



Initiative for Climate Action Transparency - ICAT -

Report on Non-GHG Impacts and Progress Indicators to be Tracked and Integrated into the National MRV System





Initiative for Climate Action Transparency - ICAT -

Report on Non-GHG Impacts and Progress Indicators to be Tracked and Integrated into the National MRV System

Deliverable #3

AUTHORS

John Paul Alvarez - NCCO

Kamil Salazar - NCCO

Ide Sosa - NCCO

Date of the deliverable: March 12th 2021

DISCLAIMER

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, photocopying, recording or otherwise, for commercial purposes without prior permission of UNOPS. Otherwise, material in this publication may be used, shared, copied, reproduced, printed and/ or stored, provided that appropriate acknowledgement is given of UNOPS as the source. In all cases the material may not be altered or otherwise modified without the express permission of UNOPS.

This publication has been produced as part of a component of the Initiative for Climate Action Transparency project (ICAT) implemented by UNEP DTU Partnership (UDP). The views expressed in this publication are those of the authors and do not necessarily reflect the views of UDP.

PUBLISHED BY

National Climate Change Office, Ministry of Sustainable Development, Climate Change and Disaster Risk Management, Belize.

PREPARED UNDER

Initiative for Climate Action Transparency (ICAT) project supported by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, the Children's Investment Fund Foundation (CIFF), the Italian Ministry of Ecological Transition (IMET) and ClimateWorks.



The ICAT project is managed by the United Nations Office for Project Services (UNOPS)







I would like to acknowledge and express gratitude to the staff of the National Climate Change Office (NCCO) for support in providing the essential documents and guidance in the development of this report. Additional gratitude to Federico Antonio Canu (ICAT) and Daniela Romano (ISPRA) in reviewing and providing constructive feedback throughout the process.





Table of Contents

Introduction	7
Method and Summary of Consultations	8
Analysis of non-GHG Impacts	9
Discussion	20
Potential Approach to Track non-GHG indicators	21
Conclusion	22
Reference	23
Annex 1. Calculation used to compile similar non-GHG impacts	25
Annex 2. Waste sector non-GHG impacts identified using the rank matrix	26
Annex 3. Tourism sector non-GHG impact identified using rank matrix	27
Annex 4. Agriculture sector non-GHG impacts identified using the rank matrix	28
Annex 5. Energy sector non-GHG impacts identified using the rank matrix	30
Annex 6. Transport sector non-GHG impact identified using the rank matrix	32
Annex 7. Coastal zone and Fisheries non-GHG impact identified using the rank matrix	33
Annex 8. Forestry sector non-GHG impact identified using rank matrix	36
Annex 9. Water sector non-GHG impact identified using rank matrix	39
Annex 10. Health sector non-GHG impact identified using rank matrix	40
Annex 11. Waste sector non-GHG impact and progress indicators	41
Annex 12. Tourism non-GHG impact and progress indicators	42
Annex 13. Agriculture sector non-GHG impact and progress indicators	43
Annex 14. Energy Sector non-GHG impact and progress indicators	46
Annex 15. Transport sector non-GHG impact and progress indicators	48
Annex 16 Coastal Zone/ Fisheries sector non-GHG impacts and progress indicators	49
Annex 17. Forestry sector non-GHG impact and progress indicators	52
Annex 18. Water sector non-GHG impacts and progress indicators	54
Annex 19. Health sector non-GHG impacts and progress indicators	55
Annex 20. List of stakeholders	56





List of Table

Table 1. Final non-GHG Impact and Progress Indicators...... Error! Bookmark not defined.

List of Figures

Figure 1. Rank matrix used during the consultation session. (Matrix was obtained from the	
ICAT Transformational Change Assessment Guide)	8
Figure 2. Scoring criteria used for the rank matrix. (Obtained from the ICAT	
Transformational Change Assessment Guide)	8
Figure 3. Non-GHG Impact Indicator Result from the Validation Process	0





List of Abbreviations

BEL	Belize Electricity Limited
BTB	Belize Tourism Board
BSWAMA	Belize Solid Waste Management Authority
ETF	Enhanced Transparency Framework
GDP	Growth Domestic Product
GHG	Greenhouse Gas
FAO	Food and Agriculture Organization
FPA	Fisheries Priority Areas
MPG	Modalities, Procedures and Guidelines
MRV	Monitoring, Reporting and Verification
MWh	Megawatt hour
NAMA	Nationally Appropriate Mitigation Actions
NCRIP	National Climate Resilience Investment Plan
NTFP	Non-Timber Forest Products
PET	Polyethylene terephthalate
RE	Renewable Energy
SDG	Sustainable Development Goals





Introduction

Countries are provided with the option to identify and report non-GHG impacts of mitigation policies and measures, actions and plans, including those with mitigation co-benefits resulting from adaptation actions and economic diversification plans, related to implementing and achieving a nationally determined contribution (NDC) as part of the Modalities, Procedures and Guidelines (MPGs) for Article 13 of the Paris Agreement. The MPGs were adopted as part of the Katowice Climate Package for the Enhanced Transparency Framework (ETF) (UNFCCC 2018). The identification and reporting of non-GHG impacts provide decision makers with additional inputs that are highly relevant for national development, and are therefore an important aspect needed in the process of decision making for prioritization and assessment of sustainable development contributions of climate policies.

In the context of mitigation, non-GHG impacts can be defined as the changes in economic, social and environmental impacts due to mitigation actions and policies (Initiative for Climate Action Transparency 2020). Additionally, it could also be referred to as co-benefits of adaptation actions. Ideally, these are the relevant impacts from an action or policy other than the reduction in greenhouse gas (GHG) emissions, referring to both positive and negative impacts (Singh, et al. 2016). The scope of monitoring non-GHG impacts through an appropriate system for measuring, reporting and verification (MRV) is to assist tracking of progress made towards national goals, and assess whether desired results are being achieved (Singh, et al. 2016). Tracking non-GHG impact metrics can highlight the effects of mitigation actions on Sustainable Development Goals (SDGs), for example on improving biodiversity of terrestrial ecosystems, climate change education or the quality of life and well-being of a particular community. These efforts support the targets set out in the SDGs for 2030, contributing to a balanced social, economic and environmentally sustainable planet.

Under the 2030 Agenda of Sustainable Development, ambitious goals were set to end poverty, safeguard the earth and ensure prosperity for all global citizens (Barnett and Catzim-Sanchez 2011). Through that initiative, Belize has integrated sustainable development principles into the national planning process, a result of this is a new vision for the country through the Horizon 2030. The principles adapted ensure that the strategic planning, management and monitoring of Belize's endeavours are aligned with SDGs. It is within this similar framework non-GHG impacts were identified to be monitored as part of the national MRV system for climate change. Consultation sessions were conducted in this regard to identify and prioritize relevant non-





GHG impacts by various stakeholders from civil society, government institutions and private sector.

Method and Summary of Consultations

The assessment of non-GHG impacts went through two phases. Phase one, stakeholders representing relevant sectors were presented with a list of SDG impact categories. Stakeholders identified relevant impacts correlated to national and sectoral policies, institutional polices and/or mitigation actions. Consultations were conducted via two channels, online consultations and google form surveys.

The representation of the stakeholder consultation sessions that took place during the period of October 13th, 2020 to October 16th, 2020 for prioritizing non-GHG impacts can be seen in *(Annex 2-10)*. Presented also, is the list of stakeholders that participated via the online platforms Microsoft Teams (consultation sessions) and Google Forms Survey. The consultation sessions were changed from in-person sessions to online sessions in order to accommodate and reduce the spread of COVID 19. Subsequent to the impacts being identified, the non-GHG impacts were prioritized using a rank matrix.



Figure 1. Rank matrix used during the consultation session. (Matrix was obtained from the ICAT Transformational Change Assessment Guide)

Major	3	Very likely	4
Moderate	2	Likely	3
Minor	1	Possible	2
None	0	Unlikely	1
Negative	-1	Very unlikely	0

Figure 2. Scoring criteria used for the rank matrix. (Obtained from the ICAT Transformational Change Assessment Guide)





After the consultation sessions were concluded, the prioritization process was further facilitated independently in excluding insignificant impacts which would be considered "Minor". Impacts that remained were the ones classified as both "Moderate" and "Major" with a range starting from "Very likely" to "Possible". This information was placed in a table for all sectors (Waste, Tourism, Agriculture, Energy, Transport, Coastal Zone/Fisheries, Forestry, Water and Health). Additional information on the impacts identified included in the table is their likelihood of materializing, the magnitude of impacts, a summary of the assessment of the result, and the method on how the information was gathered. Indicators for the final selection of the non-GHG impacts were identified and represented in a tabular format, including the impact category, the indicators, a description of the indicator and projects and actions that can be attributed to the impacts identified.

Analysis of non-GHG Impacts

The analysis for prioritizing the non-GHG impacts was more intricate for sectors that had a larger number of stakeholders. This is due to the fact that each stakeholder's contribution was compared for similarity and then an average was calculated to determine the likelihood and magnitude of common impacts. Impacts that were not prevalent throughout a sector were also summed and averaged. Less calculation was needed to prioritize the impacts for sectors that had only one or two representatives, such as Waste, Health and Tourism. All "minor" impacts were excluded from all sectors.

In determining significance and relevance of the impacts, the likelihood and magnitude was evaluated. Impacts that were both "Possible" and "Moderate" and "Very Likely" and "Major" were considered relevant and significant, and thus prioritized. A snapshot of the calculation done to compile stakeholder's contribution of the similar non-GHG impacts that were identified for sectors can be seen in (*Annex 1*). The prioritization was further facilitated by additional factors such as the availability of data/information/climate initiatives, that can be used to monitor the identified impacts. Finally, impacts that were found to not be related to climate change activities were also excluded from the final prioritization.

In this similar process, progress indicators were also established to monitor non-GHG impacts for validation. Indicators were referenced from the ICAT Sustainable Assessment Guide and the use of existing indicators derived from institutional policy/management plan.







Figure 3. Non-GHG Impact Indicator Result from the Validation Process

The "Yes" and "No" criteria were used to source and minimize suitable impact indicators. Stakeholders determined whether the indicators would be suitable and/or feasible to track non-GHG impacts. As evident in *Figure 3*, majority of the stakeholders' responses did not include "No" during the validation of the impact indicators. As a result, a blank slate was substituted for a zero value. The initial long list of identified impacts and indicators before refinement through further prioritization can be found in (*Annex 2 to 20*).





The process of final validation of the non-GHG impacts and indicators presented by stakeholders includes a verification process, where the initial information captured from the consultation session was further agreed upon via email. Stakeholder's responses indicated that the information included in the report was consistent with the information shared during the consultations. The final selection of non-GHG progress indicators from the stakeholder validation was further adjusted to keep in alignment with Belize's NDC. Presented in (*Table1*) are impact indicators corelated to the draft updated NDC and indicators from the validation session, encompassing contribution from the National MRV Consultant research.

ICAT Climate Action Transparency



The impacts and indicators in this table were developed and guided by the stakeholder's consultations and validation sessions, and further adjusted to the targets and actions within the draft updated NDC.

Table 1 Final non-GHG Impact and Progress Indicators

#	Non-GHG Impacts	Related NDC target	Non-GHG Impact Indicators	Comments
		Avoid emissions in the national electricity supply by 2030 through the introduction of expanded capacity from renewable energy sources	MWh of reduced imports of electricity	
			Electricity imported as percentage of primary energy supply	
1	Energy Independence		Tons of emission avoided	
1	Security or Sovereignty		Number of imported vehicles that receives emission-based taxes/feebates	
		passenger-and-tonne-kilometre through	Amount of foreign currency saved on power purchase and imported fuels	
			Tons of waste recycled	
2	Waste generation and disposal	Waste generation and avoid emissions of 18 KtCO2e per year by	Tons of PET (Polyethylene Terephthalate) recovered at transfer stations	
		management strategy	Tons of glass recovered at transfer stations	
			Tons of waste avoided	





				(Hr
	3	New business opportunities	General for all NDC actions	Proportion of men and women with new business opportunities and new established business
	4	New jobs	General for all NDC actions	Proportion of men and women with new positions established Proportion of men and women hired
			Enhance the capacity of the country's mangrove and seagrass ecosystem to act as	Number and hectares of new replenishment zones established
5			a carbon sink and strengthen adaptation and resilience benefits by expanding mangrove protection by at least 6,000 hectares by 2025	Number of monthly patrol efforts (implementation and enforcement) capacity of 2020 fisheries act and 2018 mangrove regulation implemented and enforced
	5	Fish stock sustainability		Number of interventions conducted on those systems
			managing further development of the coastline to reverse net coastal habitat and land loss by 2025	Number of identified priority species that could serve as indicators for ecosystem health
			Build capacity in fisheries and aquaculture sector through diversification and retraining to support livelihoods while protecting coastal ecosystems	Species count at spawning aggregation sites





_				teer-	
			Reduce GHG emissions related to land use change over the period from 2020 to 2030	Hectares of land protected / restored Change overtime of fuelwood collection and usage	
	6	Biodiversity of terrestrial ecosystems (15)		Number of threatened species maintained in protected areas	
			Implement protection targets of the National Biodiversity Strategy Action Plan including increased effectiveness of the National Protected Areas System by 2024	Annual maximum sustained yield maintained for timber and NTFP (Non-Timber Forest Products) stocks	
	_			Number of women/men, girls/boys who have received training	
	7	Climate change awareness	General for all NDC actions	Number of women/men, girls/boys who are familiar with the definition and key climate change concepts	
	8	Gender equality	General for all NDC actions	Ratio of women employed / trained	
	9	Food security	Reverse post-harvest losses through the implementation of the National Adaptation Strategy to Address Climate Change in the Agricultural Sector to increase the adaptive capacity of the agricultural sector	Proportion of agriculture area under productive and sustainable agriculture	





			Feet	
		Develop and implement an enhanced early warning system for drought and extreme weather events to support farmers in planning for and responding to the impacts of climate change by 2025	Number of farmers with access to early warning system for drought and extreme weather events	
			Number of households / businesses with new access to clean, reliable and affordable energy	This indicator can also be found on the Belize National Statistical System (BNSS) from the Statistical Institute of Belize (SIB)- Stakeholder response
	Access to clean, reliable		Proportion of population with access to electricity	
10	and affordable energy (SDG 7)		Number of MW of renewables installed	
			Installed Power Generation Capacity (Non-renewable thermal energy vs renewable energy)	
			MWh of renewable energy generated	
			Percentage of renewables in Electricity Mix (%).	This indicator is a part of SIB'S BNSS. Stakeholder response

ICAT	Climate Action Transparency
-------------	--------------------------------



_				teet	
	11	Capacity, skills and knowledge development (SDGs 4,12)	General for all NDC actions	Number of youth/adults, men/women who have received scientific, technological or other skills training	
	12	Access to new technology/technology transfer	General for all NDC actions	Number of people with new access to improved and environmentally sound technologies	
	13	Economic development	Build capacity in fisheries and aquaculture sector through diversification and retraining to support livelihoods while protecting coastal ecosystems	Revenue gained from the project (BZD/year) Proportion of men and women with improved income	
	13		Avoid emissions from the power sector through system and consumption efficiency measures amounting to 100 GWh/year by 2030	Amount of savings in energy expenditures	





			reele	
14	Traffic congestion (SDG 11)	Avoid emissions from the transport sector by 2030 through a 15% reduction in conventional transportation fuel use by 2030 and achieve 15% efficiency per passenger-and-tonne-kilometre through	Decrease in frequency and time spent in congestion	
		appropriate policies and investments	Number of hybrid and electric buses deployed	
15	Biodiversity of freshwater and coastal ecosystems Biodiversity of freshwater and habitats to cli managing further	Enhance the capacity of the country's mangrove and seagrass ecosystem to act as a carbon sink and strengthen adaptation and resilience benefits by expanding mangrove protection by at least 6,000 hectares by 2025	Number of interventions conducted on these ecosystems	
		Increase resilience for coastal communities and habitats to climate impacts by managing further development of the coastline to reverse coastal habitat and land loss by 2025	Number of identified priority species that could serves as indicators for ecosystem health	
16	City and community resilience	Increase the adaptive capacity of tourism sector through the development of climate resilient planning frameworks and infrastructure	Number of communities and population with access to new climate resilient infrastructure or services	
			Number of local destinations with appropriate infrastructure	





			recel	
			installed for adaptation to climate change	
		Protect communities from damage caused by flooding and sea level rise through implementation of the Land Use Policy and supporting infrastructure	Number of new projects to support climate resilient infrastructure	
17	Protection of poor and negatively affected communities	Strengthen the resilience of coastal communities by developing an early warning system for storm surges by 2025	Number of forest dependent communities and population that received support from direct and indirect threats to climate change caused by flooding and sea level rise	
		Develop and implement an enhanced early warning system for drought and extreme weather events to support farmers in planning for and responding to the impacts of climate change by 2025	Number of Climate Change projects to support resource dependent communities	
18	Public participation in policy making processes	No information on current NDC update available	Number of consulted and involved community and indigenous people (men and women) representatives in policymaking process	
19	Good health and wellbeing	Build adaptive capacity in the health sector by assessing vulnerability and investing in capacity to respond to climate-related threats	Facilitation of investments in health infrastructure	
20	Agricultural productivity and sustainability	Reduce methane emissions from livestock by 10% by 2030 and reverse emissions	Number of farmers that adopted improved crop and livestock husbandry practices	



•



-				1 CEE	
			related to the agriculturally driven land use change by 2025	Hectares of agricultural land applying agroforestry practices	
			Reverse post-harvest losses through the implementation of the National Adaptation Strategy to Address Climate Change in the Agricultural Sector to increase the adaptive capacity of the agricultural sector	Number of farmers that adopted improved soil and water management practices	
			Develop and implement an enhanced early warning system for drought and extreme weather events to support farmers in planning for and responding to the impacts of climate change by 2025	Number of farmers with access to early warning system for drought and extreme weather events	
	21	Access to adequate water supply	Enhance the protection of water catchment (including groundwater resources) areas and make improvements to the management and maintenance of existing water supply systems through implementation of the National Water Sector Adaptation Strategy and Action Plan	Number of communities and population with new access to safe, good quality and steady water supply Number of persons with economic means to access to water supply	The economic situation is usually a barrier to having access to adequate water supply. Hydrology. (Stakeholder response)





Discussion

In order to measure achievements of SDGs' impacts, both indicators and data availability are required. ICAT's Sustainable Development Guide provided the basis to assess the environmental, social, and economic impacts identified from the non-GHG impact consultation sessions. The guide provided preliminary indicators that were applicable and can be adapted as part of Belize's MRV system. The process of formulating and mapping indicators for the impacts comprised of the availability and quality of data; projects or actions in alignment with the identified non-GHG impacts; which were established by stakeholders. The indicator mapping assessment revealed that a small number of impacts are already monitored and are integrated in the different sectors. Highlighted were cross cutting impacts such as capacity, skills and knowledge development, and gender equality and empowerment of women that was visible as having a particular action or project that are already being monitored under other platforms such as BNSS. However, other impacts not identified as being related to MRV of existing actions, or data was not available as they are not tracked by existing MRV systems. A portion of this could be linked to the institution collecting the data as opposed to the MRV mechanisms. Other contributory factors are the misrepresentation of impacts being monitored, linked to the data sharing process where institutions internalize data, and if data is to be shared it has to be requested through a formal transaction between parties. Notably, this observation will be further assessed in deliverable four addressing the type of information being collected by existing MRV mechanisms in relation to the institution.

However, from the stakeholder validation process, information gathered concluded that most indicators were suitable and can be tracked as seen in *Figure 3*. Indicators that were recurrent and a priority amongst stakeholders stems from non-GHG impacts such as: new jobs, new business opportunities, climate change awareness, gender equality, access to clean, reliable and affordable energy, city and community resilience, food security and access to adequate water supply. The accompaniment of indicators generated from the NDC can provide a strong foundation to the additional indicators identified by stakeholders. The use of both elements can offer more options to the national MRV system, allowing for a wider range of non-GHG impacts to be tracked at a more accurate level.

ICAT INITIATIVE FOR Climate Action Transparency



Potential Approach to Track non-GHG indicators

As part of the framework for developing the MRV system, it is important to define indicators per impact category for the NDC, tracking to measure the performance of climate change related projects or actions, allowing for key information to measure and report NDC impacts and progress. Hence, to evaluate climate change actions, it is pertinent to have a structured system. The Nationally Appropriate Mitigation Actions (NAMA) Sustainable Development (SD) tool has been sourced as a potential means to track non-GHG indicators. It is a tool that allows users to evaluate performance indicators and it is equipped with the SDGs goals that allow for tracking the effects of NAMA on environmental conservation, economic growth, poverty reduction and public welfare (Holm, et al. 2015). Therefore, the NAMA SD tool will be integrated and adjusted to suit the specification for Belize as part of the tracking system. The tool will provide support in quantifying and evaluating SD outputs to NDC actions using the indicators as seen in (*Table 1*), or any other subsequent revision of indicators, based on the relevant actions proposed in subsequent NDC revisions. This tool will present itself as a detailed spreadsheet template with structured SD impact categories and indicators along with additional sub-assessment categories. One of the key aspects of potentially integrating this tool for Belize is the strong connection to proposed SDGs. This being a main focus of the country, the synergies will allow for easy modifications to suit the needs of Belize.





Conclusion

The assessment results from the prioritization exercise reveal that quality of data is needed to better understand the scope of an impact through existing and new indicators. Once established with supporting actions or projects, it would facilitate the process of properly tracking and capturing the effects of non-GHG impacts. An integral aspect of the system is having the suitable sustainable indicators to measure the status of climate change projects, actions and policy objectives; also taking into consideration both policy implementation and policy effectiveness. The consultation and validation sessions revealed that some identified non-GHG impacts were not climate change related, therefore those impacts were expelled from the final list. The non-GHG impacts that met the requirements were validated with a set of new and existing indicators aligning with the NDC. The outcome proved that most impacts can be tracked by the established indicators provided. It is therefore important to track this information with a robust approach, such as the NAMA SD tool which will provide the flexibility and adaptability to assess non-GHG impacts.

Overall, the sectors provided informative feedback on impacts and indicators. The consensus of both assessments highlighted that non-GHG impacts can be tracked based on the results of the validation process. Additional information on non-GHG impacts and indicators to be monitored will be further explored in deliverable four. To conclude, in order to implement a comprehensive MRV system, stakeholder engagement is fundamental to avoid sectors incapability of tracking a specific target. This process should be continual to ensure proper alignment of NDC tracking with subsequent revisions of the NDC.





Reference

- Barnett, Carla, and Adele, Humes, Dorla Catzim-Sanchez. 2011. "Final Report: Preparing Horizon 2030-Long Term National Development Framework for Belize." *Barnett & Company Ltd.* 1-163.
- Belize NDC. 2015. "Nationally Determined Contribution under the United Nations Framework Convention on Climate Change." *1CP/21 of the Paris Agreement* 1-58.
- Belize Solid Waste Management Authority, Government of Belize. 2015. "National Solid Waste Policy and Strategy and Update The National Solid Waste Management Plan." *Integrated Skills* 1-81.
- CIAT, and World Bank. 2018. "Climate-Smart Agriculture in Belize. CSA Country Profiles for Latin America and the Caribbean Series." *International Center for Tropical Agriculture (CIAT)* 1-24.
- Department of Public-Private Dialogue. 2018. "Preparation of a Comprehensive National Transportation Master Plan for Belize." *Final Report: Comprehensive National Transport Master Plan* 1-572.
- Development, Ministry of Forestry Fisheries and Sustinable. 2016. "Belize's Third National Communication to the United Nations Framework Convention on Climate Change." *National Climate Change Office* 1-2016.
- EuroPraxis Consulting Co. 2011. "National Sustainable Tourism Masterplan for Belize 2030." *Toursim & Leisure Advisory Services* 1-535.
- Food and Agricuture Organization of the United Nations. 2010. "Criteria and Indicators for Sustainable Woodfuels." *Electronic Publishing Policy and Support Branch Communication Division* 1-103.
- Forest Department. 2020. "Belize Forest Reference Level, 2001-2005." *Belmopan City: Government* 1-97.
- Holm, Karen O, Bizikova Liva, Melissa Harris, Zyaad Boodoo, Frederic Gagnon-Lebrun, and Fatemeh Bakhtiari. 2015. "Framework for Measuring Sustainable Development in NAMAs." *NAMA Partnership* 1-53.
- HYDEA SpA. 2016. "Solid Waste Master Plan for Emerging Toursim Areas." *Government of Belize, Ministry of Natural Resources and Immigration, Belize Solid Waste Managment Agency* 1-436.
- ICAT (Intiative for Climate Action Transparency). 2020. "Sustainable Development Methodology : Assessing the Environmental, Social and Economic Impacts of Policies and Actions." *Washington D.C.: World Resources Institute; Copenhagen: UNEP DTU Partnership* 1-128.
- International Monteary Fund. 2018. "Belize Climate Policy Assessement." *International Monetary Fund Washington, D.C.* 1-63.

Law Revision Commissioner. 2000. "Belize Forest Act Chapter 213." Revised edition 1-28.

Ministry of Agriculture. 2015. "National Agriculture and Food Policy of Belize." *Belmopan, Belize* 1-126.





Ministry of Agriculture, Forestry, Fisheries, the Environment and Sustainable Development. 2016. "National Biodiversity Strategy Action Plan, Belize." *Belmopan, Belize* 1-75.

Sabido, Wilber. 2015. "National Forest Policy." Belmopan City: Government 4-57.

- Satistiical Institute of Belize. 2013. "Report of the Environmental Statistics Assessment, Using the Environment Statistics Self-Assessment Tool (ESSAT)." *Framework for Development Statistics* 1-109.
- Singh, Neelam, Jared Finnegan, Levin, and Kelly. 2016. "MRV 101: Understanding Measurement, Reporting, Verification of Climate Change Mitigation." *World Resources Institute* 1-28.
- UNFCCC. 2018. "Modalities, procedures and guideliness for the transparency framework for action and support referred to in Article 13 of the Paris Agreement." *Coference of the Parties Twenty-Fourth Session Katowice* 1-36.





Annex 1. Calculation used to compile similar non-GHG impacts

Below is the calculation use for compiling similar impacts chosen by stakeholder. The example used is for the "Agriculture sector".

Climate Change Mitigation Impact

CARDI -Major/Very Likely (3*4) =12 SIRDI- Major/Possible (3*2) =6 BAHA-Major/Very Likely (3*4) =12 FAO-Major/Possible (1*2) =2 Agriculture- Major/Very Likely (3*4) =12

12+6+12+2+12=44

44/5=8.8 (Likely, Major)

Within the matrix, each cell has a value. The impact calculated is then identified to the nearest value.





Annex 2. Waste sector non-GHG impacts identified using the rank matrix

Impact			Positive or negative			Summary of assessment results for	Methods/ Sources
categories	Likelihood	Magnitude	impact	Significant	Relevant	each impact category	used
Air quality and health impacts of air pollution	Likely	Moderate	Positive	Yes	Yes	The policy is expected to have a moderate positive impact on reducing air pollution through the implementation of the Solid Waste Management Plan and actions	Stakeholder consultation
Waste generation and disposal	Likely	Major	Positive	Yes	Yes	Major positive impact on improved waste management processes through the implementation of the Solid Waste Management Plan and actions	Stakeholder consultation
Treatment of solid waste and wastewater	Likely	Moderate	Positive	Yes	Yes	Moderate positive impact on treatment of solid waste and wastewater leachate through the implementation of the Solid Waste Management Plan and actions	Stakeholder consultation
Aesthetic impacts	Likely	Major	Positive	Yes	Yes	Major positive impact on the aesthetic impacts through the implementation of the Solid Waste Management Plan and actions	Stakeholder consultation
Access to adequate sanitation	Possible	Major	Positive	Yes	Yes	Major positive impact on the access of adequate sanitation facilities through the implementation of the Solid Waste Management Plan and actions	Stakeholder consultation
Cost of policy implementation and cost effectiveness of policies	Likely	Major	Negative/ Positive	Yes	Yes	Major negative impact on the financial resources needed for policy implementation and positive impact on cost-effectiveness policy in improving sustainable waste management	Stakeholder consultation





Annex 3. Tourism sector non-GHG impact identified using rank matrix

Impact			Positive or negative			Summary of assessment results	Method/ Sources
categories	Likelihood	Magnitude	impact	Significant	Relevant	for each impact category	used
						Moderate positive impact on the	Stakeholder
						increased of new business	consultation
New business						opportunities from the	
opportunities						implementation of the Tourism	
(SDGs 8)	Likely	Moderate	Positive	Yes	Yes	Master plan and actions	
Competitiveness						Major positive impact on the	Stakeholder
of domestic						increase competitiveness of domestic	consultation
industry in global						industry in global market from the	
markets	Likely	Major	Positive	Yes	Yes	Tourism Master plan and actions	
Economic						Major positive impact on the	Stakeholder
development from						increased economic development	consultation
tourism and	Very					from tourism and ecotourism	
ecotourism	Likely	Major	Positive	Yes	Yes		
						Major negative impact on the	Stakeholder
Cost of policy						financial resource needed for policy	consultation
implementation						implementation and positive impact	
and cost-						on cost-effectiveness policy to	
effectiveness of			Negative/			improve climate resilient planning	
polices	Likely	Major	Positive	Yes	Yes	frameworks and infrastructure	





Annex 4. Agriculture sector non-GHG impacts identified using the rank matrix

			Positive				
			or			Summary of assessment	
Impact			negative			results for each impact	Method/ Sources
categories	Likelihood	Magnitude	impact	Significant	Relevant	category	used
						Major positive impact on climate	Stakeholder
Climate change						change mitigation through policy	consultation/Survey
mitigation	Very likely	Moderate	Positive	Yes	Yes	implementation and actions	
						Moderate positive impact on	Stakeholder
Biodiversity of						biodiversity of terrestrial	consultation/Survey
terrestrial						ecosystem through policy	
ecosystems	Likely	Moderate	Positive	Yes	Yes	implementation and actions	
						Major positive impact on	Stakeholder
						hunger, nutrition and food	consultation/Survey
Hunger, nutrition						security through policy	
and food security	Very likely	Major	Positive	Yes	Yes	implementation and actions	
Land-use change,						Moderate positive impact on	Stakeholder
including						land-use change, including	consultation/Survey
deforestation,						deforestation, forest degradation	
forest						and desertification through	
degradation and						policy implementation and	
desertification	Possible	Moderate	Positive	Yes	Yes	actions	
						Moderate positive impact on soil	Stakeholder
			.			management through policy	consultation/Survey
Soil quality	Likely	Moderate	Positive	Yes	Yes	implementation and actions	~
.						Moderate positive impact on	Stakeholder
Income of small-						improved income of small-scale	consultation/Survey
scale food			.			food producers through policy	
producers	Likely	Moderate	Positive	Yes	Yes	implementation and actions	





Climate change						Moderate positive impact on	Stakeholder
education, public						climate change education, public	consultation/Survey
awareness,						awareness, capacity-building and	
capacity-building						research through policy	
and research	Very likely	Moderate	Positive	Yes	Yes	implementation and actions	

Economic						Moderate positive impact on economic productivity through policy implementation and	Stakeholder consultation/Survey
productivity	Likely	Moderate	Positive	Yes	Yes	actions	
						Moderate positive impact on	Stakeholder
Growth of new						growth of new sustainable	consultation/Survey
sustainable						development through policy	
development	Possible	Moderate	Positive	Yes	Yes	implementation and actions	
						Moderate positive impact on the	Stakeholder
Competitiveness						increase of competitiveness of	consultation/Survey
of domestic						domestic industry in global	
industry in global						markets through policy	
markets	Likely	Moderate	positive	Yes	Yes	implementation and actions	
						Moderate positive impact on the	Stakeholder
Agricultural						increase of agricultural	consultation/Survey
productivity and						productivity and sustainability	
sustainability	Likely	Moderate	Positive	Yes	Yes	through policy implementation	
						Moderate positive impact on	Stakeholder
Gender equality						gender equality and	consultation/Survey
and						empowerment of women	
empowerment of						through policy implementation	
women	Likely	Moderate	Positive	Yes	Yes	and actions	





Annex 5. Energy sector non-GHG impacts identified using the rank matrix

Impact			Positive or negative			Summary of assessment results for each	Method/
categories	Likelihood	Magnitude		Significant	Relevant	impact category	Sources used
						Moderate positive impact on reduced	Stakeholder
						depletion of non-renewable resources	consultation/
						through the implementation of the National	Online survey
Depletion of non-						Energy Action plan, mitigation action and	
renewable resource	Likely	Moderate	Positive	Yes	Yes	or institutional policy	
						Major positive impact on access to clean,	Stakeholder
						reliable and affordable electricity through	consultation/
Access to clean,						the implementation of the National Energy	Online survey
reliable and						Action plan, mitigation action and or	
affordable energy	Very likely	Major	Positive	Yes	Yes	institutional policy	
						Moderate positive impact on the increase of	Stakeholder
						training for skilled workers in energy	consultation/
						statistics and sustainable energy	Online survey
Capacity, skills and						management through the implementation of	
knowledge	- ·· ·		.			the National Energy Action plan, mitigation	
development	Likely	Moderate	Positive	Yes	Yes	action and or institutional policy	~
~~ .						Moderate positive impact on the increase in	Stakeholder
Climate change						climate change education, public	consultation/
education, public						awareness, capacity-building and research	Online survey
awareness, capacity						through the implementation of the National	
building and			_			Energy Action plan, mitigation action and	
research	Likely	Moderate	Positive	Yes	Yes	or institutional policy	

Public participation in policymaking						Moderate positive impact to increase public participation in policy making process through the implementation of the National Energy Action plan, mitigation	Stakeholder consultation/ Online survey
process	Likely	Moderate	Positive	Yes	Yes	action and or institutional policy	





						reer-	
Access to new technology/tech nology transfer	Likely	Moderate	Positive	Yes	Yes	Moderate positive impact on access to new green technologies through the implementation of the National Energy Action plan, mitigation action and or institutional policy	Stakeholder consultation/ Online survey
New business opportunities	Likely	Moderate	Positive	Yes	Yes	Moderate positive impact on increased business opportunities within the energy sector through increased rate of investment and the implementation of the National Energy Action plan, mitigation action and or institutional policy	Stakeholder consultation/ Online survey
Air quality and health impacts of air pollution	Likely	Moderate	Positive	Yes	Yes	Moderate positive impact on reduced air pollution through the implementation of the National Energy Action plan, mitigation action and or institutional policy	Stakeholder consultation/ Online survey
Access to information and public awareness	Likely	Moderate	Positive	Yes	Yes	Moderate positive impact on increased access to energy information public awareness of sustainable energy source through the implementation of the National Energy Action plan, mitigation action and or institutional policy	Stakeholder consultation/ Online survey
Energy independence security or sovereignty	Very likely	Major	Positive	Yes	Yes	Major positive impact on increased energy independence from reduced imports of fossil fuel and foreign control through the implementation of the National Energy Action plan, mitigation action and or institutional policy	Stakeholder consultation/ Online survey





Annex 6. Transport sector non-GHG impact identified using the rank matrix

			Positive				
			or				Method/
Impact			negative			Summary of assessment results for each	Sources
categories	Likelihood	Magnitude	impact	Significant	Relevant	impact category	used
						Moderate positive impact on increase	Stakeholder
						transportation supply chains through	consultation
Turnerentation						implementation of the transportation master	
Transportation supply chains	Likely	Moderate	Positive	Yes	Yes	plan institutional policy and mitigation action	
Infrastructure	LIKCIY	Wilderate	TOSITIVE	105	105	Moderate positive impact on infrastructure	Stakeholder
creation,						development and improvement through the	consultation
improvement						transportation master plan	
and							
depreciation	Likely	Moderate	Positive	Yes	Yes		
City and						Moderate positive impact on the	Stakeholder
community						improvement on city and community	consultation
climate	T '1 1		D ''	37	37	climate resilience through the transportation	
resilience	Likely	Moderate	Positive	Yes	Yes	master plan Moderate positive impact on reduced air	Stakeholder
Air quality						pollution from the promotion of efficient	consultation
and health						vehicles through the implementation of the	consultation
impacts of air						transportation master plan, institutional	
pollution	Likely	Moderate	Positive	Yes	Yes	policy and or mitigation action	
						Moderate positive impact on reduced noise	Stakeholder
						pollution through the implementation of the	consultation
Noise	x ·1 1		D	*7	* 7	transportation master plan, institutional	
pollution	Likely	Moderate	Positive	Yes	Yes	policy and or mitigation action	0, 1, 1, 1, 1
						Moderate positive impact on improved traffic congestion through the	Stakeholder consultation
						implementation of the transportation master	consultation
Traffic						plan, institutional policy and or mitigation	
congestion	Likely	Moderate	Positive	Yes	Yes	action	





						Major positive impact on increase road	Stakeholder
						safety through the implementation of the	consultation
						transportation master plan, institutional	
Road safety	Very likely	Major	Positive	Yes	Yes	policy and or mitigation action	

Annex 7. Coastal zone and Fisheries non-GHG impact identified using the rank matrix

			Positive				
.			or				A F (1 - 1 /
Impact			negative			Summary of assessment results for	Method/
categories	Likelihood	Magnitude	impact	Significant	Relevant	each impact category	Sources used
						Major positive impact on increasing fish	Stakeholder
						stock sustainability through the	consultation/O
						implementation of both the Coastal zone	nline survey
						management plan, fisheries management	-
Fish stock	Very					plan, institutional policy and or	
sustainability	Likely	Major	Positive	Yes	Yes	mitigation action	
						Moderate positive impact on the	Stakeholder
						increased conservation and protection of	consultation/
						freshwater biodiversity and coastal	Online survey
						ecosystem through the implementation	-
Biodiversity						of both the coastal zone management	
of freshwater						plan, fisheries management plan,	
and coastal						institutional policy and or mitigation	
ecosystems	Likely	Moderate	Positive	Yes	Yes	action	

						Moderate positive impact on improved city and	Stakeholder
City and						community climate resilience through the	consultation/
community						implementation of both the coastal zone	Online
climate						management plan, fisheries management plan,	survey
resilience	Likely	Moderate	Positive	Yes	Yes	institutional policy and or mitigation action	2





CALC						
					Moderate positive impact on increased economic productivity resilience through the	Stakeholder consultation/
					implementation of both the coastal zone	Online
					management plan, fisheries management plan,	survey
ry likely 1	Moderate	Positive	Yes	Yes	institutional policy and or mitigation action	
					Major positive impact on employment generation	Stakeholder
					and foreign exchange earnings through the	consultation/
					implementation of both the coastal zone	Online
					management plan, fisheries management plan,	survey
ry likely 1	Major	Positive	Yes	Yes	institutional policy and or mitigation action	
					Moderate positive impact on improved quality of	Stakeholder
					life and well-being through the implementation	consultation/
						Online
					fisheries management plan, institutional policy	survey
ely l	Moderate	Positive	Yes	Yes	and or mitigation action	
					Moderate positive impacts on improved	Stakeholder
						consultation/
						Online
						survey
					management plan, fisheries management plan,	
ely l	Moderate	Positive	Yes	Yes	institutional policy and or mitigation action	
					Major positive impact on improved food security	Stakeholder
					by sustainable management of marine resources	consultation/
					through the implementation of both the coastal	Online
					zone management plan, fisheries management	survey
ely I	Major	Positive	Yes	Yes	plan, institutional policy and or mitigation action	
	y likely	y likely Major ly Moderate ely Moderate	y likely Major Positive ly Moderate Positive ely Moderate Positive	y likely Major Positive Yes ly Moderate Positive Yes ely Moderate Positive Yes	y likely Major Positive Yes Yes ly Moderate Positive Yes Yes ely Moderate Positive Yes Yes	y likelyModeratePositiveYesYesModerate positive impact on increased economic productivity resilience through the implementation of both the coastal zone management plan, fisheries management plan, institutional policy and or mitigation actiony likelyMajorPositiveYesYesMajor positive impact on employment generation and foreign exchange earnings through the implementation of both the coastal zone management plan, fisheries management plan, institutional policy and or mitigation actiony likelyMajorPositiveYesYesModerate positive impact on improved quality of life and well-being through the implementation of both the coastal zone management plan, fisheries management

						Moderate positive impact on increased	Stakeholder
						alternative livelihood opportunities through the	consultation/
Alternative						implementation of both the coastal zone	Online
livelihood						management plan, fisheries management plan,	survey
opportunities	Likely	Moderate	Positive	Yes	Yes	institutional policy and or mitigation action	-





						1666	
Recreational and tourism benefits	Likely	Major	Positive	Yes	Yes	Major positive impact on increase recreational and tourism benefits through the implementation of both the coastal zone management plan, fisheries management plan, institutional policy and or mitigation action	Stakeholder consultation/ Online survey
Marine spatial planning	Likely	Major	Positive	Yes	Yes	Major positive impact on improvement of assessing temporal changes and distribution within marine areas through the implementation of both the coastal zone management plan, fisheries management plan, institutional policy and or mitigation action	Stakeholder consultation/ Online survey
Climate change education, public awareness, capacity building and research	Likely	Moderate	Positive	Yes	Yes	Moderate positive impact on climate change education, public awareness, capacity building and research through the implementation of both the coastal zone management plan, fisheries management plan, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey
Public participation in policymaking process	Possible	Major	Positive	Yes	Yes	Major positive impact on increasing public participation in policymaking process through the implementation of both the coastal zone management plan, fisheries management plan, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey





Annex 8. Forestry sector non-GHG impact identified using rank matrix

Impact categories	Likelihood	Magnitude	Positive or negative impact	Significant	Relevant	Summary of assessment results for each impact category	Methods/ Sources used
Biodiversity of terrestrial ecosystem	Very likely	Major	Positive	Yes	Yes	Major positive impact on increase conservation and protection biodiversity of terrestrial ecosystem through the implementation of the National Forest policy, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey
Land-use change, including deforestation, forest degradation and desertification	Very likely	Major	Positive	Yes	Yes	Major positive impact on efforts to reduce land change, including deforestation, forest degradation and desertification, through the implementation of National Forest policy, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey
Resilience of ecosystem to climate change	Likely	Moderate	Positive	Yes	Yes	Moderate positive impact on improved initiatives for resilience of ecosystem to climate change, through the implementation of National Forest policy, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey
Resilience to dangerous climate	Likely	Moderate	Positive	Yes	Yes	Moderate positive impact on increased vulnerability approaches to improve resilience to dangerous	Stakeholder consultation/ Online Survey




						. Keeke	
change and extreme weather						climate change and extreme weather on forest and forest-	
Gender equality and the empowerment of women	Likely	Moderate	Positive	Yes	Yes	dependent communities.Moderate positive impact on increased representation and inclusivity of women from the implementation of National Forest policy, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey
Protection of poor and negatively affected communities	Likely	Moderate	Positive	Yes	Yes	Moderate positive impact on the increased protection of poor and negatively affected communities through the implementation of the National Forest policy, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey
Capacity, skills and knowledge development	Possible	Moderate	Positive	Yes	Yes	Moderate positive impact on increased training and knowledge development through the implementation of National Forest policy, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey
Climate change education public awareness, capacity- building and research	Possible	Moderate	Positive	Yes	Yes	Moderate positive impact on increased climate change education public awareness, capacity-building and research through the implementation of National Forest policy, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey





						1 CEE	
Public participation in policy making processes	Likely	Moderate	Positive	Yes	Yes	Moderate positive impact on increased public participation in policy making processes through the implementation of National Forest policy, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey
Access to information and public awareness	Likely	Moderate	Positive	Yes	Yes	Moderate positive impact on improve access to information and increase public awareness on sustainable forest initiatives through the implementation of National Forest policy, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey
Access to land	Possible	Moderate	Positive	Yes	Yes	Moderate positive impact to increase access to land for indigenous people through the implementation of National Forest policy, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey
Indigenous rights	Possible	Moderate	Positive	Yes	Yes	Moderate positive impact increasing progress towards recognition of the rights of indigenous people through the implementation of the National Forest policy, institutional policy and or mitigation action	Stakeholder consultation/ Online Survey





Annex 9. Water sector non-GHG impact identified using rank matrix

			Positive				
			or				Methods/
Impact			negative			Summary of assessment results for each	Sources
categories	Likelihood	Magnitude	impact	Significant	Relevant	impact category	used
						Major positive impact on increased water	Stakeholder
						quality assessment through the implementation	consultation
						of the National Water Master Plan, National	
						Water Safety plan, institutional policy and or	
Water quality	Very likely	Major	Positive	Yes	Yes	mitigation action	
						Moderate positive impact on increased	Stakeholder
						assessment of the availability of freshwater for	consultation
						the country through the implementation of the	
						National Water Master Plan, National Water	
Availability						Safety plan, institutional policy and or	
of freshwater	Very likely	Moderate	Positive	Yes	Yes	mitigation action	~
						Major positive impact on improved access to	Stakeholder
						adequate water supply through the	consultation
Access to						implementation of the National Water Master	
adequate	x ·1 1	NC .	D	X 7	37	Plan, National Water Safety plan, institutional	
water supply	Likely	Major	Positive	Yes	Yes	policy and or mitigation action	0.1.1.11
						Major positive impact on increased sustainable	Stakeholder
						of water extraction and management through	consultation
Water						the implementation of the National Water	
	Likala	Maior	Docitivo	Yes	Yes	Master Plan, National Water Safety plan,	
extraction	Likely	Major	Positive	res	res	institutional policy and or mitigation action	Stakeholder
						Major positive impact on improved access to	consultation
Access to safe						safe drinking water through the implementation of the National Water Master Plan, National	consultation
drinking						Water Safety plan, institutional policy and or	
water	Likely	Major	Positive	Yes	Yes	mitigation action	
water	LIKCIY	wiajoi	1 0811100	105	103		





Annex 10. Health sector non-GHG impact identified using rank matrix

			Positive				
			or				Methods/
Impost						Summany of accordment regults for	Sources
Impact	T 11 111	N	negative	CI	DI	Summary of assessment results for	
categories	Likelihood	Magnitude	impact	Significant	Relevant	each impact category	used
Accessibility and						Major positive impact on improved	
quality of						accessibility and quality of healthcare	Online
healthcare (SDG						through the implementation through of	survey
3)	Very Likely	Major	Positive	Yes	Yes	Belize Health Sector Strategic Plan	
						Major positive impact on strengthening	
						disease surveillance and reinforcement,	Online
Illness and health						through the implementation through of	survey
(SDG 3)	Likely	Major	Positive	Yes	Yes	Belize Health Sector Strategic Plan	
Gender equality						Moderate positive impact on reducing the	
and empowerment						gaps in gender equality and empowerment	Online
of women (SDG						of women through the implementation of	survey
5)	Likely	Moderate	Positive	Yes	Yes	Belize Health Sector Strategic Plan	
Cost of policy						Moderate positive impact on increased	
implementation						coverage of Belize Health information	Online
and cost-						System to rural and outlying areas through	survey
effectiveness of						the implementation of Belize Health Sector	-
policies	Likely	Moderate	Positive	Yes	Yes	Strategic Plan	
	÷					Moderate positive impact on addressing	
						and assessing the issues on poverty through	Online
Poverty reduction						the implementation of Belize Health Sector	survey
(SDG 1)	Very Likely	Possible	Positive	Yes	Yes	Strategic Plan	5
Climate change						Moderate positive impact on increased	
education, public						climate change education, public	Online
awareness,						awareness, capacity building and research	survey
capacity-building						to link climate change impacts to the	5
research	Likely	Moderate	Positive	Yes	Yes	increase for infectious disease through the	





		implementation of Belize Health Sector	
		Strategic Plan	

Finalizing non-GHG impact and progress indicators to be integrated into the National MRV system

The structured tables below are the process of finalizing the selection of non-GHG Impacts identified and prioritized to be tracked in the implementation of the NDC, including the established progress indicators which is a combination of existing and new indicators. The table is comprised of the 'Description' (what the indicator will measure), and 'Projects or Actions' (what initiatives are in place to monitor the impacts). Additional information to be included is on data availability and whether the indicator is existing or new. The bolden indicators in the table are presented as existing indicators. **Note**: The non-GHG impact presented are drawn from the sectors own wish to be tracked. Indicators were established on the premise existing and new indicators from the Sustainable Development Assessment Guide

Annex 11. Waste sector non-GHG impact and progress indicators

Impact category	Indicators	Description	Projects/Actions
Air quality and health		Track the burning of waste, typically done in	N/A
impacts of air pollution	Emission of air	open low-temperature fires affecting	
(SDGs 3,11,12)	pollutants (t/year)	groundwater, soil and air	
	-Percentage of		Data is available, existing indicator used as of 2019
	waste recycled	-Recycled waste by material	flow of solid waste from transfer station to landfill
	-Flow of solid	Track the amount of waste generated and	(Cumulative tonnage)
Waste generation and	waste (Metric	setting limits to waste generated.	
disposal	tons)		





Annex 12. Tourism non-GHG impact and progress indicators

Impact category	Indicators	Description	Projects/Actions
	-Number of new		Project: Attract foreign direct investment and international
	sustainable tourism		tourism companies' brands
	business ventures	-Measure the amount new established	(Ongoing)
New business	-Amount of new	sustainable tourism ventures and	
opportunities	business investments	investment made in small business in	
(SDGs 8)		the tourism industry	
			Action- Integrated destination development
			(Competitiveness & sustainability goal). Allows for the
			better management of resources
	-Value of service in		Action- Experimental quality enhancement
Competitiveness of	relation to the global	-Measure tourist destination experiences	(Competitiveness Goal). To increase visitor satisfaction in
domestic industry in	markets	regional/national with international	Belize as a tourist destination that will ultimately result in
global markets	-Price ratio to quality	markets	increased customer loyalty and competitive positioning
			Project: Ecotourism and adventure Routes
			(ongoing)
	-Employment rate in	-Measure the employment rate within	
	the tourism industry	the tourism industry (direct/indirect)	Project: Integral Development of Ecotourism and
Economic development	-Tourism GDP as a		adventure Sites
from tourism and	proportion of total	-Measure the country economic growth	(11years, starting 2015)
ecotourism	GDP	from tourism industry	
	-Cost efficiency	-Measure the Economic value of policy	Project-Office network management.
	assessment	implementation (Cost Benefit Analysis)	Elaboration of annual goals, operations, budget, marketing
Cost of policy	-Annual cost-	-Monitor the effectiveness of marketing	and financing plan by source market (continuous)
implementation and cost-	effectiveness	actions	
effectiveness of polices	calculation		





Annex 13. Agriculture sector non-GHG impact and progress indicators

Impact category	Indicators	Description	Projects/Actions
Climate change mitigation (SD13)	-Net emissions of short- lived climate pollutants	Measure short live pollutants in the environment	Action-Promote best practices in disaster risk management (DRM) and climate adaptation (CCA) Action: Sustainable agriculture and risk management.
Biodiversity of terrestrial ecosystems (15)	-Quality of ecosystem service -Damage to ecosystem from agriculture practices (potential affected fraction of species)	 More indicators are needed to track impacts of biodiversity of terrestrial ecosystem to capture the overall impacts. Quality of ecosystem service- Measure the quality of provisioning, regulating and cultural services. Measure the affected forested area and species richness from agricultural practices 	Focuses on climate change adaption, environmentally sound production practices, conservation of natural resources, and risk management mechanisms such as crop insurance
Hunger, nutrition and food security	-Food consumption as a proportion of total household expenditure -Average food supply (per capita) -Nutrition monitoring and surveillance -Existence of adequate storage facilities -Agriculture imports/exports	 Measure the affordability of food products to household consumption Measure the availability countries average food supply Measure the quality and safety of the country's nutrition Measure the country's food storage supply Measure the country's food dependency and stability on the number of products imported and exported 	Action -Establish an integrated system that harmonizes and coordinates of key food and nutrition Action-National food and nutrition security and rural development- Ensures food security for the country and providing opportunities for rural people including women and youth to generate income from productive activities
Land-use change, including deforestation, forest degradation and desertification	-Hectare of degraded and deforested land -Proportion of land -use types	-Measure the area of degraded and deforested land from agriculture practices	Support development of carbon sequestration and other Agro-Ecological services through services through good agricultural practices





	6	reel
-Percent of the total land	-Measure the country's agriculture	Action-Promote reduced deforestation through
area suited for	land-use type proportionate to forest	intensification and increased productivity in areas
agriculture proportionate	cover	under cultivation
to country land cover		
-Ratio degraded land	-Measure the area of degraded land	Improve land and water governance and management
upgraded	converted to sustainable farm areas	systems
-Area of forest under	(Agroforestry)	Action-Develop and implement action plans to
sustainable forest	-Measure the number of existing and	enhance watershed management and reduce land
management	new terrestrial protected areas	degradation
-Soil fertility index	-Measure the soil property from	Project- To enhance the productivity of banana farms
-Acidity(pH)		through integrated soil fertility management (2018)
	pH content	
-Extent of soil erosion	-Measure the mean annual rate of soil	
	erosion	
		Project- FAO, Initiative For Soaring Food Price
		(ISFP), Extension Service distributed to farmers in all
		districts seeds and seedlings, tools and equipment's to
		boost small farmer production (2010 agriculture
		report)
		Action- Expand employment and income generating
		opportunities for marginalized communities
		-Increase support for small farmers and promote
-Investment made for small		entrepreneurship and home food production
food producer business	-Measure of new investment made in	-Establish links between small farming agriculture
projects	small local farm businesses	and promotion of ecotourism
-Number of women/men,	-Measure the proportion of males and	Action-Improve knowledge Management
girls/boys who have	females that partake in agriculture	Action- Collaborate with the Ministry of Education to
received training	activity that received training on	develop specific school-based programs
č	climate change impacts related issues	
-Agriculture productivity	- Measure the country agriculture	Action-Production, pricing, marketing arrangements
		for three traditional commodities were implemented
		L
hectare)		by the Sugar, Banana, and Citrus Control Boards
	area suited for agriculture proportionate to country land cover -Ratio degraded land upgraded -Area of forest under sustainable forest management -Soil fertility index -Acidity(pH) -Extent of soil erosion -Investment made for small food producer business projects -Number of women/men, girls/boys who have received training	-Percent of the total land area suited for agriculture proportionate to country land cover-Measure the country's agriculture land-use type proportionate to forest cover-Ratio degraded land upgraded-Measure the area of degraded land converted to sustainable farm areas (Agroforestry)-Area of forest under sustainable forest management-Measure the number of existing and new terrestrial protected areas-Soil fertility index -Acidity(pH)-Measure the soil property from agriculture practices and examining for pH content-Extent of soil erosion-Measure the mean annual rate of soil erosion-Investment made for small food producer business projects-Measure of new investment made in small local farm businesses-Number of women/men, girls/boys who have received training-Measure the proportion of males and females that partake in agriculture activity that received training on climate change impacts related issues





	Fett				
	-Number of new green	-Measure the number of new green	-The policy incorporates five areas of sustainable		
Growth of new	projects	projects/investment being developed	development: economic, social, environmental,		
sustainable development			technical and political/institutional.		
	-Market share	-Measure the country agriculture			
	-Quantity/value of exports	revenue proportionate to sales which			
	-Balance of trade	would give an estimated standing			
	-Export-Average annual	among competitors			
	growth rate in	-Measure the quantity exported relative			
	agricultural exports	to unit price			
Competitiveness of		-Track changes in imports and exports	Action-Promote industry competitive		
domestic industry in		And net agriculture trade balance (pre	investments plans for prioritized value chains		
global markets		se)	Action-Improve the marketing infrastructure		
	-Agriculture yield in	-Measure the maximum sustainable			
	relation to sustainable	yield for agriculture products	Action-Improve land and water governance and		
Agricultural productivity	practices		management system		
and sustainability	-Total agriculture output				
	-Average income for	-Measure the average yearly income of			
	women/men	women/men			
	-Proportion of women in	-Measure the ratio of women in the	Action Target producers and processors who		
	the labor force	labor force proportionate to men	Action- Target producers and processors who		
	-Proportion of women in		might not be accommodated in the Agriculture		
Gender equality and	senior government		and Food Sector with a special focus on gender		
empowerment of women	positions		and youth		





Annex 14. Energy Sector non-GHG impact and progress indicators

Impact category	Indicators	Description	Projects/Actions
	-Consumption of mineral		
		-Measure the quantity of mineral consumed in	
	-Consumption of fossil	units such as tones	
	fuels	-Measure the quantity of fossil fuel consumed	
Depletion of non-		in units such as tones	
renewable resource	-Scarcity of resources	-Measure the quantity of resources initially	
(SDG 12)		remaining proportionate to what is available	N/A
	-Percentage of population		
	with access to clean,	-Measure the percentage of population access	
	reliable and affordable	to electricity	
	energy		
Access to clean, reliable	-Number and length of	-Measure the average frequency and duration	
and affordable energy	service interruptions	of electricity distribution outages	
(SDG 7)	-Price of energy	-Measure the energy price fluctuation rates	N/A
	-Proportion of youth and	-Measure the percentage of population (aged	
	adults with scientific,	16 and over) with scientific, technological or	
	technological or other	other skills, by type skill	
Capacity, skills and	skills, by type of skill	-Measure the percentage of farmers who have	Action-Providing public and private
knowledge development	-Number of people who	received training in sustainable agriculture	operators with skills to assess,
(SDGs 4,12)	have received training	practices	design, and implement EE projects
	-Number of people who		
	have received training		
	-Extent to which climate		
	change education is		
	mainstreamed in the	-Measure the percentage of farmers who have	
Climate change	national education polices,	received training in climate change mitigation	
education, public	curricula, teacher education	and adaptation	
awareness, capacity	and assessment	-Measure the number of schools that have	Action-Energy efficiency awareness
building and research		embedded climate change in their curriculum	in schools





		Refer	
Public participation in policymaking process	-Proportion of community representation that are involve in policymaking process	-Measure community representation in policymaking process through the number of participations	N/A
Access to new technology/technology transfer	-Percentage of population with access to new technology/technology transfer	-Measure the percentage of population that have access to clean and environmentally sound technology	Project: Energy for Sustainable Development in the Caribbean (ESD-Caribes) -The main objective is sustainable energy use through energy efficiency and renewable energy intervention technologies within the project activities
New business opportunities (SDG 8)	-Amount of new investment -Number of active long- term partnerships	-Measure the number new business opportunities in sustainable energy production - Measure the number of new long-term partnership that contributes to knowledge sharing, funding, technologies	N/A
Air quality and health impacts of air pollution	-Air quality index -Concentration of air pollutants (mg/m3) -Emission of air pollutants such as particulate matter	-Measure air concentration from fossil fuel- based plants, fossil fuel extraction	N/A
Access to information and public awareness	-Proportion of population with access to information and public awareness	-Percentage of population with access to sustainable energy information and information on the impacts of climate change	N/A
	 -net imports of fossil fuel (coal, oil, natural gas} -Total Primary Energy Supply (TPES) 		-Transition toward renewable energy is sought as the most viable solution to improve energy security. Projects: University of Belize
Energy independence security or sovereignty		-Measure the country's total imports of fossil fuel from foreign countries proportionate to the countries production	Energy Solar Project (2011-2012) Caye Caulker Renewable Energy Water Supply Project 2015





Annex 15. Transport sector non-GHG impact and progress indicators

Impact category	Indicators	Description	Projects/Actions
	-Percentage of the	-Measure the proportion of the	N/A
	population that is satisfied	population satisfaction rate with	-Consider how impacts on the supply chain may affect
	with the transportation	transportation network (survey)	airport operations
Transportation supply	network		
chains			
	-Improvements in	-Measure the improvements made in	Action-Integrating climate change adaptation and
	community-wide road	community road development from	resilience to transport infrastructure planning
	development	the number of projects being initiated	
Infrastructure creation,	-Road life span	and completed	
improvement and	-Number of alternative	-	
depreciation	infrastructures		
		-Measure the new investments made	Action-Ensuring that climate resilience is integrated into
	-Number of resilience	to increase resilience of the	urban planning and infrastructure
	investments	transportation system	Project-Climate Resilience Project
City and community			Action- Implementing the National Climate Resilience
climate resilience			Investment Plan (NCRIP)
	-Concentration pf air	-Measure air concentration frequent	Action-Convention of International Civil Aviation
Air quality and health	pollutants (mg/m3)	traffic areas	(ICAO)-The country is obliged to comply with the
impacts of air			standard and recommended practices under the
pollution			convention. Reduce the impact of aviation on local air
(SDGs 3,11,12)			quality
	-Noise level (decibels)	-Measure the noise concentration	Impact assessment of projects (General considerations
Noise pollution		levels in frequent traffic areas	about the measures included in the Action Plan)
	-Time lost during	-User satisfaction survey result can	Action-Capacity increase to accompany traffic growth
Traffic congestion	transportation	identify motorist, transit user's	and reduce air traffic congestion
(SDG 11)	-Economic cost of time lost	transportation experience	
	-Number of deaths and	-Measure the number of deaths and	Project: Implementation of Road Safety Project
	injuries from road traffic	injuries from road traffic accidents	
Road safety	accidents per year	per year	





Annex 16 Coastal Zone/ Fisheries sector non-GHG impacts and progress indicators

Impact category	Indicators	Description	Projects/Actions
	Mariana and include	-Is the largest catch that can be captured	
Eish at a la	-Maximum sustainable	from a fish stock under existing environmental conditions and is sustained	
Fish stock	yield (MSY)		Manage Assess December (Section 11, Section and and
sustainability	Duon oution of maxima and	over-time	Manage Access Program (Sustainable fishing program)
	-Proportion of marine area	Measure the number of maxima must at a	-Data is available for the indicators presented
	protected	-Measure the number of marine protected areas under strict conservation	Action: Eichemics Drichity Areas (EDAs) and acustic
	-Proportion of fish stocks within safe biological limits	-Percentage of fish stock that are exploited	Action: Fisheries Priority Areas (FPAs) and aquatic reserves must be identified, designated and managed to
	-Percentage of fish tonnage	within the level of maximum sustainable	better bridge the gap between biodiversity conservation
Biodiversity of	landed with maximum	vield	and food security
freshwater and	sustainable yield	-Measure the fishing capacity of fleet size	and food security
coastal ecosystems	sustainable yield	with maximum sustainable yield	
		-Number of coastal communities that are	National Climate Resilience Investment plan (NCRIP)-
	-Proportion of the coastal	most at risk from natural disasters	The plan is focused mostly on infrastructure
	community that is most		F
	vulnerable to natural	-Number of improved or new intervention	
	disasters	in place for coastal communities	
	-Number of community-	-Skills and experience developing and	
	based adaptation	evaluating adaptation solutions	
City and community	interventions	-Monitoring and Protecting in	
climate resilience		Infrastructure	
	-Revenues generated from		Action: Development of Fisheries Value Chain and
	fisheries priority areas and	-Measure the socio-economic returns from	Blue Economy is Critical for Belize's Economic
Economic	aquatic reserves	fisheries priority areas and aquatic	Development (National Fisheries Policy
Productivity		reserves	
		-Measure the contribution of travel and	
Economic		tourism to % GDP	
development from	-Revenue from tourism	-Measure the number of direct and indirect	
tourism and	-Tourism GDP as a	related tourism jobs generated in coastal	
ecotourism	proportion of total GDP	areas proportionate to jobs	





		`	Reek .
	-Number of jobs in tourism		
	industries as a proportion of		
	total jobs, and growth rate		
	-Proportion of coastal		
	community that have		
Quality of life and	experience improvement in	-Percentage of the coastal community	
well-being (SDG 3)	quality of life	satisfied with standard of living	N/A
	-Extent of land use		
Loss of damage	planning policies to address		Action-Information on estimates from past storms,
associated with	coastal communities and	-Percentage of coastal community with	NEMO has some information, however lands
environmental	agricultural lands from	access to support from environmental	information center (LIC) that carries out damage
impacts	natural hazards	impacts	assessment
		-Measuring the health status of	Action- Management research, fisheries research and
	-Health status of mangrove	mangrove and fisheries system can	bioprospecting are foundational pillars for the fisheries
	ecosystem and reef-based	determine the stability of and longevity	sector
Food security	fisheries	of food security and the economy	Research is crucial to improve food and nutrition
roou security	-Proportion of the coastal	of food security and the economy	security, increase income and improve livelihoods
Alternative	community that have access	-Measure the percentage of community	
livelihood	to alternative livelihood	that have seen increased in income and	
opportunities	opportunities	improve livelihood	
opportunities	opportunities		A officer Trusten information
		-Measure the number of zoning	Action-Implement an informed Management zoning
	-Number of tourism related	scheme for sustainable marine	scheme for the integrated management of activities of
Recreational and		recreation and tourism	the coat to ensure that the coastal resource base yield returns on the benefits from nature to communities in
	jobs and recreational	-number of new tourism related jobs	
tourism benefits	activities	-number of new tourism related jobs	the short, medium and long term
			Action-Selectively apply Marine Spatial Planning
Marina anatial	A appage to aportial	-Measure the number of sectors that have	approach as a tool to integrate and manage cross-sector
Marine spatial	-Access to spatial		interest from fishing, tourism, marine research and
planning Climate change	technologies	integrated marine spatial planning	bioprospecting
Climate change	Number of people who		
education, public	-Number of people who		
awareness, capacity	have received training	Measure the extent of allowed allow	Action: Implement capacity building and training
building and	-Proportion of population	-Measure the extent of climate change in	program for the fisheries sector based on priorities
research	aware of climate change	school curricula at all levels	identified for policy delivery





Public participation	-number of community		
in policymaking	representation in the policy	-Measure the community representation in	-The CZM Act does seem to establish a process of
process	making process	the management of coastal resources	public participation





Annex 17. Forestry sector non-GHG impact and progress indicators

Impact category	Indicators	Description	Projects/Actions
Biodiversity of terrestrial ecosystem Land-use change, including deforestation, forest degradation and desertification	 -Areas of protected areas -Percentage of threatened species conserved -Threat status of ecosystems -Quality of ecosystem service -Species richness -Proportion of land area covered by forest -Area of forest under sustainable forest management -Annual change in degraded or desertified arable land (% or hectares) -Annual change rate in deforestation (% and ha) 	 -Measure the number of terrestrial protected areas -Measure the number of threatened flora and fauna under conservation -Quality of ecosystem service- Measure the quality of provisioning, regulating and cultural services. -Measure the countries percent forest cover -Measure the area of degraded and deforested land from agriculture practices -Measure the country's agriculture land-use type proportionate to forest cover 	Action: Create new or extend current institution, with the requisite capacity and competence, to monitor, distribute and account for all payments of ecosystem services Action- Develop and implement mechanisms, such as increased law enforcement and stricter penalties, to reduce incidence of illegal logging, deforestation and squatting Action: Promote land usage and planning, contributing to maintenance of forest for timber, biodiversity and ecological services, and forest connectivity with emphasis on abandoned and degraded lands, urban areas and agricultural lands
Gender equality and the empowerment of women	-Average income for women/men -Proportion of women in the labor force -Proportion of women in senior government positions	-Measure the average yearly income of women/men -Measure the ratio of women in the labor force proportionate to men	Action-Promote changes in attitudes and organizational cultures, to break down gender barriers and to provide mutual respect and dignity for all people irrespective of social group, or background. Action-Encourage active participation of women and youth in decision-making, resources management and sharing benefits
Protection of poor and negatively affected communities	-Proportion of poor and negatively affected communities under	Percentage of forest dependent communities that received support from direct and indirect threats to climate change	Action: Provide guidance for actions to be taken with regards to the direct and indirect threats posed by global climate change on forests and forest dependent people in order to reduce their vulnerability





	1	·	tell .
	sustainable forest financing		
	schemes		
Resilience of ecosystem to dangerous climate change and extreme weather	-Flood intensity -Tree density -Bushfires frequency	-Measure the health status of forest ecosystem from sustainable forest management to increase the resilience of vulnerable communities	
Capacity, skills and knowledge development	-Number of new skilled trainees and workers	- Measure the percentage of the population and number of institutions that have integrated professional skills with traditional knowledge to improve forest management	Action: Promoting collaboration amongst people and institutions who are involved in the various aspects of
Public participation in policy making processes	-number of community representation in the policy making process	-Measure community representation in policymaking process through the number of participations	forest management, including timber and non-timber production, integrating professional skills and training with traditional knowledge
Access to information and public awareness (SDG 12)	-Proportion of population that have access to public information via media platforms	-Percentage of the population that have access to information on the importance of forest ecosystem to wildlife, climate stability and human welfare.	Action- Develop an awareness campaign to sensitize
Climate change education public awareness, capacity- building and research	 Extent to which climate change is mainstreamed in the national forest policy Proportion of population aware of climate change Number of people who have received training 	-Percentage of the population that is aware of the impacts of climate change to forest ecosystems and forest dependent communities	the forest sector at all levels on the qualities and values of Belize's timber resources, and develop training programs for product development and quality assurance Action: Develop and implement a communications strategy aimed at enhancing public awareness about forest as central to wildlife, ecosystem and climate stability and human welfare
Indigenous rights	-Extent of protection of indigenous traditional knowledge -Extent of empowerment of indigenous communities	Measure community participation in sustainable forest management which includes the recognition and respect of indigenous rights	Action- The development and management of natural forest on community-owned and managed land by indigenous people and rural communities





Annex 18. Water sector non-GHG impacts and progress indicators

Impact category	Indicators	Description	Projects/Actions
	-Acidity (pH)		N/A
	-Eutrophication from nutrient pollution	-Measure the water quality content in	
	(such as phosphorus and nitrogen	venerable communities (e.g. Low	
Water quality (SDGs 6, 14)	compounds	availability of freshwater)	
	-Water consumption (m3) or total		N/A
	amount of water removed from	-Measure the extraction rate of water	
	freshwater sources for human use	from freshwater sources	
	-Proportion of total water resources use	-Measure freshwater resources per	
Availability of freshwater	(water scarcity)	capita (cubic meters)	
		-Measure the percentage of the	Action: Make safe potable water
Access to adequate water	-Proportion of the population that have	population that have a good quality	supplies available inadequate
supply	access to a steady supply of water	and steady water supply	quantities 24hrs a day and ensures
		-Measure the percentage of the	that every property is provided with
		population with access to safe drinking	an approved means of disposal of
		water	domestic wastewater and water
	-Percentage of population with access	-Percentage of household that have	borne wastes
Access to safe drinking water	to safe drinking water	access to a tap water system	





Annex 19. Health sector non-GHG impacts and progress indicators

Impact category	Indicators	Description	Projects/Actions
Accessibility and quality of healthcare (SDG 3)	-Proportion of people with health insurance or access to public health -Number and distribution of health facilities per ten thousand population	-Measure the percentage of the population have received universal health coverage	Action: Strengthening of the Belize Health Information System to support evidence-based planning in the provision and delivery of health care
Illness and health (SDG 3)	 -Infant mortality (yearly %) -Life expectancy (years) -Proportion of population with diagnosed diseases or hospitalized from specific diseases -Prevalence of diseases 	-Measure the cause of mortality among infancy/children -Measure the percentage of the population that have live above 60 years -Measure the number of major causes of morbidity	Action: Strengthen disease surveillance; reinforce control of non-communicable diseases (notably diabetes and cardiovascular illness) via the use of decision support tools Action: Promote health research and strengthen local and international partnership on health information system
Gender equality and empowerment of women (SDG 5)	 -Average income for women/men -Proportion of women in the labor force -Proportion of women in senior government positions 	-Measures the gender equity gaps in the health sector	The Revised National Gender Policy 2013-Is the framework to address gender equity gaps through structured process engaging stakeholders at all levels
Cost of policy implementation and cost-effectiveness of policies	- Cost efficiency assessment	-External audit mechanism	Action- Achieving greater equity, cost effectiveness and efficiency in allocation and use of health resources (Improved Health Financing to achieve Universal Health coverage)
Poverty reduction (SDG 1)	-Number of social welfare programs -Number of poverty relief projects	-Measure the mitigation efforts to improve poverty rates	N/A





	-Extent to which climate change	-Measure the extent of climate	
	education is mainstreamed in	change being integrated in the	
	the National Health Policy	National Health Policy	
	-Proportion of population aware	-Measure the number of climate	
	of climate change	change related studies in relation	
Climate change	-Number of climate change	to vector borne diseases	
education, public	related publishing		
awareness, capacity-	-Number of people who have		
building research	received training		N/A

Annex 20. List of stakeholders

Stakeholder List

Waste: Belize Solid Waste Management Authority (BSWaMA)

Tourism: Belize Tourism Board (BTB), Ministry of Tourism

Agriculture: Caribbean Agriculture Research and Development Institute (CARDI); Sugar Industry Research and Development Institute (SIRDI); Belize Agricultural Health Authority (BAHA); Food and Agriculture Organization (FAO); Ministry of Agriculture

Energy: Ministry of Public Service, Energy and Public Utilities; SOL Belize limited, Belize Electricity Limited (BEL); Farmers Light Plant Corporation (FLPC)

Transport: Transport Department, Punta Gorda Traffic Department, Corozal Traffic Department

Coastal Zone/Fisheries-Coastal Zone Management Authority & Institute (CZMAI); Belize Fisheries Department; World Wildlife Fund (WWF)

Forestry- Belize Forest Department, Toledo Institute for Development and Environment (TIDE), Ya'axche Conservation Trust, University of Belize Environmental Research Institute (UB-ERI), Belize National Indigenous Council (BENIC), Sustainable Development Unit, Programme for Belize

Water- Belize Water Services Limited (BWSL); Hydrology Unit of the Ministry of Natural Resources

Health- Ministry of Health