PROGRESS REPORTS

Task Force on National Greenhouse Gas Inventories

(Prepared by the Co-Chairs of the Task Force on National Greenhouse Gas Inventories)

(Submitted by the Secretary of the IPCC)

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1 This revised version is being submitted to reflect the addition of a paragraph under Section 2 “IPCC Inventory Software” and Annex II has been corrected.
This report describes the progress in the work of the Task Force on National Greenhouse Gas Inventories (TFI) since the last update presented during the 54th (bis) Session of the IPCC (IPCC-54bis) in December 2021:

- Methodological work on short-lived climate forcers (SLCFs);
- The development and maintenance of the IPCC Inventory Software;
- The data population and maintenance of the IPCC Emission Factor Database;
- Others.

1. Methodological Work on Short-lived Climate Forcers (SLCF)

The preparatory work for the Methodology Report on Short-lived Climate Forcers (SLCFs) has been conducted since 2019 in accordance with the Decision IPCC-XLIX-7. As was reported at IPCC-54bis, technical analysis work had been done by the TFI Technical Support Unit (TFI TSU) together with other experts in 2020 and 2021, and the Joint 1st and 2nd Expert Meeting on SLCFs had been virtually held from 11 to 22 October 2021. The report of this expert meeting was published at the TFI website in March 2022, which contains a list of all significant source categories of SLCFs and issues for further consideration for each inventory sector, Energy, Industrial Processes and Product Use (IPPU), Agriculture, Forestry and Other Land Use (AFOLU), Waste.

The TFI held the 3rd Expert Meeting on SLCFs from 11 to 15 April 2022 in a virtual format. Experts discussed various cross-sectoral issues, such as definitions of SLCF species and their relevance for a climate-related inventory, as well as the applicability of general inventory guidance provided in Volume 1 of the 2006 IPCC Guidelines and its 2019 Refinement to the inventories of SLCFs, including, but not limited to, key category analysis, uncertainty analysis, verification. Also, the meeting took into account the contribution of Working Groups I and III to the IPCC Sixth Assessment Report (AR6). The report of this expert meeting will be published in due course in the TFI website. The expert meeting produced a list of SLCF species with their definitions and information on their relevance for an emission inventory, a compilation of general inventory issues relevant for an SLCF emission inventory, a list of SLCF categories and a list of information gaps for an SLCF emission inventory.

By publication of the report of 3rd Expert Meeting, the preparatory work during the IPCC sixth assessment cycle (AR6 cycle) required by Decision IPCC-XLIX-7 will be completed. The TFI extends its appreciation to the Government of Norway for the financial contribution to support the preparatory work. All the outcomes of the preparatory work will serve as the basis for discussion at the Scoping Meeting for the Methodology Report that will be held during the IPCC seventh assessment cycle (AR7 cycle) in accordance with the agreement by the Panel at its 53rd (bis) Session.

2. IPCC Inventory Software

The TFI keeps improving the IPCC Inventory Software and supporting its users. A new beta version is currently under testing. This new beta version is with enhanced capacity for all methodological tiers for all inventory sectors (Energy, IPPU, AFOLU, Waste) and all approaches for the land representation in the AFOLU sector.

Although the COVID-19 pandemic has dramatically reduced the opportunities to reach out to inventory compilers, the TFI TSU has been making efforts to help inventory compilers better understand and use the IPCC Inventory Software by participating in outreach events organized by other organizations. Recent examples of such outreach events are the Remote Training on the IPCC Inventory Software for the African region and for the Asian-Pacific and Eastern Europe regions, organized by the United Nations Food and Agriculture Organization and the United Nations Environment Programme.
Further, the TFI has organized an expert meeting to collect Software and EFDB users’ feedback. The meeting was hosted by the Food and Agriculture Organization of the United Nations (FAO) in Rome, from 26 to 28 July 2022. The focus of the meeting was, among others, the testing of Energy and AFOLU sectors of the beta version of the IPCC Inventory Software. Outcomes of this expert meeting will be used to upgrade/improve the software. The next version of the IPCC Inventory Software is expected to be released at UNFCCC 27th session of the Conference of the Parties (COP27) in November this year. The TFI extends its appreciation to FAO for hosting the meeting as well as for the cooperation in producing add-ons to the IPCC Inventory Software about land representation for the AFOLU sector. The TFI also extends its appreciation to the UNFCCC Secretariat for the financial contribution to support upgrade/improvement of the IPCC Inventory Software.

Noting the importance attached to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories and the IPCC Inventory Software by the UNFCCC Conference of the Parties serving as the meeting of the Parties to the Paris Agreement (CMA), the TFI TSU has initiated the work, under the guidance of Bureau of TFI (TFB), to help the UNFCCC Secretariat in mapping the categories in the 2006 IPCC Guidelines for National Greenhouse Gas Inventories and those in the Common Reporting Tables agreed at CMA3 in November 20214. This work will help the UNFCCC Secretariat facilitate interoperability between the reporting tools that will be used under the Paris Agreement and the IPCC Inventory Software5.

The TFB noted that the UNFCCC CMA3 had invited the IPCC to organize a technical training workshop in the second half of 2024 on its inventory software and the linkages of the software with the reporting tool for the electronic reporting of common reporting tables that will be used under the Paris Agreement6. The current TFB is not in a position to make a firm proposal to the Panel on how to respond to this invitation, because this training workshop is expected to take place in 2024 during the AR7 cycle. However, the current TFB wishes to express its concern about this invitation, because of the following reasons.

- **TFI support to users consist of gathering feedback on software functionalities that need correction or improvement; Training or capacity building is not included in the role of IPCC defined in the Principles Governing IPCC Work.**
- **It will need to be an extraordinarily large-scale workshop with invitees from each developing country Party to the UNFCCC/Paris Agreement. It will entail significant budgetary requirements.**
- **In the light of the aim of this training workshop, the UNFCCC secretariat and the UNFCCC national focal points would be in a better position than the IPCC TFB to identify and select invitees.**

While fully recognizing the importance of IPCC TFI’s cooperation to this training workshop, the current TFB is concerned about suitability of the IPCC to organize it.

### 3. Emission Factor Database (EFDB)

The TFI has continued its work to maintain, improve and promote the Emission Factor Database (EFDB)7.

According to the letter from the IPCC Secretary sent on 3 December 2021 (5238-21/IPCC/TFI) member governments and observer organizations were invited to nominate candidates of experts to serve on the EFDB Editorial Board to fill the positions becoming vacant at the end of 2021 and 2022. Based on the submissions received by 24 January 2022, the TFB selected new members taking balance of geographical representation and gender into consideration, which was endorsed by the IPCC Chair. The members of EFDB Editorial Board including those selected this time are listed in the Annex III to this progress report.

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5 Paragraphs 19 and 20 of Decision 5/CMA.3 (https://unfccc.int/documents/460951)
7 https://www.ipcc-nggip.iges.or.jp/EFDB/main.php
The TFI held the 20th meeting of the EFDB Editorial Board (EB20) and the Joint 19th and 20th Data meeting (JDM19&20) from June 28 to July 1, 2022 in Bilbao, Spain, in a hybrid format (in-person meeting with virtual participation).

The Editorial Board considered data proposals including those submitted by experts/participants to the JDM19&20 and a total of 639 data were accepted for inclusion into the EFDB, additional 8 data have been accepted for publication in the “Extra page” at the EFDB website.

The Editorial Board also discussed about enhancement and possible future development of the EFDB including on the population procedures, improvement of user interface and consistency in the application of data evaluation criteria.

The TFI extends its appreciation to the Basque Center for Climate Change for hosting the EB20 as well as the JDM19&20, and to the government of Spain as well as the Basque country government for their support.

4. Others

An Expert Meeting on Use of Atmospheric Observation Data in Emission Inventories was held in a hybrid format at the WMO Headquarters in Geneva, Switzerland, from 5 to 7 September 2022. Outcomes of this expert meeting will inform future TFI work. The report of this expert meeting will be published in due course in the IPCC TFI website.

The 34th meeting of TFB was held in a hybrid format at the WMO Headquarters, in Geneva, Switzerland, from 8 to 9 September 2022.

The TFI extends its appreciation to WMO for hosting the meetings.
Annex I: Statistics

3rd Expert Meeting on Short-lived Climate Forcers
11 – 15 April 2022

Distribution of invitees by developing and developing/EIT countries

- Developed: 50.5%
- Developing/EIT: 49.5%

Distribution of invitees by gender

- Female: 46.2%
- Male: 53.8%

Distribution of invitees by region

- Region I: Africa: 10.8%
- Region II: Asia: 20.4%
- Region III: South America: 14.0%
- Region IV: North America, Central America and the Caribbean: 17.2%
- Region V: South-West Pacific: 5.4%
- Region VI: Europe: 32.3%
EFDB Editorial Board (EB20) and the Joint 19th and 20th Data meeting (JDM19&20)
June 28 - July 1, 2022

Distribution of invitees by developed and developing/EIT countries

- Developed: 49.1%
- Developing/EIT: 50.9%

Distribution of invitees by gender

- Female: 56.1%
- Male: 43.9%

Distribution of invitees by region

- Region II: Asia: 22.8%
- Region III: South America: 17.5%
- Region IV: North America, Central America and the Caribbean: 19.3%
- Region V: South-West Pacific: 8.8%
- Region VI: Europe: 21.1%
- Region I: Africa: 10.5%

Please note that UN staff participants are not included in these statistics
Expert Meeting to collect Software and EFDB users’ feedback
26 - 28 July 2022

Please note that UN staff participants are not included in these statistics
Annex II: List of Participants

3rd Expert Meeting on Short-lived Climate Forcers
11 – 15 April 2022

Alaa Al Khourdajie
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### Annex III: EFDB Editorial Board Membership

**Year 2022**

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<tr>
<th>Energy</th>
<th>Industrial Processes and Product Use (IPPU)</th>
<th>Agriculture</th>
<th>Land Use, Land-Use Change and Forestry (LULUCF)</th>
<th>Waste</th>
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<tbody>
<tr>
<td><strong>Songli Zhu</strong> (China)</td>
<td>Laura Elena Dawidowsk (Argentina)</td>
<td><strong>Marta A. Alfaro</strong> (Chile)</td>
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<td>Dalia A. Nakhla (Egypt)</td>
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<td><strong>Anke Herold</strong> (Germany)</td>
<td>Tomonori Ishigaki (Japan)</td>
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<td><strong>Zbigniew Klimont</strong> (IIASA)</td>
<td>Kristina Saarinen (Finland)</td>
<td>Niveta Jain (India)</td>
<td>Haruni Krisnawati (Indonesia)</td>
<td>Geeta Devi Somaroo (Mauritius)</td>
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<td>Kerstin Martens (Germany)</td>
<td>Elizabeth Adobi Okwuosa (Kenya)</td>
<td>Yasumasa Hirata (Japan)</td>
<td>Irina Govor (Russian Federation)</td>
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<td><strong>Gossi Awad Ahmed Babiker</strong> (Sudan)</td>
<td>Ioannis Sempos (Greece)</td>
<td><strong>Kristina Tonhauzer</strong> (Slovakia)</td>
<td>Raehyun Kim (Republic of Korea)</td>
<td>Sergii Shmarin (Ukraine)</td>
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<tr>
<td><strong>Javier Marcelo Hanna Figueroa</strong> (UNFCCC)</td>
<td>Sébastien M. Raoux (USA)</td>
<td>Stephen J. Del Grosso (USA)</td>
<td>María José Sanz Sánchez (Spain)</td>
<td>Guadalupe Martinez (Uruguay)</td>
</tr>
</tbody>
</table>

Members who are newly selected: highlighted in bold
Members who are re-selected: highlighted in bold with underline
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<td>Elizabeth Adobi Okwuosa (Kenya)</td>
<td>Anke Herold (Germany)</td>
<td>Geeta Devi Somaroo (Mauritius)</td>
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<td>Cynthia A. Randles (IPIECA)</td>
<td>Kerstin Martens (Germany)</td>
<td><strong>Muhammad Arif Goheer</strong> (Pakistan)</td>
<td>Yasumasa Hirata (Japan)</td>
<td>Irina Govor (Russian Federation)</td>
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<td><strong>Hossein Khajehpour</strong> (Islamic Republic of Iran)</td>
<td>Ioannis Sempos (Greece)</td>
<td>Kristina Tonhauzer (Slovakia)</td>
<td>Raehyun Kim (Republic of Korea)</td>
<td>Sergii Shmarin (Ukraine)</td>
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<td>Javier Marcelo Hanna Figueroa (UNFCCC)</td>
<td>Sébastien M. Raoux (USA)</td>
<td>Stephen J. Del Grosso (USA)</td>
<td><strong>María José Sanz Sánchez</strong> (Spain)</td>
<td>Guadalupe Martínez (Uruguay)</td>
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<td><strong>Martial Bernoux</strong> (FAO)</td>
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</table>

Members who are newly selected: highlighted in bold
Members who are re-selected: highlighted in bold with underline