

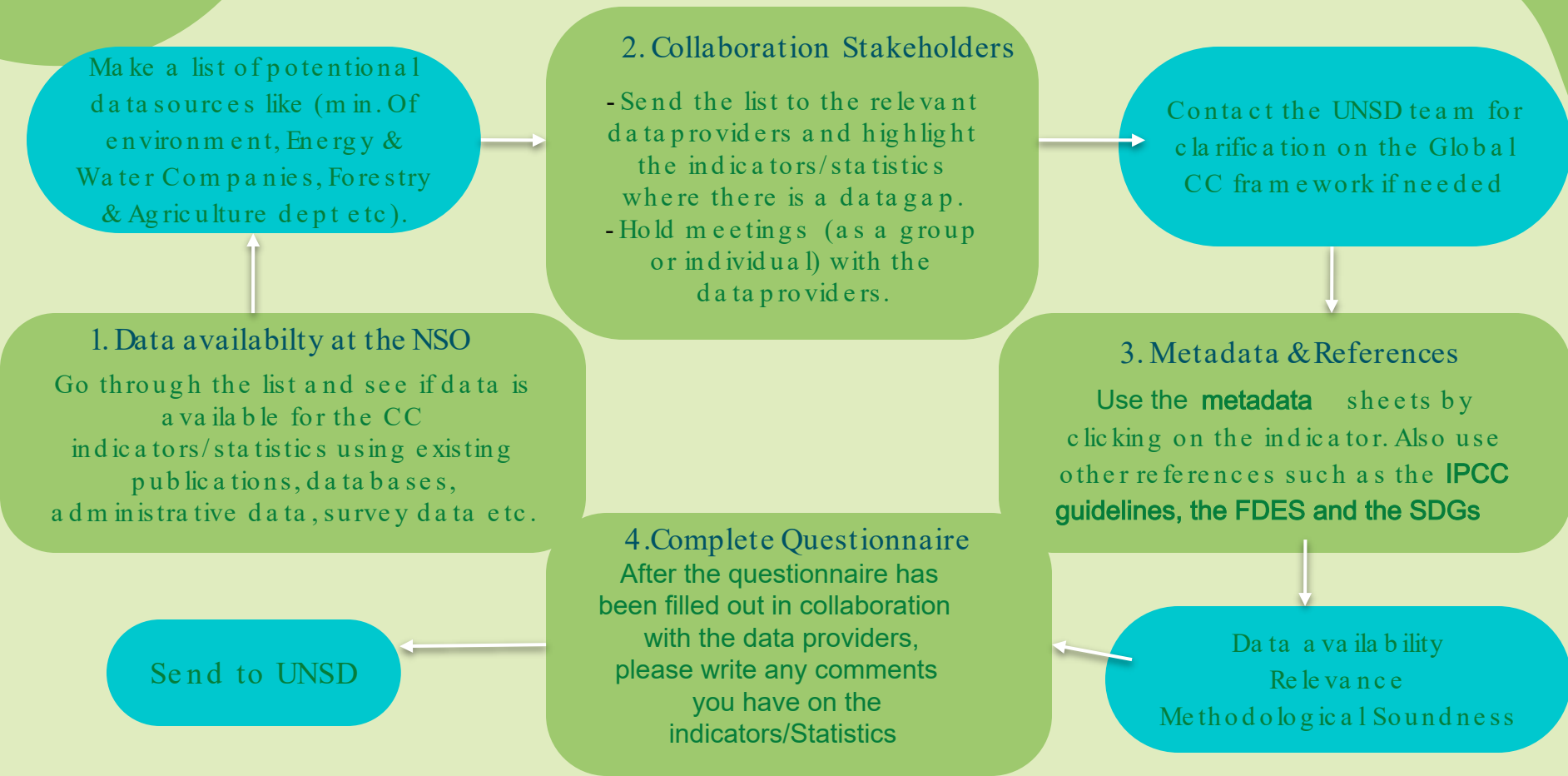


Experience with the Global Framework of Climate Change (CC) Indicators & Statistics

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Steps conducting CC questionnaire



Example Listing Stakeholder

Area	Topic	Indicator	Themes	National Data Sources	Relevance		Methodological Soundness		Data Availability		General Comments	
					Yes/N	Reference/Link	Yes/No/Partially	Reference/Link	Yes/No	Reference/Link		
DRIVERS												
	<i>Total greenhouse gas (GHG) emissions</i>											
	1	Total greenhouse gas emissions per year (SDG 13.2.2)	1	GHG emissions	UNFCCC report- CC consultants					yes		Suriname 2nd UNFCCC report-
	<i>Energy production and supply</i>											
	2	Total primary energy production from fossil fuels	1	Energy	Energy Company Suriname (EBS)/ State Oil Suriname, Bauxite Institute Suriname (BIS)					yes		Chapter 7- ES pub.
	<i>Energy consumption</i>											
	3	Energy consumption by households and enterprises	1	Energy	Energy Company Suriname (EBS)					Yes		Chapter 7- ES pub.
	<i>Transport</i>											
	4	Number of (fossil-driven) vehicles per capita	2	Transport	Central Bank of Suriname (CBvS)					Yes		Chapter 4- ES pub.
	<i>Land and agriculture</i>											
	5	Livestock number per agricultural area	1	Agriculture	Ministry of Agriculture, Animal Husbandry and Fisheries (LVV)					yes		Chapter 10- ES pub.
	6	Use of nitrogen fertilizers per hectare of total agricultural area (cropland and pastures)	1	Agriculture						yes		
IMPACTS												
	<i>Areas impacted by climate change</i>											
	7	Forest area as a proportion of total land area (SDG 15.1.1)	1	Forests	Foundation for Forest Management and Production Control (SBB)					yes		Chapter 8-ES pub
	<i>Freshwater abstraction, supply and use</i>											
	8	Freshwater abstracted as proportion of renewable freshwater resources	1	Water resources	Suriname Water Company (SWM)					Partial		Chapter 6-ES pub
	9	Water quality	3	Water quality						NO		
	<i>Hazardous events and disasters</i>											
	10	Frequency of hazardous events and disasters	1	Disasters	National Coordination Center For					yes		Chapter 2-ES pub
	11	Direct economic loss attributed to disasters in relation to global gross domestic product (GDP) (SDG 11.5.2)	2	Disasters							yes	

Listing of Stakeholders

A	B	E	G	H	I
	Institute	Link Environment Stat pub	Link to their website	Address	Phone numbers
1	The Planning Institute		http://www.planningofficesuriname.com/		
2	Coordination Environment, Cabinet of the President				472917 /471216
3	Minister of Spatial Planning and Environment (ROM)			Jamaludin Straat #26,	451192
4	Ministry of Natural Resources				
5	Anton de Kom University of Suriname (ADEKUS)				
6	National Institute Environment and Development in Suriname (NIMOS)		www.nimos.org	Mr. Jaggernath Lachmonstraat 100	490-044
7	Meteorology Service	chapter 2: Climate and natural Disasters	http://www.meteosur.sr/	Magnesiumstr 41	491143
8	National Coordination Center For Disaster Relief (NCCR)		nccr@sr.net	Kwattaweg 29	426416/426522
9	Fire Department		www.kbs.sr	Verlengde Gemeenlandsweg 19-21	
10	Maritime Authority Suriname (MAS)	chapter 4: Transport	http://www.mas.sr/	Cornelis Jongbawstraat 2	476733
11	Bureau for Public Health	Chapter 5:		Rode kruislaan 13	499703
12	Suriname Water Company	Chapter 6: Water	https://www.swm.sr/	Henck Arronstraat 9-11	471414
13	Suriname Energy Company		www.nvebs.com	Noorderkerk 2-14	471045
14	Bauxiet Instituut Suriname (BIS)		http://www.bauxietinstituut.com/	Zonnebloemstraat 68	499835/499852
15	State Oil Company Suriname			Adhinstraat 21	499649
16	Newmont Suriname			Van 't Hogerhuysstraat 15	568760
17	Rosebel Gold Mines			President Da Costalaan 2	325115
18	Central Bank of Suriname (CBvS)		http://www.cbvs.sr/	Waterkant 20	473741
19	Foundation for Forest Management and Production Control	Chapter 8: Forest	http://sbbsur.org/	Martin Luther Kingweg 283	483131
20	Suriname Fisheries Services	Chapter 9: Coastal And Marine Resource		Cornelis Jongbawstraat 50	472233
21	Ministry of Agriculture, Animal Husbandry and Fisheries	Chapter 10: Land use and Agriculture		Letitia Vriesdelaans 8-10	
22	Forest Management Service, division Nature Conservation				471316
23	National Herbarium Suriname: Forest Bureau of Suriname			Leysweg 86, geb # 17	
24	National Zoological Collection Suriname (NZCS)	Chapter 11: Biodiversity		Leysweg 86, geb # 17	
25	Ministry of Public Works: Garbage and Waste management Department	Chapter 13: Waster		Kankantriestr 30	403011

Metadata

1. Total greenhouse gas emissions per year

Field	Description			
Code	1020	1021	1022	1023
Indicator	Total greenhouse gas emissions per year (SDG 13.2.2)			
Statistics		Total emissions of direct greenhouse gases (GHGs, excluding LULUCF) (FDES 3.1.1.a)	Total emissions of indirect greenhouse gases (GHGs) (FDES 3.1.1.b)	Greenhouse gas emissions from land use, land use change and forestry (LULUCF) (UN-ECE 11)
Area	Drivers			
Topic	Total greenhouse gas (GHG) emissions	Total greenhouse gas (GHG) emissions	Total greenhouse gas (GHG) emissions	Total greenhouse gas (GHG) emissions
Themes	GHG emissions	GHG emissions	GHG emissions	GHG emissions
Paris Agreement article	13.7a	13.7a	13.7a	13.7a
PAWP-Katowice	Decision 18/CMA.1, chapter II, para. 47-49	Decision 18/CMA.1, chapter II, para. 47-49	Decision 18/CMA.1, chapter II, para. 47-49	Decision 18/CMA.1, chapter II, para. 47-49
FDES		3.1.1.a	3.1.1.b	
SDG	13.2.2			
Sendai Framework				
Preliminary Tier	1	1	1	1
Definition	Greenhouse gases (GHG) are those gaseous constituents of the atmosphere, both natural and anthropogenic, that absorb and emit radiation at specific wavelengths within the spectrum of thermal infrared radiation emitted by the Earth's surface, the atmosphere itself, and by clouds, [IPCC, p. 550, https://www.ipcc.ch/sr15/chapter/glossary/] Emissions are the release of	Direct GHG emissions are those directly emitted into the atmosphere by a source. It includes CO ₂ , CH ₄ , N ₂ O, HFC, SF ₆ , PFC, NF ₃ from AFOLU, from energy, industry and waste, excludes LULUCF. GHG inventories under the UNFCCC cover estimation and reporting of anthropogenic GHG emissions and removals occurring on "managed land". Emissions resulting from fires in unmanaged forests would be considered as	Indirect GHG or GHG precursors are compounds which by themselves are not significant as GHGs, but which nevertheless have an effect on the concentration of GHGs in the atmosphere, as they take part in physical or chemical processes regulating the production or destruction rates of GHGs. The most important indirect GHGs are those generated by chemical	GHG emissions and removals produced in land use, land use change and forestry, as defined by the relevant IPCC Guidelines for National Greenhouse Gas Inventories. [UN-ECE metadata, https://statswiki.unece.org/download/attachments/285216611/CCCI_11_25_092020.pdf?version=1&modificationDate=1601036873497&api=v2]

Advantages

1. The availability of the Environment Statistics publication. If there is a Climate Change Statistics Report available that would be useful .
2. The availability of Suriname's second National Communication. Suriname is busy working on the third UNFCCC report. Check and see if your country has an UNFCCC report.
3. Data available from surveys, such as Census (Population data), MICS (Water & Sanitation data), households surveys etc (Electricity use & waste collection). See what is available at your NSO/min of Environment etc.
4. Use of administrative data
5. GBS has a good relationship with the Stakeholders. Use existing Committees etc.

Challenges

1. Since March 2020, Covid - 19
2. There are a lot of data gaps regarding the topic CC
3. Data is sometimes outdated
4. Lack of Financial and human resources.
5. Lack of knowledge on data collection regarding CC from some stakeholders. This is also the case for some of the SDGs.
6. Data quality cannot be measured, because of the strong dependence on administrative data and the lacking of metadata for some CC indicators

Thank You!