United Nations Framework Convention on Climate Change

Review Handbook: Refresh and Renew

Refresher Seminar Bonn, Germany, 13 March 2019



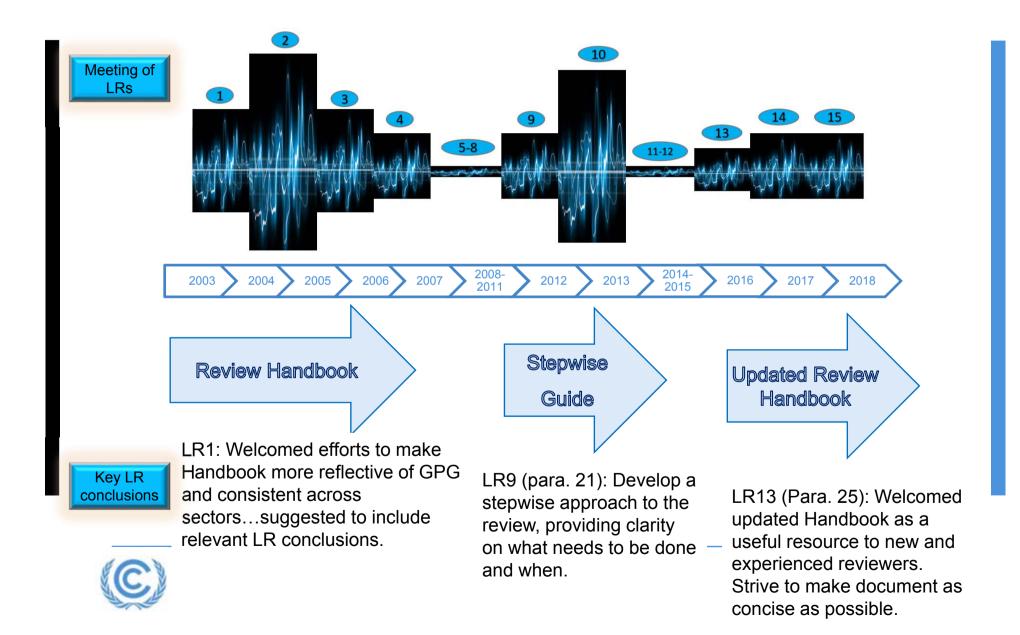
Lisa Hanle– UNFCCC secretariat – Mitigation, Data and Analysis Programme

Outline

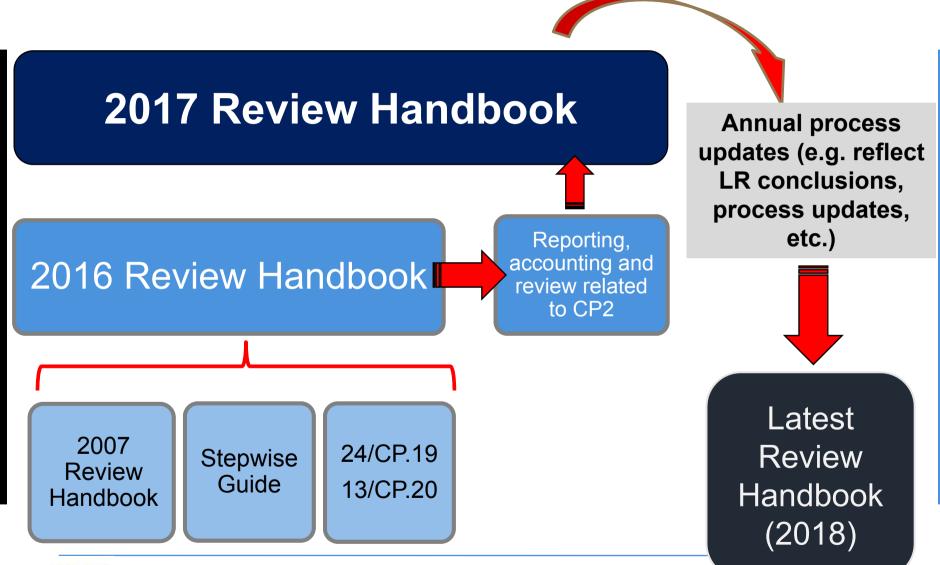
- Refresher on the Review Handbook
 - a) History: LR conclusions over time
 - b) Approach: Purpose and objectives
 - c) Contents: Scope of the handbook
- Discussion
 - a) How has the Review Handbook been used?
 - b) How *could* it be used to facilitate your work?



History of LR Discussion



Approach to Current Review Handbook





Objectives and Principles of the Handbook

Objective: Be a concise, user-friendly tool to help guide review experts, particularly new experts, through the review process (before, during and after the review week).

Principles:

- Be relevant for all (a "refresher"), and particularly useful for new reviewers.
 - **A "one-stop" shop.** Combined relevant content of earlier Review Handbook + Stepwise Guide
- 3

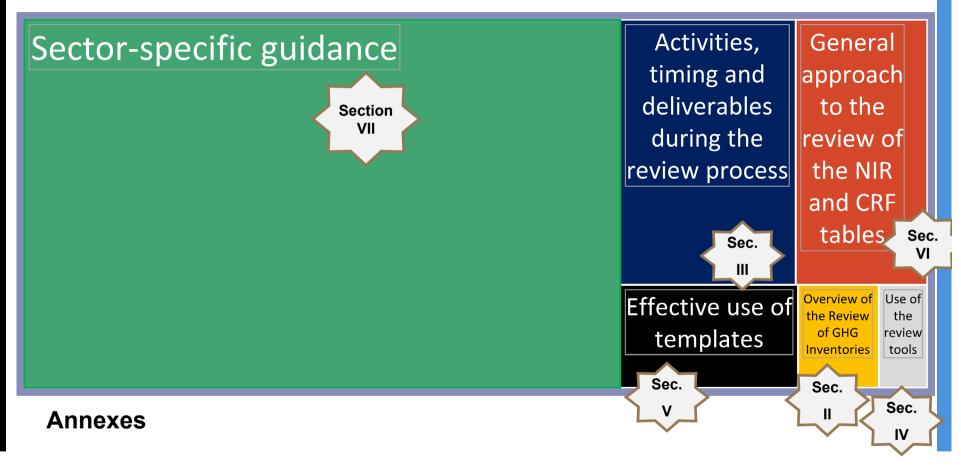
2

Be **consistent with**, but **not replace**, the relevant UNFCCC decisions and IPCC Guidelines



Substantive Contents of Review Handbook

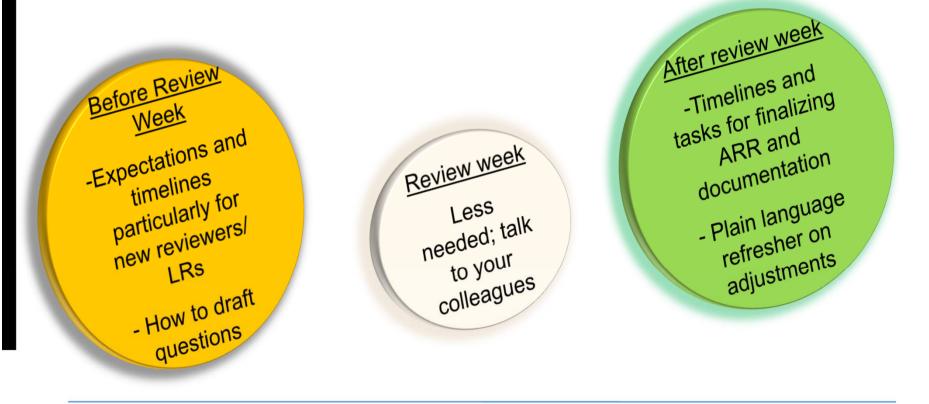
Introduction





Sec. III: Activities, timing and deliverables during the review process

Why should you care?





Sec. VI: General Approach to Review of NIR/CRF Tables

Why should you care? Guidance for all that does not exist elsewhere.

- How to use the Status and Assessment Reports (Tables 6-1 and 6-2)
- Guidance to assess status of previous recommendations (Fig. 6-2)
- What is the appropriate notation key (Table 6-3/ Fig. 6-3)
- Use of significance threshold in reporting & review (Fig. 6-4 + new)
- Guidance on reviewing Tier 3 models (Fig. 6-5)
- Other cross-cutting guidance applicable to all (Table 6-5)



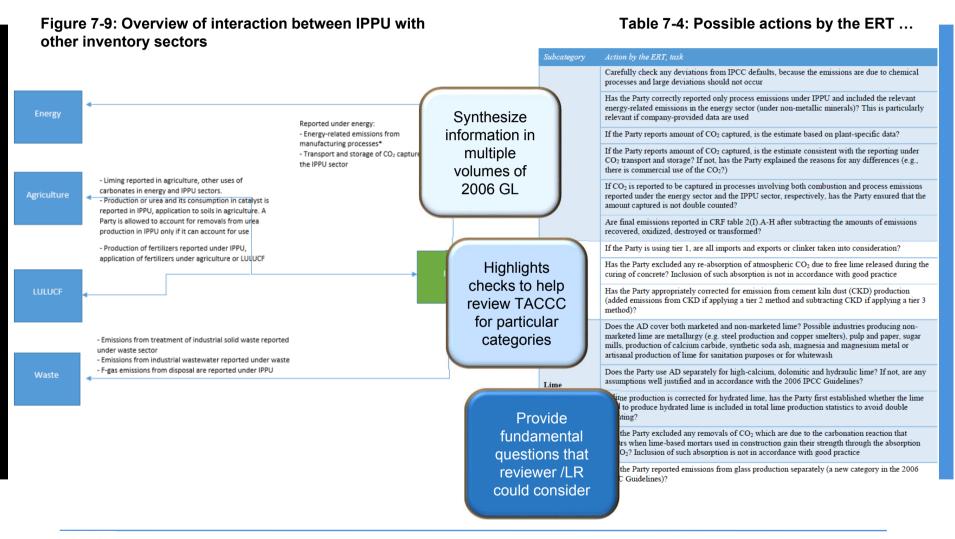
Sec. VII. Sector-specific Guidance

Before asking why should you care, let's really look what is here, as it comprises over half of the review handbook.

	Generalists	Sector experts
-	Tables with checks to review mandatory and non-mandatory elements of national inventory arrangements/systems (e.g. Tables 7-1, 7-2).	 For each sector: Allocation for reporting, including interaction of the sector with other sectors – (e.g. Fig. 7-1) or a specific category and other categories in the
-	Compiles in one place mandatory elements of reviewing KCA,	sector (e.g. Figure 7-2).
	Uncertainties and QA/QC, along with suggestions for issues to examine ("should" elements).	 Mandatory gases for reporting (e.g. Table 7-9).
		Category-level tables with specific
-	How to assess registry requirements (where to look in the SIAR), CPR and Article 3.14.	questions the ERT can consider when reviewing a Party's submission (e.g. Table 7-10).



Sec. VII Sector-specific Guidance: Examples





Sec. VII: Sector-specific Guidance: LULUCF

																Carbon st	tock changes in pool	s and assoc	iated GHG emissio	ns/remov	als that have to b	e estimated for forest	land	
Table 7-5																				Estimat	tions at the tier 1	level		
Tier I: m	andatory rej	porting according t	to the 200	06 IPCC	Guidelin	ies			Land use								Biomass (B)*		Dead organic matter (DOM)		Soil organic matter (SOM)		Harvested wood products (HWP)	Other emissions
THE I			FL		CL		GL		WL WL-WL L-WI			SL		OL			Above (AB)	Below (BB)	Dead wood (DW)	Litter (L)	Mineral soils (MS)	Organic soils (OS)	HWP	
Carbon po		l – GHG	FL-FL	L-FL	CL-CL	L-CL	GL-GL	. L-GL	PL-PL			SL-SL	L-SL	OL-OL	L-OL		Net carbon stock change (2.7)			i		CO ₂ emissions from drained organic soils	CH ₄ and N ₂ O emissions from biomass burning (2.27)	
T 1-1-	g biomass	Above-ground	М	М	Ma	M b, c		M h.c		Ma	M °		М°		M°	FL-FL Carbon stor Carbon stor		ck gain 10) 0 ck losses ., 2.13,	0		0	(2.26)	(2.26) Assumed 0, if judged	N ₂ O emissions from drained organic soils (11.1)
Livin	g Diomass	Below-ground		М		M h, c		M h, c		М°	М°		M۴		М°		Carbon stock gain (2.9, 2.10)					CO2 emissions from		
	ganic matter	Deadwood		M3		М°		M °					M۴		M°		Carbon stock losses					(2.2) On-site CO ₂ emissions from drained organic soils (2.3) Officite CO ₂ emissions other	insignificant (i.e. annual net carbon	N2O emissions from N inputs (11.1 11.3)
	Pame matter	Litter		М		M°		M °					M۴		M°		(2.11, 2.12, 2.13,						stock change in HWP pool, is less	
	zanic matter	Mineral		М	М	М	М	М					М		Md		2.14)						than the size of any key category),	N ₂ O emissions from SOM mineralization (11.8) ^(d)
	-	Organic	М	М	М	М	М	М	3	М			М		N/A				ľ				otherwise default	indirect N ₂ O emissions (11.9.
HWP			M (may be assumed 0 if net carbon stock change is judged insignificant)																		1	from drained organic soils (2.4, 2.5, 2A.1)	tier 1 methods provided in the	11.10)
	Direct	Fertilization *	М	М								М	М			L-FL	Net carbon stock change (2.4)					CO2 emissions from burning of drained 4,	2006 IPCC Guidelines (volume	CH_{ℓ} emissions from drained
		N mineralization		М		M	М	М					М		Y					Net carbon			4, chapter 12)	organic soils (2.6)
N ₂ O		Drainage	М	М						M		М	М				Carbon stock gain		0 ^(c)	stock	Net carbon stock change (2.25)	organic soils (2.8)	Note that HWP are	N ₂ O emissions from drained organic soils (2.7)
		Burning	М	М	М	М	М	М	М	М		М	М		Y		Carbon stock losses 2.13, 2.14			(2.23)		rewetted oreanic soils	reported altogether regardless of the	
	Indirect	Fertilization*	М	М								м	М										land of origin of wood	CH ₄ emissions from burning of drained organic soils (2.8) ⁽⁴⁾
		N mineralization		М		М	М	М					М		Y							On-site CO2 emissions		CH ₄ emissions from rewetted
CH4		Burning	М	М	М	М	М	М	М	М		М	М		М							from rewetted organic soils (3.4)		organic soils (3.8)
Notes:	M = mandator	y, grey shading = not :	applicable,	, blank =	not mandat	tory.										L	1		1					

Table 7-59 Carbon stock changes in pools and associated GHG emissions/removals that have to be estimated for forest lan

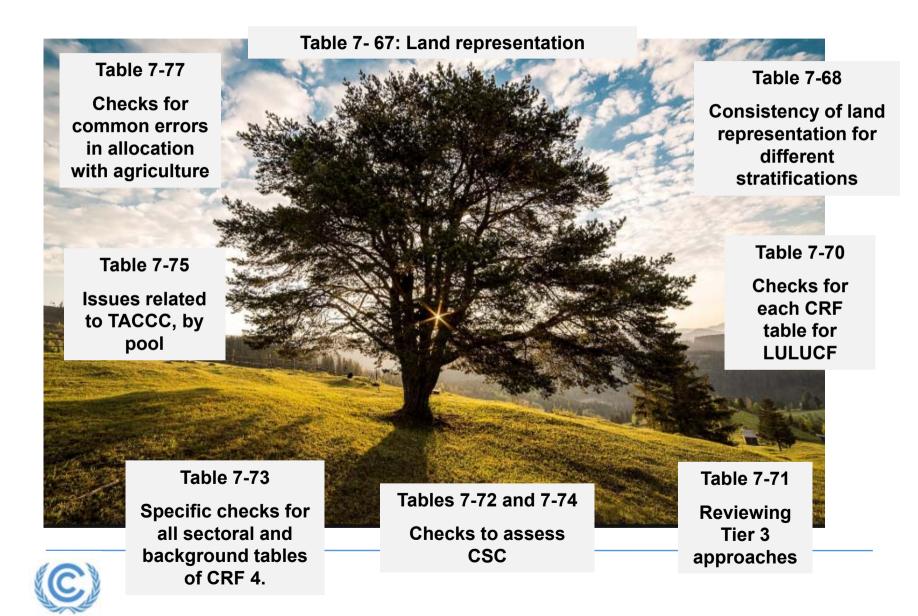
What is mandatory under Tier 1 and Tier 2? (Tables 7-55 and 7-56)

What is mandatory if Party claims to be following the Wetlands Supplement for a category (Table 7-57) Cross-walk to where the relevant methods can be found when implementing a Tier 1 and Tier 2 (Tables 7-59 to 7-65). Determine whether Party is using correct method?

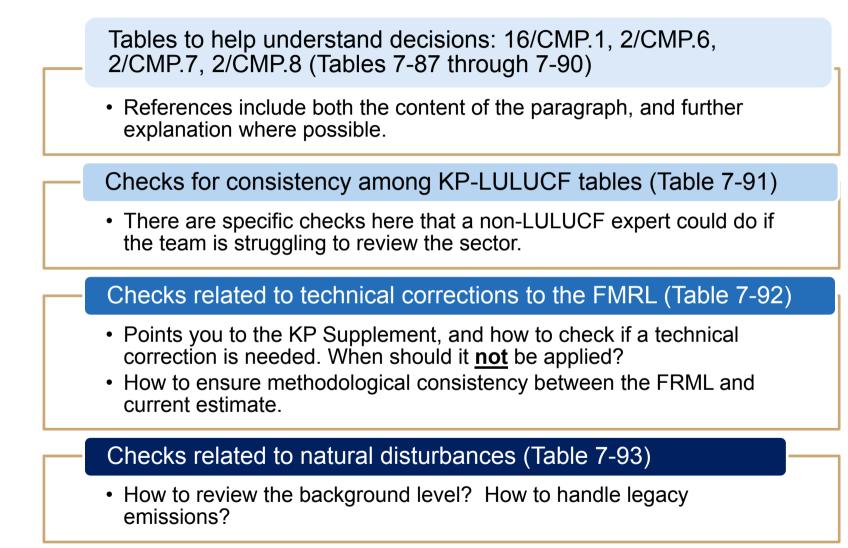
-Determine when it is appropriate to assume carbon stocks are in equilibrium?



Sec. VII: Sector-specific Guidance: LULUCF

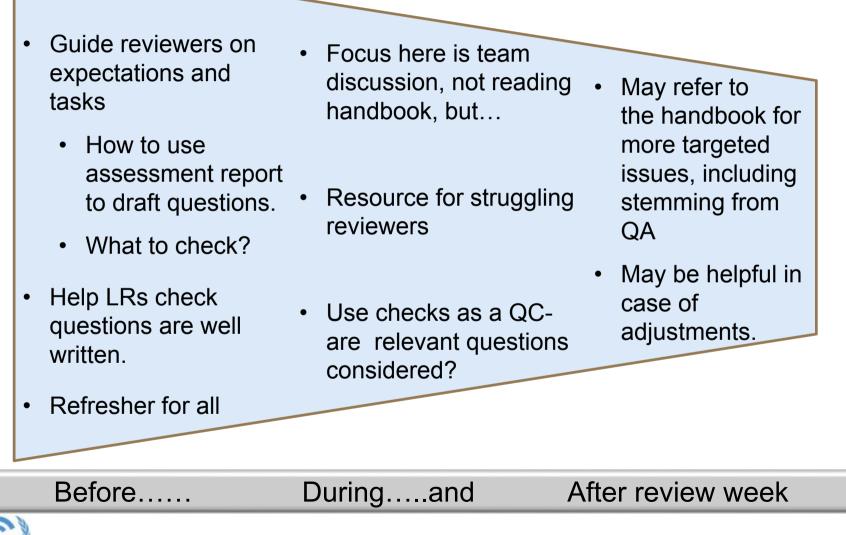


Sec. VII: Sector-specific Guidance: KP-LULUCF





Summary: Using the Review Handbook Throughout





CONSIDERATION

YOUR TURN





Feedback of LRs in Preparation for 16th Annual Meeting

Feedback received directly or indirectly addressed by current Review Handbook

Comments around the expectations of various actors (namely Parties, ERTs, LRs and secretariat) in different parts of the process:

- * Preparations prior to the review week: e.g. establishing expectations and time keeping
- * Applying a standard review format and methodology
- * Clarifying the role of the generalist and the LRs

This is covered by section III of the RH (Activities, timing and deliverables ...) and was based on the content of the previous "Stepwise Guide".

Identifying approaches for drafting findings and recommendations-

*The general comment was made, but specific ideas were also raised that are currently not included in the RH (e.g. handling multiple issues in a paragraph; finding ways to distinguish more important from less important issues (e.g. by indicating whether issue affects a key category)).

Figures 5-4 and 5-4 as well as Table 5-2 of the RH and accompanying text of RH address this.

Suggestions for step-by-step guidance on tools.

Some material was added to section IV (Effective Use of the Review Tools) of the RH in response to a previous LR conclusion⁴ but, is it more practical for the ERT to consult the RH or the user guidance for a specific tool?

Call for consistency in applying significance thresholds

Figure 6-4 of RH addresses and will be supplemented with the decision tree outlined below. Ensuring that all recommendations in the ARR are related to mandatory language

Figure 5-2 of the RH intended to address this

What are the most common crosscutting findings that ERTs need to look out for

Covered by section VI of the RH (General approach to the review of the CRF and NIR)



What are standard review tests to perform, typical issues to look out for, especially given the range of approaches taken by Parties .

Covered by section VII of the RH (sector-specific guidance)

How to review the accuracy of tier 3 methods or complex models?

Figure 6-5 and accompanying text of the RH was intended to address this

Calls for a number of clarifications for LULUCF / KP-LULUCF: - When is the Wetlands Supplement mandatory? Key issues to examine for HWPs and differences for between Convention and KP reporting, minimum requirements for reporting LULUCF? Clarifying applicable issues for CP2?

Covered by sections VII.F (LULUCF) and VII.H (KP-LULUCF) of the RH

Source: Consistency Paper prepared for the 16th Meeting of Lead Reviewers



For Discussion

- 1. Have you <u>read/skimmed</u> the Review Handbook : Yes / No?
- 2. Have you <u>used</u> the Review Handbook yourself: Yes / No?
- 3. As a LR, have you ever <u>recommended the use of</u> the Handbook to a reviewer: Yes/ No?





For those who said "Yes"....

- Under which circumstances have you used the Handbook? Did it work?
- What is your overall impression of the Review Handbook?
- Can you share any feedback received from your ERTs?



For those who said "No"....

- Why have you not used the Review Handbook?
- Based on the presentation of the contents of the Handbook today, can you share examples of specific circumstances you have faced where, looking back, the Review Handbook could have helped?
- As a group, brainstorm response to the following:

The Top 3-5 ways I will use, or refer to, the Handbook in 2019 are									
1.									
2.									
3.									
4.									
5.									



Going Forward

- Refresh yourself: Read/skim the handbook
 - a) Know the overall contents
 - b) Know its overall potential to help you achieve your goals
- During the LR meeting, think about which conclusions, if any, may be helpful to include in the Handbook
- Communicate to your team the potential for the Review Handbook as a reference during the ERT's kick-off call.



Thanks!

For further suggestions, talk to us this week, or

follow up with an email to

GHGReviews@unfccc.int

