



COUNTRY PROGRAMME ACTION PLAN 2016-2020



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MID-YEAR PROGRESS REPORT 2018

PROJECT PROFILE

PROJECT TITLE: Third National Communication to the UNFCCC and Biennial Update Reporting
AWARD ID: 00077556
PROJECT ID: 00088260
PROJECT PERIOD: Jan 2014 – Dec 2017
REVISED PERIOD (if any): end date is 4 years from signing: Apr 2018
PROJECT BUDGET: USD 1,152,000
USD 504,450 (in-kind)
REVISED BUDGET (if any):
2018 BUDGET (AWP): USD 85,054

IMPLEMENTING PARTNER: Ministry of Natural Resources and Environment

NATIONAL PROJECT DIRECTOR: Jaya Singam Rajoo, Under Secretary, Environmental Management and Climate Change Division, MNRE
NATIONAL STEERING COMMITTEE CHAIR: Dato Sri Azizan Ahmad, Secretary-General, MNRE
NSC MEETING(S) HELD: 23 March 2018

minutes attached

UNDP MALAYSIA CPAP OUTCOME:
 Inclusive Growth & Development
 Sustainable & Resilient Development

11TH MALAYSIA PLAN STRATEGIC THRUSTS:
 Enhancing inclusiveness towards an equitable society
 Improving wellbeing for all
 Accelerating human capital development for an advanced nation
 Pursuing green growth for sustainability and resilience
 Strengthening infrastructure to support economic expansion
 Re-engineering economic growth for greater prosperity

PROJECT DESCRIPTION (500 words max):

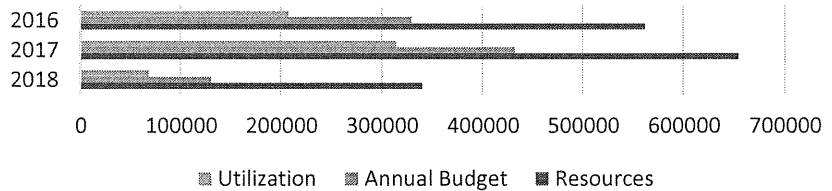
To assist Malaysia in meeting the reporting requirements under Article 12 of the UNFCCC, strengthen its technical and institutional capacities to implement the Convention, and prepare the submission of the first Biennial Update Report and the Third National Communication.

PROJECT IMPLEMENTATION OVERVIEW

EXPENDITURE:

YEAR	BUDGET	UTILIZATION	RATIO (%)
2016	\$329,704	\$207,447	63
2017	\$432,119	\$314,445	73
2018	\$130,142	\$68,176	52
CUMULATIVE	\$891,965	\$590,068	66

EXPENDITURE (By Year)



Project Outcome Snapshot

Component/Outcome & Total Outputs	Achieved (Output #)	On Track (Output #)	Off Track (Output #)	Not Achieved (Output #)
Outcome 1: Total outputs: 4	1.1,1.2, 1.3, 1.4			
Outcome 2: Total outputs: 5	2.1, 2.2, 2.3, 2.4		2.5	
Outcome 3: Total outputs: 6	3.1, 3.2, 3.3, 3.4, 3.5, 3.6			
Outcome 4: Total outputs: 6	4.1, 4.2, 4.3, 4.4, 4.5, 4.6			
Outcome 5: Total outputs: 4	5.1, 5.2, 5.3, 5.4			
Outcome 6: Total outputs: 3	6.1, 6.2	6.3		
Outcome 7: Project Management	7.1			

Risk Management

Date Identified	Type	Management Response
[no risks identified since 2014]	[no risks identified since 2014]	[no risks identified since 2014]



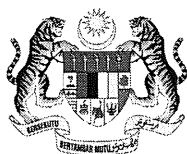
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Project Outcome Snapshot (expanded)

Outcome Description	2017	2018
Outcome 1: Efficient and operational institutional framework (which includes technical and policy aspect) for the effective governance of CC in Malaysia		
Output 1: Availability of work plan of roles of key stakeholders	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 2: Capacity building workshops and training sessions for policy makers, scientific studies and awareness programme for public and private sectors	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 3: An interactive web portal on climate change information and communication system	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 4: Training on the application of different climate models for the integration planning into national development	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Outcome 2: Updated inventory of GHG emissions and the effective use of the necessary tools to manage GHG emissions database which lead to the strengthening of the formulation of the national climate policy		
Output 1: National GHG emissions inventories as per the latest UNFCCC guidelines	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 2: Technical report on local emission factors for key economic activities	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 3: Database with IT tools for data updating and retrieving, as basis for the GHG inventory system	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 4: Datasheets with sets of indicators for GHG emitting sectors	<input type="checkbox"/> On Track <input checked="" type="checkbox"/> Off Track <input type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input checked="" type="checkbox"/> Off Track <input type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 5: GHG conversion factors	<input type="checkbox"/> On Track <input checked="" type="checkbox"/> Off Track <input type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input checked="" type="checkbox"/> Off Track <input type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Outcome 3: Updated inventory of GHG emissions and the effective use of the necessary tools to manage GHG emissions database which lead to the strengthening of the formulation of climate policy (Biennial Update Reporting)		
Output 1: Information on national circumstances and institutional arrangements for national communications	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 2: Status of GHG 2010 inventory updated	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved



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Outcome Description	2017	2018
Output 3: Review of mitigation actions and their effects as well as options including their associated methodologies and assumptions	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 4: Availability of information on the development of NAMA, domestic MRV and national registry system.	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 5: Availability of information on identification of gaps, and related financial, technical, and capacity needs related to mitigation issues and description of support needed and received	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 6: Availability of information related to support received in preparation in BUR and TNC	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Outcome 4: Effective and well informed policy development, implementation and review on adaptation measures as part of the national development priorities in line with the sustainable development principles.		
Output 1: Usage of climate models for various economic sectors	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 2: Availability of technical reports with socio-economic baseline and updated scenarios	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 3: Availability of specific studies on climate change vulnerability and impact scenarios developed for key critical sectors	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 4: Availability of technical reports including proposals of potential adaptation actions in the sectors mentioned	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 5: Availability of policy options (including possible regulatory measures)	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 6: Identification of the necessary adaptation technologies to be adopted	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Outcome 5: Effective and well informed policy development, implementation and review on mitigation actions as part of the national development priorities in line with the sustainable development principles		
Output 1: Availability of technical reports including proposals of potential mitigation actions and NAMA in the key sectors	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 2: Availability of policy options (including regulatory protocols) and other necessary measures on mitigation actions	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved



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Outcome Description	2017	2018
Output 3: Identification of the necessary technology to be adopted	<input type="checkbox"/> On Track <input checked="" type="checkbox"/> Off Track <input type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input checked="" type="checkbox"/> Off Track <input type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 4: Development of national NAMA registry in the context of supporting national mitigation actions	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Outcome 6: Development, publication and dissemination of the TNC and the BUR reports, to include other relevant information to the convention		
Output 1: Final report of the TNC	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 2: Final report of the BUR	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Output 3: National Launching Event, Workshops and seminars to disseminate preliminary and final results of the TNC and BUR	<input type="checkbox"/> On Track <input checked="" type="checkbox"/> Off Track <input type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input checked="" type="checkbox"/> On Track <input type="checkbox"/> Off Track <input type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved
Outcome: Project Management		
Output 1: Project Management	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved	<input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved

RISK MANAGEMENT (EXPANDED)

Date Identified	Type	Management Response
[no new risks since 2014]	[no new risks since 2014]	[no new risks since 2014]

ANNEX

Please list additional documentation included in this report (including NSC meeting minutes; PIR report summary; additional project reporting)

1. NSC Meeting Minutes- 23 March 2018
2. _____
3. _____



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MID-YEAR REPORT NARRATIVE

Describe the project's achievements of outputs in 2018, with brief descriptions of progress of planned activity results for the year. Please highlight any contributions to gender made if any.

Describe the issues and challenges faced, and the project management response.

Component/Outcome 1: Efficient and operational institutional framework (which includes technical and policy aspect) for the effective governance of CC in Malaysia	Progress Status
<p>Output 1: Availability of work plan of roles of key stakeholders</p> <p>The Terms of Reference (TOR) and work plans for the technical working groups on GHG Inventory; Mitigation; Measurement, Reporting and Verification; Vulnerability and Adaptation; and Research and Systematic Observation were completed and approved by the Project Steering Committee in the 2nd half of 2014. These were reported in the Inception Report which was finalised in April 2015. Work by these TWGs has progressed smoothly in 2015 which enabled the BUR to be completed successfully in 2015.</p> <p>The TWG on Socio-Economic Aspects of Climate Change chaired by the Undersecretary of the Environmental and Natural Resource Economics Section of the Economic Planning Unit was formed in June 2015 following the completion of their work on the 11th Malaysia Plan. The TOR and work plan for the TWG on Socio-Economic Aspects of Climate Change was developed in 2016 to enable better reporting of the socio-economic aspects of response measures and needs in the TNC. However, this TWG faced barriers in data availability for socio-economic assessment of climate change impact in Malaysia. Recommendations would be made to the National Steering Committee to change this TWG to be the TWG for Finance and Needs as this would be of more help in enhancing the needs reporting in the BUR.</p> <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Work plan of roles of key stakeholders and their inter-linkages established</p>
<p>Output 2: Capacity building workshops and training sessions for policy makers, scientific studies and awareness programme for public and private sectors</p> <p>The project organized the following workshops in 2018:</p> <ol style="list-style-type: none"> 1. Stakeholder's consultation on draft TNC and 2nd BUR report, 22-23 February 2018 2. Capacity building workshop for UNFCCC delegates, 12 April 2018 3. Meeting for the preparation of the Malaysia-Singapore Joint Committee on the Environment (MSJCE), 19 April 2018 4. Technical Working Group meeting for the preparation of a policy framework for abandoned vehicles, 19 April 2018 5. Capacity building workshop on NDC achievement in Malaysia, 20 April 2018 6. Data coordination workshop with Sarawak state government, 23-24 April 2018 	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: 12 capacity building workshops and training sessions for policy makers (federal, state and local authorities), scientific studies and awareness programme (for public and</p>



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<p><i>Issues & Challenges:</i> -</p> <p><i>Action Taken by implementing Partner:</i> -</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	<p>private sectors)</p>
<p>Output 3: An interactive web portal on climate change information and communication system</p> <p>The content of a web portal on climate change has been completed by NRE with USD50,000 funding from UNEP. It is now hosted at NRE's web portal, however the content is still undergoing final editing before being opened to the public. For this portal, the Forest Research Institute Malaysia has been appointed as the consultant to develop the REDD+ Information System content. These webpages had been completed and opened to public access through NRE's web portal on 21 August 2017. Since the beginning of the project, the web pages for the TNC/BUR project has been developed and linked to the Ministry of Natural Resources and Environment's (NRE) web portal and is accessible through the URL http://www.nre.gov.my/sites/TNC-BUR/Pages/default.aspx</p> <p><i>Issues & Challenges:</i> -</p> <p><i>Action Taken by implementing Partner:</i> -</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Existence of interactive web portal on climate change information and communication system</p>
<p>Output 4: Training on the application of different climate models for the integration planning into national development</p> <p>Training on this topic area was completed in 2017. A total of 12 training workshops were completed on the application of climate model projects, carried by the National Hydraulic Research Institute of Malaysia (NAHRIM) under a contract on Vulnerability and Adaptation Assessment.</p> <p><i>Issues & Challenges:</i> -</p> <p><i>Action Taken by implementing Partner:</i> -</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: 12 trainings conducted on application of different climate models for the integration planning into the national development</p>
<p>Component/Outcome 2: Updated inventory of GHG emissions and the effective use of the necessary tools to manage GHG emissions database which lead to the strengthening of the formulation of the national climate policy</p>	<p>Progress Status</p>
<p>Output 1: National GHG emissions inventories as per the latest UNFCCC guidelines</p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track</p>



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<p>The National GHG Inventory for the Third National Communication (TNC) with a base year 2014 has been developed. time series from 1990 to 2014 for all sectors (energy, industrial processes and product use, AFOLU and waste). Following the improvement plan outlined in the First Biennial Update Report, preparation of the inventory was based on the 2006 IPCC Guidelines for National Greenhouse Gas Inventories. In addition to the sectoral GHG inventory reports, a combined National Inventory report (NIR) was also produced. From this, the National GHG Inventory Chapter and GHG inventory Technical Annex for the Third National Communication was produced. Outputs 2 to 4 are contained within these reports.</p> <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/ EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p><input type="checkbox"/> Off track</p> <p>Output Target: Updated and new GHG emissions inventories as per the latest UNFCCC guidelines</p>
<p>Output 2: Technical report on local emission factors for key economic activities</p> <p>Technical reports for local emission factors for key economic activities have been produced for the BUR (contained in GHG Inventory Technical Annex) and for the TNC (contained in a separate data sheet).</p> <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/ EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p><input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved</p> <p>Output Target: Technical report on local emission factors for key economic activities established</p>
<p>Output 3: Database with IT tools for data updating and retrieving, as basis for the GHG inventory system</p> <p>The GHG inventory time series data and calculation spreadsheets for the BUR and TNC have been compiled to form the national GHG Inventory database. These are archived as flat files as well as being transferred into the 2006 IPCC GHG Inventory software to form a consolidated national database in 2016. The BUR GHG inventory database consist of the activity data and the revised 1996 IPCC National GHG Inventories calculation spreadsheets for each sector. The TNC GHG inventory database consist of the same activity data and the 2006 IPCC National GHG Inventories calculation spreadsheets for each sector.</p> <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/ EPU: -</i></p>	<p><input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved</p> <p>Output Target: Availability of sufficient database with IT tools for data updating and retrieving, as the basis for GHG inventory system</p>



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<p><i>UNDP Management Response: -</i></p>	
<p>Output 4: Datasheets with sets of indicators for GHG emitting sectors</p> <p>Datasheets with sets of indicators for GHG emitting sectors have been developed and are contained in the GHG Inventory Technical Annexes to the BUR and TNC reports.</p> <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p><input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved</p> <p>Output Target: Datasheet with sets of indicators for GHG emitting sectors made available</p>
<p>Output 5: GHG conversion factors</p> <p>The yearly electricity grid emission factors were produced for 2015 and 2016 has been completed by MGTC under NRE's contract with them, using national funding.</p> <p><i>Issues & Challenges:</i> This output is partially achieved- GHG conversion factors were not able to be produced for other areas besides the electricity grid emission factors due to the lack of funding for developing the conversion factors.</p> <p><i>Action Taken by implementing Partner:</i> GHG conversion factors for other areas will be developed under the BUR2 project.</p> <p><i>Additional Support Requested from UNDP/EPU: -</i></p> <p><i>UNDP Management Response:</i> The BUR2 project will address the gaps in terms of GHG emission factors, and to develop emission factors for other areas.</p>	<p><input type="checkbox"/> On Track <input checked="" type="checkbox"/> Off Track <input type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved</p> <p>Output Target: Final GHG conversion factors established</p>
<p>Component/Outcome 3: Updated inventory of GHG emissions and the effective use of the necessary tools to manage GHG emissions database which lead to the strengthening of the formulation of climate policy (Biennial Update Reporting)</p>	<p>Progress Status</p>
<p>Output 1: Information on national circumstances and institutional arrangements for national communications</p> <p>The Biennial Update Report (BUR) for Malaysia was completed on 29 December 2015 and submitted to the UNFCCC on 3 March 2016 following approval from the Cabinet. The report contains the following 6 chapters,</p> <ul style="list-style-type: none"> ➤ National Circumstances ➤ National GHG Inventory ➤ Mitigation Actions and their Effects ➤ Level of Support ➤ Constraints, Gaps and Needs ➤ Additional Information to address Climate Change 	<p><input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved</p> <p>Output Target: Available information on national circumstances and institutional arrangements for national communications</p>



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<p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	
<p>Output 2: Status of GHG 2010 inventory updated</p> <p>The Biennial Update Report (BUR) for Malaysia was completed on 29 December 2015 and submitted to the UNFCCC on 3 March 2016 following approval from the Cabinet. The report contains the following 6 chapters,</p> <ul style="list-style-type: none"> ➤ National Circumstances ➤ National GHG Inventory ➤ Mitigation Actions and their Effects ➤ Level of Support ➤ Constraints, Gaps and Needs ➤ Additional Information to address Climate Change <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p> <input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved </p> <p>Output Target: GHG 2010 inventory update</p>
<p>Output 3: Review of mitigation actions and their effects as well as options including their associated methodologies and assumptions</p> <p>The Biennial Update Report (BUR) for Malaysia was completed on 29 December 2015 and submitted to the UNFCCC on 3 March 2016 following approval from the Cabinet. The report contains the following 6 chapters,</p> <ul style="list-style-type: none"> ➤ National Circumstances ➤ National GHG Inventory ➤ Mitigation Actions and their Effects ➤ Level of Support ➤ Constraints, Gaps and Needs ➤ Additional Information to address Climate Change <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p>	<p> <input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved </p> <p>Output Target: Review conducted on mitigation actions and their effects as well as options including associated methodologies and assumptions</p>



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<p><i>Additional Support Requested from UNDP/ EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	
<p>Output 4: Availability of information on the development of NAMA, domestic MRV and national registry system.</p> <p>The Biennial Update Report (BUR) for Malaysia was completed on 29 December 2015 and submitted to the UNFCCC on 3 March 2016 following approval from the Cabinet. The report contains the following 6 chapters,</p> <ul style="list-style-type: none"> ➤ National Circumstances ➤ National GHG Inventory ➤ Mitigation Actions and their Effects ➤ Level of Support ➤ Constraints, Gaps and Needs ➤ Additional Information to address Climate Change <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/ EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p> <input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved </p> <p>Output Target: Available information on development of NAMA, domestic MRV and national registry system where possible</p>
<p>Output 5: Availability of information on identification of gaps, and related financial, technical, and capacity needs related to mitigation issues and description of support needed and received</p> <p>The Biennial Update Report (BUR) for Malaysia was completed on 29 December 2015 and submitted to the UNFCCC on 3 March 2016 following approval from the Cabinet. The report contains the following 6 chapters,</p> <ul style="list-style-type: none"> ➤ National Circumstances ➤ National GHG Inventory ➤ Mitigation Actions and their Effects ➤ Level of Support ➤ Constraints, Gaps and Needs ➤ Additional Information to address Climate Change <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/ EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p> <input type="checkbox"/> On Track <input type="checkbox"/> Off Track <input checked="" type="checkbox"/> Achieved <input type="checkbox"/> Not Achieved </p> <p>Output Target: Available information on identification of gaps, and related financial, technical and capacity needs related to mitigation issues and description of support needed and received</p>
<p>Output 6: Availability of information related to support received in preparation in BUR and</p>	<p><input checked="" type="checkbox"/> Achieved</p>



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<p>TNC</p> <p>The Biennial Update Report (BUR) for Malaysia was completed on 29 December 2015 and submitted to the UNFCCC on 3 March 2016 following approval from the Cabinet. The report contains the following 6 chapters,</p> <ul style="list-style-type: none"> ➤ National Circumstances ➤ National GHG Inventory ➤ Mitigation Actions and their Effects ➤ Level of Support ➤ Constraints, Gaps and Needs ➤ Additional Information to address Climate Change <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p><input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Available information related to support received in preparation of BUR and TNC</p>
<p>Component/Outcome 4: Effective and well informed policy development, implementation and review on adaptation measures as part of the national development priorities in line with the sustainable development principles.</p>	
<p>Output 1: Usage of climate models for various economic sectors</p> <p>The downscaled Reg HCM climate projections and sea level rise projections developed by the National Hydraulic Research Institute (NAHRIM) have been used for vulnerability to and impact of climate change assessment in the following sectors: water and coastal resources, agriculture and food security, forestry, biodiversity, infrastructure, energy and public health.</p> <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Assembled and downscaled climate models for various economic sectors</p>
<p>Output 2: Availability of technical reports with socio-economic baseline and updated scenarios</p> <p>NAHRIM submitted the final reports on Vulnerability and Adaptation Assessment in early October 2017. The report contains technical assessment of the V&A assessment of the country for the sectors mentioned above. Some information on the socio-economic aspects for each of the sector is contained in the report.</p> <p><i>Issues & Challenges: -</i></p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Technical reports with socio-economic baseline and updated scenarios completed</p>



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<p><i>Action Taken by implementing Partner:</i> -</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	
<p>Output 3: Availability of specific studies on climate change vulnerability and impact scenarios developed for key critical sectors</p> <p>Under the project, a vulnerability and adaptation assessment to climate change and sea level rise for the period until 2050 was carried for the water and coastal resources, agriculture and food security, forestry, biodiversity, infrastructure, energy and public health sectors. The results are contained in the consolidated and sectoral reports on <i>Vulnerability and Adaptation Assessment for Third National Communication</i> for the sectors of water and coastal resources, agriculture and food security, forestry, biodiversity, infrastructure, energy and public health. Detailed flood projections were also carried out for 15 flood prone river basins with important socio-economic activities in Peninsular Malaysia. For each of the sectors, vulnerability assessments due to projected floods, droughts, temperature increase and sea level rise were carried out.</p> <p><i>Issues & Challenges:</i> For the current assessment, detailed flood projections were only carried out for 15 flood prone river basins with important socio-economic activities in Peninsular Malaysia.</p> <p><i>Action Taken by implementing Partner:</i> More river basins need to be included in future assessments including those in Sabah and Sarawak.</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Specific studies on climate change vulnerability and impact scenarios developed for key critical sectors completed</p>
<p>Output 4: Availability of technical reports including proposals of potential adaptation actions in the sectors mentioned</p> <p>The adaptation measures and plans for improvements are contained in the reports completed by NAHRIM and the SWGs.</p> <p><i>Issues & Challenges:</i> -</p> <p><i>Action Taken by implementing Partner:</i> -</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Available technical reports including proposals of potential adaptation actions in the sectors mentioned</p>
<p>Output 5: Availability of policy options (including possible regulatory measures)</p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track</p>



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<p>Contained in consolidated and sectoral reports on <i>Vulnerability and Adaptation Assessment for Third National Communication</i> for the sectors of water and coastal resources, agriculture and food security, forestry, biodiversity, infrastructure, energy and public health.</p> <p><i>Issues & Challenges:</i> -</p> <p><i>Action Taken by implementing Partner:</i> -</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	<p><input type="checkbox"/> Off track</p> <p>Output Target: Available policy options (including possible regulatory measures) on adaptation measures</p>
<p>Output 6: Identification of the necessary adaptation technologies to be adopted</p> <p>Preliminary adaptation technology needs have already been identified in <i>A Roadmap of Emissions Intensity Reduction in Malaysia</i> carried out by the Ministry of Natural Resources and Environment in 2014. Some specific adaptation technologies being developed especially in the agriculture sector is described in the consolidated report on <i>Vulnerability and Adaptation Assessment for Third National Communication</i>.</p> <p><i>Issues & Challenges:-</i></p> <p><i>Action Taken by implementing Partner:</i> -</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Necessary adaptation technologies to be adopted identified</p>
<p>Component/Outcome 5: Effective and well informed policy development, implementation and review on mitigation actions as part of the national development priorities in line with the sustainable development principles.</p>	<p>Progress Status</p>
<p>Output 1: Availability of technical reports including proposals of potential mitigation actions and NAMA in the key sectors</p> <p>The report submitted by MGTC contains a list of mitigations action that have been quantified, including those that are proposed for implementation after 2017. These include the programmes under the National Energy Efficiency Action Plan and the National Renewable Energy Policy and Action Plan including the large-scale solar implementation,</p> <p><i>Issues & Challenges:</i> -</p> <p><i>Action Taken by implementing Partner:</i> -</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Available technical reports including proposals of potential mitigation actions and NAMA in the key sectors</p>



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<p>Output 2: Availability of policy options (including regulatory protocols) and other necessary measures on mitigation actions</p> <p>The results from the GHG emission projection and quantification of mitigation actions is being used to update the NDC Roadmap being prepared under the UK Prosperity Fund. The project has also supported development of REDD+ as a policy option for enhancing carbon stocks and reducing emissions from deforestation in the LULUCF sector. This include development of the first and second Forest Reference Level, Technical Annex on REDD+ Results-based Payment to the BUR, the development of the REDD+ Information System, the REDD+ Safeguards and National REDD+ Strategy.</p> <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Available policy options (including regulatory protocols) and other necessary measures on mitigation actions</p>
<p>Output 3: Identification of the necessary technology to be adopted</p> <p>NRE had already carried out a Roadmap of Carbon Intensity Reduction in Malaysia Study in 2014. That report contained a mitigation of climate change technology needs assessment of the country. In March 2015, UNEP-UDP offered to fund a project amount to USD120,000 on Technology Needs Assessment for Malaysia. The TNC/BUR Project is helping to coordinate this project. However, implementation could not be carried out due to disagreement on the Memorandum of Agreement between UNEP-DTU and NRE. For the Third National Communication, the technology needs identified in the Roadmap study were reviewed and summarised for reporting in the needs chapter.</p> <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Necessary mitigation technology to be adopted identified</p>
<p>Output 4: Development of national NAMA registry in the context of supporting national mitigation actions</p> <p>The NAMA registry is currently in the form of an excel registry for the 17 mitigation actions identified and quantified in the report prepared by MGTC.</p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: National NAMA</p>



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<p><i>Issues & Challenges:</i> -</p> <p><i>Action Taken by implementing Partner:</i> -</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	<p>registry in the context of supporting national mitigation actions established</p>
<p>Component/Outcome 6: Development, publication and dissemination of the TNC and the BUR reports, to include other relevant information to the convention</p>	<p>Progress Status</p>
<p>Output 1: Final report of the TNC</p> <p>The final report of the TNC has been completed and the report was endorsed by Cabinet on 26 September 2018. The report was submitted to UNFCCC via the online submission portal on 27 September 2018 and was approved by the UNFCCC Secretariat on the same day. The report is accessible via UNFCCC's website.</p> <p><i>Issues & Challenges:</i> -</p> <p><i>Action Taken by implementing Partner:</i> -</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Final report of the TNC submitted</p>
<p>Output 2: Final report of the BUR</p> <p>The BUR was completed in December 2015. The report was submitted to the UNFCCC on 3 March 2016 following approval by the Cabinet. Five hundred copies of the report has been printed and distributed to government Ministries, federal departments and agencies, state governments, non-governmental organisations and the private sector organisations. The soft copy has also been uploaded to NRE's website.</p> <p><i>Issues & Challenges:</i> -</p> <p><i>Action Taken by implementing Partner:</i> -</p> <p><i>Additional Support Requested from UNDP/ EPU:</i> -</p> <p><i>UNDP Management Response:</i> -</p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target: Final report of the BUR submitted</p>
<p>Output 3: National Launching Event, Workshops and seminars to disseminate preliminary and final results of the TNC and BUR</p> <p>MESTECC will disseminate TNC report to government ministries, federal departments and</p>	<p><input type="checkbox"/> Achieved <input checked="" type="checkbox"/> On track <input type="checkbox"/> Off track</p>



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<p>agencies, state governments, non-governmental organisations and the private sector organisations once the printing process done.</p> <p><i>Issues & Challenges:</i> The report has been submitted to UNFCC on the 26 of September and a launch event is being explored.</p> <p><i>Action Taken by implementing Partner:</i></p> <p><i>Additional Support Requested from UNDP/ EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p>Output Target: National Launching Event, Workshops and seminars to disseminate preliminary and final results of the TNC organized.</p>
<p>Component/Outcome: Project Management</p>	<p>Progress Status</p>
<p>Output 4: Project Management</p> <p>All consultants have completed their work on the TNC report.</p> <p><i>Issues & Challenges: -</i></p> <p><i>Action Taken by implementing Partner: -</i></p> <p><i>Additional Support Requested from UNDP/ EPU: -</i></p> <p><i>UNDP Management Response: -</i></p>	<p><input checked="" type="checkbox"/> Achieved <input type="checkbox"/> On track <input type="checkbox"/> Off track</p> <p>Output Target:</p>

Mid Year Progress Report 2018 approved by:

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Name: **JAYA SINGAM RAJOO**
Under Secretary
Designation: **Environmental Management & Climate Change Division**
Date: **Ministry of Natural Resources and Environment**