

Country Report - Senegal

Capacity Building Activities under the European Commission funded project on Enhancing capacity for measuring progress towards the Environmental Dimension of the SDGs, 2020-2023



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1. Introduction

The project Enhancing Capacity for Measuring Progress towards the Environmental Dimension of the Sustainable Development Goals (SDGs), funded by the European Commission, was instituted to strengthen national capacity for monitoring and reporting on the environmental dimension of the SDGs, including SDG indicators 8.4.1/12.2.1 on material footprint, 8.4.2/12.2.2 on domestic material consumption, 12.3.1b on food waste, 12.4.2 on hazardous waste generated and treated, 12.5.1 on national recycling rate and 17.14.1 on policy coherence.

Three tools were newly developed to assist in the compilation of the data necessary to calculate the values for SDG indicators 8.4.2/12.2.2, 12.4.2 and 12.5.1. These tools are formed of (i) Excel spreadsheets containing detailed variables that are calculated together to generate the value of SDG indicators, and (ii) step-by-step documents to guide government officials on filling the Excel spreadsheets.

National activities were implemented in different formats in beneficiary countries in Africa and Asia. The aims of the national activities were to deepen government officials' understanding of the adopted methodologies for SDG indicators, to equip them with the necessary statistical capacity to report on these indicators and as these indicators require data from multiple national stakeholders, engage all stakeholders together for future collaborations.

The following national activities were implemented in Dakar, Senegal between 31 July and 11 August and from 28 to 29 November 2023:

- In-country technical assistance mission on material flow indicators (SDG indicators 8.4.1/12.2.1 and 8.4.2/12.2.2);
- In-country technical assistance mission on waste indicators (SDG indicators 12.4.2 and 12.5.1);
- In-country technical assistance mission on policy coherence indicator (SDG indicator 17.14.1); and
- Out-of-country training on food waste indicator (SDG indicator 12.3.1b).

2. SDG material flow indicators: in-country technical assistance mission (31 July-04 August 2023)

Key Observations

- The Senegalese Ministry of the Economy, Planning and Cooperation (Ministère de l'Économie, du Plan et de la Coopération du Sénégal) is the apex authority for the implementation of the SDGs. The National Agency for Statistics and Demography (L'Agence nationale de la statistique et de la démographie (ANSD)) coordinates the collection of statistics in Senegal, including those related to the SDGs.
- Ten participants attended the workshop on indicators 8.4.1/12.2.1 (Material Footprint) and 8.4.2/12.2.2 (Domestic Material Consumption), representing various entities.
- Five days were devoted to compiling material flow accounts.
- The focus of the workshop was on filling out the Economy-Wide Material Flow Accounts (MFA) compiler with data for 2022.
- There were some gaps in data:

- For Table A (Domestic extraction), data on mineral extraction need to be verified, those for salt, gravel and sand in particular.
- For Table D (Material outflows), data for emissions to air (D.1) were from the 2005 greenhouse gas inventory and will need to be updated. Data for D.2 (uncontrolled waste to landfills) were not at hand, and will need to be included. Data on emissions to water (D.3) were not estimated. However, the Ministry of Water and Sanitation may have data that can be used. Data for D.4.5 (Pesticides) and D.4.8 (Solvents laughing gas and other) will be sought from the relevant authorities. The use of sewage sludge (D.4.3) and compost (D.4.4) is thought to be minimal.
- In Table E, data on Balancing items (input side) will need to be updated with current data. Once more information is available on emissions from solid waste and wastewater, it may be possible to estimate oxygen demand and water vapour from bacterial respiration.

Conclusions

Once data gaps are filled, it will be possible for Senegal to complete the compilation of its material flow accounts and derive values for its domestic material consumption (DMC), DMC per capita and DMC per GDP (Indicator 8.4.2/12.2.2). To allow Senegal to calculate its material footprint (Indicator 8.4.1/12.2.1) UNEP will need to provide further guidance on the approach to derive raw material equivalents for exports and imports.

Recommendations

- Once the data for the material flow accounts are updated and verified, the Ministry of the Economy, Planning and Cooperation to communicate the results to UNEP as part of their reporting on Indicator 8.4.2/12.2.2; and
- To allow Senegal to estimate its material footprint (Indicator 8.4.1/12.2.1), UNEP to advise Senegal when the methodology for deriving raw material equivalents for exports and imports has been adapted to use by developing countries.

Way forward

- A representative from ANSD was selected to coordinate the finalization of the material flow accounts for 2022.

3. SDG waste indicators: in-country technical assistance mission (09-11 August 2023)

Key Observations

- The Senegalese Ministry of the Economy, Planning and Cooperation is the apex authority for the implementation of the SDGs. The ANSD coordinates the collection of statistics in Senegal, including those related to the SDGs.
- The workshop on indicators 12.4.2 (Hazardous Waste) and 12.5.1 (National Recycling Rate) was held over three days.
- Nine participants attended the workshop, representing various entities.
- There was insufficient data at hand to calculate values for these two indicators.
- SONAGED (Société nationale de gestion intégrée des déchets) is the entity responsible for the management of waste in Senegal, including the oversight of the Zero Waste

project. The launch of its activities in December 2022 will make more data on waste generation and its management available in the future.

- The Basel Convention focal point has been asked for information on the amounts of hazardous waste generated.
- Data for biomedical waste is available for 2019. It was recorded in the line “Other economic activities excluding ISIC 38”.
- The proportion of municipal waste that is constituted of hazardous materials, including e-waste, is not known.
- Information on total quantities of e-waste generated was available from some years. Sénégal Numérique could be commissioned to use the methodology outlined in the United Nations University E-waste statistics guidelines on classification, reporting and indicators to provide estimates of e-waste generation using information on electric and electronic equipment put on the market.
- Some information on e-waste recycling is available for the government sector. The large participation of the informal sector in recycling and materials recovery impedes the collection of comprehensive data on waste and its management.

Conclusions

The creation of SONAGED and the implementation of the Zero-waste project is expected to improve the collection and management of waste in Senegal, including recycling.

Recommendations

- Sénégal Numérique to be commissioned to estimate e-waste generation and data collected on the recycling of e-waste, including material recovery; and
- SONAGED to foster the collection of data required to compile Indicators 12.4.2 and 12.5.1.

Way forward

- A representative from ANSD will connect with the appropriate sectoral agencies to encourage the collection and provision of data on waste as needed for indicators 12.4.2 (Hazardous waste) and 12.5.1 (National recycling rate).

4. SDG policy coherence indicator: in-country technical assistance mission (31 July-01 August 2023)

Key Observations

- There were around 5 people present during the meeting the first day. Given that during the preceding weekend, the political situation was unstable, protests took place on the first day of the training and some participants decided not to travel to the meeting venue. In collaboration with ANSD, UNEP was able to create a weblink where participants could join the meeting online. Three people joined online, and two participants were in person on the second day.
- Based on the discussions during the two training days, participants seemed very knowledgeable about the policies and their implementation in Senegal. The discussions were interesting to follow as everyone’s participation provided additional insight to the discussion.

- At the end of the training, participants were able to score their country's progress towards policy coherence based on the 8 dimensions. The scoring for each dimension, as per the participants discussions, remains unofficial and is pending validation of the data by the country and Senegal's official response to data collection for SDG indicator 17.14.1.

Recommendations

A set of recommendations were developed based on discussions with the participants:

- Recommendation 1: For ANSD to take the necessary steps to validate the data. Once the data is validated, to officially submit the results to UNEP as a response to the data collection exercise of SDG indicator 17.14.1; and
- Recommendation 2: For ANSD to organize such a meeting once every two years. As the resource people that participated in this training are knowledgeable about the topic, it would be beneficial if the same group of identified people met in the future to provide an update on the progress towards SDG indicator 17.14.1 and the remaining challenges.

Way forward

- Participants will review the recommendations and provide inputs; and
- A representative from ANSD will coordinate on data validation and submit the official response on SDG Indicator 17.14.1 once the data is validated.

5. SDG food waste indicator: out-of-country training (28-29 November 2023)

Key Observations

- The representatives of Senegal were contacted in advance to prepare information that is relevant to food waste in their country, so available information can be identified in advance.
- The representatives showed high interest in the training; multiple questions were asked to clarify information and discussions took place regarding the actual status in Senegal, and how they can leverage their country's data situation to be able to collect and report on SDG indicator 12.3.1b.

Conclusions

The training concluded with a brainstorming on a national action plan to start the collection of food waste related information.

Way forward

- The representatives from ANSD will collaborate with other institutions to collect and compile data about food waste and draft an initial starting point to plan the collection of food waste data.

6. Additional Resources

Technical materials

All relevant technical materials are available on the [project website](#) under 'Output I'.

List of participants – Material flow indicators (31 July-04 August 2023)

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List of participants – Policy coherence indicator (31 July-01 August 2023)

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List of participants – Food waste indicator (28-29 November 2023)

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Agenda - Material flow and waste indicators (31 July-11 August 2023)

Date	Time	Session	Lead/Presenter
31 July 2023	9:00	Opening	ANSD
	9:15	Introductions	All
	9:30	Objectives of the workshop	Consultant - UNEP
	9:45	National Context	ANSD
	10:00	Break	
	10:20	Overview of the selected indicators <ul style="list-style-type: none"> 12.2.1 on material footprint 12.2.2 on domestic material consumption 	Consultant - UNEP
		Part A: Economy-Wide Material Flow Accounts	
	11:00	Introduction Economy-Wide Material Flow Accounts	Consultant - UNEP
	11:15	Overview of data needed for the economy-wide material flow accounts and their potential sources	Consultant – UNEP
	11:45	Overview of data available in Senegal	ANSD
	12:15	Introduction to the compiler <ul style="list-style-type: none"> Domestic extraction (DE) Imports and export of materials Material outflows Balancing items Headline indicators 	Consultant – UNEP
	13:00	Break	
	14:00	Introduction to the compiler <i>continued</i>	
	16:00	End of day	
1 August 2023	9:00	The compiler, step-by-step Domestic extraction (DE) - Table_A <ul style="list-style-type: none"> A.1 Biomass, A.2 Metal ores, A.3 Non-metallic minerals, and A.4 Fossil fuels 	Consultant – UNEP
	10:00	Break	
	10:20	Domestic extraction (DE) - Table_A <i>continued</i>	
	13:00	Break	
	14:00	Domestic extraction (DE) - Table_A <i>continued</i>	
	16:00	End of day	
2 August 2023	9:00	Imports and export of materials – Table_B, Table_C	Consultant – UNEP
	10:00	Break	
	10:20	Material outflows – Table_D	Consultant – UNEP
		Balancing items – Table_E	Consultant – UNEP
		Headline indicators – Table_F	Consultant – UNEP

Date	Time	Session	Lead/Presenter
	12:30	Questions on the compiler	Consultant – UNEP
	13:00	Break	
	14:00	Hands-on session – Objectives/Expectations	Consultant – UNEP
	14:30	Using the compiler - Hands-on	Consultant – UNEP
	16:00	End of day	
3 August 2023	9:00	Using the compiler - Hands-on <i>continued</i>	Consultant – UNEP
	15:30	Questions	
	16:00	End of day	
4 August 2023	9:00	Using the compiler - Hands-on <i>continued</i>	
	4:00	End of day	
7 August 2023	9:00	Using the compiler - Hands-on <i>continued</i>	Consultant - UNEP
	15:30	Questions	
	16:00	End of day	
8 August 2023	9:00	Using the compiler - Hands-on <i>continued</i>	
	14:30	Questions	
	15:30	Next steps and closing	ANSD
	16:00	End of Part A	

Date	Time	Session	Lead/Presenter
Part B: Hazardous waste and recycling			
9 August 2023	9:00	Opening	ANSD
	9:15	Introductions	All
	9:30	Objectives of the workshop	Consultant - UNEP
	9:45	National Context	ANSD / Ministère de l'Environnement, du Développement durable et de la Transition écologique
	10:00	Break	
	10:20	Overview of the selected indicators <ul style="list-style-type: none"> 12.4.2 on hazardous waste generated 12.5.1 on national recycling rate 	Consultant - UNEP
	11:00	Indicator 12.4.2 on hazardous waste generated <ul style="list-style-type: none"> <i>Hazardous waste generated (in tonnes, per km sq. of land area and per capita)</i> 	Consultant - UNEP

Date	Time	Session	Lead/Presenter
		<ul style="list-style-type: none"> Hazardous waste generated by type, including e-waste Proportion of hazardous waste treated Environmentally sound treatment of own generated hazardous waste Hazardous waste intensity of production 	
	13:00	Break	
	14:00	Indicator 12.4.2 on hazardous waste generated <ul style="list-style-type: none"> Introduction to the worksheets 	
	16:00	End of day	
10 August 2023	9:00	Indicator 12.5.1 on national recycling rate <ul style="list-style-type: none"> National recycling rate Total Waste Generated (excluding construction, mining and agriculture) by type, including e-waste National recycling rate by type of waste, including e-waste (other possible disaggregation include, metals and packaging waste) Waste intensity 	Consultant - UNEP
	10:00	Break	
	10:20	Indicator 12.5.1 on national recycling rate - <i>continued</i>	
	13:00	Break	
	14:00	Indicator 12.5.1 on national recycling rate <ul style="list-style-type: none"> Introduction to the worksheets 	
	16:00	End of day	
11 August 2023	9:00	Using the worksheets- Hands-on - <i>continued</i>	Consultant - UNEP
	10:00	Break	Consultant - UNEP
	10:20	Using the worksheets- Hands-on - <i>continued</i>	Consultant – UNEP
	13:00	Break	
	14:00	Using the worksheets- Hands-on – <i>continued</i> And any additional questions	Consultant – UNEP
	15:30	Next steps and closing	ANSD / MEDDTE
	16:00	End of Part B	

Agenda - Policy coherence – parallel sessions (31 July-01 August 2023)

Date	Time	Session	Presenter
31 July 2023	09.00 – 09.30	Opening	ANSD UNEP
	09.30-09.45	Introduction on policy coherence	

	09.45-11.00	Domain 1: Institutionalized political commitment	UNEP
	11.00-11.15	<i>Coffee Break</i>	
	11.15-12.00	Domain 2: Long-term considerations	UNEP
	12.15-13.00	Domain 3: Inter-ministerial and cross-sectoral coordination	UNEP
	13.00-13.30	Domain 4: Participatory processes	UNEP
	13.30-15.00	<i>Lunch break</i>	
	15.00-16.00	Domain 4: Participatory processes - continued	UNEP
	16.00-16.15	Wrap up of day 1	
01 August 2023	09.00-10.00	Domain 5: Integration of the three dimensions of Sustainable Development	UNEP
	10.00-11.00	Domain 6: Consultation and coordination across government levels	UNEP
	11.00-11.30	<i>Coffee break</i>	
	11.30-12.30	Domain 7: Monitoring and reporting for policy coherence	UNEP
	12.15-13.30	Domain 8: Financial resources and tools	UNEP
	13.30-15.00	<i>Lunch break</i>	
	15.00-16.00	Reporting requirements and next steps	UNEP

Agenda – Food waste indicator (28-29 November 2023)

TUESDAY 28 NOVEMBER 2023		
09:30 – 10:00	OPENING AND INTRODUCTIONS	UNEP
10:00 – 10:30	SDG indicator 12.3.1b	UNEP
10:30 – 11:00	Definitions: food, sectors, measurement methods	WRAP
11:00 – 11:30	COFFEE BREAK	
11:30 – 12:00	Household: measuring in a Level 2 approach	WRAP
12:00 – 12:30	Approaches to sampling and designing representative samples	WRAP
12:30 – 13:00	Household measurement planning exercise	WRAP
13:00 – 14:00	LUNCH BREAK	
14:00 – 14:30	Household level 3: Edible/inedible, destinations, other useful information for strategies	WRAP
14:30 – 15:00	Diaries, causes and drivers of waste	WRAP
15:00 – 15:30	Edible/inedible food exercise	WRAP
15:30 – 16:00	COFFEE BREAK	
16:00 – 16:30	Looking ahead to tomorrow: food service and retail subsectors	WRAP
16:30 – 17:00	Defining priority subsectors	WRAP

WEDNESDAY 29 NOVEMBER 2023		
09:30 – 10:00	Food service introduction and sector definition	WRAP
10:00 – 10:30	Measurement methods	WRAP
10:30 – 11:00	Sampling and scaling	WRAP
11:00 – 11:30	COFFEE BREAK	
11:30 – 12:00	Retail measurement methods	WRAP
12:00 – 12:30	<i>Sampling and scaling</i>	WRAP
12:30 – 13:00	Retail Level 3: edible/inedible and food surplus	WRAP
13:00 – 14:00	LUNCH BREAK	
14:00 – 16:45	Working on a measurement strategy in your country: Filling in measurement strategy template Finding and using data for purposes of designing samples Thinking about mapping stakeholders, identifying responsibility and putting the systems in place to make the most of data	WRAP
16:45 – 17:00	Next steps and conclusions	UNEP