

United Nations Climate Change

Training Programmes for Experts Participating in Technical Reviews of Information submitted by Annex I Parties, and Technical Analysis of Biennial Update Reports submitted by non-Annex I Parties

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Presentation Outline

- History of expert training within the UNFCCC process
- Summary of current training programmes:
 - Training programme for review experts for the technical review of greenhouse gas inventories included in Annex I to the Convention
 - Training programme for members of expert review teams participating in annual reviews under Article 8 of the Kyoto Protocol
 - Training programme for review experts for the technical review of biennial reports and national communications of Parties included in Annex I to the Convention
 - CGE training programme for technical experts undertaking technical analysis of biennial update reports from Parties not included in Annex I to the Convention
- Where do we go from here?

The secretariat shall design and implement training for experts to ensure their competence



Training programme for review experts for the technical review of greenhouse gas inventories included in Annex I to the Convention



Hands-on training seminar on inventory

reviews

Non-Mandatory E- Learning Modules
Review of complex models and

higher-tier methods

Improving communication and facilitating consensus in expert review teams

Refresher Seminar for Experienced Experts

Geography of Training Seminar Participants



Training programme for review experts for the technical review of greenhouse gas inventories included in Annex I to the Convention



Hands-on training seminar on inventory

reviews

Non-Mandatory E- Learning Modules
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higher-tier methods

Improving communication and facilitating consensus in expert review teams

Refresher Seminar for Experienced Experts

Number of experts who became eligible to participate in the GHG reviews (Convention)

Total 484 review experts in the ROE Al non-Al Instructed AI Instructed NAI Non-Instructed AI

Pass rate of seminar participants

	2012	2013	2014	2015	2016	2017	2018
Annex I	95%	94%	100%	63%	63%	-	42%
Non-Annex I	54%	42%	50%	19%	26%	32%	13%

Strengths

Challenges

• Courses are technically rigorous

• Seminar

- High competence in experts who participate and subsequently pass exam
- Participants gain first hand experience working on real submissions/reports;
 "hands on" training simulating a review
- Instructors teach experts skills to find review issues and write them clearly
- Important opportunity to take exams
- Skills acquired strengthens experts capacity to contribute to inventory preparation at the national level
- Some Parties' GHG inventory teams utilize the course to train new staff

- High cost of training inexperienced experts
- Examinations
 - Handwritten, paper-based (legibility issues)
 - Evaluation is time consuming (manual grading)
 - Few opportunities to take (or retake) exams for experts who do not otherwise come to Bonn
 - Failed exams can only repeated once
- Experts are busy; insufficient time to study (low pass rate)
- Low enrollment for nonmandatory modules

Training programme for members of expert review teams participating in annual reviews under Article 8 of the Kyoto Protocol

National systems

Application of adjustments

Accounting of assigned amounts under Art. 7.4

National Registries

Activities under Art. 3.3 and 3.4

Who should take which course?

	Experienced Expert		New Expert			
	New Lead	LULUCF	New to the	Non-	LULUCF	
	Reviewer	expert	subject	LULUCF	expert	Generalist
				expert		
National Systems						
Application of						
adjustments						
Accounting of						
assigned amounts						
National registries						
and ass. amounts						
Review of Articles 3.3						
and 3.4 Activities						

Experts eligible to participate in the reviews under Art. 8 of the Kyoto Protocol



New experts added since 2015



Strengths

Challenges

- Low cost of implementation
- Courses are technically rigorous
- Low enrollment rate of experienced experts to revised courses for the second CP
- Few new eligible experts available for enrolment
- Failed exams can only be repeated once

Training programme for review experts for the technical review of biennial reports and national communications of Parties included in Annex I to the Convention

Course 1: General and cross-cutting aspects of the review of BR/NC

Course 2: Technical review of targets and PaMs, their effect and contribution to achieving targets

Course 3: Technical review of GHG emission trends, projections and the total effect of PaMs

Course 4: Technical review of the provision of FTC

Who should take which course?

	New Lead reviewers	New Experts targets & PaMs	New Experts trends & projections	New Experts FTC
Course 1: General				
Course 2: Targets & PaMs				
Course 3: Projections				
Course 4: FTC				

Number of new experts who became eligible to participate in the BR/NC review per year



Total number of experts per area of expertise (as of 1 June 2019)



Average scores of the exams

	Original courses 2015-2016	Updated courses 2017-2018
Target, PaMs	68.8	72.9
Projection, GHG	79.6	81.6
FTC	77.4	84.6

Strengths

Challenges

- Low cost of implementation
- Straightforward programme requirements (clear who needs to take which module)
- Small number required courses to become eligible to take part in a review
- Experts often take multiple courses- eligible for several ERT roles
- High pass rate
- User-friendly courses due to updates prior to NC7/BR3 review cycle

• Number of new review experts is declining

CGE training programme for technical experts undertaking technical analysis of biennial update reports from Parties not included in Annex I to the Convention

Cluster 1 - Technical analysis of BURs

Overview

- Thematic modules

Cluster 2 - Background materials covering methods and science

— Module 1: Mitigation actions and their effects

Modules 2: GHG inventories sectoral modules and IPCC Guidelines

Module 3: FTC needs and support received

Cluster 3 – Technical analysis on REDD-plus

Technical annex on REDD-plus

2.1 Mitigation Actions and Their Effects

2.2 GHG Inventories

2.3 Needs and Support

Modules 2 a: Energy

Modules 2 b: IPPU

Modules 2 c: Agriculture

Modules 2 d: LULUCF

Modules 2 e: Waste

Modules 2 f: Differences in IPCC Guidelines

CGE training programme for technical experts undertaking technical analysis of biennial update reports from Parties not included in Annex I to the Convention

Cluster 1: Technical Analysis of BURs

Overview

Mitigation actions and their effects

GHG Inventories

Needs and support

Thematic Modules



Cluster 3: Provisions on technical analysis of technical annex on REDD-plus

The technical annex on results-based actions relation to REDD-plus

Who should take which module?

		Mitigation	GHG inventories	FTC support and cross-cutting issues expert	REDD plus experts	
	CLUSTER 1	Note: All experts, regardless new or experienced, must study mandatory modules of their expertise and pass their examinations under Cluster 1				
	Module 1 an overview					
ic elements:	Module 2.1 Mitigation actions and their effects					
	Module 2.2 National GHG inventories					
Themat	Module 2.3 Needs and support					

		Mitigation	GHG inventories		FTC support and cross-cutting	REDD plus experts	
		Ŭ	Non- AFOLU	AFOLU	issues expert		
	CLUSTER 2	Less Experienced	d Expert	:S			
	Module 2.1 Mitigation actions and their effects						
	Module 2.2a: Energy						
ries	Modules 2.2b: IPPU						
intol	Modules 2.2c: Agriculture						
Inve	Modules 2.2d: LULUCF						
DHG	Modules 2.2e: Waste						
U	Modules 2.2f Differences in IPCC GLs						
	Module 2.3 Needs and support						
	CLUSTER 3	Experts participating in the Technical Assessment of REDD-plus		D-plus			
	The technical annex on results-based actions relating to REDD-plus	N/A		N/A	N/A	EXPERIENCED	

Number of experts who passed one or more proficiency assessment in each round





Examinations in 2018		Registrations received	Exams taken	exams enroll rate		
Clu	uster 1 - provisio	ons on the technical analysis of BURs				
	Module 1	Overview	242	110	45 %	
	Module 2.1	Mitigation actions and their effects	194	62	32 %	
	Module 2.2	National GHG inventories	231	99	43 %	
	Module 2.3	FTC needs and support received	146	37	25 %	
Clu	uster 2 - backgro	und materials covering methods and science				
	Module 2.1	Mitigation actions and their effects	197	57	29 %	
	Modules 2.2	National GHG inventories				
	Module 2.2a	energy	128	37	29 %	
	Module 2.2b	Industrial processes	99	31	31 %	
	Module 2.2c	Agriculture	120	33	28 %	
	Module 2.2d	LUCF/LULUCF	125	41	33 %	
	Module 2.2e	Waste	106	29	27 %	
	Module 2.2f	1996 and 2006 IPCC guidelines	168	58	35 %	
	Module 2.3	FTC needs and support received	132	32	24 %	
Clu	Cluster 3 – technical analysis of technical annex on REDD+					
	Module 3	REDD-plus	115	44	38 %	
		Total	2003	670	33.4 %	

Strengths

Challenges

- Large number of registrations received
- Equally distributed AI/NAI participation
- Streamlined course requirements for experienced experts
- Unlimited attempts to pass examinations

- Many combinations of courses can be confusing for experts
- Administration of courses is very time intensive
- Low examination attempt rate (vs registration rate)

Where do we go from here?

- Decision 18/CMA.1, para 12, SBSTA to develop a training programme for technical experts participating in the technical expert reviews
- Foundation exists within the current training programmes to support development of future training programme
- Elements to operationalize the training programme may include:
 - ✓ Type of course (e.g., in person, e-learning, hands-on training, seminars)
 - ✓ Implementation dates (particularly start date)
 - ✓ Target audience
 - $\checkmark\,$ Examination requirements and format
 - ✓ Availability of courses, frequency, venues
 - ✓ Procedures for implementation of the programme



United Nations Climate Change

Thank you

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