Implementation of the Global Set of Climate Change Statistics and Indicators









Implementation support (24 August 2023)

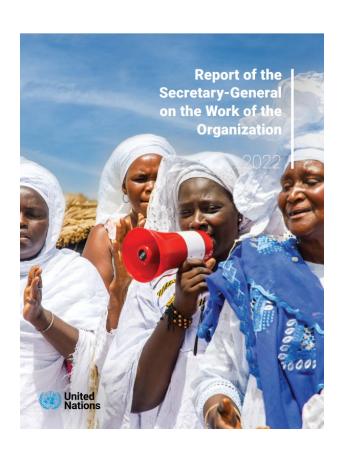


Outline

- 1. Background
- 2. Overview of the Global Set
- 3. Implementation Support tools:
 - Implementation Guidelines
 - CISAT
- 4. Capacity development activities



Overview of the Global Set



The adoption of the Global Set of Climate Change Statistics and Indicators by the 53rd session of the Statistical Commission in March 2022 was highlighted in the Report of the Secretary-General on the Work of the Organization in 2022.

https://unstats.un.org/unsd/envstats/climatechange.cshtml





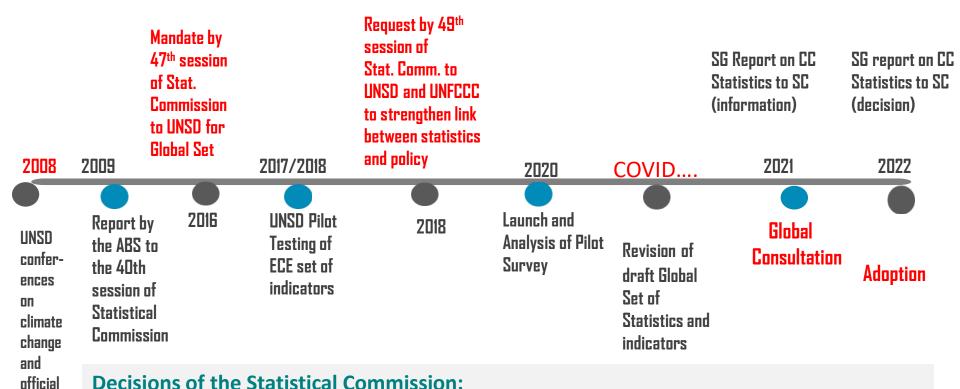
stats

(Oslo

Seoul)

and

More than a decade long process: 2008 – present



Decisions of the Statistical Commission:

Decision 47/112 (2016), UNSD requested to develop a global set of climate change statistics and indicators, applicable to countries at various stages of development:

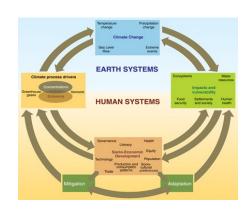
http://unstats.un.org/unsd/statcom/47th-session/documents/Report-on-the-47th-session-of-thestatistical-commission-E.pdf

Decision: 49/113 (2018), UNSD and UNFCCC to strengthen the link between statistics and policy https://unstats.un.org/unsd/statcom/49th-session/documents/Report-on-the-49th-session-E.pdf **Decision 53/116 (2022)**, the Global Set was adopted at the 53rd session of the Statistical Commission: https://unstats.un.org/unsd/statcom/53rd-session/documents/2022-41-FinalReport-E.pdf



Methodological foundation

- Given that there was no underlying framework linking the reporting requirements stemming from the Paris Agreement and the necessary statistics or indicators to support climate policy action, UNSD worked closely with UNFCCC to develop such a framework explicitly for climate change.
- The Global Set is structured according to the IPCC framework and FDES, with a tiering system as in the FDES and the SDG indicators.

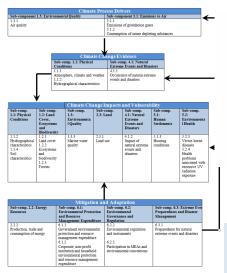


IPCC, 2007, Fourth Assessment Report



Framework for the Development of Environment Statistics (FDES 2013)

Relevant chapters of the Manual of the BSES
https://unstats.un.org/unsd/envstats
/fdes/manual_bses.cshtml



FDES cross-cutting application (Chapter 5) links climate change and environment statistics based on the IPCC Framework



Goal 13







Statistical references

The main statistical references including the internationally accepted frameworks, standards and guidelines, are presented in abbreviated form in the last column (entitled Method):

- IPCC: the Intergovernmental Panel on Climate Change 2006 guidelines;
- FDES: the Framework for the Development of Environment Statistics and its Manual on the Basic Set of Environment Statistics (BSES);
- SDG: Sustainable Development Goal indicators metadata;
- Sendai: Sendai Framework for Disaster Risk Reduction 2015-2030;
- UN-ECE: the Conference of European Statisticians set of core climate change-related indicators metadata;
- IRES: the International Recommendations for Energy Statistics
- SEEA-CF: the System of Environmental-Economic Accounting Central Framework;
- SEEA-EA: the System of Environmental-Economic Accounting-Ecosystem Accounting.

Global set, metadata [covers 26 fields]

36. Renewable freshwater resources per capita

Field	Description			
Indicator	Renewable freshwater resource	ces per capita		
Statistics		Precipitation	Evapotranspiration	Inflow
Area	Impacts			
Topic	Freshwater resources			
Themes	Water resources			
Paris Agreement article	7; 13.8	7; 13.8	7; 13.8	7; 13.8
PAWP-Katowice	Decision 18/CMA.1, chapter IV; Decision 9/CMA.1	Decision 18/CMA.1, chapter IV; Decision 9/CMA.1	Decision 18/CMA.1, chapter IV; Decision 9/CMA.1	Decision 18/CMA.1, chapter IV; Decision 9/CMA.1
FDES		1.1.1.b	2.6.1.b.1	2.6.1.a.2 [similar to]
SDG				
Sendai Framework				
Tier	2	1	2	2
Definition	The indicator measures the renewable freshwater resources divided by the population of the country. Renewable freshwater resources = Internal flow + Inflow of surface and groundwaters from neighbouring countries. Renewable freshwater (surface and groundwater) resources are replenished by precipitation (less evapotranspiration) falling over the territory of the country that ends up as runoff to rivers and recharge to aquifers (internal flow), and by surface waters and groundwater flowing in from	Total volume of atmospheric wet precipitation (rain, snow, hail, dew, etc.) falling on the territory of the country over one year, in millions of cubic metres. [UNSD/UNEP Questionnaire, https://unstats.un.org/unsd/envstats/Questionnaires/2020/q2020 Water English.pdf] [FDES BSES manual, Water resources, p.11, https://unstats.un.org/unsd/environment/FDES/MS%202.6%20Water%20Resources.pdf]	Actual evapotranspiration: Total actual volume of evaporation from the ground, wetlands and natural water bodies and transpiration of plants. According to the definition of this concept in Hydrology, the evapotranspiration generated by all human interventions is excluded, except unirrigated agriculture and forestry. The 'actual evapotranspiration' is calculated using different types of mathematical models, ranging from very simple algorithms (Budyko, Turn Pyke, etc.) to schemes that represent the hydrological cycle in detail.	Total volume of river run-off and groundwate generated over the period of a year, in natural conditions, exclusively by precipitation into a country. The internal flow is equal to precipitation less actual evapotranspiration and can be calculated or measured. If the river and groundwater generation are measured separately, transfers between surface and groundwater should be



Implementation support

- 1. Following the adoption of the Global Set, UNSD has focused on completing and promoting a set of implementation support tools, including:
 - Climate Change Statistics and Indicators Self-Assessment tool (CISAT)
 which was drafted and tested in a number of pilot countries in Africa,
 South America and the Caribbean regions
 - Implementation guidelines, initially drafted before the adoption of the Global Set, then revised and improved, and discussed at the ninth meeting of the Expert Group on Environment Statistics (EGES)
 - Training materials and presentations

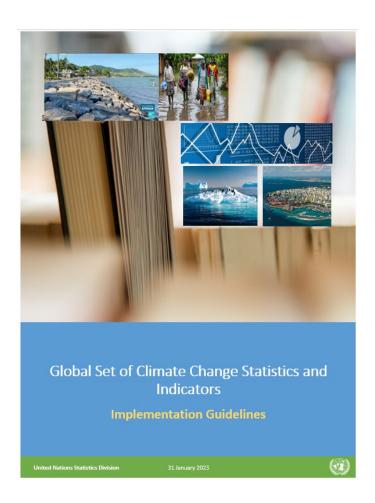


Access and implementation support for the Global Set

- The Global Set in its most detailed form, including the metadata, is presented in the <u>Climate Change Statistics and Indicators Self-Assessment Tool (CISAT)</u> Part II.
- The full description of the Global Set and its metadata is also included in the Background document to the Report of the Secretary-General, entitled <u>Global Set and metadata</u>.
- The Global Set is introduced and briefly described in the <u>Report of the Secretary-General on Climate Change Statistics to the Statistical Commission (E/CN.3/2022/17)</u> available in the six UN languages: https://unstats.un.org/unsd/envstats/climatechange_docs_conf.cshtml
- Implementation support materials including a self-assessment tool and elearning materials are disseminated via UNSD website: https://unstats.un.org/unsd/envstats/climatechange.cshtml
- In addition, if implementation advice and support are required, please contact UNSD at: envstats@un.org



Implementation Guidelines



https://unstats.un.org/unsd/envstats/Climate %20Change/Implementation Guidelines.pdf

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Implementation Guidelines

Aims and objectives

The Guidelines aim to help countries improve the monitoring of climate change, its impacts and response actions by better informing the UNFCCC-NFPs about the benefits of official statistics and by guiding the NSOs to increase their engagement in the area of climate change. The overall objectives of the Guidelines are to:

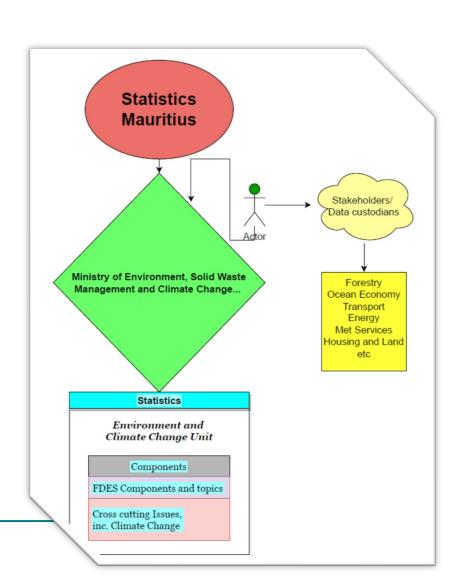
- help countries to set up the national consultation processes which can embrace this multidisciplinary statistical work in a way complementary to the ongoing and future reporting to UNFCCC;
- deepen countries' self-assessment activities using the Global Set; and
- provide the basis for countries to initiate the development of a national programme for sustained production of climate change statistics within the national statistical system (NSS).

Implementation Guidelines

Role of NSOs, NFPs and key stakeholders

- 4.1.1 Role of NSOs
- 4.1.2 Role of UNFCCC-NFPs
- 4.1.3 Role of other key stakeholders
- 4.1.4 Collaboration between NSO, UNFCCC-NFPs and key stakeholders

National examples



Implementation Guidelines

Self-assessment for building a National action plan on climate change statistics

The self-assessment will produce the needed understanding of what are the available resources (human and technical), available data, data gaps and what is (still) needed to support national climate policies and activities. Prioritisation of the needed data-related activities should be done taking into account the suitability of data collection methods including costs and reliability

	Activities		Yea	ar 1		Yea	ar 2	:	,	Yea	ar 3	;
Steps	Activities	Q1	Q2	Q3	Q 4	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4
1	Establish/strengthen relationship between NSO and UNFCCC-NFP					_			1	2	J	İ
2	Engage stakeholders and complete the self-assessment using the CISAT											
3	Establish a committee, inter-institutional working group or task											
	force or expand an existing one	L	┖			L	L		Ш		Ц	L
4	Define an institution with a legal mandate	L	L			L	L				Ш	
5	Establish collaboration/communication channels between	l				l						
	stakeholders and make institutional arrangements	L				L	L		Ш		Ц	L
	Designate national thematic experts	L				L					Ш	
	Develop ToRs/MoUs	L				L	L	L			Ш	乚
6	Engage high-level support for TWG - data collection/formation	l				l						
	of unit / mobilizing resources	L				L					Ш	
	Conduct institutional review and skills capacity assessment	L				L	L	L			Ш	乚
	Develop project proposals/applications	L		L		L	L	L			Ц	L
7	Strengthen human resources	L										
	Provide training and capacity building	L				L						
	Designate desk officers/core team	L				L					Ш	
	Hire staff/consultants										Ш	
8	Improve technical resources	L										
	Improve IT infrastructure (software and hardware)											
9	Develop a national programme/national action plan on climate	l										
	statistics	L									Ш	L
	Develop national set of climate indicators	l				l						
	(consistent/complementary with NDCs/NAPs/NCs) and metadata					L					Ш	
	Map the data sources and assess data quality	L									Ш	
	Define gaps and prioritize work on methods and data collection										Ш	
	Develop data collection methods (such as climate change surveys)											
	Integrate the programme/plan into NSDS and national climate	l										ı
	policies	L		L		L						
10	Undertake data collection/database building	L		L								
	Establish data exchange protocols											
	Compile statistics/indicators	L		L		L	L				Ш	L
	Prepare analysis of key findings and draft a report	L		L		L						
	Organize a validation workshop/TWG and stakeholders	L										
11	Prepare contributions to national policies and the reports for											
	UNFCCC	L		L			L					
12	Disseminate statistics and indicators	Ĺ		Ĺ		Ĺ	Ĺ					
13	Conduct user surveys	L	L	L		Ĺ	L	L				
14	Evaluate and define priorities for future improvements	L		L		L	L	L		L		



Climate Change Statistics and Indicators Self-Assessment Tool (CISAT)

The Self-Assessment Tool was prepared by building on the experience of countries applying the FDES (Framework for the Development of Environment Statistics) Environment Statistics Self-Assessment Tool (ESSAT) and the Global Consultation Part I and Part II.

FDES ESSAT

Statistics and Related Information	al Condi	ss	al Level Applicable)	Ollection Priority)	National Level	Inst Resp Co S Che	rima titutio onsib ollecti tatist eck all apply	on(s) ole for ing ic that	e	User C Repe	Required Requirement of Requirement Requir	ction/ g on t istic all tha	for this	her [specify])	ole	le	lividual records)	ıt		eason not A	vaila	ble	
Bold Text - Core Set/Fier 1 Regular Text - Tier 2 Italicized Text - Tier 3	Category of Measuren	Aggregations	of Statistic at the N /Low/Not Releva:	Priority for National Data Coll. (High /Medium /Low/Not a Pri	y of Statistic at the rtical/Similar/Not A	NSO	Ministry of Environment or equivalent institution	Other (specify):	Type of Data Source	Sub-national	National	Regional	International	Periodicity (Annual/Monthly/Daily/Hourly/Other	Earliest Year Available	Latest Year Available	Format of Statistic (Publication/Excel/Database/Website/Individual records)	Unit of Measurement	Resource constraints Methodological/Technical difficulty in data	Conection Insufficient quality	Inaccessibility	Lack of institutional set-up /coordination	Other (specify):

Global Consultation

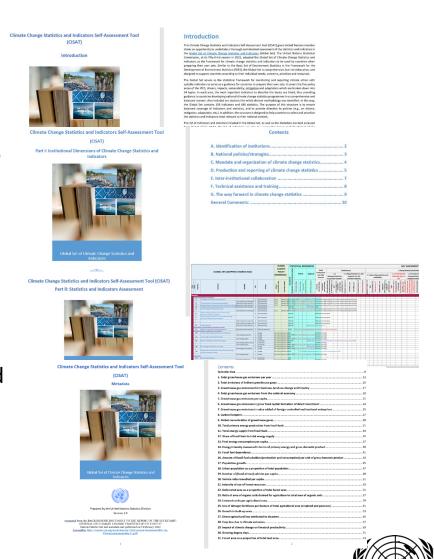
Relevance		Methodological Soundness		Data Availability		General Comments
Yes/No	Reference/ Link	Yes/No/ Partially	Reference/ Link	Yes/No	Reference/ Link	

CISAT

															S	elf	-As	ses	sme	nt															
		Relevance Data / statistic / indicator Characteristics vance/priority Requirements or Data / statistic /																		ethoo Soun	_														
f	vand or cl nge	lim	ate	-	use	r req	ment uests	s for		ta / si indic availa	cator			Primary Main Reasons why Statistic Institution(s) / Indicator is not available collecting or not updated											(t		tech			c.)		Future			
ONISSA	Reference/ Link	indicator at the	Relevance of	National Data	Sub-national	National	Regional	International	Yes/Partially/No	Referencel	Data type	statistic / Indicator at the	(AnnualMonthly/D allwHourhy/Other	Earliest Year Available	Available	Indicator	Format of Statistic /	NSO	Environment or equivalent	Other (specify):	Resource constraints	echnical difficulty in data collection	Insufficient quality	Inacossibility	Institutional set- up (coordination	Other (specify):	Yes/No/ Partially	Reference/ Link	methodology used is not sound	Type of Data Source	Category of Measurement	Unit of Measurement	Aggregations and Scales	Classifications or groupings	Plans

CISAT Package

- Introduction: short introduction and guidance for completing the selfassessment;
- Part I: Institutional Dimension of Climate Change Statistics and Indicators: aims at collecting general information on the institutional dimensions of climate change statistics;
- Part II: Statistics and Indicators
 Assessment: each individual indicator and statistic can be assessed in terms of relevance, methodological soundness and data availability.
- Metadata sheets in a Word file are linked to each indicator in the Excel file (Part II) via hyperlinks.



CISAT Part I

Part I: Institutional Dimension of Climate Change Statistics and Indicators

Part I focuses on the overall institutional and organizational structure of national statistics in the country and on specific information regarding climate change statistics in terms of, inter alia, policy frameworks, mandates, institutional setup, organization, collaboration, resources, international cooperation and uses.

It is divided into the following sections:

- a) Identification of institutions
- b) National policies/strategies
- c) Mandate and organization of climate change statistics
- d) Production and reporting of climate change statistics
- e) Inter-institutional collaboration
- f) Technical assistance and training and
- g) The way forward in climate change statistics



CISAT Part II

Part II of the CISAT lists all 158 indicators and 190 statistics included in the Global Set, followed by the main Global Climate Policy References, Statistical References and Self-Assessment questions organised in separate sections in an Excel spreadsheet.

Part II template:

								BAL	S	TATISTIC	AL REFE	RENCE	S		
			GLOBAL SET (ADOPTED in MAI	RCH 2022)				MATE LICY ENCES	Method (fran		Global		Regional	Instituti	cal ons and 1 ources
Area	Topic	Number	Indicator	Statistic	Tier	Theme	Paris Agreement article	PAWP-Katowice	(frameworks, standards, guidelines)	FDES reference	SDG reference	Sendai Framework reference	UN-ECE reference	National Data Sources	National focal institution
DR	VERS														
	10101	rgreei	nhouse gas emissions Total greenhouse gas emissions per year		1	GHG emissi	13.7a	Decision 18/	IPCC; SDG; UN	-FCF	13.2.2 Total	greenhous	[Similar to] U	Environme	nt Agency/Na
	Ť		round and the amount of the form	Total emissions of direct greenhouse gases (1	GHG emissi		Decision 18/							nt Agency/Na
	2		Total emissions of indirect greenhouse gases	Equivalent to the indicator	1	GHG emissi		Decision 18/							nt Agency/Na
	3		Greenhouse gas emissions from land use, land use change and forestry	Equivalent to the indicator	1	GHG emissi			IPCC; FDES; UN						<u> </u>
	4		Total greenhouse gas emissions from the national economy	Equivalent to the indicator	2	GHG emissi	ons		SEEA-CF; UN-E				UN-ECE 09a:		
	5		Greenhouse gas emissions per capita		1	GHG emissi	ons		IPCC; FDES	[Similar to] [DES 3.1.1.a	Total emissi	ions of direct	Environme	nt Agency/Na
				Total emissions of direct greenhouse gases (1	GHG emissi	13.7a	Decision 18/	IPCC; FDES	[Similar to] [DES 3.1.1.a	Total emissi	ions of direct	Environme	nt Agency/Na
	6		Greenhouse gas emissions in gross fixed capital formation of direct investment		3	GHG emissi	ons		SEEA-CF					NSOs and C	entral Banks
	7		Greenhouse gas emissions in value added of foreign controlled multinational enter		3	GHG emissi			SEEA-CF						entral Banks
				GHG emissions in output of foreign-controlle	3	GHG emissi	ons		SEEA-CF					NSOs and C	entral Banks



CISAT Part II Self-Assessment

																	SE	LF-ASSESSIV	IENT																		
			1 Re	elevan	ce .												2 Data	a/statistic/indi	cator charact	teristic	s										3 Method	ologic	al sound	dness			
Focal Institutions and data sources	1.1 Relev		•		Requir reque indicat	ests fo	r this		2.1 0	ata cha	ıracteri	stics and	d availa	bility	2.2 Institution(s) collecting data on this statistic/indicator			2.3 Form characte statistic/i	ristics of		stitution(s) o s statistic/ind		2.5 N	lain reason is not ava						l Interna ompara		3.2	Methodo	ology c	haracter	ristics	4 Futu
National focal institution National Data Sources	1.1.1 Relevance of indicator/statistic at the national level	1.1.2 Reference/ link	1.1.3 Priority for national data collection	1.2.1 Sub-national	1.2.2 National	1.2.3 Regional	1.2.4 International	1.2.5 Specification	2.1.1 Data availability	2.1.2 Reference/ link	2.1.3 Data type	2.1.4 Periodicity	2.1.5 Earliest year available	2.1.6 Latest year available	2.2.1 Collected by NSO	2.2.2 Collected by Ministry of Environment or equivalent institution	2.2.3 Collected by Other (specify)	2.3.1 Similarity of statistic /indicator at the national level to the international one	2.3.2 Format of statistic/indicator	2.4.1 Compiled by NSO	4.3 Compiled by N (specify) 2 Compiled by N of Environment quivalent institt		2.5.1 Resource constraints	2.5.2 Methodological/technical difficulty in data collection	2.5.3 Insufficient quality	2.5.4 Inaccessibility	2.5.5 Lack of institutional set-up/coordination	2.5.6 Other (specify)	3.1.1 Methodology	3.1.2 Reference/ link	3.1.3 Main reason why the methodology used is not sound	3.2.1 Type of data source	3.2.2 Category of measurement	3.2.3 Unit of measurement	3.2.4 Potential aggregations and scales	3.2.5 Classifications/groupings	re Plans
																																	4				
Environment Age	ncu/Nationa	climate	change r	eportin	g autho	rities																											+	\vdash	+-+	\rightarrow	-
Environment Age	ncy/Nationa	l climate	change r	eportin	g autho	rities																															
Environment Age	ncy/Nationa	l climate	change r	eportin	g autho	rities																															
Environment Age	ncy/Nationa	climate	change r	eportin	g autho	prities																											+	-	$\perp \perp \perp$	\rightarrow	
NSO Environment Age	noudNations	Lolinasto	ob space	opostio	a sutha	rition						-																					+-+	\vdash	\vdash	\rightarrow	-
Environment Age									1														+									+	+	-	\vdash	\rightarrow	
NSOs and Centra	l Banks			T	Ī 1																												\top	\Box		-	
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Instructions

The Global Set of Climate Change Statistics and Indicators was recommended as the framework for climate change statistics and indicators to be used by countries when preparing their own sets. It is designed with enough flexibility to be adapted to individual countries' climate change concerns, priorities and resources. A country's national set may require additional indicators and statistics to be included as well as the possible exclusion of those indicators and statistics which are defined as not relevant or not applicable (see 1.1.1 below). There may also be a need to modify some indicators and statistics to better reflect the national circumstances.

Global Set

Part II of the CISAT lists all 158 indicators and 190 statistics included in the Global Set, followed by the main Global Climate Policy References, Statistical References and Self-Assessment questions organised in separate sections in an Excel spreadsheet. The following definitions apply:

Area [column B]: A schematic framework developed by the IPCC summarises the complexity of climate change as a sequence of events: drivers, impacts, vulnerability, mitigation and adaptation. These events are applied as five top-level areas in the Global Set. Each indicator is assigned to one of the five IPCC areas as a primary belonging, while some indicators were also assigned as applicable in one or more additional areas.

Topic [column C]: As in the FDES (p. 3), the statistical topics represent the quantifiable aspects of the areas taking into account the types and sources of the statistics needed to describe them.

Number [column D]: Each indicator is numbered from 1 to 158.

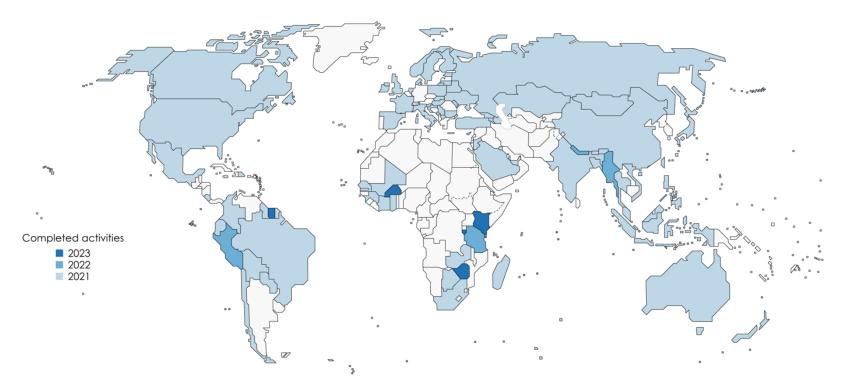
Indicator [column E]: As in the FDES (p. 7), environmental indicators are used to synthesize and present complex environment and other statistics in a simple, direct, clear and relevant way... may take various

□1. Total greenhouse gas emissions per year

Field	Description	
Indicator	Total greenhouse gas emissions per year	
Statistics		Total emissions of direct greenhouse gases (excluding LULUCF)
Area	Drivers	
Topic	Total greenhouse gas emissions	Total greenhouse gas emissions
Themes	GHG emissions	GHG emissions
Paris Agreement article	13.7a	13.7a
PAWP-Katowice	Decision 18/CMA.1, chapter II, para. 47-49	Decision 18/CMA.1, chapter II, para. 47-49
FDES		3.1.1.a [similar to]
SDG	13.2.2	
Sendai Framework		
Tier	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, <a <a="" a="" and="" are="" area="" atmosphere="" chapter="" emissions="" ghgs="" glossary="" href="https://www.ipcc.ch/sr15/chapter/glossary/Emissions.pdf" https:="" into="" of="" or="" over="" precursors="" release="" specified="" sr15="" the="" their="" www.ipcc.ch="">https://www.ipcc.ch/sr15/chapter/glossary/Emissions.pdf (FDES BSES 1.3.1 and 3.1.1, p.8, https://wnstats.un.org/unsd/envstats/fdes/MS1.3.1 (GHGemissions.pdf)	atmosphere by a source. It includes CO ₂ , CH ₄ , N ₂ O, HFC, SF ₆ , PFC, NF ₃ from agriculture, energy, industry waste, excluding 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 'anthropogenic' if after burning the land use is changed, for example to pasture, and the land is accordingly re-categorized as 'managed'. [FDES BSES 1.3.1 and 3.1.1, p.8, https://unstats.un.org/unsd/envstats/fdes/MS1.3.1. GHGe
Relevance	of long-wave (infrared) energy capture by the GHGs in the	enhouse gas effect which leads to global warming, as a result atmosphere and its downward re-emitting which causes [IPCC, https://www.ipcc.ch/site/assets/uploads/2018/02/ard

Growing engagement of countries

Climate Change Statistics



- Global Consultation (May- Sept 2021) 86 countries (68 on part 1 and 75 part 2) and 26 organizations
- The engagement is wider than that, UNSD funded consultancies helped 2 more countries to do the assessment, another 9 countries to improve their earlier assessments in Africa
- Ongoing regional initiatives are also strengthening climate change statistics in countries



Capacity development activities

- 1. Africa (funded by the African Development Bank)
 - COMESA initiated a new capacity development project addressing 37 African countries and key regional entities involved in reporting to UNFCCC
 - COMESA Workshop on Environment and Climate Change Statistics for the African Development Fund Countries (Nairobi, Kenya, 28 November 1 December 2022)
 - The following countries were engaged in CISAT pilot-testing: Burkina Faso, Burundi, Cameroon, Ghana, Togo, Zimbabwe, etc.
 - The following countries were assisted to develop national programmes and roadmaps for climate change statistics in 2023: Burkina Faso, Burundi, Kenya, Zimbabwe
- 2. CISAT pilot-testing in Caribbean SIDS (RPTC funded activity): Antigua and Barbuda, Belize, Grenada, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname
- 3. National mission and workshop on Environment and Climate Change Statistics in Peru, Lima, 12 16 December 2022), with a main objective to initiate the development of a national programme and mobilize resources
- 4. Climate Change and Disaster-related statistics under the DA 14 project



Thank you for your attention!

For more information please contact the Environment Statistics Section at the United Nations Statistics Division:

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Climate Change Statistics Website https://unstats.un.org/unsd/envstats/climatechange.cshtml and

https://unstats.un.org/unsd/envstats/ClimateChange StatAndInd global.cshtml



