

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

Indicator type **Core indicator**

Published

Versioning

First publication Latest update

Area and sub-area

Area and sub-area

Presentation

Tier

Indicator definition and description

Unit of measure

Coverage

Spatial aggregation

Reference period

Update frequency

Base period

Disaggregation (operational indicators)

Disaggregation (operational indicators)	Comments
<input type="text" value="Spatial"/>	<input type="text"/>
<input type="text" value="Land cover class"/>	<input type="text"/>

Other related -indicators (e.g.contextual, proxy, other core indicators)

ID	Subindicator	Type
<input type="text" value="09b"/>	<input type="text" value="Total greenhouse gas emissions (excluding LULUCF) from the national territory"/>	<input type="text" value="Core indicator"/>
<input type="text" value="81"/>	<input type="text" value="Net emissions/removal of carbon dioxide by forest land from national territory"/>	<input type="text" value="Contextual indicator"/>
<input type="text" value="58"/>	<input type="text" value="Deforestation"/>	<input type="text" value="Contextual indicator"/>
<input type="text" value="59"/>	<input type="text" value="Forest area cleared for agricultural production"/>	<input type="text" value="Contextual indicator"/>
<input type="text" value="60"/>	<input type="text" value="Forest re-growth"/>	<input type="text" value="Contextual indicator"/>
<input type="text" value="84"/>	<input type="text" value="Emissions from Agriculture, Forestry and Land Use (AFOLU)"/>	<input type="text" value="Contextual indicator"/>

Relevance

Policy context and rationale

Related SDG indicator (SDG I.)

Relation w SDG-I.

Related Sendai Framework I.

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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 management, 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) (Intergovernmental Panel on Climate Change (IPCC), 2014)	https://www.ipcc.ch/report/ar5/syr/
IPCC Fourth Assessment Report: The Physical Science Basis (Intergovernmental Panel on Climate Change (IPCC), 2007)	https://www.ipcc.ch/report/ar4/wg1/

Methodology

Methodology for indicator calculation	Data consist of CO ₂ (carbon dioxide), CH ₄ (methane) and N ₂ O (nitrous oxide) emission estimates associated with land management activities and land use change, as described by relevant IPCC Guidelines for National Greenhouse Gas Inventories.
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Methodology references

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 Emission Database

SEEA Accounts that can serve as data sources

SEEA Account	Comments
Air emission accounts	
Accounting for carbon	

UN-FDES 3.1.1: Emissions of greenhouse gases

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International databases containing this indicator

UNFCCC database	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