



Food and Agriculture
Organization of the
United Nations

FAO AND ENHANCED TRANSPARENCY FRAMEWORK



THE GREENHOUSE GAS DATA MANAGEMENT (GHG-DM) TOOL

TYPE OF TOOL: EXCEL

PURPOSE: Helps manage the information related to the required activity data and parameters for estimating greenhouse gas (GHG) emissions and removals in all inventory sectors

TARGET USER: GHG inventory compilers

TYPE OF DATA REQUIRED: Metadata such as data sources, which institutions are collecting them, frequency, etc.

BACKGROUND

The Paris Agreement's Enhanced Transparency Framework requires countries to report on their progress in mitigating and adapting to climate change. This includes compiling greenhouse gas emissions and removals from all sources and sinks in their territories.

However, it is not always easy to identify and compile the necessary data and parameters since they are distributed among different providers, and definitions and frequency may differ. Furthermore, GHG inventory compilers are sometimes overwhelmed by the length and complexity of the 2006 Intergovernmental Panel on Climate Change Guidelines (IPCC). This tool will help them have a more concise picture of what data is needed and how to manage them.

ABOUT THE GHG-DM TOOL

This excel-based package helps GHG inventory compilers manage the information related to the activity data and parameters in the agriculture, forestry and other land use (AFOLU); energy; industrial processes and product use (IPPU); and waste sectors. Each excel file contains a comprehensive list of activity data and parameters, that must be collected to estimate, mostly at Tier 1, all categories within these sectors. This tool helps GHG inventory compilers:

- ❖ understand what data is needed for estimating emissions from the sector;
- ❖ collect information on sources of the required data;
- ❖ communicate with data providers on the definitions and units of the data; and
- ❖ improve the transparency and replicability of the estimates.

This tool must be used in conjunction with the 2006 IPCC Guidelines which further explain what information is needed.

ADVANTAGES OF USING THE GHG-DM TOOL

The GHG-DM tool:

- ❖ simplifies the process of tracking information related to the activity data and parameters that must be compiled for the GHG inventory;
- ❖ intuitive and easy to use;
- ❖ puts all the necessary activity data needed in one excel sheet;
- ❖ standardizes definitions, units used, etc. to ensure compliance with the 2006 IPCC Guidelines;
- ❖ for significant source categories, such as enteric fermentation in the AFOLU sector, the tool also provides a list of data required to estimate emissions and removals at Tier 2;
- ❖ explains the notation keys that can be used when numerical data are not available; and
- ❖ can be adapted to country circumstances by adding additional rows when needed (for example, for further disaggregation of the information, animal categories, land use sub-categories, etc.).

Note that the GHG-DM tool is not designed to collect the activity data but only the metadata related to it.

RESOURCES

[The Greenhouse Gas Data Management \(GHG-DM\) Tool](#) (zip file of excel sheets, 2 MB)

[2006 IPCC Guidelines for National Greenhouse Gas Inventories](#)

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<https://www.fao.org/climate-change/our-work/what-we-do/ndcs/transparency-framework/en/>

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