

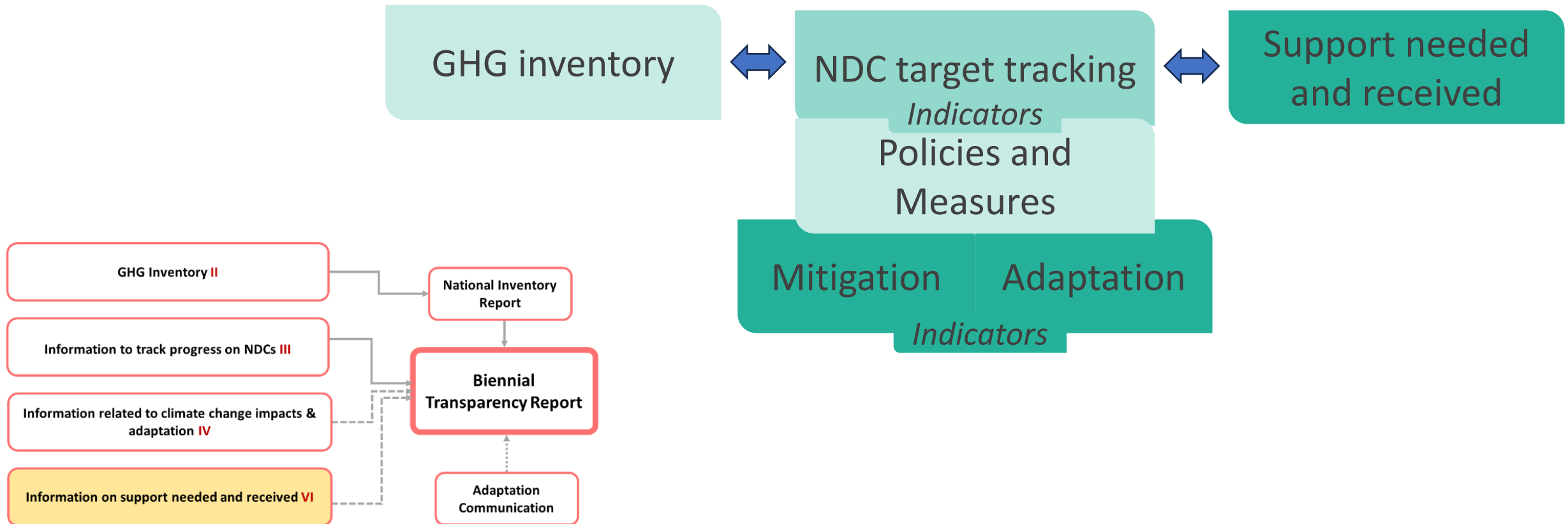
Experiences in the design and implementation of NDC tracking tools

- Mauritius, Belize and other available tools



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UNEP Copenhagen Climate Centre
federico.canu@un.org

What can form part of tracking tools



Source: ICAT, 2019

Mauritius

Outcomes

- **Manage the targets and objectives in the NDC** and other key policy documents.
- **Define Qualitative and Quantitative** targets and objectives used to measure progress.
- **Sectors**, geography, stakeholders **classification**.
- **Link to relevant Indicators** for measuring the targets and **contributing Interventions**.



Intervention

- **Activities to address climate change** (Mitigation and Adaptation)
- Includes **tangible policies, action and projects** used to achieve outcomes such as NDC
- Link to relevant Indicators and Outcomes (e.g., NDC targets) to support **Measurement, Reporting and Verification**.



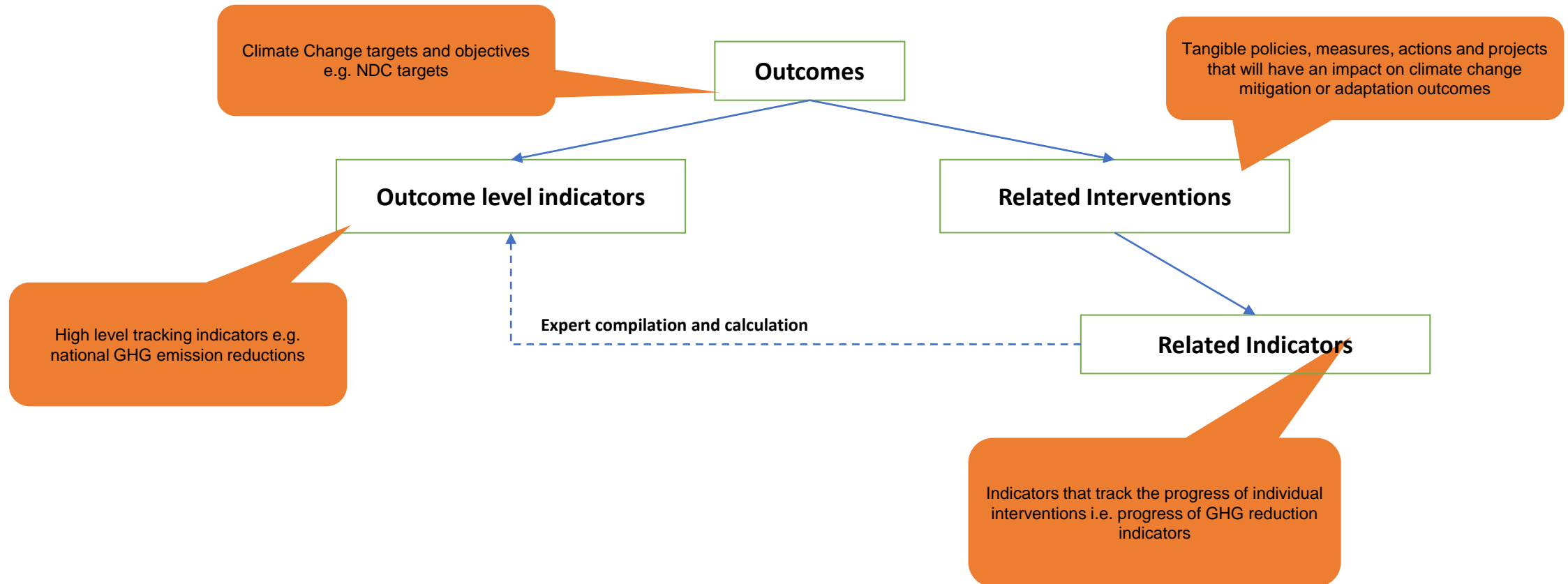
Indicators

- **Record information to track progress** with outcomes and Interventions.
- Indicators include **measured/monitored data** (e.g., climate information, estimated data, GHG emissions and emission factors, national statistics among others).
- Linked to Interventions and Outcomes for tracking of progress.. The Indicator entity will enable management of **quantitative target data** (as ex-ante estimates), and progress tracking data (as ex-post data).

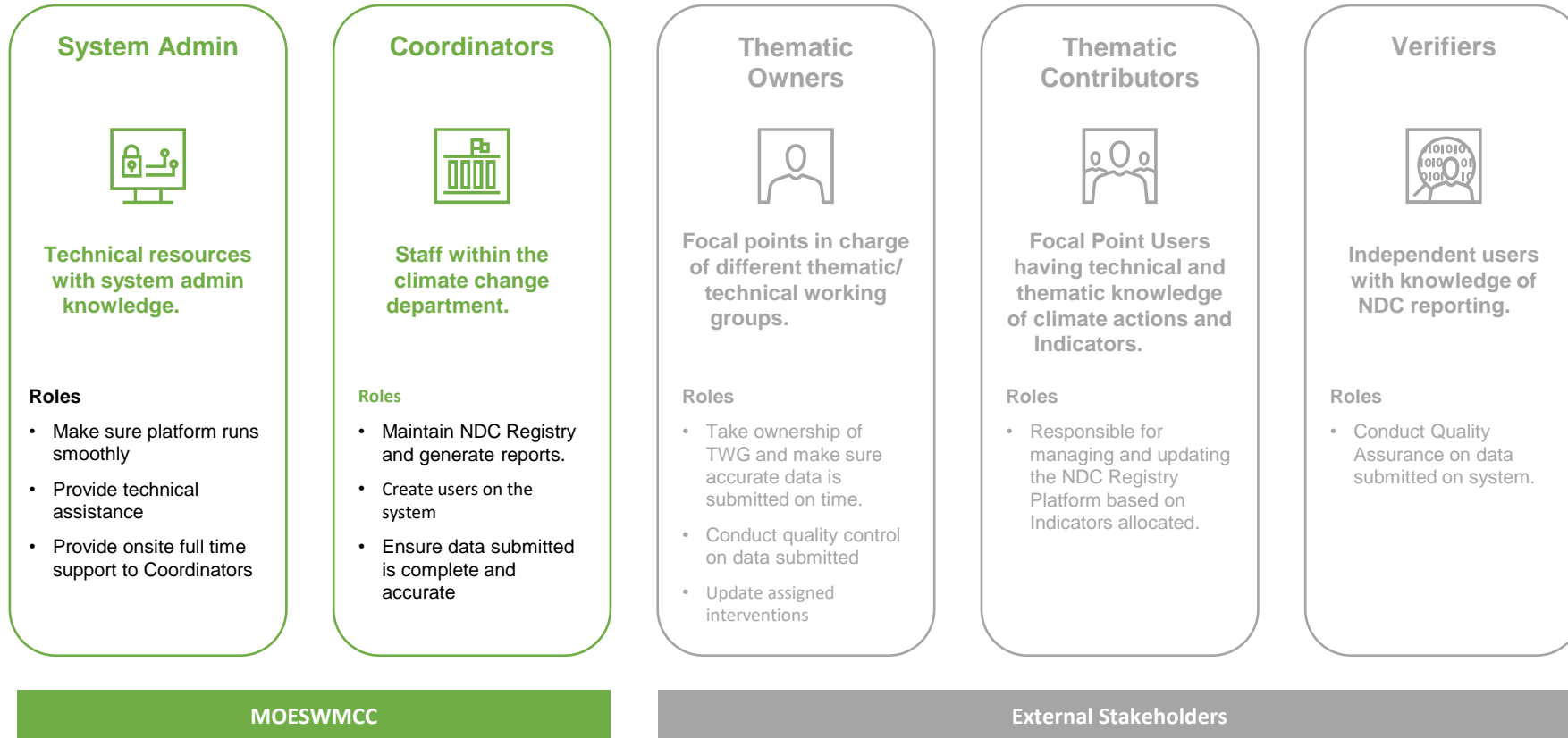


Mauritius MauNDC Registry

Measurement, Reporting and Verification on the NDC Registry Platform






Mauritius MauNDC Registry



MOESWMCC

External Stakeholders

Mauritius MauNDC Registry - Outcome

 NDC Registry Platform ←  




- Landing Page
- NDC Management**
 - Outcome
 - Intervention
 - Indicator
- Stakeholders >
- Config >
- User Account Managem...
- Data Visualisation
- Workflow Management
- Support Request

Outcome Details

Identifier	Name	Description
1	Reduce GHG emission by 40% by 2020	Based on current projections, Mauritius aims to reduce overall GHG emissions by 40% in 2030 compared to the Business as Usual (BAU) scenario of around 6,900 <u>ktCO₂eq</u> (including LULUCF) in 2030.
Sector	Reference	Monitoring Organisation
Mitigation	INDC 2020	MESWMCC
Parent Outcome	Geography	Geography Description
	Mauritius	
Notes	Comments	

Mauritius MauNDC Registry - Outcome



Child Outcome

	Id	Name	Sector	Reference	QA Status	
	1	Reduce GHG emission by 40% by 2030	Energy	INDC 2020	Verified	
	1.1	Reduce GHG emission in energy sector	Energy	INDC 2020	Verified	

Linked Interventions




	Id	Name	Sector	Geography	Reference	QA Status	
	10	Green Energy	Energy	Mauritius	INDC 2020	Verified	
	10.1	Solar Energy	Energy	Mauritius	INDC 2020	Verified	

Linked Indicators

	Id	Name	Type	Description	Measurement Unit	QA Status	
	10	National GHG emissions	GHG emissions and Projections trends	Amount of GHG emitted in the country	ktCO2e	Verified	

Mauritius MauNDC Registry - Outcome



Child Outcome

	Id	Name	Sector	Reference	QA Status	
	1	Reduce GHG emission by 40% by 2030	Energy	INDC 2020	Verified	
	1.1	Reduce GHG emission in energy sector	Energy	INDC 2020	Verified	

Linked Interventions




	Id	Name	Sector	Geography	Reference	QA Status	
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Linked Indicators

	Id	Name	Type	Description	Measurement Unit	QA Status	
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Mauritius MauNDC Registry - Outcome



Child Outcome

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Linked Interventions

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	10	Green Energy	Energy	Mauritius	INDC 2020	Verified	
	10.1	Solar Energy	Energy	Mauritius	INDC 2020	Verified	

Linked Indicators

	Id	Name	Type	Description	Measurement Unit	QA Status	
	10	National GHG emissions	GHG emissions and Projections trends	Amount of GHG emitted in the country	kTCO2e	Verified	

Mauritius MauNDC Registry - Intervention

 NDC Registry Platform ←  5

- Landing Page
- NDC Management**
 - Outcome
 - Intervention
 - Indicator
- Stakeholders
- Config
- User Account Managem...
- Data Visualisation
- Workflow Management
- Support Request

Intervention Details

Identifier	Intervention Name	Sector
1	Green Energy	× Energy
Description	Objective	Methodologies Assumptions*
Encourage the use of green energy to reduce the emission of GHG gas.	The outcome describes the percentage of GHG emission in the atmosphere	None
Quantifive Objective	Unit of Measurement	Monitoring Organisation
50	Number of solar panels installed	MESWMCC
Gases Affected	Classification	Parent Intervention
× CO × CO2	× Mitigation	× GHG emission
Priority		
× High		

Mauritius MauNDC Registry - Intervention



5

Implementation Details

Status

× Working in progress

Start Date

04/05/2021

Implementation Date

12/12/2021

Implementing Organisation

× The Ministry of Energy and Public

Monitoring Organisation

× MEPU

Partner Organisation

× MEPU

Scenario

Implementation of solar panels.

Objective Achieved

× False

Policy Instrument

× Economy

Constraints and Barriers


× Financial

Progress

Incentives are being provided to people interested in installing solar panels.

Mauritius MauNDC Registry - Intervention

←


5

Funding Details

Cost Description

The project is funded by the Government of Mauritius. The allocated budget is put forward to provide incentives to people and encourage people to use solar panel.

Id	Funding Type	Currency	Funding Amount
1	Conditional	USD	40,000

Geographical Details

Geography

× Mauritius

Geography Description

× The island of Mauritiu


Lontitude

× 20.3484° S

Latitude

× 57.5522° E

←


5

Child Interventions

Id	Name	Sector	Geography	Reference	QA Status	
+	10	Green Energy	Energy	Mauritius	INDC 2020	Verified 👁

Linked Outcome

Id	Name	Sector	Reference	QA Status	
+	1	Reduce GHG emission by 40% by 2030	Energy	INDC 2020	Verified 👁

Linked Indicators

Id	Name	Type	Description	Measurement Unit	QA Status	
+	10	National GHG emissions	GHG emissions and Projections trends	Amount of GHG emitted in the country	ktCO2e	Verified 👁
+	11	Energy produced	Energy	Energy produced in the country through all sources	MW	Verified 👁

Mauritius MauNDC Registry - Indicators

Indicator Details

Identifier	Indicator Name	Type of Indicator
10	National GHG Emission	GHG Emissions and Projection Trends

Description: Amount of GHG emitted in the country

Methodologies Assumptions*

Measurement Unit: kt CO2e

Monitoring Organisation: MESWMCC

Parent Indicator:

Progress Description: GHG Emissions have been increasing steadily since 1990

Notes:

Comments:

Quantitative Indicator

Checking this option set the Indicator as a Quantitative Indicator

Assigned Thematic Contributor

Identifier	Name	TWG	MRV Role	Organisation
1	Farhaan Hatteea	Energy	Contributor	MEPU

View Indicator Data

ID	Data Type	Start Date	End Date	Quantitative Value	Qualitative Description
1	CO2 Emission	15/09/21	14/12/21	30%	Reduction of CO2 emission
Source Text		CO2 Emission Report			
Attachment		📎			
QC Status		Checked			
Assigned Contributor		Tekanand Tekanand, Thematic Owner, MEPU			
Notes		Work is in progress.			
Comments		Needs clarification on reports			
Submission Status		Initial			
2	Energy	15/10/21	14/02/22	40%	Reduction of energy consumption
3	GHGs Emission	15/09/21	14/12/21	30%	Reduction of annual GHGs emission

Visualisations

01 Oct 2021 to 31 Oct 2021

Set timeframe work data submission


Date	data1	data2	data3
2013-01-01	80	40	210
2013-01-02	120	80	180
2013-01-03	100	40	260
2013-01-04	220	150	290
2013-01-05	80	50	250
2013-01-06	160	60	240

© 2021

Belize - Targets

Details for: "NDC2021 - Belize's Nationally Determined Contribution (NDC) 2021 "

Targets
 Actions
 Indicators

 New Target

Show entries

Showing 1 to 18 of 18 entries

Search:

Code	Description	Sector	SDG Goal	Edit	Delete
Agric.1	Reduce methane emissions from livestock by 10% by 2030 and avoid emissions of at least 4.5 KtCO ₂ e related to agriculturally driven land use change by 2025	Agriculture (AG)	2, 13, 15	EDIT	DELETE
Agric.2	Reduce 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	Agriculture (AG)	2, 6, 7, 8, 9, 13, 15	EDIT	DELETE
Agric.3	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	Agriculture (AG)	2, 11, 13	EDIT	DELETE
CZ.1	Increase resilience to climate impacts for coastal communities and habitats by managing further development of the coastline to reverse net coastal habitat and land loss by 2025	Coastal & Marine (CZ)	11, 13, 14, 15	EDIT	DELETE
CZ.2	Strengthen the resilience of coastal communities by developing an early warning system for storm surges by 2025	Coastal & Marine (CZ)	11, 14, 15	EDIT	DELETE
Energy.1	Avoid emissions from the power sector equivalent to 19 KtCO ₂ e per year through system and consumption efficiency measures amounting to at least 100 GWh/year by 2030	Energy (Energy)	7, 13	EDIT	DELETE
Energy.2	Avoid 44 KtCO ₂ e in the national electricity supply by 2030 through the introduction of expanded capacity from renewable energy sources	Energy (Energy)	2, 7, 13	EDIT	DELETE
Energy.3	Avoid 117 KtCO ₂ e/year ²¹ 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 appropriate policies and investments	Energy (Energy)	7, 11, 13	EDIT	DELETE
FISH.1	Build capacity in fisheries and aquaculture sector through research, diversification and retraining to support livelihoods while protecting coastal ecosystems	Fisheries & Aquaculture (FISH)	8, 13, 14, 15	EDIT	DELETE
Forest.1	Implement protection targets of the National Biodiversity Strategy Action Plan including increased effectiveness of the National Protected Areas System by 2024	Forestry and Biodiversity (Forest)	15	EDIT	DELETE

Belize - Actions

Planning >> **Projects/Programme**

[↑ UP LEVEL](#)

Details for: "NDC2021 - Belize's Nationally Determined Contribution (NDC) 2021 "

Targets
 Actions
 Indicators







New Action

Show entries

Showing 1 to 25 of 81 entries

Search:

Code	Action/Intervention	Target/Intended Result	SDG Target	Edit	Delete
Agric.1.1	Improve the management of 80,000 hectares of the agro-landscape through good agricultural and silvopastoral practices including by bringing 30,500 hectares under sustainable agriculture system with biodiversity benefits and 15,000 hectares in production s	Agric.1	 2.4	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.2	Restore 200 hectares of arable sugar land in Northern Belize that has been denuded over time by use	Agric.1	 2.5	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.3	Promote the reduction of agricultural GHG emissions through altering crop cultivation methods, including green mechanical harvesting in sugar cane production systems, through a public awareness campaign targeting women, youth and local communities	Agric.1	 2.3, 2.2	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.4	Promote the reduction of agricultural GHG emissions through implementing effective livestock management that involves changing the feeding practices of livestock to include more optimal nutrient levels	Agric.1	 2.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.2.1	Mobilize infrastructure investments for Climate Smart Agriculture (CSA) as set out in the National Adaptation Strategy to Address Climate Change in the Agricultural Sector and including delivery of short-term actions by 2025	Agric.2	 2.C	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.2.2	Establish a financing facility for CSA investments through local financial institutions	Agric.2	 2.5, 8.B	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.2.3	Improve both crop and livestock husbandry practices, increase access to drought tolerant crops and livestock breeds through partnerships with research institutions	Agric.2	 2.B, 9.2, 13.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.2.4	Adopt better soil and water management practices, including the use of biochar and improved (solar-powered) irrigation systems	Agric.2	 2.4, 6.3, 7.A, 13.A, 15.A	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.3.1	Expand on the Belize Agriculture Information System to reach a broad awareness amongst relevant populations of hazards and best practices	Agric.3	 13.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>

Belize - indicators

Details for: "NDC2021 - Belize's Nationally Determined Contribution (NDC) 2021 "

☑ Targets ☑ Actions **☑ Indicators**



New Indicator

Show entries

Showing 1 to 25 of 182 entries

Previous ... Next

Search:

Code	Indicator	Action/Intervention	Target/Intended Result	Edit	Delete
Agric.1.1.1	Number of hectares under sustainable agriculture practices with biodiversity benefits by 2025	Agric.1.1	Agric.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.1.2	Number of hectares in production systems under sustainable land management practices by 2025	Agric.1.1	Agric.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.2.1	Number of hectares of sugar land restored by arability by 2025	Agric.1.2	Agric.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.3.1	Specific campaign highlighting sustainable practices in sugar cane production delivered by 2024	Agric.1.3	Agric.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.4.1	Capacity building program for livestock sector designed by 2021	Agric.1.4	Agric.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.4.2	Number of livestock farmers reached by capacity building program by 2025	Agric.1.4	Agric.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.4.3	Number of youth reached by capacity building programs by 2025	Agric.1.4	Agric.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.4.4	Number of women reached by capacity building program by 2025	Agric.1.4	Agric.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.4.5	Avoided methane emissions from livestock by 2025	Agric.1.4	Agric.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.4.6	Tons of emissions reduced by the number of farmers implementing effective livestock management	Agric.1.4	Agric.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.1.4.7	Tons of emissions reduced by the number of farmers adapting altering crop cultivation methods	Agric.1.4	Agric.1	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.2.1.1	% of short-term actions delivered by 2025	Agric.2.1	Agric.2	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.2.2.1	Concept note for financing capacity developed by 2022	Agric.2.2	Agric.2	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>
Agric.2.2.2	Financing facility established by 2023	Agric.2.2	Agric.2	<input type="button" value="EDIT"/>	<input type="button" value="DELETE"/>

Belize – indicators cont.

Monitoring >> Action Indicators

UP LEVEL

"Baseline Well Survey - Training Test"

Show 50 entries

Showing 1 to 2 of 2 entries

Previous 1 Next

Search: Type to filter results CLEAR SEARCH

Search Indicator Search Unit Search Baseline Search Baseline Year Search Overall Target Search Overall Result

Indicator	Unit	Baseline	Baseline Year	Overall Target	Overall Result
WAT.1.1 - Design and implement groundwater hydrological monitoring network to inform drought monitoring activity					
WAT.1.1.1 - Groundwater hydrological monitoring network designed by 2022	Number	102.00	2021	200.00	225.00 + REPORT
WAT.1.1.2 - Number of groundwater hydrological monitoring stations active by 2025		3,000.00	2022	200.00	60.00 + REPORT

Previous 1 Next

Show 50 entries

Belize - Costing

" Ministry of Sustainable Development, Climate Change & Disaster Risk Management"

Legends:

ACCESS

READONLY

NO ACCESS

Show 50 entries

Showing 1 to 17 of 17 entries

Previous 1 Next

Search: Type to filter results

Search Title

Search Project/Programme

Search Sector

Search BZD Amount

	Title	Project/Programme	Sector	BZD Amount
<input type="checkbox"/> ACCESS	2019-2023 Intra-ACP GCCA+ Programme in the Caribbean: Enhancing Climate Resilience in CARIFORUM Countries. Status of the Increasing Water Supply System Resiliency in vulnerable communities in Belize (Project No. GCCA+BZEWTR007).	National Climate Change Policy, Strategy, and Master Plan	WAT	1,499,399.38
<input type="checkbox"/> ACCESS	Baseline Well Survey - Training Test	Belize's Nationally Determined Contribution (NDC) 2021	WAT	1,596.00
<input type="checkbox"/> ACCESS	Belize Agriculture and Management System	Belize's Nationally Determined Contribution (NDC) 2021	AG	1,000,000.00
<input type="checkbox"/> ACCESS	Belize Energy Efficiency Labelling Scheme (Pilot)	Belize's Nationally Determined Contribution (NDC) 2021	Energy	425,000.00
<input type="checkbox"/> ACCESS	Development of Belize's Updated NDC	Belize's Nationally Determined Contribution (NDC) 2021	CZ, Energy, FISH, Forest, HH, LUCF, LUHSI, TOUR, Waste, WAT	40,000,000.00
<input type="checkbox"/> ACCESS	Energy Efficiency in Public Buildings (Test)	Belize's Nationally Determined Contribution (NDC) 2021	Energy	412,000.00
<input type="checkbox"/> ACCESS	Expansion of replenishment zones	Belize's Nationally Determined Contribution (NDC) 2021	FISH	2,000,000.00

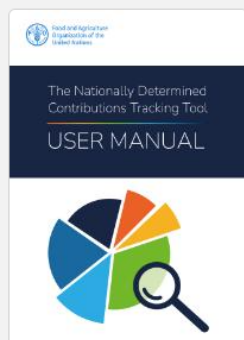
FAO – NDC Tracking tool



Food and Agriculture Organization
of the United Nations

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The Nationally Determined Contributions Tracking Tool user manual

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Publisher

FAO

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Bloise, M., Crumpler, K., Prospero,

The Nationally Determined Contributions (NDC) Tracking Tool user manual emphasizes the context behind developing the NDC Tracking Tool, its structure, methodological approach, and step-by-step guidance on how to install and use the tool.

This Food and Agriculture Organization of the United Nations Nationally Determined Contributions Tracking Tool is an Excel-based, easy-to-use tool, which is designed to facilitate countries in collecting the information required to track progress made in implementing and achieving their NDCs. Based on the information available in each country, the tool allows to assess the progress on NDC implementation by (i) comparing planned versus implemented mitigation and adaptation actions, and (ii) estimating the GHG reduction achieved from the implementation of mitigation actions compared against the sectoral and/or national baseline and NDC target scenario.

The tool is designed to support governments, national experts, and practitioners involved in the preparation, implementation, updating, revision, and reporting of all sectors covered by the NDC.

Download the [NDC tracking tool](#) that accompanies this publication



CBIT-GSP
CLIMATE TRANSPARENCY



United Nations
Climate Change

Thank you for your attention!



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