

IPCC TFI Work on Short-lived Climate Forcers (SLCFs)

TFEIP 2026 Meeting
Copenhagen, Denmark, 11-13 May 2025
Pavel Shermanau
IPCC TFI TSU

ASSESSMENT CYCLE

TASK FORCE ON NATIONAL GREENHOUSE GAS INVENTORIES
2027 IPCC METHODOLOGY REPORT ON INVENTORIES FOR SHORT-LIVED CLIMATE FORCERS



Caveat

The IPCC considers its draft reports, prior to acceptance, to be pre-decisional, provided in confidence to reviewers, and not for public distribution, quotation or citation.

Appendix A to the Principles Governing IPCC Work

Background

IPCC-49
Kiyoto, Japan
 decided to produce
 MR on SLCFs
Decision IPCC-XLIX-7

Preparatory Work

Technical
 Analysis

Joint 1st and 2nd
 Expert Meeting
 (online)

3rd Expert
 Meeting
 (online)

IPCC-59
Nairobi, Kenya
 New IPCC
 Election

IPCC-61
Sofia, Bulgaria
 Outline Approval
Decision IPCC-LXI-7



Scoping Meeting
Brisbane, Australia
 Call for Authors
 Nomination



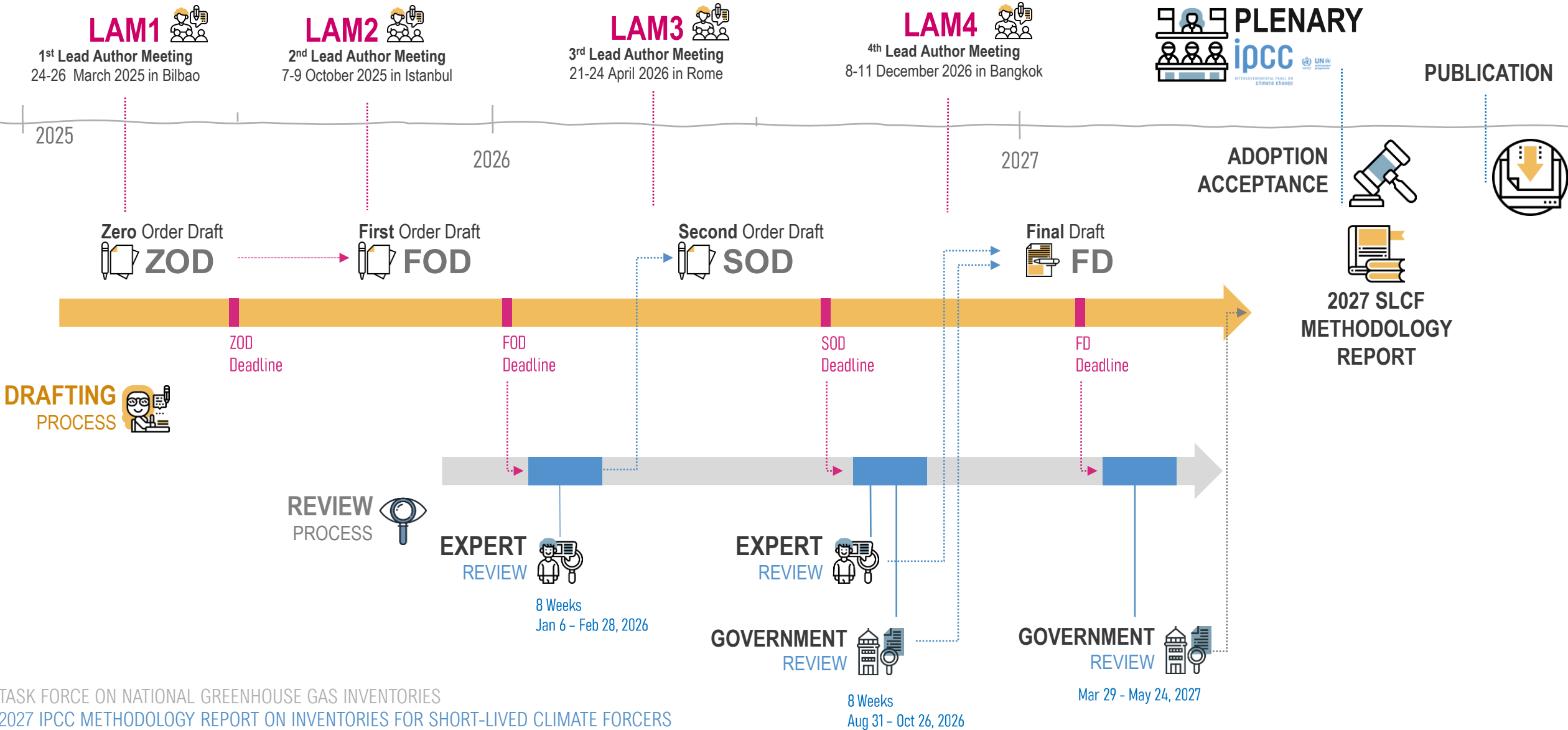
List of Categories and Species *General Inventory Issues*

Input for Outline of MR:
Vol.1 General
Vol.2-5 Sectoral

- To produce:
- Title and Format
 - Terms of Reference
 - Table of Contents
 - Instructions to Authors
 - Workplan

Development of MR on SLCFs

Process



First Lead Authors Meeting (LAM1)

LAM1 took place on 24-26 March 2025 in Bilbao, Spain (*hybrid*)

The main goals of the meeting:

- Introduction to the IPCC process
- Elaboration of chapters' outline
- Discussion on literature available
- Assignment of work within a chapter author team
- Identification of gaps in a chapter author team and possible solutions
- Milestones after the LAM1 till LAM2



Second Lead Authors Meeting (LAM2)

LAM2 took place on 7-9 October 2025 in Istanbul, Türkiye (*hybrid*)

The main goals of the meeting:

- Advancing on drafting the First Order Draft (FOD)
- Working on development of default Emission Factors (EFs)
- Cross-cutting issues
- Milestones after the LAM2 till Expert Review of FOD



Third Lead Authors Meeting (LAM3)

LAM3 took place on 21-24 April 2026 at FAO in Rome, Italy (*hybrid*)



The main goals of the meeting:

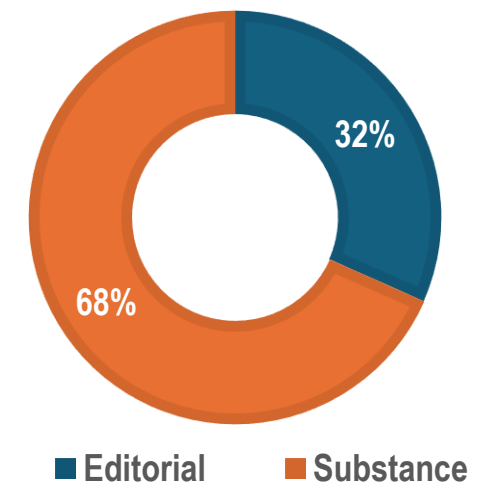
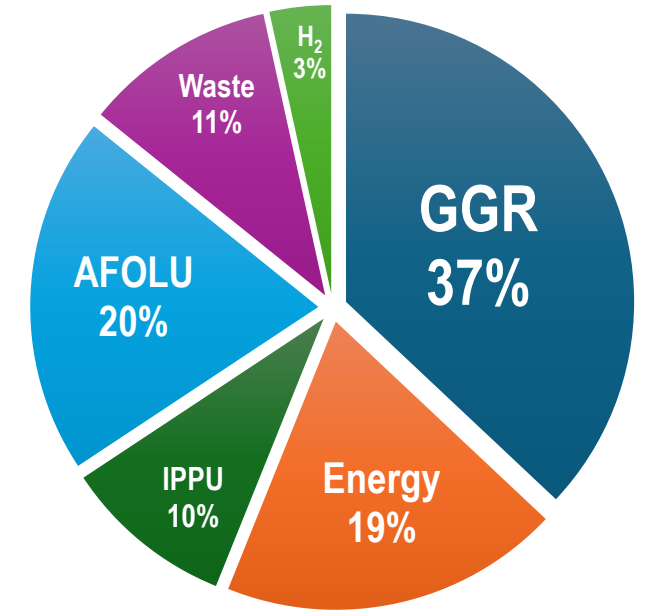
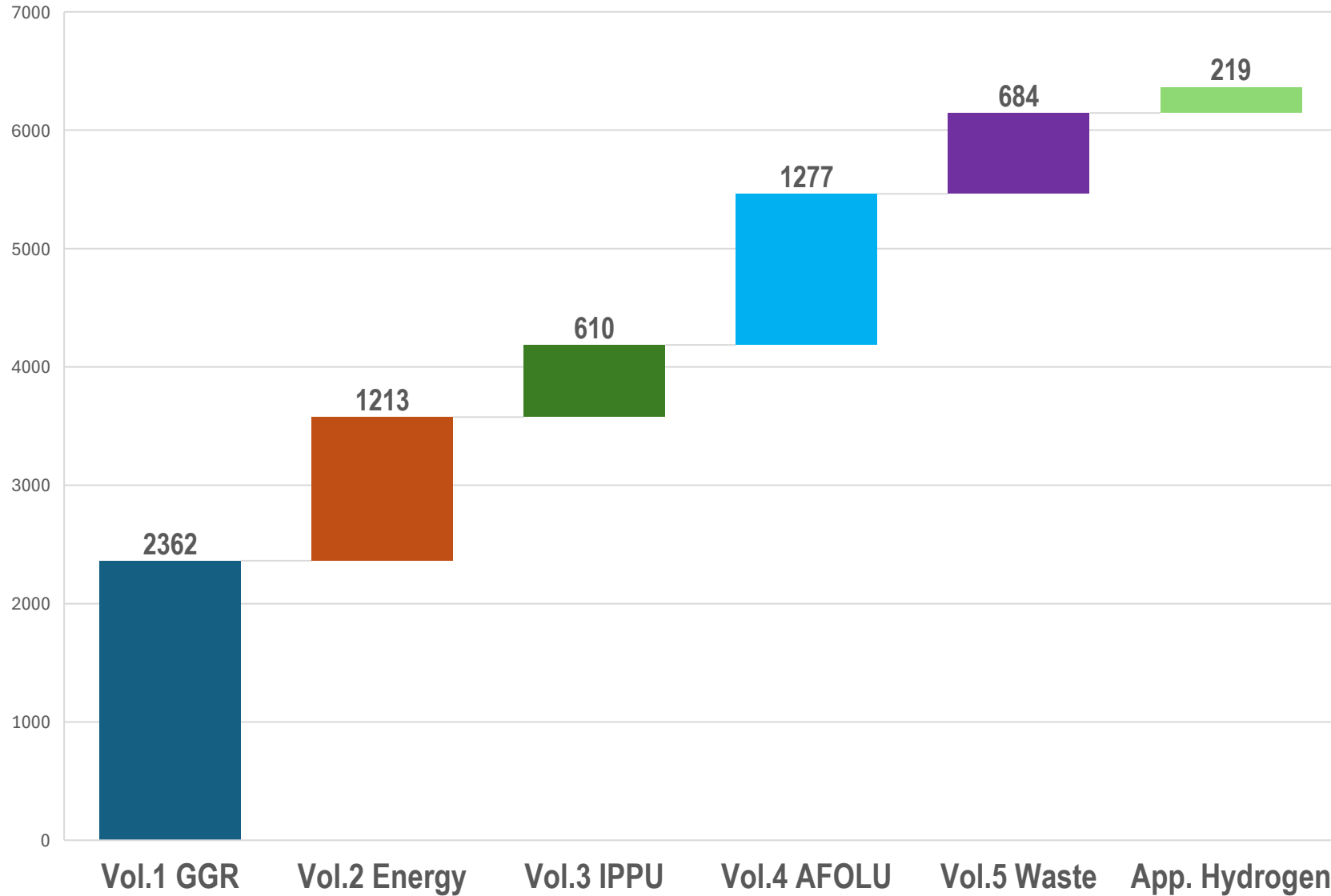
- Consideration of all comments received from experts during the Expert Review of FOD
- Developing SOD
- Finalizing default EFs
- Resolving all placeholders
- Milestones after the LAM3 till Review of SOD

FOD Review

1. The IPCC TFI TSU made a significant attempt to reach all possible experts for the review via official letters and media. The registration of experts was open from 1 December 2025 till 13 February 2026 (*1 month before the review, for 2.5 months*)
2. The SLCF FOD Review was open for review by experts who registered at a dedicated closed review platform from 5 January till 27 February 2026 (*8 weeks*)

Statistics	
1. Number of registered experts	1126
2. Number of experts made comments	334 (30%)
3. Number of comments	6,365 (19 comm average)

FOD Review – 6,365 comments received



Methodological issues

1. Development of default emission factors: old numbers, geographical perspective, availability of new literature, national methods
2. Global default Tier 1: differentiation by regions, technologies, abatement, etc.
3. Reported species: BC/OC/PM/Dust: mandate, size, climate relevance
4. Uncertainty: normal vs. log-normal distribution of default values (negative values of a lower tail in normal distribution), asymmetric confidence interval.

Next steps

Date	Action	Comments
24-26 March 2025	First Lead Author Meeting (LAM1)	To develop <u>Zero Order Draft (ZOD)</u>
April-May 2025		<u>(ZOD) Produced</u>
7-9 October 2025	Second Lead Author Meeting (LAM2)	To develop <u>First Order Draft (FOD)</u>
December 2025	FOD submission	To be published for review
29 Dec 2025-20 Feb 2026	Expert Review	8 weeks review
21-24 Apr 2026	Third Lead Authors Meeting (LAM3)	To develop <u>Second Order Draft (SOD)</u>
15 July 2026	SOD submission	To be published for review
24 August	Literature cut-off date	
31 Aug-26 Oct 2026	Government & Expert Review	8 weeks review
8-11 December 2026	Fourth Lead Author Meeting (LAM4)	To produce <u>Final Draft</u>
March 2027	Final Draft submission	To be published for review
29 Mar-24 May 2027	Government Review	8 weeks review
?? 2027 - TBC	IPCC Session	Adoption/Acceptance

Thanks to TFEIP



- EMEP/EEA Guidebook produced by TFEIP experts for several decades is invaluable source of information for the 2027 IPCC Methodology Report on SLCFs. Authors reference it to a great extent.
- IPCC TFI understands possible concerns of the TFEIP community regarding development of different methods at categories' level, default EFs and on reporting issues. The IPCC TFI mandate should be noted though. Let us work together through drafting and review process to develop guidance which minimizes those concerns.
- IPCC TFI thanks the TFEIP experts who took part in the FOD review and who works as CLAs and LAs of the 2027 IPCC Methodology Report on SLCFs. We highly appreciate this contribution!