Joint IEA UNEP UNFCCC Workshop on Energy Data for Climate Policy
Strengthening energy data for an effective Enhanced Transparency Framework under the Paris Agreement

Importance of the Institutional Arrangements for GHG Inventories Development

Online workshops: 25 and 27 November 2020
Why do Institutional Arrangements matter for GHG Inventories?

They help a Party meet its reporting requirements under the Convention and the Paris Agreement by ensuring that GHG inventories are prepared in accordance with the relevant COP/CMA decisions.

- Decision 18 / CMA.1 adopted common Modalities, Procedures and Guidelines (MPGs) for the transparency framework for action and support referred to in Article 13 of the Paris Agreement

✓ MPG, para. 18 “Each Party should implement and maintain national inventory arrangements, including institutional, legal and procedural arrangements for the continued estimation, compilation and timely reporting of national inventory reports in accordance with these MPGs. National inventory arrangements can vary by Party depending on their national circumstances and preferences and change over time”.

The 2006 IPCC Guidelines provide general guidance to plan a GHG inventory cycle:

“…It is good practice for the inventory compiler to define specific responsibilities and procedures for the planning, preparation, and management of inventory activities, including: data collection; selection of methods, emission factors, activity data and other estimation parameters; estimation of emissions or removals; uncertainty assessment; QA/QC and verification activities; and documentation and archiving…”

The concepts and tools in Volume 1 of the 2006 IPCC Guidelines support efficient inventory management, checking, and continuous improvement.

By following the Guidelines, you should be able to make the best use of limited resources and produce an inventory of a quality consistent with IPCC good practice principles.
Institutional Arrangements

- **Common** general principles;
- **Different** ways to apply common principles;
- **Similar** stakeholders;
- **Different** national circumstances;
- **Different** setup for each country.

National GHG Inventory Management System

- **Help** countries **meet** their **commitments** under the Convention and the PA;
- **Facilitates** the **review of information submitted** under the Convention and the PA;
- **Ensures** that **nationally appropriate procedures** for the collection, processing, reporting and archiving of data and inventory information are in place;
- **Ensures coordination** between all the actors concerned: ministries, national agencies, academia, research community, technical experts, consultants, etc.;
- **Ensures** the **sustainability** of the inventory process;
- **Ensures** the **quality** of inventory data
  - Transparency
  - Accuracy
  - Completeness
  - Consistency
  - Comparability
- **Informs** the development of international, national and local policies.
National Inventory Schedule

- Ensure there is an archive of each GHG inventory
- Review and examine the quality of the inventory
- Develop an improvement plan
- Finalise draft. Take into account review comments, i.e. from QA/QC, including basic peer review if possible
- Publish/submit inventory for UNFCCC reporting on time

- Inventory kick off meeting
- Review and implement improvement plan
- Identify Activity Data and choose methodologies
- Collect Activity Data, Emission factors
- QC all data
- Make initial estimate of emissions and removals
- QC and QA, such as basic peer review if possible

- Document methodological approaches
- Write report

See US-EPA, Toolkit for Building National GHG Inventory Systems
### Non-Annex I Parties Emissions/Removals in Gg CO₂ eq. (latest year available)

<table>
<thead>
<tr>
<th>Non-Annex I Parties Annual Emissions/Removal in Gg CO₂ equivalent</th>
<th>Total GHG emissions excluding LULUCF</th>
<th>Total GHG emissions including LULUCF</th>
<th>Energy Industrial Processes</th>
<th>Agriculture</th>
<th>Land-Use Change and Forestry</th>
<th>Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL</td>
<td>25839586</td>
<td>22109945</td>
<td>18514230</td>
<td>2833871</td>
<td>-3729642</td>
<td>1136874</td>
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<td>Share to total</td>
<td>71.7</td>
<td>11</td>
<td>13</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Share to Total non-Annex I Parties Annual Emissions per Sector (Excluding LUCF) %**

- Energy: 71.7%
- Industrial Processes: 11%
- Agriculture: 13%
- Waste: 4%
Thank you for your attention!