



Partnership on Transparency
in the Paris Agreement

Training Workshop: Preparation and Reporting of Results of National GHG Inventories under the ETF of the Paris Agreement

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Presentation: Data Management System for Archiving the Inventory Data

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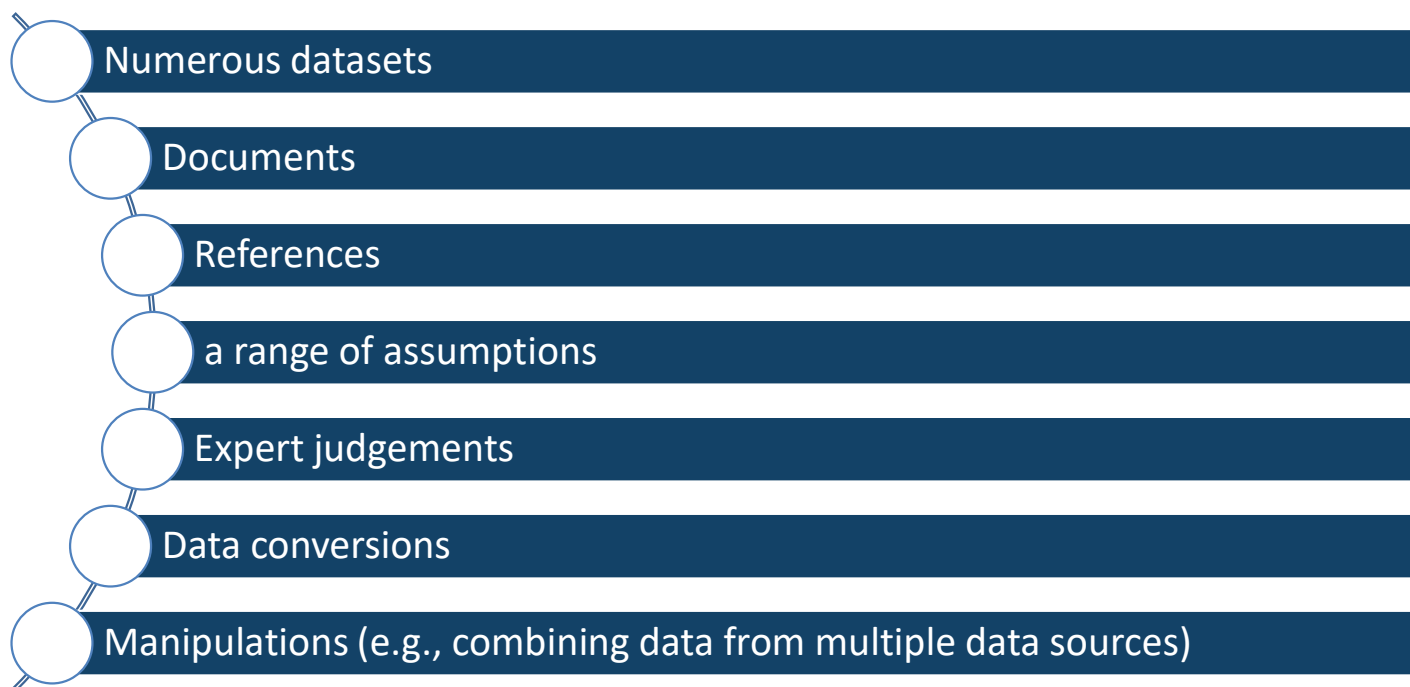
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Data Management Systems for GHG Inventory

Compilation and combination of **information in different formats**:



Data Management Systems for GHG Inventories

Functions:

For calculating estimates

For sharing information between providers-receptors, inter o intra institutional

Aggregating and reporting GHG inventory data

Public outreach of GHG inventory data

Archiving

Data Management Systems for GHG Inventories

Simple:

a collection of spreadsheets, databases and software systems for calculating GHG estimates.

Tools appropriate to national circumstances, including the complexity of their data and methods.

Sophisticated:

database tools connected to the internet and available for users to upload data and to operate from remote locations.

Types of Data Management Systems

Excel-Based	Specialized software	Combination of excel-based, access based and specialized software
Austria	Germany	New Zealand
Hungary		United Kingdom
		Netherlands

Data management systems can vary considerably in terms of their functions, forms, operational resources, and system access arrangements, depending on a country's specific context.

Source: World Resource Institute. Data Management Systems for National Greenhouse Gas Inventories



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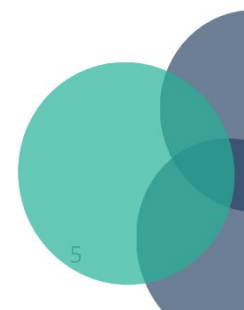
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Common practice for documentation within calculation tools

Using **standard classification and nomenclatures** for compilation of estimates (this nomenclature can be based on country-specific or IPCC or other recognised classifications)

Including **metadata** in each file and maintaining a master list of the calculation files, their types, authors, and versions

Using a **standard file naming convention** across categories and inventory cycles

Documentation in tools with evidence of the implementation of QA/QC procedures

Colour coding or other visual formatting to differentiate between areas of data input, calculations, QA/QC

Checks, explanations, and outputs

Documenting where historical data or methods have been **revised**

Documentation of complex models

Standard output format for all reported data

Source: IPCC 2019

GHG Inventory Archive

- An **inventory archive** is a collection of information related to the GHG inventory compilation process, reporting, and institutional arrangements.
- Having easy access to such information will help:
 - **Current and future inventory compilers understand previously used data**, methodologies, structures, processes, etc., so that they can prepare the inventory efficiently and in a manner that is consistent with prior inventories,
 - Increase the **sustainability of the national GHG inventory** management system over time, and
 - Increase the **transparency** of current reporting under the UNFCCC

Source: U.S. EPA Toolkit for Building National GHG Inventory Systems



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Content of an Inventory Archive

Inventory compilation plan

Institutional arrangements

Methods and data documentation

Any files used for calculation (e.g., spreadsheets, models, databases, IPCC Inventory Software)

QA/QC procedures

Key category analysis

Drafts and final electronic versions of the inventory report

Internal and external review comments and responses

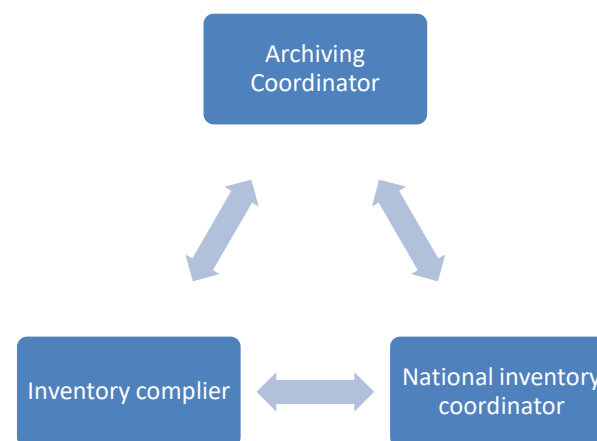
Archiving system

Improvement plan

Archiving System

- The overall objective of plan:
 - to identify **what information** created during the compilation of your national inventory will be archived
 - **where** it will be archived
 - **when** it will be archived
 - **by whom** it will be archived
 - who will have **access** to it and how.

The Archiving Coordinator may need to work with the National Inventory Coordinator (NIC) and other inventory team members to develop this plan.



Responsibilities of Archiving Coordinator

Develop and oversee implementation of the **Archiving System**

Maintain the Archiving System, and review and update it as required (at least every inventory compilation cycle)

Convey the Archiving System **to the inventory compilers**, including:

- The responsibilities for each inventory compiler regarding the documents to be archived and archiving timelines
- The location of the archive
- Instructions regarding access, the file structure, and file/folder naming conventions

Tracking the implementation of activities in the Archiving System

Responsibilities of the National Inventory Coordinator

Coordinate with Sector/Category Leads and the Archiving Coordinator to convey relevant archiving responsibilities to all inventory compilers and data providers

Ensure that the inventory archive is saved in a secure location

Confirm that the inventory archive includes your latest inventory report, estimation files, and all completed templates

These files, preferably in an editable format, can serve as the starting point for your next inventory cycle.

Archiving Procedures Checklist I

Activity	Due Date	Activity Completed	
		Completed by (name)	Date
Archiving Coordinator			
Create official archive, backup, and access requirements	[Enter Date]	[Enter Text]	
Generate folder structure and naming convention			
Update the archiving system and deadlines			
Convey archive structure, naming convention, access, and archiving system to inventory compilers			
Collect and archive documents describing institutional arrangements			
Collect and archive documents describing methods and data collected			
Collect and archive the inventory compilation plan			
Collect and archive any files used for calculation or recalculations			
Collect and archive any files used for assessing uncertainty of the Inventory estimates overall and at the category level			

Archiving Procedures Checklist II

Activity	Due Date	Activity Completed	
		Completed by (name)	Date
Archiving Coordinator			
Collect and archive the QA/QC plan and results of QA/QC assessments	[Enter Date]	[Enter Text]	
Collect and archive results of quality control processes			
Collect and archive the key category analysis			
Collect and archive drafts and final versions of the inventory report			
Collect and archive external review comments and responses			
Archive documentation of the archiving system			
Collect and archive the national inventory improvement plan			
Collect and archive contacts and contact information for data sources			
Collect and archive communication with data sources and the data obtained			
Collect and archive documents indicating decision-making related to the compilation process (e.g., minutes of meetings of the GHG inventory compilers, email correspondence)			

National inventory platform and visualization tool- Chile

Ministerio del Medio Ambiente

INICIO SNICHILE INGEI IRGEI OTRA INFO CONTACTO

Secciones principales

Ministerio del Medio Ambiente

INICIO SNICHILE INGEI IRGEI OTRA INFO CONTACTO

Metropolitana

En 2020, la región Metropolitana de Santiago emitió directamente 20.741 kt CO₂ (sin considerar el sector UTCUTS), representando un 19,6 % del total de emisiones de GEI nacionales. Como se ve en la Figura 23, Energía fue el principal sector emisor (70,7 %), el que considera la quema de combustibles para transporte terrestre, ferroviario, marítimo, aéreo, generación eléctrica para industrias y edificaciones comerciales, públicas y residenciales.

A nivel nacional las emisiones totales aumentaron en un 429 % desde 1990 y disminuyeron en un 4 % desde 2018. Esta región se observa un incremento de emisiones de un 153 % desde 1990 y de una disminución de un 6 % desde 2018. La tendencia general ha estado dominada por el incremento sostenido del consumo de combustible, especialmente el relacionado con el transporte en camiones y automóviles.

Por otra parte, el sector Uso de la Tierra, cambio de uso de la tierra y silvicultura (UTCUTS) emitió, en suma 169 kt CO₂ eq en 2020, lo que representa el 0,3 % del sector a nivel nacional.

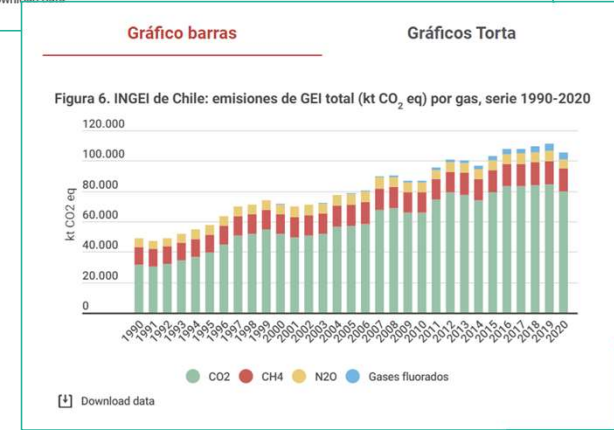
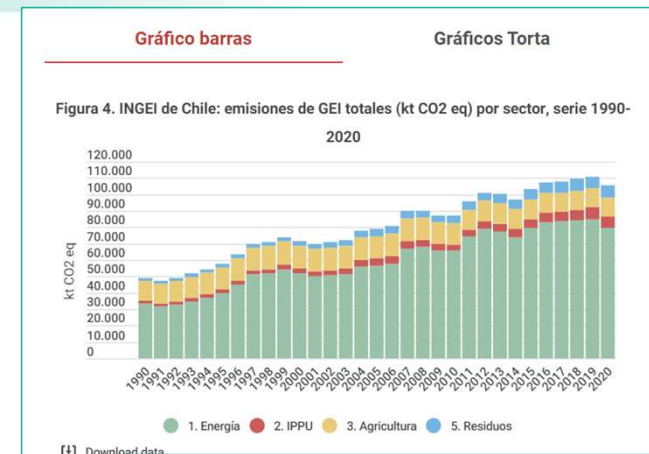
Gráfico barras
Gráficos Torta

Figura 23. Metropolitana: emisiones y absorciones de GEI (kt CO₂ eq) de alcance 1 por sector, 1990-2020

● 1. Energía ● 2. IPPU ● 3. Agricultura ● 4. UTCUTS ● 5. Residuos ● Balance

[Download data](#)

*IPPU: Procesos industriales (no quema de combustible) y uso de productos (principalmente refrigerantes).





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Thank you for your attention!

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