Reporting tables and CRF tables

Information Event

Experiences and perspectives on the compilation of greenhouse gases inventories and on the use of reporting tables and reporting tools by developing and developed country Parties

20 November 2020



Outline of the presentation

- GHG Inventory Reporting tables
- Workflow in the CRF Reporter
- Inventory creation
- Inventory compilation (data entry)
- Key features of CRF Reporter (KCA, Recalculations, Completeness check)



GHG Inventory Reporting tables

- Compilation of current GHG inventories
 - Non-Annex I Parties

Annex I Parties

table 1 and 2 of annex to 17/CP.8

CRF table

		Table 2. P	National	greer	ihouse g	as inven	tory	of ant	hropo	genic e	mission	s of H	FCs, PF	Cs and S	F ₆
									Н	FCs ^{a,b} (Gg)			PFCsab (Gg)		SF6* (Gg)
		Greenhouse	gas source	and sin	k categorie	es		HFC-2	н	FC-134	Other (to be added)	CF4	C ₂ F ₆	Other (to be added)	
		Total nation	al emission	ns and re	movals			X		X	X	X	X	X	X
		1. Energy													
			Energy ind		d approach)	_		-						
					stries and	construction									
		3.	Transport												
			Other secto		4.3		_		-						
Table 1. National greenhouse gas inv	entory of ar					and remo	vals	by sink	s of						_
all greenhouse gases not con			Protoco	l ^a and	greenho	use gas p	recu	rsors							
Greenhouse gas source and sink categories	CO ₂ emissions (Gg)	CO ₂ removals (Gg)	CH ₄ (Gg)	N ₂ O (Gg)	CO (Gg)	NO _x (Gg)		(Gg)	SO _x (Gg)	X	X	X	X	X	X
Total national emissions and removals	X	X	X	X	X	X		X	X						
1. Energy	X	X	X	X	X	X		X	X	X	X	X	X	X	X
A. Fuel combustion (sectoral approach) 1. Energy industries	X X		X	X	X	X		X	X	X	X	X	X	X	X
Energy industries Manufacturing industries and	X		X	X	X	X		X	X	X	X	X	X	X	X
construction															
3. Transport	X		X	X	X	X		X	X						
Other sectors Other (please specify)	X X		X	X	X	X	_	X	X	_					
B. Fugitive emissions from fuels	X		x	Α.	X	X		X	X						
 Solid fuels 			X		X	X		X	X						
Oil and natural gas			X		X	X		X	X]					
2. Industrial processes A. Mineral products	X X	X	X	X	X	X	_	X	X	-					
B. Chemical industry	X		X	Х	X	X		X	X						
C. Metal production	X		X	X	X	X		X	X						
D. Other production	X				X	X		X	X	_					_
 E. Production of halocarbons and sulphur hexafluoride 															
F. Consumption of halocarbons and															
sulphur hexafluoride															
G. Other (please specify) 3. Solvent and other product use	X		X	X	X	X		X	X	_					
4. Agriculture			X	X	X	X		X	X						
A. Enteric fermentation			X												
B. Manure management			X	X				X]					_
C. Rice cultivation D. Agricultural soils			X	X	_		_	X		X	X	X	X	X	X
E. Prescribed burning of savannahs			X	X	X	X		X							
F. Field burning of agricultural residues			X	X	X	X		X		1					
G. Other (please specify)			X	X	X			X		_					_
Land-use change and forestry A. Changes in forest and other woody	X _p	X _p	X	X	X	X		X	X						
biomass stocks										l					
B. Forest and grassland conversion	X	X	X	X	X	X									
C. Abandonment of managed lands D. CO ₂ emissions and removals from soil	X _p	X X ^b								1					
E. Other (please specify)	X	X	X	X	X	X				1					
6. Waste			X	X	X	X		X	Х]					
A. Solid waste disposal on land			X		X	X		X		1					
B. Waste-water handling C. Waste incineration			X	X	X	X		X	X	1					
D. Other (please specify)			X	X	X	X		X	X	1					
7. Other (please specify)	X	X	X	X	X	X		X	X	1					
Memo items	X		X	X	X	X		Х	X	-					
International bunkers Aviation	X		X	X	X	X		X	X	1					
Marine	x		x	X	X	X		x	X	1					

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GHG Inventory Reporting tables

- table 1 and 2 of annex to 17/CP.8
 - Based on the Revised 1996 IPCC guidelines

Table 1. National greenhouse gas inventory of anthropogenic emissions by sources and removals by sinks of

Greenhouse gas source and sink categories	CO ₂ emissions	CO ₂ removals	CH ₄	N ₂ O	co	NO _x	NMVOCs	so,
Greenhouse gas source and sink categories	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg)	(Gg
Total national emissions and removals	X	X	X	X	X	X	X	X
1. Energy	X	X	X	X	X	X	X	X
A. Fuel combustion (sectoral approach)	X		X	X	X	X	X	X
 Energy industries 	X		X	X	X	X	X	X
 Manufacturing industries and construction 	X		X	X	X	X	X	X
3. Transport	X		X	X	X	X	X	X
4. Other sectors	X		X	X	X	X	X	X
Other (please specify)	X		X	X	X	X	X	X
B. Fugitive emissions from fuels	X		X		X	X	X	X
Solid fuels			X		X	X	X	X
Oil and natural gas			X		X	X	X	X
2. Industrial processes	X	X	X	X	X	X	X	X
A. Mineral products	X				X	X	X	X
B. Chemical industry	X		X	X	X	X	X	X
C. Metal production	X		X	X	X	X	X	X
D. Other production	X				X	X	X	X
Production of halocarbons and sulphur hexafluoride								
F. Consumption of halocarbons and sulphur hexafluoride								
G. Other (please specify)	X		X	X	X	X	X	X
3. Solvent and other product use	X			X			X	-
4. Agriculture			X	X	X	X	X	X
A. Enteric fermentation			X					
B. Manure management			X	X			X	
C. Rice cultivation			X				X	
D. Agricultural soils			X	X			X	
E. Prescribed burning of savannahs			X	X	X	X	X	
F. Field burning of agricultural residues			X	X	X	X	X	
G. Other (please specify)			X	X	X	X	X	
5. Land-use change and forestry	Xp	Xp	X	X	X	X	X	X
A. Changes in forest and other woody	Xp	Xp						
biomass stocks								
B. Forest and grassland conversion	X	X	X	X	X	X		
C. Abandonment of managed lands		X						
D. CO ₂ emissions and removals from soil	X _p	X _p						
E. Other (please specify)	X	X	X	X	X	X		
6. Waste			X	X	X	X	X	X
Solid waste disposal on land			X		X		X	
B. Waste-water handling			X	X	X	X	X	
C. Waste incineration					X	X	X	X
D. Other (please specify)			X	X	X	X	X	X
7. Other (please specify)	X	X	X	X	X	X	X	X
Memo items								
International bunkers	X		X	X	X	X	X	X
Aviation	X		X	X	X	X	X	X
Marine	X		X	X	X	X	X	X
CO2 emissions from biomass	X							

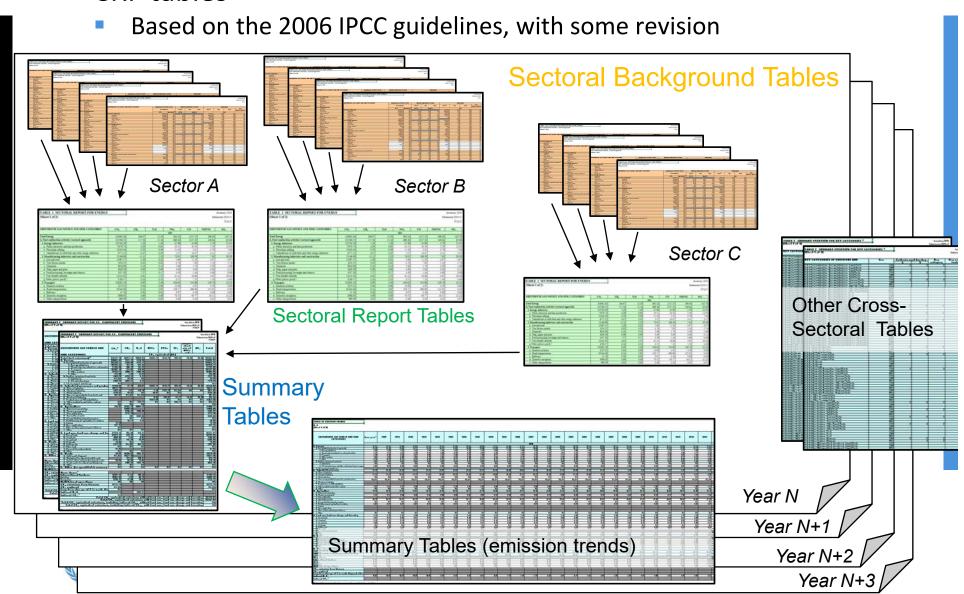
Table 2 National greenhouse gas	inventory of anthropogenic	amissions of HEC's P	FCs and SE

		HFCs ^{a,b} (Gg)			PFCsab (Gg)		SF6 ^a (Gg)
Greenhouse gas source and sink categories	HFC-23	HFC-134	Other (to be added)	CF ₄	C ₂ F ₆	Other (to be added)	
Total national emissions and removals	X	X	X	X	X	X	X
1. Energy							
A. Fuel combustion (sectoral approach)							
Energy industries							
Manufacturing industries and construction							
3. Transport							
Other sectors							
Other (please specify)							
B. Fugitive emissions from fuels							
Solid fuels							
Oil and natural gas							
2. Industrial processes	X	X	X	X	X	X	X
A. Mineral products							
B. Chemical industry							
C. Metal production	X	X	X	X	X	X	X
D. Other production							
E. Production of halocarbons and sulphur hexafluoride	X	X	X	X	X	X	X
F. Consumption of halocarbons and sulphur hexafluoride	X	X	X	Х	X	х	X
G. Other (please specify)							
3. Solvent and other product use							
4. Agriculture							
A. Enteric fermentation							
B. Manure management							
C. Rice cultivation							
D. Agricultural soils							
E. Prescribed burning of savannahs							
F. Field burning of agricultural residues							
G. Other (please specify)							
5. Land-use change and forestry							
A. Changes in forest and other woody biomass stocks							
B. Forest and grassland conversion							
C. Abandonment of managed lands							
D. CO2 emissions and removals from soil							
E. Other (please specify)							
6. Waste							
A. Solid waste disposal on land							
B. Waste-water handling							
C. Waste incineration							
D. Other (please specify)							
7. Other (please specify)	X	X	X	X	X	X	X
Memo items		-				-	
International bunkers							
Aviation							
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CO ₂ emissions from biomass							
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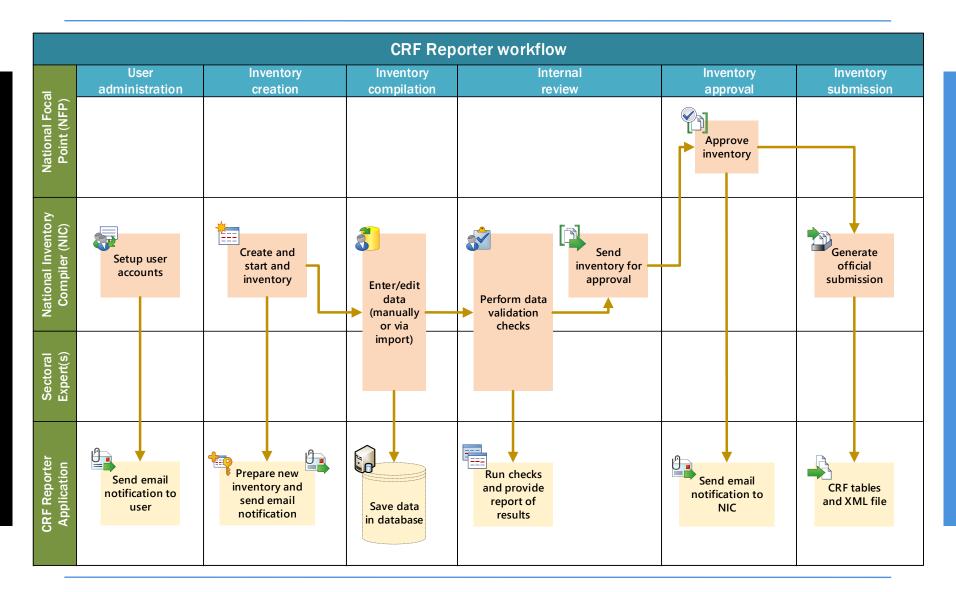


GHG Inventory Reporting tables

CRF tables



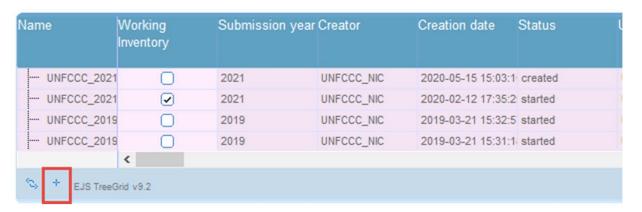
Workflow in the CRF Reporter

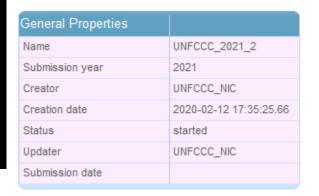


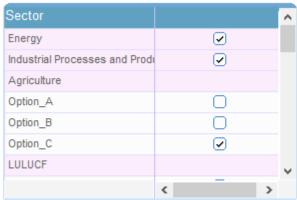


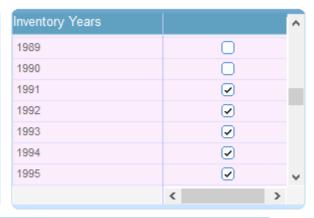
Inventory creation

- ➤ The inventory follows the structure and format of the agreed CRF tables (annexed to decision 24/CP.19)
- Creating a new inventory preserves the data contained in the previous inventory





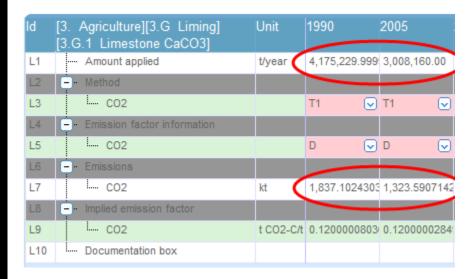


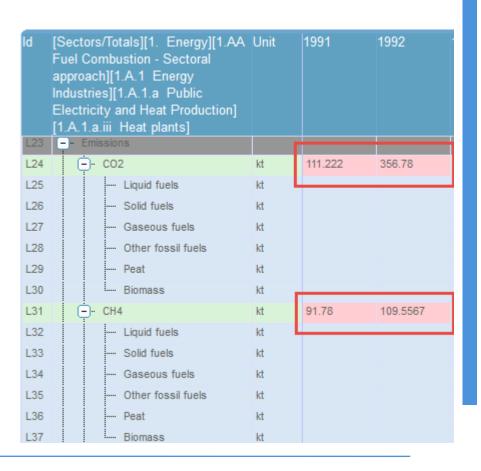




Inventory compilation – Data entry (manual entry)

- ➤ Input only for AD and emissions (white cells)
- Data entry by multiple users
- > Real-time saving
- Propagation of notation keys
- Overwriting formulas

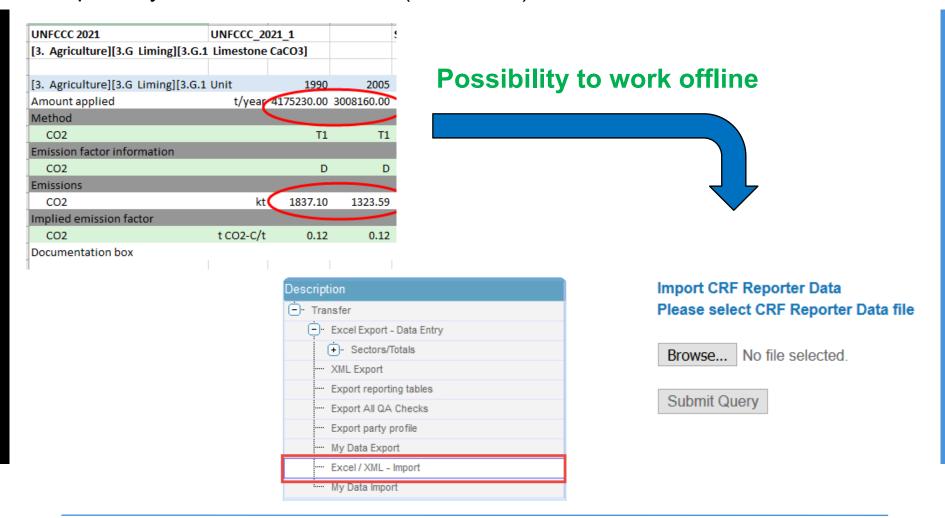






Inventory compilation – Data entry (Excel import)

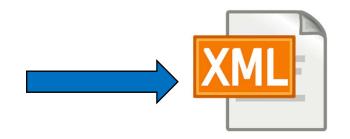
➤ Input only for AD and emissions (white cells)





Inventory compilation – Data entry (XML import)









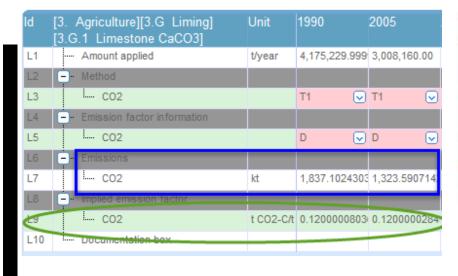
Import CRF Reporter Data
Please select CRF Reporter Data file

Browse... No file selected.

Submit Query

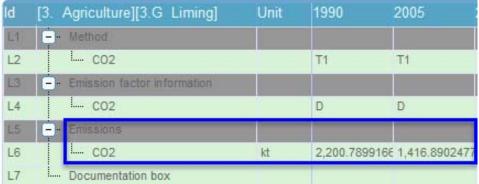


Inventory compilation – Automatic calculation





- > Aggregations
- ➤ Conversion to CO₂ equivalent



ld	[S	ect	ors/	Tot	tals]	Unit	1991	1992	
L1	E	- Emissions							
L2		G	-)- 1	Tota	al (with LULUCF)	kt CO2 equivalent	834,126.17824	827,962.61512	
L3					Aggregate F-gases	t CO2 equivalent	5,739,894.905	4,504,582.124	
L4					CO2	kt	626,619.77270	621,672.44567	
L5					CH4	kt	6,169.0385417	5,944.6331040	
L6					N20	kt	159.53203724	178.42201250	
L7					HFCs	kt CO2 equivalent	2,684.4247156	2,052.9272977	
L8					PFCs	kt CO2 equivalent	3,051.0925373	2,447.2771745	
L9					Unspecified mix of HFCs a	kt CO2 equivalent	NO,NA	NO,NA	
L10					SF6	kt	0.0001920022	0.0001920022	
L11					NF3	kt	NO,NA	NO,NA	
L12					NOx	kt	2,548.4174204	2,404.8461161	
L13					CO	kt	9,222.3885846	7,962.8630490	
L14					NMVOC	kt	1,461.5555534	1,282.6850354	
L15					S02	kt	3,896.4473216	3,172.1238068	
L16					NH3	kt	13.862294147	17.126642743	



Automatic calculation – Key category analysis

Category -	Classification	Measure	Gas	Unit	Source	Target	Level w/ Lulucf	Trend w/ Lulucf	Level w/o Lulucf	Trend w/o Lulucf
Adipic Acid Production	no classification	Emissions	N20	kt	no source	no target	0.000	0.000	0.000	0.000
Adipic Acid Production	no classification	Emissions	CO2	kt	no source	no target	0.000	0.000	0.000	0.000
Aerosols	no classification	Emissions	Aggregate F-gases	t CO2 equivalent	no source	no target	0.000	0.000	0.000	0.000
Agricultural Soils	Direct N2O Emissions From Managed Soils	Emissions	N20	kt	no source	no target	0.077	0.000	0.096	0.000
Agricultural Soils	Farming	Emissions	CH4	kt	no source	no target	0.000	0.000	0.000	0.000
Agricultural Soils	Farming	Emissions	N20	kt	no source	Indirect N20 Emissions From	0.008	0.000	0.010	0.000

TABLE 7 SUMMARY OVERVIEW FOR KEY CATEGORIES (1) (Sheet 1 of 1)



Inventory 1990 Submission 2021 v1 UNFCCC

Gas	Criteria used f	for key source	Key category	Key category including
	L	T	excluding LULUCF	LULUCF
CO2	X		X	X
CH4				
N2O	X		X	X
CO2	X		X	
CH4				
N2O				
CO2				
CH4				
N2O	X		X	X
CO2				
CH4				
N2O	X		X	X
CO2				
	CO2 CH4 N20 CO2 CH4 N20 CO2 CH4 N20 CO2	L CO2 X CH4 N20 X CH4 N20 X CH4 N20 CO2 CH4 N20 X CO2 CH4 CO2 CH4	L T T	L T excluding LULUCF

Automatic calculation – Recalculation

TABLE 8 RECALCULATION - RECALCULATED DATA (Sheet 1 of 4)

			C	O ₂					
GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽³⁾			
	(CO2 equivalent (kt)	(%)					
Total national emissions and removals	37052.99	37271.18	218.19	0.59	0.39	0.36			
1. Energy	30153.51	30149.12	-4.39	-0.01	-0.01	-0.01			
A. Fuel combustion activities	30153.48	30149.11	-4.37	-0.01	-0.01	-0.01			
Energy Industries	11145.01	11145.01	0.00	0.00	0.00	0.00			
Manufacturing industries and construction	3942.63	3942.63	0.00	0.00	0.00	0.00			
3. Transport	5034.90	5030.54	-4.37	-0.09	-0.01	-0.01			
Other sectors	10030.94	10030.94	0.00	0.00	0.00	0.00			
5. Other	IE	IE							
B. Fugitive emissions from fuels	0.03	0.01	-0.03	-83.66	0.00	0.00			
Solid fuels	NO	NO							
Oil and natural gas	0.03	0.01	-0.03	-83.66	0.00	0.00			
C. CO ₂ Transport and storage	NO	NO							
2. Industrial processes and product use	2247.52	2247.91	0.39	0.02	0.00	0.00			



Internal review – Export of reporting tables

TABLE 1 SECTORAL REPORT FOR ENERGY								Inventory 1990	1	
(Sheet 1 of 2)								mission 2021 v1		
								UNFCCC		
GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂	CH ₄	N ₂ O	NOx	СО	NA NA	NOC	SO_2		
SILLE VIOLOGE SILO SOCIALE IN SILVE	CO ₂	CH	1170	(kt)		212	1100	502		
Total Energy	258240.28	1783.16	768.4	44 2642.	52 112	54.20	1874.49	5311.08		
A. Fuel combustion activities (sectoral approach)	254064.54	356.19	757.4	44 2634.	25 1124	47.95	1667.68	5260.63		
1. Energy industries	20483.56	221.14	704.3			14.57	8.55	3135.50		
a. Public electricity and heat production	151.00	25.50	20.2			54.49	6.53	2435.31		
b. Petroleum refining	20165.56	0.64	456.1	14 36.	84	9.02	0.63	161.49	ь,	
c. Manufa 2. Manufac (Sheet 1 of 1)	R CO ₂ EQUIVA	LENT EMIS	SSIONS						Inventory 1990 nission 2021 v1	
a. Iron an b. Non-fe								3001	UNFCCC	
c. Chemic							Unspecifie	,		
d. Pulp, r e. Food p GREENHOUSE GAS SOURCE AND	CO ₂ ⁽¹⁾	CH ₄	N ₂ O	HFCs	PFCs	SF_6	mix of HFC and PFCs	Cs NF ₃	Total	
SINK CATEGORIES		CO ₂ equivalent (kt)								
Total (net emissions) ⁽¹⁾	640874.33		1260166.29	2439.82	2775.09	72.78	NO,N	A NO,NA	2078060.88	
1. Energy	258240.28		228995.53						531814.91	
A. Fuel combustion (sectoral approach)	254064.54	4 8904.77	225716.47						488685.78	
TABLE 10 EMISSIO	ON TRENI	DS								Inventory 1990
3. T 4. G SUMMARY										Submission 2021 v1
5. C (Sheet 6 of 6)										UNFCCC
					D	ase year	(1)	199	00	Change from base to
GREENHOUSE GAS EMIS	SSIONS				D	ase year		17	70	latest reported year
						CC	O ₂ equiv	alent (kt)		(%)
CO ₂ emissions without net C	O ₂ from LUL	UCF			İ	598	912.31		598912.31	0.00

640874.33

170442.96

171732.57

498072.84

1260166.29

640874.33

170442.96

171732.57

498072.84

1260166.29

0.00

0.00

0.00

0.00

0.00



CO2 emissions with net CO2 from LULUCF

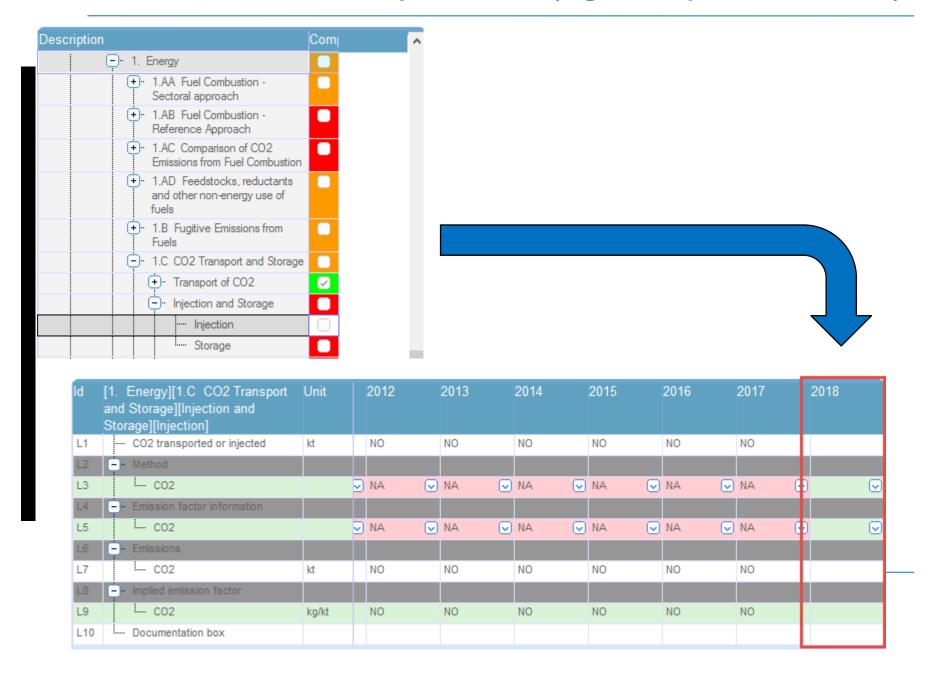
CH4 emissions without CH4 from LULUCF

N2O emissions without N2O from LULUCF

CH4 emissions with CH4 from LULUCF

N2O emissions with N2O from LULUCF

Internal review – QA/QC procedures (e.g., Completeness check)



Summary of the key features of the CRF Reporter

- Follows the structure and format of the agreed CRF tables for Annex I Parties (annexed to decision 24/CP.19)
- Allows multiple users working in parallel
- Performs automatic population of summary and trend tables based on sectoral background tables
- Has built-in functionality to perform automatic calculations
 - Aggregation of emissions and AD data at higher category levels
 - Implied emission factors
 - Key category analysis (Tier 1)
 - Recalculation differences at category level
 - CO₂ equivalent (using GWPs from Annex I reporting guidelines)
- Propagates notation keys
- ➤ Allows overwriting cells with embedded formulas in certain categories in order to report data at a less disaggregated level
- Supports data entry offline (through the use of Excel and XML import)
- ➤ Has built-in functionality to perform certain QA/QC procedures
- > Enables interoperability with other systems (through the use of an XML schema)
- Ability to copy previous inventories prepared within the CRF Reporter



CRF Reporter for developing country Parties

SBSTA 50 "invited developing country Parties to request access to the CRF Reporter and requested the secretariat to facilitate access to and use of the CRF Reporter"

- The secretariat prepared a separate environment as a "playground" https://crfnaitest.unfccc.int/crfapp/
- ➤ Webinars were conducted as part of the June Momentum (attended by 80+ participants), as well as for groups of Parties upon request
- Access has been provided to over 30 developing Parties
- > To request for access, send email to: crfweb@unfccc.int

