

81 Net emissions/removal of carbon dioxide by forest land from national territory

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" value=""/>
<input type="text" value="Type of forest"/>	<input type="text" value=""/>

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

ID	Subindicator	Type
<input type="text" value="20"/>	<input type="text" value="Carbon stock in soil"/>	<input type="text" value="Core indicator"/>
<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="11"/>	<input type="text" value="Greenhouse gas emissions from land use, land use change and forestry (LULUCF)"/>	<input type="text" value="Core indicator"/>
<input type="text" value="94"/>	<input type="text" value="Area affected by wildfires"/>	<input type="text" value="Contextual indicator"/>

Relevance

Policy context and rationale https://www.unece.org/forests/outlook/carbonsinks.html). In 2017, carbon sequestration by forest land offset about 8.4 % of emissions from other sectors in EU28 countries. The amount of carbon sequestered or released by forest ecosystems annually may change depending multiple factors such as wood harvesting rates, insect outbreaks, forest fires and forest management practices applied."/>

Related SDG indicator (SDG I.)

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Relation w SDG-I. No SDG indicator

Related Sendai Framework I. Not applicable

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

Methodology

Methodology for indicator calculation Annual net CO2 emissions/removal from Forest Land consist of net carbon stock gain/loss in the living biomass pool (aboveground and belowground biomass) associated with Forest Land (consisting Forest Land remaining Forest Land and Land converted to Forest Land). The indicator is calculated as specified in UNFCCC GHG Inventory (see methodological references).

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 GHG inventories

SEEA Accounts that can serve as data sources

SEEA Account	Comments
Air emission accounts	
Accounting for carbon	
Carbon accounts for timber resources	
Physical asset accounts for timber resources	
Physical asset accounts for forest and other wooded land	

UN-FDES 3.1.1: Emissions of greenhouse gases

International databases containing this indicator

FAOSTAT	http://www.fao.org/faostat/en/-data
UNFCCC database	http://di.unfccc.int/detailed_data_by_party

Comments

Comments Indicator originates from LULUCF.