IPCC Workshop on the Inventory Software

Energy Session Preview

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André Amaro and Lucy Garland

IPCC TFI-TSU

INTERGOVERNMENTAL PANEL ON climate change

WMO

UN environment programme

Goals for our session:

I. Get familiar with the IPCC Inventory Software Environment

- Navigate the software **interface** and **worksheets**
- Enter **activity data** and select **emissions factors**
- Use the **Fuel-Manager tool**
- Use the **Reference Approach tool**
- Create a **New Inventory Year**

II. Be able to estimate emissions using the IPCC Inventory Software

- Apply **default IPCC** factors (Tier 1)
- Apply **country/sector-specific** factors (Tier 2)
- Apply **plant-specific** factors (Tier 3)
- Produce the **Reference Approach**

Way of work for Energy session:

Morning Session:

We will be working together from **09:00 to 12:30**, 3-hour of **hands-on activities**.

Step-by-step Approach:

Guided exercises to build **familiarity** and **confidence** with the IPCC Inventory Software.

Increasing Complexity:

Start with **basic tasks** and gradually move to more **complex exercises**.

Hands-On Practice:

Download the Excel dataset with input data from the **EDG site** to your computer before the session.

Exercise 1 – Entering data

OVERVIEW:

In this exercise, you'll **enter activity data** aggregated at the national level into the IPCC Inventory Software. We will explore how to **apply both Tier 1 and Tier 2 approaches** to estimate GHG emissions.

FOCUS:

- Start by using **default** parameters for a **quick estimation**.
- Then, update the software with **sector-specific data** to **refine the estimates** using the Tier 2 method.

GOAL

- This exercise will help you understand how to input data and select appropriate emission factors based on available information.

Exercise 2 – Fuel Manager

OVERVIEW:

This exercise **introduces the Fuel Manager tool**, where you will learn to enter a **custom fuel** that has **country-specific properties**, such as carbon content and net calorific value.

FOCUS:

- Enter specific fuels consumed at the **plant level**.
- Use **plant-specific parameters** like **net calorific values**, **carbon content**, and **oxidation factors**.

GOAL:

- By the end of this exercise, you'll be **familiar with managing custom fuel** entries and applying detailed, **plant-specific data** for more accurate emission estimates.

Exercise 3 – Reference Approach

Overview:

In this exercise, you will attempt to replicate the **comparative analysis** between the **Reference and Sectoral Approaches**. The Sectoral Approach will use the results obtained in Exercises 1 and 2, while the Reference Approach will be based on national energy supply statistics.

FOCUS:

- Input national energy supply data into the software to calculate the Reference Approach.
- **Compare the results** from the **Reference Approach** with those obtained from the **Sectoral Approach**.

GOAL:

- This exercise will enhance your understanding of how different approaches can be used to validate and cross-check GHG emission estimates.

Exercise 4 – New Inventory Year

OVERVIEW :

In this final exercise, you will **create a new inventory year** in the IPCC Inventory Software. Starting with data from 2015, your task will be **to update the relevant information to reflect the year 2022.**

FOCUS :

- Learn how to **copy and update data from a previous year** to create a new inventory year.
- **Apply the same methodologies** used in earlier exercises to estimate GHG emissions for 2022.

GOAL :

- This exercise will **reinforce** your ability to manage and update inventories, ensuring that you can **replicate and adjust GHG estimates as new data becomes available**.

THANK YOU
FOR YOUR ATTENTION

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ipcc-nggip.iges.or.jp


nggip-tsu@iges.or.jp

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