11 Greenhouse gas emissions from land use, land use change and forestry (LULUCF)

Indicator type Core indicator

Published

Versio	oning				
First p	First publication 1/26/2017 Latest update 8/27/2021				
Area a	and sub-area				
Area a	and sub-area	Emissions National total			
Prese	ntation				
Tier		1			
defini	efinition and escription 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.				
Unit o	f measure	Kilotonnes (kt) of CO2 equivalent			
Cover	age				
Spatial aggregation		National territory			
Refere	ence period	Calendar year			
Updat	e frequency	Annual			
Base period		Not applicable			
Disagg	gregation (ope	rational indicators)			
Disag	gregation (op	erational indicators) Comments			
Spati	ial				
Land	cover class				
Other	related -indica	ators (e.g.contextual, proxy, other core indicators)			
ID		Subindicator	Type		
09b	Total greenh	ouse gas emissions (excluding LULUCF) from the national territory	Core indicator		
81	Net emission	ns/removal of carbon dioxide by forest land from national territory	Contextual indicator		
58	Deforestatio	n	Contextual indicator		
59	Forest area	area cleared for agricultural production Contextual indicat			
60	Forest re-gro	prest re-growth Contextual			
84	Emissions fro	Emissions from Agriculture, Forestry and Land Use (AFOLU) Contextual indicator			
Releva	ance				
Policy context and rationale		According to IPCC (special report 2019) an estimated 23% of total anthropogenic greenhouse gas emissions (2007-2016) derive from Agriculture, Forestry and Other Land Use.			
Related SDG indicator (SDG I.)		Not applicable			
Relati	on w SDG-I.				
Related Sendai Framework I.		Not applicable			

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Policy references

Document title	Link
Kyoto Protocol (United Nations Climate Change, 1997)	https://unfccc.int/process-and-meetings/the-kyoto-protocol/what-is-the-kyoto-protocol/kyoto-protocol-targets-for-the-first-commitment-period
Paris Agreement (United Nations, 2015)	https://unfccc.int/process-and-meetings/the-paris-agreement/the-paris-agreement
United Nations Framework Convention on Climate Change (United Nations Climate Change, 1994)	https://unfccc.int/process-and-meetings/the- convention/what-is-the-united-nations-framework- convention-on-climate-change
IPCC Special Report on climate change, desertification, land degradation, sustainable land nanagement, food security, and greenhouse gas fluxes in terrestrial ecosystem (summary for policymakers) (Intergovernmental Panel on Climate Change (IPCC), 2019)	https://www.ipcc.ch/site/assets/uploads/2019/08/4 SPM_Approved_Microsite_FINAL.pdf
IPCC Fifth Assessment Report: Climate Change 2014 (Synthesis Report) (Intergovermental Panel on Climate Change (IPCC), 2014)	https://www.ipcc.ch/report/ar5/syr/
IPCC Fourth Assessment Report: The Physical Science Basis (Intergovermental Panel on Climate Change (IPCC), 2007)	https://www.ipcc.ch/report/ar4/wg1/

Methodology

Methodology for indicator calculation

Data consist of CO2 (carbon dioxide), CH4 (methane) and N2O (nitrous oxide) emission estimates associated with land management activities and land use change, as described by relevant IPCC Guidelines for National Greenhouse Gas Inventories.

Methodology references

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	Document title	Link	
2006 IPCC Guidelines for National Greenhouse Gas Inventories (Intergovernmental Panel on Climate Change, 2007)		https://www.ipcc- nggip.iges.or.jp/public/2006gl/index.html	
Classification syst.			
Data sources			
Main source	Other than official statistics		
Explanation	National GHG inventories (in some countries part of official statistics). Second option: FAOSTAT		

SEEA Accounts that can serve as data sources

SEEA Account	Comments
Air emission accounts	
Accounting for carbon	

3.1.1: Emissions of greenhouse gases **UN-FDES**

Emission Database

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Internationa	ıl data	bases	containing	this indicator
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	https://unfccc.int/process-and- meetings/transparency-and- reporting/greenhouse-gas-data/ghg-data- unfccc/ghg-data-from-unfccc
FAOSTAT	http://www.fao.org/faostat/en/ - data

Comments

Comments