIONING
GREEN ECONOMY**

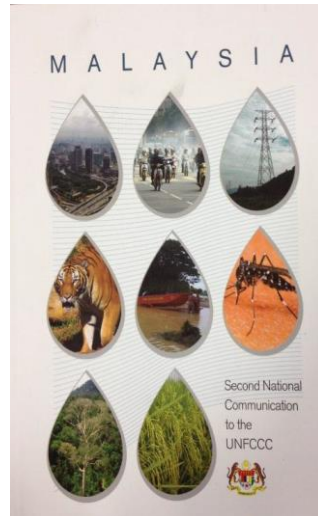
BRIEF HISTORY OF MALAYSIA'S NATIONAL REPORTING



22 August 2000

Initial National Communication (INC)

© Malaysian Green Technology Corporation (2018) All Rights Reserved



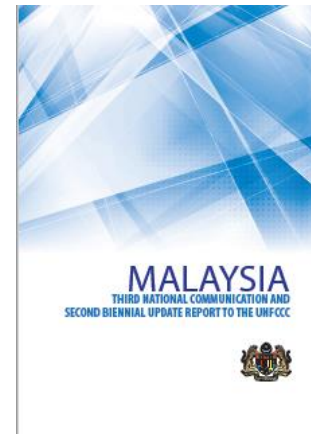
14 April 2011

Second National Communication (INC)



3 March 2016

First Biennial Update Report (BUR)



27 September 2018

Third National Communication & Second BUR



- Third Biennial Update Report– 27 September 2020

CHALLENGES IN REPORTING & ICA



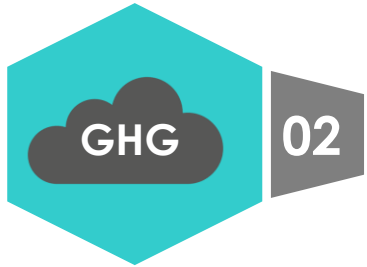
CHALLENGES IN REPORTING & ICA



Institutional Arrangement

- Cross cutting between the Ministries- requires **heavy coordination** of efforts and commitments.
- **No reporting obligations** by the stakeholders to the national focal point
- **Difficulties in maintaining the experts/teams**
- **Lack of integrated system** for data collection and management

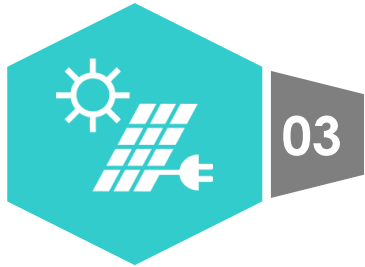
CHALLENGES IN REPORTING & ICA



GHG Inventory

- **Data Quality** –
 - Completeness of the inventory according to the IPCC's sub-categories
 - Limitation of country-specific emission factors for key source categories. For example, emission factors for transportation
 - High cost of data collection and lack of resources to conduct survey- transportation
- **Data confidentiality** by the private sectors to provide activity data
- **Difficulties** in retaining the experts
- Insufficient of capacity building programmes for GHG Inventory

CHALLENGES IN REPORTING & ICA



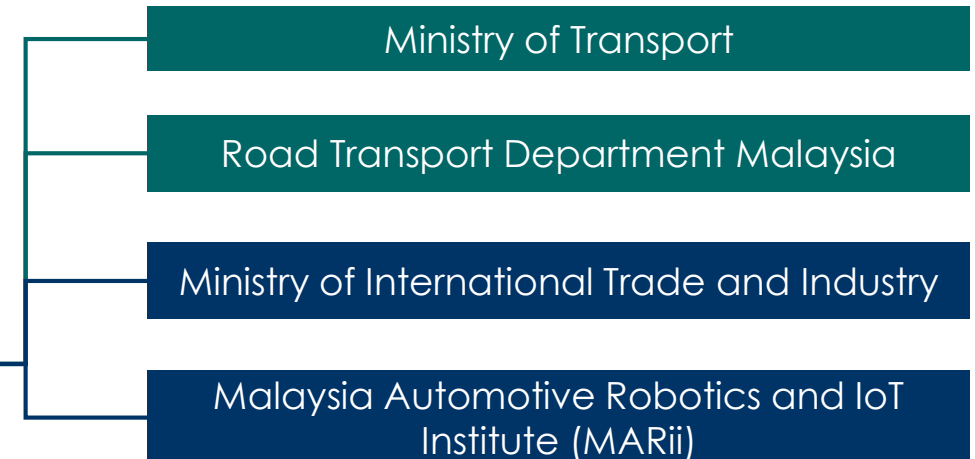
Mitigation Assessment

- **No standard methodology** established – e.g *calculation for rail based public transport*
- **Lack of experts on modelling**- *especially other sectors than energy- transportation, industrial processes, agriculture*
- **Data Quality** –
 - Insufficient of activity data on mitigation actions implemented- *e.g fuel efficient vehicles*
 - Limitation of country-specific emission factors – *e.g use the DEFRA vehicle emission factor - gCO₂/km*
- **Absence of clear measurement, reporting and verification** arrangements for long term targets
- **Difficulties** in retaining the experts
- Insufficient of capacity building programmes for GHG Inventory
- Lack of mitigation assessment on social and economic benefits (**cost benefit analysis**).

CHALLENGES IN REPORTING & ICA

MITIGATION ACTIONS
RE Implementation through Feed-in Tariff mechanism
RE electricity generation by non-Feed-in Tariff
Net Energy Metering
Large Scale Solar
Large Hydropower
Efficient electricity consumption in all Federal Government ministry buildings
National Energy Efficiency Action Plan Programmes
Implementation of green building rating scheme
Rail based public transport
Use of energy-efficient vehicles
Use of palm-based biodiesel in blended petroleum diesel
Use of natural gas in vehicles
Emissions reduction in Oil and Gas operations
Paper recycling
Biogas recovery from palm oil mill effluent
Green Technology Financing Scheme
Sustainable management of forest

Huge effort required (**cooperation and buy-in**) to get **number of fuel efficient vehicles** because it involves cross cutting agencies under **different Ministries**



CHALLENGES IN REPORTING & ICA



Insufficient financial resources to fulfill the reporting requirements -

- To assess more accurately the country's vulnerabilities in key sectors
- To conduct research for systematic observation, climate and sea level rise modelling
- To conduct continuous MRV

CHALLENGES IN REPORTING & ICA

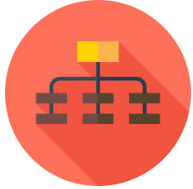


Review Process

There were 2 ICAs conducted- First BUR & Second BUR

- **Time and/or resources** needed to review and respond to the feedbacks received from the TTE
- Cooperation from all stakeholders to attend the ICA

HOW DO WE OVERCOME THOSE CHALLENGES?



- National Steering Committee on Climate Change
- Establishing a National Climate Change Centre (NCCC)



- Strengthening National Capacity for Effective Implementation of the Paris Agreement



- Developing Mitigation & Adaptation Plans for Climate Change
- Drafting Climate Change Act 2021 Bill



- Strengthen the cooperation between the stakeholders and national focal point
- Identification of stakeholders and development of clear roles and responsibilities



- Strengthen the database- enable archiving, storage and retrieval of information

Thank You

< Presenter >

Presenter name@greentechmalaysia.my



Malaysian Green Technology Corporation

No.2, Jalan 9/10, Persiaran Usahawan,
Seksyen 9, 43650 Bandar Baru Bangi,
Selangor Darul Ehsan, Malaysia.

Tel : 03 8921 0800
Fax : 03 8921 0801 / 0802
Email : info@greentechmalaysia.my

-  Greentech Malaysia
-  GreenTech.MY
-  GreenTech Malaysia
-  GreenTech Malaysia

