



Preparing the Philippine First Biennial Update Report (BUR): BUR Templates

Republic of the Philippines

Manila, Philippines

This document serves as the template to guide the BUR Secretariat and the participating agencies and organizations in the preparation of the BUR

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CONTENTS

Tables and Figures	8
Abbreviations	9
Message.....	10
Foreword	11
Executive Summary	12
Chapter 1 National Circumstances.....	13
1.1. Physical and Geographical Profile	13
1.2. Socio-economic Profile.....	13
1.3. Climate	13
1.4. Development Priorities	13
1.5. Gender and Women Empowerment.....	13
1.6. Constraints and Gaps/Needs and Concerns	13
Chapter 2 Institutional Arrangements.....	14
2.1. Overarching Frameworks	14
2.2. Institutional Arrangements.....	14
Chapter 3 National GHG Inventory Report.....	15
3.1. GHG Inventory Preparation Process	15
3.2. National Inventory Report for 2010, 2015, and 2020.....	15
3.3. Limitations and challenges	19
3.4. Inventory Improvement Plan	19
Chapter 4 Mitigation Actions and their Effects.....	20
4.1. Summary of mitigation actions and their effects.....	21
4.2. Mitigation policies and measures	22
4.3. International market mechanisms	24
4.4. Limitations and challenges	25
Chapter 5 Support Needed and Received.....	26
5.1. Summary of Gaps and Constraints	26
5.2. Support needed.....	27
5.3. Support received	29
5.4. Other concerns related to support.....	36
Chapter 6 Support Received for BUR Preparation	37

6.1.	Support received for MRV and transparency	38
6.2.	Strengths and limitations on support for national report preparation	39
Chapter 7 Domestic MRV System.....		40
7.1.	Philippine National MRV System.....	40
7.2.	MRV system for GHG Inventory	40
7.3.	MRV system for Mitigation Actions.....	40
7.4.	MRV system for Means of Implementation.....	40

TABLES AND FIGURES

Table 1 National greenhouse gas inventory of anthropogenic emissions by sources and removals by sinks of all greenhouse gases not controlled by the Montreal Protocol and greenhouse gas precursors.....	16
Table 2 National greenhouse gas inventory of anthropogenic emissions of HFCs, PFCs and SF6.....	18
Table 3 Summary of mitigation actions from 2015-2020	21
Table 4 Summary of mitigation projects under international market mechanisms.....	21
Table 5 Support needed in relation to vulnerabilities, risks, impacts, and adaptation	27
Table 6 Support needed in relation to mitigation and GHG inventory	27
Table 7 Support needed in relation to MRV and transparency.....	27
Table 8 Support needed to access and mobilize support.....	28
Table 9 Summary of support received from multilateral sources.....	30
Table 10 Summary of support received from bilateral cooperation and agreements	31
Table 11 Summary of support received from multilateral financial institutions and regional development banks .	32
Table 12 Financial support received for climate action	33
Table 13 Capacity-building support received for climate action	34
Table 14 Technology support received for climate action	35
Table 15 Support received for MRV and transparency	38

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ABBREVIATIONS

MESSAGE

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President of the Philippines

December 2022

FOREWORD

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Vice-Chairperson and Executive Director
Climate Change Commission

December 2022

EXECUTIVE SUMMARY

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CHAPTER I NATIONAL CIRCUMSTANCES

Introduction

1.1. Physical and Geographical Profile

1.2. Socio-economic Profile

including information on domestic climate change funding and investment

1.3. Climate

1.4. Development Priorities

1.5. Gender and Women Empowerment

1.6. Constraints and Gaps/Needs and Concerns

Resources:

- GIZ BUR Template
- UNFCCC Manual on National Communications

CHAPTER 2 INSTITUTIONAL ARRANGEMENTS

Introduction

2.1. Overarching Frameworks

Narratives: Climate Change Act

2.2. Institutional Arrangements

Narratives: Climate Change Commission and its Advisory Board and National Panel of Technical Experts; Cabinet Cluster on Climate Change Adaptation and Mitigation and Disaster Risk Reduction; Interagency Committee on Environment and Natural Resources Statistics; National Designated Agencies for GCF, GEF, CDM; UNFCCC National Focal Points; National Focal Points of UNFCCC workstreams; NDC Technical Working Group; Philippine Greenhouse Gas Inventory Management and Reporting System; Climate Change Expenditure Tagging

Further information on report preparation and measurement, reporting, and verification are elaborated in Chapter 7 Domestic MRV System

Resources:

- US EPA Tool and Template
- GIZ BUR Template
- UNFCCC Toolkit on Institutional Arrangements
- CGE Module on Institutional Arrangements

CHAPTER 3 NATIONAL GHG INVENTORY REPORT

Introduction

Full technical documentation is included in the NIR Technical Annex.

3.1. GHG Inventory Preparation Process

3.1.1. Planning and Preparations

3.1.2. Methodologies and Assumptions

3.1.2.1. Estimation Approaches

3.1.2.2. Key Source Analysis

3.1.2.3. Uncertainty Analysis

3.1.2.4. Global Warming Potential and Sources of Emission Factors and Activity Data

3.1.3. Data Quality Management

3.1.4. Archiving System

3.2. National Inventory Report for 2010, 2015, and 2020

3.2.1. Narrative Summary

3.2.2. Summary Tables and Figures

Table 1 National greenhouse gas inventory of anthropogenic emissions by sources and removals by sinks of all greenhouse gases not controlled by the Montreal Protocol and greenhouse gas precursors

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ emissions (Gg)	CO ₂ removals (Gg)	CH ₄ (Gg)	N ₂ O (Gg)	CO (Gg)	NO _x (Gg)	NMVOCs (Gg)	SO _x (Gg)
Total national emissions and removals	X	X	X	X	X	X	X	X
1. Energy	X	X	X	X	X	X	X	X
A. Fuel combustion (sectoral approach)	X		X	X	X	X	X	X
1. Energy industries	X		X	X	X	X	X	X
2. Manufacturing industries and construction	X		X	X	X	X	X	X
3. Transport	X		X	X	X	X	X	X
4. Other sectors	X		X	X	X	X	X	X
5. Other (please specify)	X		X	X	X	X	X	X
B. Fugitive emissions from fuels	X		X		X	X	X	X
1. Solid fuels			X		X	X	X	X
2. Oil and natural gas				X	X	X	X	X
2. Industrial processes	X	X	X	X	X	X	X	X
A. Mineral products	X				X	X	X	X
B. Chemical industry	X		X	X	X	X	X	X
C. Metal production	X		X	X	X	X	X	X
D. Other production	X				X	X	X	X
E. Production of halocarbons and sulphur hexafluoride								
F. Consumption of halocarbons and sulphur hexafluoride								
G. Other (please specify)	X		X	X	X	X	X	X
3. Solvent and other product use	X			X			X	
4. Agriculture			X	X	X	X	X	X
A. Enteric fermentation			X					
B. Manure management			X	X			X	
C. Rice cultivation			X				X	
D. Agricultural soils			X	X			X	
E. Prescribed burning of savannahs			X	X	X	X	X	
F. Field burning of agricultural residues			X	X	X	X	X	
G. Other (please specify)			X	X	X	X	X	
5. Land-use change and forestry	X ^b	X ^b	X	X	X	X	X	X
A. Changes in forest and other woody biomass stocks	X ^b	X ^b						
B. Forest and grassland conversion	X	X	X	X	X	X		
C. Abandonment of managed lands		X						
D. CO ₂ emissions and removals from soil	X ^b	X ^b						
E. Other (please specify)	X	X	X	X	X	X		
6. Waste			X	X	X	X	X	X
A. Solid waste disposal on land			X		X		X	
B. Waste-water handling			X	X	X	X	X	
C. Waste incineration					X	X	X	X
D. Other (please specify)			X	X	X	X	X	X
7. Other (please specify)	X	X	X	X	X	X	X	X
Memo items								
International bunkers	X		X	X	X	X	X	X
Aviation	X		X	X	X	X	X	X
Marine	X		X	X	X	X	X	X
CO₂ emissions from biomass	X							

Notation Keys

- NO** (not occurring) for activities or processes that do not occur for a particular gas or source/sink category within a country
- NE** (not estimated) for existing emissions and removals which have not been estimated
- NA** (not applicable) for activities in a given source/sink category which do not result in emissions or removals of a specific gas
- IE** (included elsewhere) for emissions and removals estimated but included elsewhere in the inventory (Parties should indicate where the emissions or removals have been included)
- C** (confidential) for emissions and removals which could lead to the disclosure of confidential information

Table 2 National greenhouse gas inventory of anthropogenic emissions of HFCs, PFCs and SF6

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	HFCs ^{a,b} (Gg)			PFCs ^{a,b} (Gg)			SF ₆ ^a (Gg)
	HFC-23	HFC-134	Other (to be added)	CF ₄	C ₂ F ₆	Other (to be added)	
Total national emissions and removals	x	x	x	x	x	x	x
1. Energy							
A. Fuel combustion (sectoral approach)							
1. Energy industries							
2. Manufacturing industries and construction							
3. Transport							
4. Other sectors							
5. Other (please specify)							
B. Fugitive emissions from fuels							
1. Solid fuels							
2. Oil and natural gas							
2. Industrial processes	x	x	x	x	x	x	x
A. Mineral products							
B. Chemical industry							
C. Metal production	x	x	x	x	x	x	x
D. Other production							
E. Production of halocarbons and sulphur hexafluoride	x	x	x	x	x	x	x
F. Consumption of halocarbons and sulphur hexafluoride	x	x	x	x	x	x	x
G. Other (please specify)							
3. Solvent and other product use							
4. Agriculture							
A. Enteric fermentation							
B. Manure management							
C. Rice cultivation							
D. Agricultural soils							
E. Prescribed burning of savannahs							
F. Field burning of agricultural residues							
G. Other (please specify)							
5. Land-use change and forestry							
A. Changes in forest and other woody biomass stocks							
B. Forest and grassland conversion							
C. Abandonment of managed lands							
D. CO ₂ emissions and removals from soil							
E. Other (please specify)							
6. Waste							
A. Solid waste disposal on land							
B. Waste-water handling							
C. Waste incineration							
D. Other (please specify)							
7. Other (please specify)	x	x	x	x	x	x	x
Memo items							
International bunkers							
Aviation							
Marine							
CO₂ emissions from biomass							

3.2.3. Time series

3.3. Limitations and challenges

3.4. Inventory Improvement Plan

Resources:

- Tables 1 and 2 of Decision 17/CP.8
- IPCC Sectoral Reporting Tables
- US EPA Tool and Template
- GIZ BUR Template
- UNFCCC Guide for Peer Review of GHG Inventories

CHAPTER 4 MITIGATION ACTIONS AND THEIR EFFECTS

Introduction

4.1. Summary of mitigation actions and their effects

Table 3 Summary of mitigation actions from 2015-2020

Title	Duration	Type	Source of Funding	Scope	Coverage		Status
					Sector	Gas/es	
		goal / strategy / policy / projects & programmes	domestic funds / international support/ crediting mechanism	economy-wide / cross-sectoral / sector-specific / technology-based	agriculture waste industry transport forestry and other land use energy	CO2, CH4, N2O, PFCs, HFCs, SF6, NF3	completed / on-going

Table adapted from CGE Training Material for the Preparation of Biennial Update Reports from Non-Annex I Parties: Reporting Mitigation Actions and their Effects

Table 4 Summary of mitigation projects under international market mechanisms

Title	Duration	Facility	Estimated emissions reduction / avoidance	Status
				completed / on-going

4.2. Mitigation policies and measures

Option 1: Detailed matrix per mitigation action

e.g. Expansion of self-supply renewable energy systems (SSRE)							
Status [idea, planning phase, under implementation]	Implementing institution	Duration	Sector/ Subsector	Geographical scale	Quantitative targets (both GHG-related and non-GHG impacts, as applicable)	GHGs covered	
<i>Under implementation</i>	Ministry of Energy	2014-2020	Energy supply, renewable energy	National	Reduction of XXX tCO ₂ per year Reduction of PM _{2.5} concentrations by XX µg/m ³ in City X, City Y and City Z	CO ₂	
Objective of the mitigation action							
<i>Describe here the objectives of the action, including scope and goals. e.g. "The objective of the mitigation action is to reduce emissions from fossil fuel fired power plants by fostering self-supply renewable energy projects and to contribute to the long-term development of the renewable energy industry"</i>							
Brief description and activities planned under the mitigation action							
<i>Describe here the actions and steps taken to achieve the objectives. e.g. "The mitigation action will achieve the objectives through a comprehensive programme of measures to remove barriers and incentivize SSRE investments with three components: a financial component, a technical support component and an outreach component. Financial component: a tax rebate is being developed by the Treasury Office for SSRE investments Technical support component: The Ministry of Energy is coordinating with the Climate Technology Centre & Network (CTCN) to incorporate new courses on technical training on SSRE installation, operation and maintenance at accredited vocational schools in the country. Outreach component: The Ministry of Energy has developed an information campaign in cooperation with the largest utility companies in the country to promote SSRE in mailings with electricity bills."</i>							
<i>Note: Also, indicate here if the mitigation action is part of any international market mechanisms, if applicable.</i>							
Estimated outcomes and estimated emission reductions							
<i>Describe here the estimated GHG-related and non-GHG impacts of the action, both qualitative and quantitative.</i>							
Methodologies and assumptions							
<i>Describe here the methodology used to estimate the emission reductions and key assumptions taken.</i>							
General description of the monitoring and reporting system							
<i>Include here a list and description of key indicators that will be monitored.</i>							
Key indicators used							
Name of the indicator	Unit	Indicator baseline value	Indicator target value	Year baseline and target value relate to	Indicator value in the last reporting year	Reporting year (20xx)	Most relevant data sources for indicator value
Progress indicators							
e.g. Tax rebate requests	Quantity of requests	0	110,000	2020	0	2014	Treasury Office
e.g. Total installed capacity of SSRE	kW	5,000 kW	60,000 kW	2020	375 kW	2014	Treasury Office
Indicators related to GHG impacts							
e.g. Annual emission reduction	tCO ₂	8,760 tCO ₂	100,000 tCO ₂	2020	657 tCO ₂	2014	Ministry of Energy
Indicators related to sustainable development							
e.g. Yearly average PM _{2.5} concentration in City X	µg/m ³	50 µg/m ³	30 µg/m ³	2020	52 µg/m ³	2014	Municipal Environmental Authority of City X

table adapted from GIZ Information Matters (2017) BUR Template

Option 2: Simplified matrix per mitigation action

Title				Duration		
Implementing Ministry				Status (completed / on-going)		
Type	Source of Funding	Scope	Sector/s	Gas/es	Quantitative Goals	Progress Indicators
goal / strategy / policy / projects & programmes	domestic funds / international support/ crediting mechanism	economy-wide / cross-sectoral / sector-specific / technology-based	agriculture waste industry transport forestry and other land use energy	CO2, CH4, N2O, PFCs, HFCs, SF6, NF3	GHG / non-GHG	
Objectives						
Description (including activities/steps)						
Facility and credits issued / to be issued (if under international market mechanism)						
Methodologies and Assumptions (including methodology and parameters for determining goals, indicators, to the extent possible)						
Results achieved (including information on achievement on goals and indicators to the extent possible)						

table adapted from GIZ Information Matters (2017) BUR Template and guidance from CGE Training Material for the Preparation of Biennial Update Reports from Non-Annex I Parties: Reporting Mitigation Actions and their Effects

4.3. International market mechanisms

Other information on international market mechanisms

4.4. Limitations and challenges

Resources:

- BUR Template
- CGE Module on Mitigation Actions and their Effects

CHAPTER 5 SUPPORT NEEDED AND RECEIVED

Introduction

5.1. Summary of Gaps and Constraints

- 5.1.1. Vulnerabilities, risks, impacts, and adaptation
- 5.1.2. Mitigation and GHG inventory
- 5.1.3. Transparency and MRV
- 5.1.4. Accessing and mobilizing support

5.2. Support needed

5.2.1. Vulnerabilities, risks, impacts, and adaptation

Table 5 Support needed in relation to vulnerabilities, risks, impacts, and adaptation

Need identified	Supported needed	Type of support needed	Timeframe for the delivery of support

table adapted from GIZ Information Matters (2017) BUR Template

5.2.2. Mitigation and GHG inventory

Table 6 Support needed in relation to mitigation and GHG inventory

Need identified	Supported needed	Type of support needed	Timeframe for the delivery of support

table adapted from GIZ Information Matters (2017) BUR Template

5.2.3. Transparency and MRV

Table 7 Support needed in relation to MRV and transparency

Need identified	Supported needed	Type of support needed	Timeframe for the delivery of support

table adapted from GIZ Information Matters (2017) BUR Template

5.2.4. Accessing and mobilizing support

Table 8 Support needed to access and mobilize support

Need identified	Supported needed	Type of support needed	Timeframe for the delivery of support

table adapted from GIZ Information Matters (2017) BUR Template

5.3. Support received

Narrative summary

5.3.1. Support received by funding source and type

a. Multilateral sources

Table 9 Summary of support received from multilateral sources

Reporting Period:	2015-2020		
Description/remarks	(remarks) USD exchange rate:		
Funding Source	<i>Financial</i>	<i>Capacity Building</i>	<i>Technology</i>
Multilateral sources			
a) Global Environment Facility			
b) Green Climate Fund			
c) Additional funding from specialized United Nations bodies			
o United Nations Development Programme			
o United Nations Environment Program			
o United Nations Office for Project Services			
o International Fund for Agricultural Development			
d)			
e)			
Subtotal			
Total			

Table adapted from CGE Training Material for the Preparation of Biennial Update Reports from Non-Annex I Parties: Finance, Technology and Capacity-Building Needs and Support Received

b. Bilateral Cooperation and Agreements

Table 10 Summary of support received from bilateral cooperation and agreements

Reporting Period:	2015-2020					
Description/remarks	(remarks) USD exchange rate:					
Funding Source	<i>Financial</i>		<i>Capacity Building</i>		<i>Technology</i>	
Grants	Count	Amount	Count	Amount	Count	Amount
China						
European Union						
Italy						
France						
Germany						
Japan						
South Korea						
Spain						
USA						
Loans						
China						
Japan						
South Korea						
[...]						
[...]						
Subtotal						
Total						

Table adapted from CGE Training Material for the Preparation of Biennial Update Reports from Non-Annex I Parties: Finance, Technology and Capacity-Building Needs and Support Received, and NEDA ODA Review 2019

c. Multilateral Financial Institutions & Regional Development Banks

Table 11 Summary of support received from multilateral financial institutions and regional development banks

Reporting Period:	2015-2020				
Description/remarks	(remarks) USD exchange rate:				
	<i>Financial</i>		<i>Capacity Building</i>		<i>Technology</i>
Multilateral Financial Institutions & Regional Development Banks	Count	Amount	Count	Amount	Count
Loan					
Asian Development Bank					
Asian Infrastructure Investment Bank					
World Bank					
Grant					
Asian Development Bank					
World Bank					
[...]					
[...]					
Subtotal					
Total					

Table adapted from CGE Training Material for the Preparation of Biennial Update Reports from Non-Annex I Parties: Finance, Technology and Capacity-Building Needs and Support Received, and NEDA ODA Review 2019

5.3.2. Financial support received

Table 12 Financial support received for climate action

Project/Program	Fund Source	Implementing Agency	Duration	Focus	Theme/Sector	Focal Agency	Status

5.3.3. Capacity building support received

Table 13 Capacity-building support received for climate action

Project/Program	Fund Source	Implementing Agency	Duration	Focus	Theme/Sector	Focal Agency	Status

5.3.4. Technology support received

Table 14 Technology support received for climate action

Project/Program	Fund Source	Implementing Agency	Duration	Focus	Theme/Sector	Focal Agency	Status

5.4. Other concerns related to support

CHAPTER 6 SUPPORT RECEIVED FOR BUR PREPARATION

Introduction

6.1. Support received for MRV and transparency

Table 15 Support received for MRV and transparency

6.2. Strengths and limitations on support for national report preparation

Resources:

- GIZ BUR Template
- CGE Module on Support Needed and Received

CHAPTER 7 DOMESTIC MRV SYSTEM

Introduction

7.1. Philippine National MRV System

7.2. MRV system for GHG Inventory

ROLE	AGENCY
National Inventory Coordinator	
Energy Sector Lead	
Transport Sector Lead	
IPPU Sector Lead	
Agriculture Sector Lead	
Land Use, Land-Use Change, and Forestry (LULUCF) Sector Lead	
Waste Sector Lead	
Archive (Data and Document) Manager/Coordinator	
QA/QC Coordinator	
Uncertainty Analysis Coordinator	

Note: Reporting Template adapted from US EPA

7.3. MRV system for Mitigation Actions

7.4. MRV system for Means of Implementation

Resources:

- GIZ BUR Template
- US EPA Tool and Template
- UNFCCC Handbook on MRV for NAI

- CGE Handbook on Institutional Arrangements