

ESSAT application for climate change statistics based on Parts I and II of the Global Consultation



Environment Statistics Section, UNSD
Eighth Expert Group on Environmental Statistics
20 October 2021



Outline

1. Background of the Draft Global Set
2. Part I and II of the Draft Global Set
3. Examples of Improvements Made by Countries
4. The Way Forward



Background of the draft Global Set

Part I

- B. National policies and strategies
- C. Mandate and organization
- D. Production and reporting
- E. Inter-institutional collaboration
- F. Technical assistance and training
- G. The way forward
- Comes in two versions: Word and Online.

Part II

Area	Topic	Indicator	Statistics	Code	Tier	Preliminary
DRIVERS				1		
<i>Total greenhouse gas (GHG) emissions</i>				101		
	1	Total greenhouse gas emissions per year (SDG 13.2.2)		1020	1	
		Total emissions of direct greenhouse gases (GHGs, excluding		1021	1	
		Total emissions of indirect greenhouse gases (GHGs) (FDES 3.		1022	1	
		Greenhouse gas emissions from land use, land use change an		1023	1	
	2	Total greenhouse gas emissions from the national economy (UN-ECE 09a, excluding indire		1030	2	
				1031		
<i>Atmospheric concentration of greenhouse gases</i>				104		
	3	Global concentration of greenhouse gases		1040	2	
				1041		
<i>Energy production and supply</i>				105		
	4	Total primary energy production from fossil fuels		1050	1	
				1051		
	5	Total energy supply from fossil fuels		1060	1	
				1061		
<i>Energy consumption</i>				107		
	6	Energy consumption by households and enterprises		1070	1	
		Final energy consumption (FDES 2.2.2.c)		1071	1	
		Households		1072	1	
	7	Energy intensity measured in terms of primary energy and GDP (SDG 7.3.1)		1080	2	
		Total energy supply (FDES 2.2.2.b)		1081	1	
		GDP		1082	1	
<i>Fossil fuels</i>				109		
	8	Use of fossil fuels		1090	3	
		Fossil fuels extraction (FDES 2.2.1.a.5)		1091	1	
		Fossil fuels imports		1092	1	
		Fossil fuels exports		1093	1	
	9	Share of fossil fuels in total primary energy supply (UN-ECE 2b)		1100	2	
		Primary energy supply from fossil fuels		1101	1	
		Total primary energy supply		1102	1	



Part I and II of the Draft Global Set

- The level of development of climate change for the countries varies, and the understanding to Part I was different. UNSD offered bilateral consultation to those countries most in need.
- It has proved to be a way of learning: after bilateral consultation with UNSD, **more than 20 countries** provided additional information to complement their initial feedback, many with significant improvements.
- UNSD asked three main questions for each indicator and statistic: **relevance, methodology soundness, and data availability**. They help the countries to self-evaluate the current status for these indicators and statistics.
- It also helped the country NSOs to reach out and collaborate with other line ministries in charge of climate change data.



Part I and II of the Draft Global Set

- Part II serves to assess preparedness of countries to develop climate change statistics and provided opportunity for continuous learning.
- UNSD offered feedback to all responses received by end of September (**more than 80 countries**).
- **More than 35 countries** provided additional information to complement their initial feedback, many with significant improvements.
- There were some initial misunderstanding, which the bilateral consultations helped to resolve.
- Six information sessions (in English, French, Spanish) were offered by UNSD, in collaboration with regional commissions, to the countries to develop their own capacity and self-learn.
- Some countries engaged on continuous self-assessment and national development process (setting up **national climate change process and framework, hiring consultant**, etc.)



Examples of Improvements made by countries

- The Global Set helps to improve applicability of existing statistical frameworks and standards, by referencing all of them:
 - Several respondents realized the difference between territory and residence based GHGs in the process of the Global Consultation.
- Countries are now assessing relevance based on **national policies**, not at global level.
- Some countries have correctly pointed out that, when data were **estimated for**, for example, some SDG Indicators, data availability should be listed as “No”, meaning there were no national data.
- Some countries helped UNSD to repopulate the “**National data sources**” column of Part II, indicating their national institutions in charge of such indicators and statistics.



The Way Forward

In order to adapt to the fast-changing nature of climate change and continuously engage to the countries' latest needs, UNSD plan to:

- Continuously collect feedback and responses from countries on the current draft Part I and II.
- Develop training materials based on these feedback and responses.
- Explore ways to make both parts more accessible and user-friendly in the longer term.
- Seeks suggestions on what would be the most helpful ways to improve the structure of the draft Global Set and make it user-friendly.

UNSD will transform the draft Global Set into an ESSAT-style self evaluation tool for climate change statistics, for countries to self-administer whenever they see appropriate.

Indicator	Statistics	Indexed Reference	Methodology/Standard	Paris Agreement articles	Code	Preliminary Tier	Themes	Proposed Review Agency	National Data Sources
					1				
					101				
1	Total greenhouse gas emissions per year (SDG 13.2.2)	SDG 13.2.2	IPCC 2006;	13.7a	1020	1	GHG emissions	IPCC; UNFCCC	Ministry of Environment
	Total emissions of direct greenhouse gases	FDES 3.1.1.a	IPCC 2006;	13.7a	1021	1	GHG emissions	IPCC; UNFCCC	Ministry of Environment
	Total emissions of indirect greenhouse gases	FDES 3.1.1.b	IPCC 2006;	13.7a	1022	1	GHG emissions	IPCC; UNFCCC	Ministry of Environment
	Greenhouse gas emissions from land use, li	UN-ECE 11	IPCC 2006;	13.7a	1023	1	GHG emissions	IPCC; UNFCCC	Ministry of Environment
2	Total greenhouse gas emissions from the national econ	UN-ECE 11	SEEA-CF;	13.7a	1030	2	GHG emissions	Eurostat; IMF	NSO
					104				
3	Global concentration of greenhouse gases				1040	2	GHG concentrat	IPCC; WMO	
					1041		GHG concentrat	IPCC; WMO	
					105				
4	Total primary energy production from fossil fuels		IRES	4.8; 4.13; 13.7b	1050	1	Energy	IEA; UNSD	
					1051		Energy		
5	Total energy supply from fossil fuels		IRES	4.8; 4.13; 13.7b	1060	1	Energy	IEA; UNSD	
					1061		Energy		

- Translation into multiple languages?
- Part II goes online and interactive?
- Which columns should be shown in Part II [e.g., Paris Agreement; indexed references to indicator frameworks; statistical guidance and standards]?
- Add a national data source column?



Thank you for your attention!

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

E-mail: envstats@un.org

Website: <https://unstats.un.org/unsd/envstats/>

Climate Change Statistics Website <https://unstats.un.org/unsd/envstats/climatechange.cshhtml>
https://unstats.un.org/unsd/envstats/ClimateChange_StatAndInd_global.cshhtml

