



Task Force on National Greenhouse Gas Inventories

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IPCC TFI TSU

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INTERGOVERNMENTAL PANEL ON climate change



Task Force on National GHG's Inventories (TFI)

- The IPCC is a globally respected **authority in climate science**, providing the gold standard for GHG emissions and removals estimation methodologies, relied upon by governments and organizations worldwide.
- The TFI produces **methodologies** for the estimation of GHG emissions and removals by governments.
- The TFI also encourages the widespread use of the IPCC methodologies through **workshops, information materials**, and the production of the **IPCC inventory software**, which facilitates easy and accurate use of the methodologies.
- The work of the TFI is undertaken at the request of IPCC member governments and is managed by two elected Co-Chairs and an elected Bureau with twelve members supported by a **Technical Support Unit** based in Japan.



Methodology Reports



Methodology Reports

2006 IPCC Guidelines

- Volume 1 - General Guidance and Reporting
 - Volume 2 - Energy
 - Volume 3 - Industrial Processes and Product Use
 - Volume 4 - Agriculture, Forestry and Other Land Use
 - Volume 5 - Waste
- + **2013 Wetlands Supplement**
- + **2019 Refinement**

For the **IPCC's Seventh Assessment cycle** the TFI has been tasked with the production of two new Methodology Reports:

- Emissions of short-lived climate forcers
- Net emissions from carbon dioxide removal technologies and carbon capture utilization and storage activities.



Methodology Reports

Short-lived Climate Forcers (SLCF)

Short-lived Climate Forcers (SLCFs) are atmospheric compounds that have a relatively short lifetime compared to long-lived greenhouse gases. Despite their brief atmospheric presence, SLCFs have a significant impact on climate change and air quality.

Why produce a Methodology Report?

- Improved emission inventories of SLCFs are necessary to enhance scientific understanding and assessment of their role in climate change as well as to inform climate policy at national and international levels
- Internationally-agreed, globally applicable methodologies and emission factors for SLCFs emission inventories are necessary



Methodology Reports

Carbon Dioxide Capture (CDR)

CDR refers to deliberate technologies, practices, and approaches that **remove carbon dioxide from the atmosphere** and **durably store** it after extraction in reservoirs such as vegetation, soils, geological formations, the ocean, or in manufactured products.

Carbon Capture Utilization and Storage (CCUS)

CCUS involves capturing carbon dioxide emissions from **industrial sources** or directly from the **atmosphere**, utilizing the captured CO₂ in various **industrial processes** or products, and **storing** the remaining CO₂ in **geological formations** to prevent its release into the atmosphere.

Why produce a Methodology Report?

- Methodological reports ensure standardized approaches for assessing net emissions from carbon removal and storage, vital for consistency and comparability across projects.
- Provide guidance for policy development, scientific advancement, and public accountability in carbon removal and storage initiatives



Support Tools



IPCC Inventory Software

Developed by the IPCC to help countries **create national greenhouse gas (GHG) inventories**.

Facilitates systematic **collection**, **calculation**, and **reporting of emissions** data, ensuring consistency with IPCC guidelines.

Key Features:

- Adaptable to national circumstances
- A framework for efficient data collection
- Collaboration among multiple experts simultaneously
- An in-country archive system
- Interoperability with UNFCCC reporting tool
- (a unique system, complete, that does all the inventory)
- Consistent with IPCC guidelines and UNFCCC requirements

Essential for accurate GHG measurement and reporting, supporting global climate change monitoring and mitigation efforts.



Emission Factor Database

Library of emission factors/parameters and other relevant data that can be used for estimation of national GHGs emissions/removals:

- Default values from IPCC Guidelines
 - Data from peer-reviewed scientific papers
 - Data from other publications
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- Open to new data proposals
 - Regularly evolves with the addition of new data.

Link: <https://www.ipcc-nggip.iges.or.jp/EFDB/main.php>



Support and Training Initiatives

Empowering GHG inventory methodology understanding and use of support tools. Upcoming workshops:

- Workshop on preparation and reporting of results of national GHG inventories under the ETF of the Paris Agreement
CBIT-GSP and PATP – **Tokyo, Japan**
- The 6th Greenhouse Gas Inventory System Training Workshop
UNOSD – **Bangkok, Thailand**
- The 21st Workshop on greenhouse gas inventory development in Asia
NIES Japan – **Kuala Lumpur, Malaysia**
- Training programme on GHG inventories for national experts from developing countries
UNFCCC & GIR – **Seoul, South Korea**
- IPCC Software demonstration workshop
TFI IPCC – **Baku, Azerbaijan**



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IPCC Structure

