



United Nations Climate Change

Global Climate Action

Sectoral Activity data for Greenhouse gas Emissions calculations (SAGE)

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Many Compilers face Activity Data problems:





WELCOME TO SAGE Introduction



Purpose of SAGE



- SAGE is a greenhouse gas inventory data collection tool to support national climate measurement, reporting, and verification (MRV) systems, especially in developing countries, through robust data collection, intelligent processing, and storage.
- SAGE is fully compatible with the 2006 IPCC guidelines for national greenhouse gas inventories and was developed to support governments in collecting activity data to ultimately meet the reporting requirements under the Enhanced Transparency Framework of the Paris Agreement.



What does SAGE do?...

Enter & Track Activity Data (AD)

- **Recalculate units**
- Set uncertainty following 2006
- **IPCC** logic
- **Apply sector-specific features**

Find & FillAdjust menusPerformData gapsto nationalDatacircumstancesanalysis

Calculate Indicators Support data Review & approval process

Examples of Sector-specific features

Energy:

- Enter the data for the Reference approach and calculate the Apparent Fuel Consumption
- Sectoral approach: top-down or bottom-up data entry

IPPU:

- Blend calculator for F-gases
- Calculating banks

Waste:

- FOD model
- Data entry by bulk and by the composition
- TOW calculation

Inside the SAGE tool



For calculations, SAGE uses:

 business logic described in the 2006 IPCC Guidelines,

basic material science and engineering data,

□ statistical formulae.

- SAGE is a web-based tool that can be run on a server of your choice
- It can be accessed by multiple users simultaneously
- It accepts data entries through the web form, from Excel files (for time series), or by modifying data collections previously created in SAGE and approved for publication and external use

Sequence of work with SAGE



SAGE and IPCC software

SAGE and IPCC are DIFFERENT, but COMPLEMENTARY tools, it's a good idea to use both tools for producing GHG inventories

SAGE is for storing and processing activity data and metadata so that it could be entered in the IPCC equations; it also performs AD analysis and fills the data gaps

IPCC software is for calculating emissions from the processed AD, processing emissions, and creating reports

SAGE supports the IPCC tool by providing the appropriately processed AD as required by the IPCC tool in the correct form and units

It is planned to build an XML bridge between the SAGE and IPCC tool to provide for the automatic AD upload

BOTH tools are distributed free of charge!



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