The 20th Workshop on GHG Inventories in Asia (WGIA20)

Session II: Changes in Reporting Under the Paris Agreement

Overview on GHG Inventory Reporting under the Paris Agreement

Tomoyuki AIZAWA, Programme Officer, Transparency Division

27 June 2023, Tomakomai, Japan

United Nations Climate Change

#Together4Transparency

What are the requirements for GHG Inventory reporting under the Paris Agreement?

United Nations
Climate Change Secretariat

Overview of reporting requirements under Article 13

United Nations
Climate Change Secretariat

All Parties *shall*

- **National inventory report of GHG emissions** *(Article 13, para. 7(a)), which consists of a national inventory document (NID) and common reporting tables (CRT)*
- **Progress made in implementing and achieving the NDC** *(Article 13, para. 7(b)), which shall be reported in a narrative and common tabular formet (CTF)*

Developed country Parties *shall* **and other Parties that provide support** *should*

- **Financial, technology transfer and capacity-building support provided to developing country Parties** under Articles 9–11 *(Article 13, para. 9), to be reported in textual and/or comon tabular formet (CTF)*

+

All Parties *should, as appropriate*

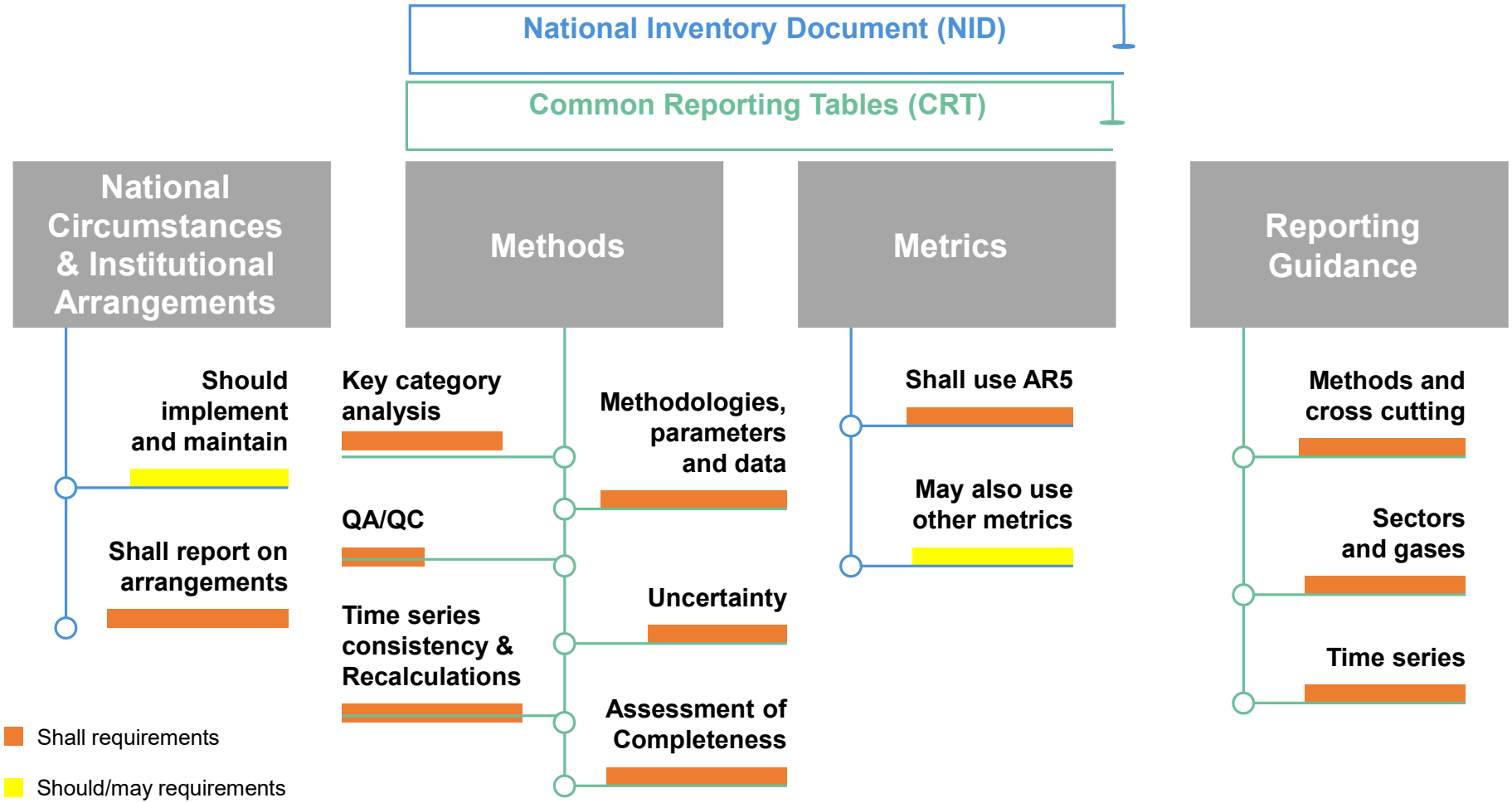
- **Climate change impacts and adaptation** *(Article 13, para. 8)*

Developing country Parties *should*

- **Financial, technology transfer and capacity-building support needed and received** under Articles 9–11 *(Article 13, para. 10), to be reported in textual and/or common tabular format (CTF)*

National Inventory Report - overview

United Nations
Climate Change Secretariat



National GHG inventory - elements

United Nations
Climate Change Secretariat

Methods/Guidelines

- 2006 IPCC Guidelines are required, along with any subsequent version/refinement agreed upon by the CMA
  Parties encouraged to apply the 2013 Wetlands Supplement
- Countries always encouraged to apply higher-tier methods and factors
- Energy, Industrial Processes and Product Use, Agriculture, Waste, Land use, Land Use Change and Forestry
- Use global warming potential values from AR5

Gases

- Shall: CO_2, CH_4, N_2O, HFCs, PFCs, SF_6, NF3 (with flexibility)
- Should: pre-cursor gases (CO, NOx, NMVOCs and SO_x)
- May report indirect CO_2 from atmospheric oxidation of CH_4, CO and NMVOCs; if choose to, report total GHG emissions with and without indirect CO_2
- Should report indirect N_2O other than ag/LULUCF as a memo item (not included in national totals)
- May report other substances that have an impact on climate

Time series

- Shall: report consistent time series from 1990 (with flexibility)
- Shall: Latest reporting year no more than 2 years prior to the submission year (with flexibility)

National GHG inventory - elements

United Nations
Climate Change Secretariat

Key category analysis

- Shall identify those categories that contribute most to the level or trend of emissions; generally use higher tier methods for key categories (with flexibility)

Time series consistency & recalculations

- Should use the same methods over time, as well as approach to AD and EFs
- Should use IPCC splicing techniques to fill in gaps in time series
- Shall perform recalculations in accordance with IPCC Guidelines

Uncertainty Assessment

- Shall quantitatively assess uncertainty and qualitatively discuss uncertainty for all source and sink categories, for at least the starting year and latest year (with flexibility)

National GHG inventory - elements

United Nations
Climate Change Secretariat

Completeness Assessment

- Should indicate sources/sinks included in IPCC Guidelines, but not reported.
- Shall use notation keys where numerical data not reported, describing why the emissions for specific categories are not reported.
- May exclude “insignificant” categories from reporting, where insignificant defined as categories being 500 kt CO2 eq or 0.05% of national emissions, whichever is lower. Total sum of categories considered insignificant must remain below 0.1% of total national emissions (with flexibility)
- Once categories are reported, Parties shall continue reporting the category

QA/QC

- Shall elaborate an inventory QA/QC plan (with flexibility)
- Shall implement general QA/QC procedures (with flexibility)
- Should apply category-specific QC procedures for key categories and for categories in which significant methodological changes and/or data revisions have occurred.
- Should conduct a basic peer review of inventory
- Should compare sectoral estimates with the reference approach, and report results

Flexibility for developing countries

United Nations
Climate Change Secretariat

Flexibility Provisions

- ❑ The ETF provides built-in flexibility to those developing countries that need it owing to their national capacities
- ❑ Capacity-building and support from developed country Parties will be crucial to facilitating improvement in reporting over time
- ❑ MPGs specify the flexibility that is available in the scope, frequency and level of detail of reporting, and in the scope of the review
- ❑ The application of a flexibility provided for in the provisions of these MPGs is self-determined

Least Developed Countries (LDCs) and Small Island Developing States (SIDS)

- ❑ Special circumstances of the least developed countries and small island developing states were recognized
- ❑ LDCs/SIDS may submit the information referred to in Article 13 (paras. 7, 8, 9 and 10) at their discretion

Support and capacity building

- ❑ Support shall be provided to developing countries for the implementation of Article 13
- ❑ Support shall be provided continuously for building transparency-related capacity of developing countries

Flexibility provisions for national GHG inventory

United Nations
Climate Change Secretariat

Flexibility (annex to Dec. 18/CMA.1)	Flexibility provisions for those developing country Parties that need it in the light of their capacities
Key categories (para. 25)	Identify key categories using a threshold no lower than 85% (instead of 95%)
Uncertainty assessment (para. 29)	Provide qualitative discussion of uncertainty for key categories both latest inventory year/ trend, instead of quantitatively estimating and qualitatively discussing uncertainty for all categories for at least the starting year and the latest reporting year and the trend.
Completeness (para. 32)	Consider emissions insignificant if the likely level of emissions is below 0.1% of total GHG emissions, excluding LULUCF, or 1,000 kt CO_2 eq, whichever lower (as opposed to 0.05% or 500 kt CO_2 eq). Total emissions for all gases from categories considered insignificant shall remain below 0.2% total GHG emissions, excluding LULUCF, as opposed to 0.1%
QA/QC (paras. 34 and 35)	Encouraged to elaborate an inventory QA/QC plan including information on the inventory agency responsible for implementing QA/QC (as opposed to a requirement to develop a QA/QC plan)
	Encouraged to implement and provide information on general inventory QC procedures in accordance with their QA/QC plan (as opposed to required to implement and provide information)
Gases (para. 48)	Report at least 3 gases (CO_2, CH_4 and N_2O). Also any of the 4 gases (HFCs, PFCs, SF_6 and NF_3) included in NDC under Art. 4 or that are covered by an activity under Art. 6, or have been previously reported (as opposed to reporting all 7 gases)
Time series (paras. 57 and 58)	Report data covering the reference year/period for the NDC and, in addition, a consistent annual time series from at least 2020 onward (as opposed to reporting a continuous time series from 1990 onwards).
	Latest reporting year shall be no more than 3 years prior to submission (vs no more than 2 years for other Parties)

Metrics

United Nations
Climate Change Secretariat

- Method, Section II, D. Metrix, §37
  Appendix 8.A: Lifetimes, Radiative Efficiencies and Metric Values
- Decision 5/CMA.3, §25 clarifies that the 100-year time-horizon global warming potential values referred to in decision 18/CMA.1, annex, paragraph 37, shall be those listed in table 8.A.1 of the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, excluding the value for fossil methane;
- https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_Chapter08_FINAL.pdf#page=73

Appendix 8.A: Lifetimes, Radiative Efficiencies and Metric Values

Table 8.A.1 | Radiative efficiencies (REs), lifetimes/adjustment times, AGWP and GWP values for 20 and 100 years, and AGTP and GTP values for 20, 50 and 100 years. Climate–carbon feedbacks are included for CO_2 while no climate feedbacks are included for the other components (see discussion in Sections 8.7.1.4 and 8.7.2.1, Supplementary Material and notes below the table; Supplementary Material Table 8.SM.16 gives analogous values including climate–carbon feedbacks for non-CO_2 emissions). For a complete list of chemical names and CAS numbers, and for accurate replications of metric values, see Supplementary Material Section 8.SM.13 and references therein.

Acronym, Common Name or Chemical Name	Chemical Formula	Lifetime (Years)	Radiative Efficiency (W m^{-2} ppb^{-1})	AGWP 20-year (W m^{-2} yr kg^{-1})	**GWP 20-year**	AGWP 100-year (W m^{-2} yr kg^{-1})	**GWP 100-year**	AGTP 20-year (K kg^{-1})	**GTP 20-year**	AGTP 50-year (K kg^{-1})	**GTP 50-year**	AGTP 100-year (K kg^{-1})	**GTP 100-year**
Carbon dioxide	CO_2	see*	1.37e-5	2.49e-14	**1**	9.17e-14	**1**	6.84e-16	**1**	6.17e-16	**1**	5.47e-16	**1**
Methane	CH_4	12.4†	3.63e-4	2.09e-12	**84**	2.61e-12	**28**	4.62e-14	**67**	8.69e-15	**14**	2.34e-15	**4**
Fossil methane‡													
Nitrous Oxide	N_2O	121†	3.00e-3	6.58e-12	**264**	2.43e-11	**265**	1.89e-13	**277**	1.74e-13	**282**	1.28e-13	**234**

Metrics (F-gases)

United Nations
Climate Change Secretariat

- https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_Chapter08_FINAL.pdf#page=74
- https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_Chapter08_FINAL.pdf#page=75
- https://www.ipcc.ch/site/assets/uploads/2018/02/WG1AR5_Chapter08_FINAL.pdf#page=76

Table 8.A.1 (continued)

732

Acronym, Common Name or Chemical Name	Chemical Formula	Lifetime (Years)	Radiative Efficiency (W m^{-2} ppb^{-1})	AGWP 20-year (W m^{-2} yr kg^{-1})	GWP 20-year	AGWP 100-year (W m^{-2} yr kg^{-1})	GWP 100-year
Hydrofluorocarbons							
HFC-23	CHF_3	222.0	0.18	2.70e-10	10,800	1.14e-09	12,400
HFC-32	CH_2F_2	5.2	0.11	6.07e-11	2430	6.21e-11	677
HFC-41	CH_3F	2.8	0.02	1.07e-11	427	1.07e-11	116
HFC-125	CHF_2CF_3	28.2	0.23	1.52e-10	6090	2.91e-10	3170
HFC-134	CHF_2CHF_2	9.7	0.19	8.93e-11	3580	1.02e-10	1120
HFC-134a	CH_2FCF_3	13.4	0.16	9.26e-11	3710	1.19e-10	1300
HFC-143	CH_2FCHF_2	3.5	0.13	3.00e-11	1200	3.01e-11	328
HFC-143a	CH_3CF_3	47.1	0.16	1.73e-10	6940	4.41e-10	4800
HFC-152	CH_2FCH_2F	0.4	0.04	1.51e-12	60	1.51e-12	16
HFC-152a	CH_3CHF_2	1.5	0.10	1.26e-11	506	1.26e-11	138
HFC-161	CH_3CH_2F	66.0 days	0.02	3.33e-13	13	3.33e-13	4
HFC-227ca	$CF_3CF_2CHF_2$	28.2	0.27	1.27e-10	5080	2.42e-10	2640
HFC-227ea	CF_3CHFCF_3	38.9	0.26	1.34e-10	5360	3.07e-10	3350
HFC-236cb	$CH_2FCF_2CF_3$	13.1	0.23	8.67e-11	3480	1.11e-10	1210
HFC-236ea	CHF_2CHFCF_3	11.0	0.30[a]	1.03e-10	4110	1.22e-10	1330
HFC-236fa	$CF_3CH_2CF_3$	242.0	0.24	1.73e-10	6940	7.39e-10	8060
HFC-245ca	$CH_2FCF_2CHF_2$	6.5	0.24[b]	6.26e-11	2510	6.56e-11	716
HFC-245cb	$CF_3CF_2CH_3$	47.1	0.24	1.67e-10	6680	4.24e-10	4620
HFC-245ea	$CHF_2CHFCHF_2$	3.2	0.16[c]	2.15e-11	863	2.16e-11	235
HFC-245eb	$CH_2FCHFCF_3$	3.1	0.20[c]	2.66e-11	1070	2.66e-11	290
HFC-245fa	$CHF_2CH_2CF_3$	7.7	0.24	7.29e-11	2920	7.87e-11	858
HFC-263fb	$CH_3CH_2CF_3$	1.2	0.10[c]	6.93e-12	278	6.93e-12	76
HFC-272ca	$CH_3CF_2CH_3$	2.6	0.07	1.32e-11	530	1.32e-11	144
HFC-329p	$CHF_2CF_2CF_2CF_3$	28.4	0.31	1.13e-10	4510	2.16e-10	2360
HFC-365mfc	$CH_3CF_2CH_2CF_3$	8.7	0.22	6.64e-11	2660	7.38e-11	804
HFC-43-10mee	$CF_3CHFCHFCF_2CF_3$	16.1	0.42[b]	1.08e-10	4310	1.51e-10	1650
HFC-1132a	$CH_2{=}CF_2$	4.0 days	0.004[d]	3.87e-15	<1	3.87e-15	<1
HFC-1141	$CH_2{=}CHF$	2.1 days	0.002[d]	1.54e-15	<1	1.54e-15	<1
(Z)-HFC-1225ye	$CF_3CF{=}CHF(Z)$	8.5 days	0.02	2.14e-14	<1	2.14e-14	<1
(E)-HFC-1225ye	$CF_3CF{=}CHF(E)$	4.9 days	0.01	7.25e-15	<1	7.25e-15	<1
(Z)-HFC-1234ze	$CF_3CH{=}CHF(Z)$	10.0 days	0.02	2.61e-14	1	2.61e-14	<1
HFC-1234yf	$CF_3CF{=}CH_2$	10.5 days	0.02	3.22e-14	1	3.22e-14	<1
(E)-HFC-1234ze	trans-$CF_3CH{=}CHF$	16.4 days	0.04	8.74e-14	4	8.74e-14	<1
(Z)-HFC-1336	$CF_3CH{=}CHCF_3(Z)$	22.0 days	0.07[d]	1.54e-13	6	1.54e-13	2

(continued on next page)

733

Table 8.A.1 (continued)

734

Acronym, Common Name or Chemical Name	Chemical Formula	Lifetime (Years)	Radiative Efficiency (W m^{-2} ppb^{-1})	AGWP 20-year (W m^{-2} yr kg^{-1})	GWP 20-year	AGWP 100-year (W m^{-2} yr kg^{-1})	GWP 100-year
HFC-1243zf	$CF_3CH{=}CH_2$	7.0 days	0.01	1.37e-14	1	1.37e-14	<1
HFC-1345zfc	$C_2F_5CH{=}CH_2$	7.6 days	0.01	1.15e-14	<1	1.15e-14	<1
3,3,4,4,5,5,6,6,6-Nonafluorohex-1-ene	$C_4F_9CH{=}CH_2$	7.6 days	0.03	1.25e-14	<1	1.25e-14	<1
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooct-1-ene	$C_6F_{13}CH{=}CH_2$	7.6 days	0.03	9.89e-15	<1	9.89e-15	<1
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptadecafluorodec-1-ene	$C_8F_{17}CH{=}CH_2$	7.6 days	0.03	8.52e-15	<1	8.52e-15	<1
Chlorocarbons and Hydrochlorocarbons							
Methyl chloroform	CH_3CCl_3	5.0	0.07	1.44e-11	578	1.47e-11	160
Carbon tetrachloride	CCl_4	26.0	0.17	8.69e-11	3480	1.59e-10	1730
Methyl chloride	CH_3Cl	1.0	0.01[a]	1.12e-12	45	1.12e-12	12
Methylene chloride	CH_2Cl_2	0.4	0.03[b]	8.18e-13	33	8.18e-13	9
Chloroform	$CHCl_3$	0.4	0.08	1.50e-12	60	1.50e-12	16
1,2-Dichloroethane	CH_2ClCH_2Cl	65.0 days	0.01	8.24e-14	3	8.24e-14	<1
Bromocarbons, Hydrobromocarbons and Halons							
Methyl bromide	CH_3Br	0.8	0.004	2.16e-13	9	2.16e-13	2
Methylene bromide	CH_2Br_2	0.3	0.01	9.31e-14	4	9.31e-14	1
Halon-1201	$CHBrF_2$	5.2	0.15	3.37e-11	1350	3.45e-11	376
Halon-1202	CBr_2F_2	2.9	0.27	2.12e-11	848	2.12e-11	231
Halon-1211	$CBrClF_2$	16.0	0.29	1.15e-10	4590	1.60e-10	1750
Halon-1301	$CBrF_3$	65.0	0.30	1.95e-10	7800	5.77e-10	6290
Halon-2301	CH_2BrCF_3	3.4	0.14	1.59e-11	635	1.59e-11	173
Halon-2311 / Halothane	$CHBrClCF_3$	1.0	0.13	3.77e-12	151	3.77e-12	41
Halon-2401	$CHFBrCF_3$	2.9	0.19	1.68e-11	674	1.68e-11	184
Halon-2402	$CBrF_2CBrF_2$	20.0	0.31	8.59e-11	3440	1.35e-10	1470
Fully Fluorinated Species							
Nitrogen trifluoride	NF_3	500.0	0.20	3.19e-10	12,800	1.47e-09	16,100
Sulphur hexafluoride	SF_6	3,200.0	0.57	4.37e-10	17,500	2.16e-09	23,500
(Trifluoromethyl) sulphur pentafluoride	SF_5CF_3	800.0	0.59	3.36e-10	13,500	1.60e-09	17,400
Sulphuryl fluoride	SO_2F_2	36.0	0.20	1.71e-10	6840	3.76e-10	4090
PFC-14	CF_4	50,000.0	0.09	1.22e-10	4880	6.08e-10	6630
PFC-116	C_2F_6	10,000.0	0.25	2.05e-10	8210	1.02e-09	11,100
PFC-c216	c-C_3F_6	3,000.0	0.23[a]	1.71e-10	6850	8.44e-10	9200
PFC-218	C_3F_8	2,600.0	0.28	1.66e-10	6640	8.16e-10	8900
PFC-318	c-C_4F_8	3,200.0	0.32	1.77e-10	7110	8.75e-10	9540

(continued on next page)

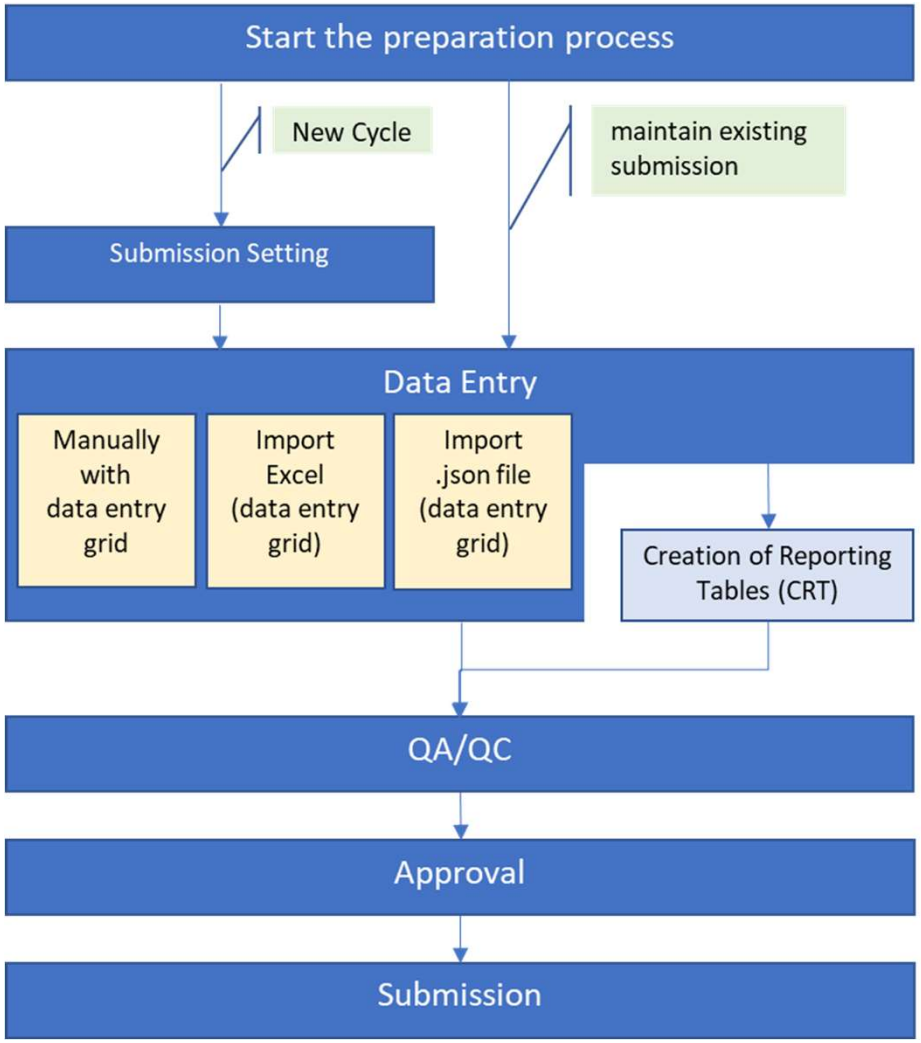
Table 8.A.1 (continued)

Acronym, Common Name or Chemical Name	Chemical Formula	Lifetime (Years)	Radiative Efficiency (W m^{-2} ppb^{-1})	AGWP 20-year (W m^{-2} yr kg^{-1})	GWP 20-year	AGWP 100-year (W m^{-2} yr kg^{-1})	GWP 100-year
PFC-31-10	C_4F_{10}	2,600.0	0.36	1.71e-10	6870	8.44e-10	9200
Perfluorocyclopentene	c-C_5F_8	31.0 days	0.08[f]	1.71e-13	7	1.71e-13	2
PFC-41-12	n-C_5F_{12}	4,100.0	0.41	1.58e-10	6350	7.84e-10	8550
PFC-51-14	n-C_6F_{14}	3,100.0	0.44	1.47e-10	5890	7.26e-10	7910
PFC-61-16	n-C_7F_{16}	3,000.0	0.50	1.45e-10	5830	7.17e-10	7820
PFC-71-18	C_8F_{18}	3,000.0	0.55	1.42e-10	5680	6.99e-10	7620
PFC-91-18	$C_{10}F_{18}$	2,000.0	0.55	1.34e-10	5390	6.59e-10	7190
Perfluorodecalin (cis)	Z-$C_{10}F_{18}$	2,000.0	0.56	1.35e-10	5430	6.64e-10	7240
Perfluorodecalin (trans)	E-$C_{10}F_{18}$	2,000.0	0.48	1.18e-10	4720	5.77e-10	6290
PFC-1114	$CF_2{=}CF_2$	1.1 days	0.002	2.68e-16	<1	2.68e-16	<1
PFC-1216	$CF_3CF{=}CF_2$	4.9 days	0.01	6.42e-15	<1	6.42e-15	<1
Perfluorobuta-1,3-diene	$CF_2{=}CFCF{=}CF_2$	1.1 days	0.003	3.29e-16	<1	3.29e-16	<1
Perfluorobut-1-ene	$CF_3CF_2CF{=}CF_2$	6.0 days	0.02	8.38e-15	<1	8.38e-15	<1
Perfluorobut-2-ene	$CF_3CF{=}CFCF_3$	31.0 days	0.07	1.62e-13	6	1.62e-13	2

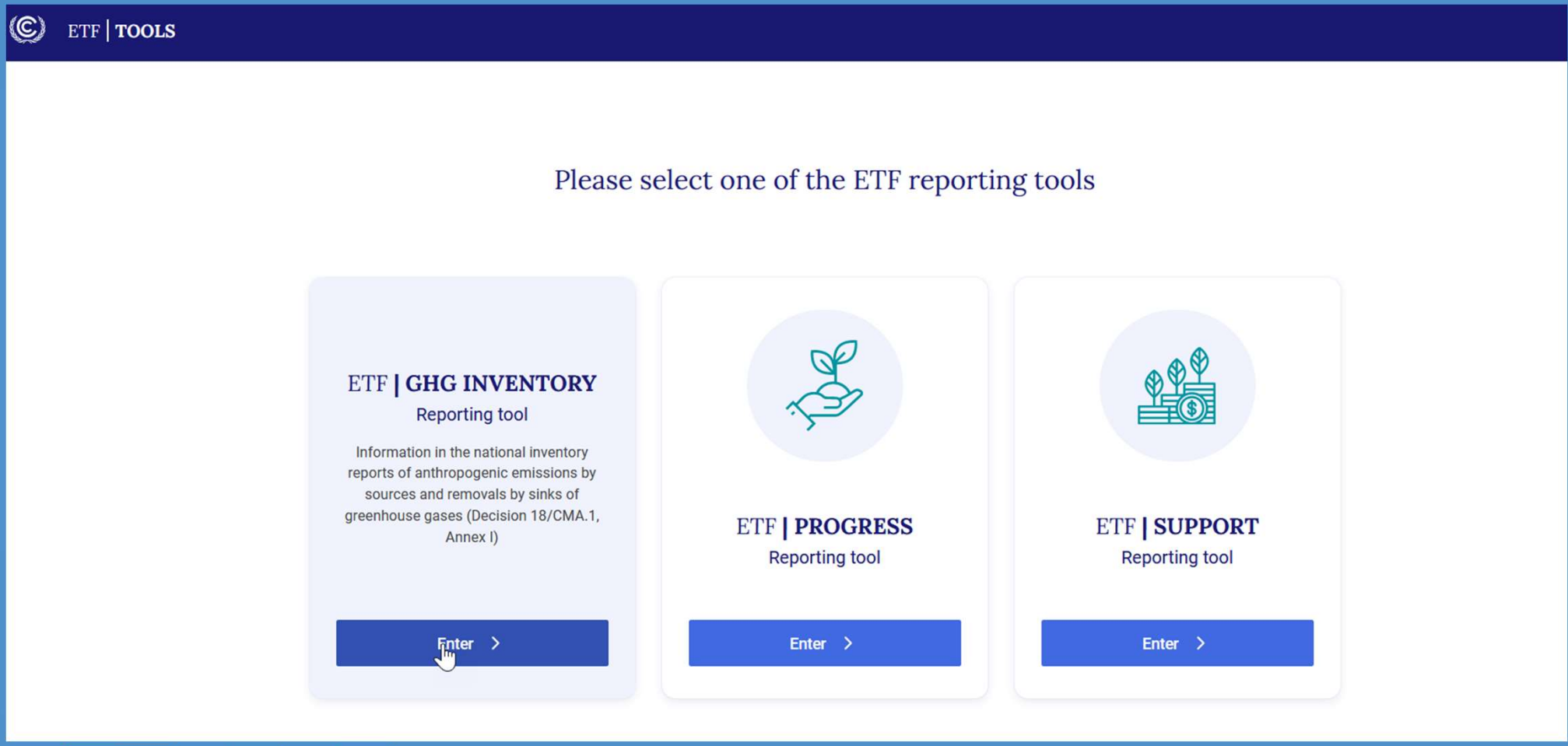
How ETF | GHG INVENTORY Reporting Tool will work?

United Nations
Climate Change Secretariat

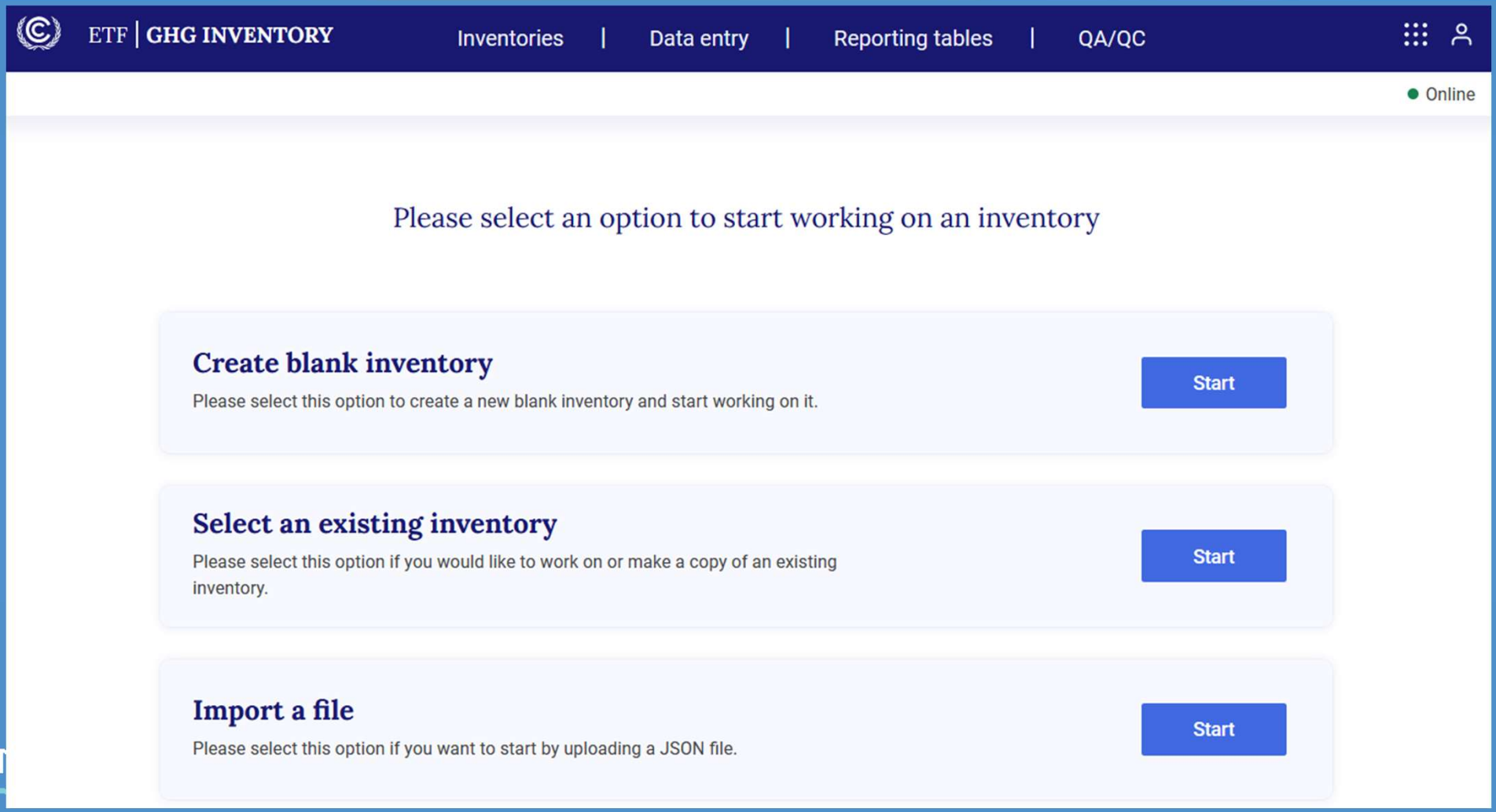
Steps of GHG Inventory Preparation towards official submission



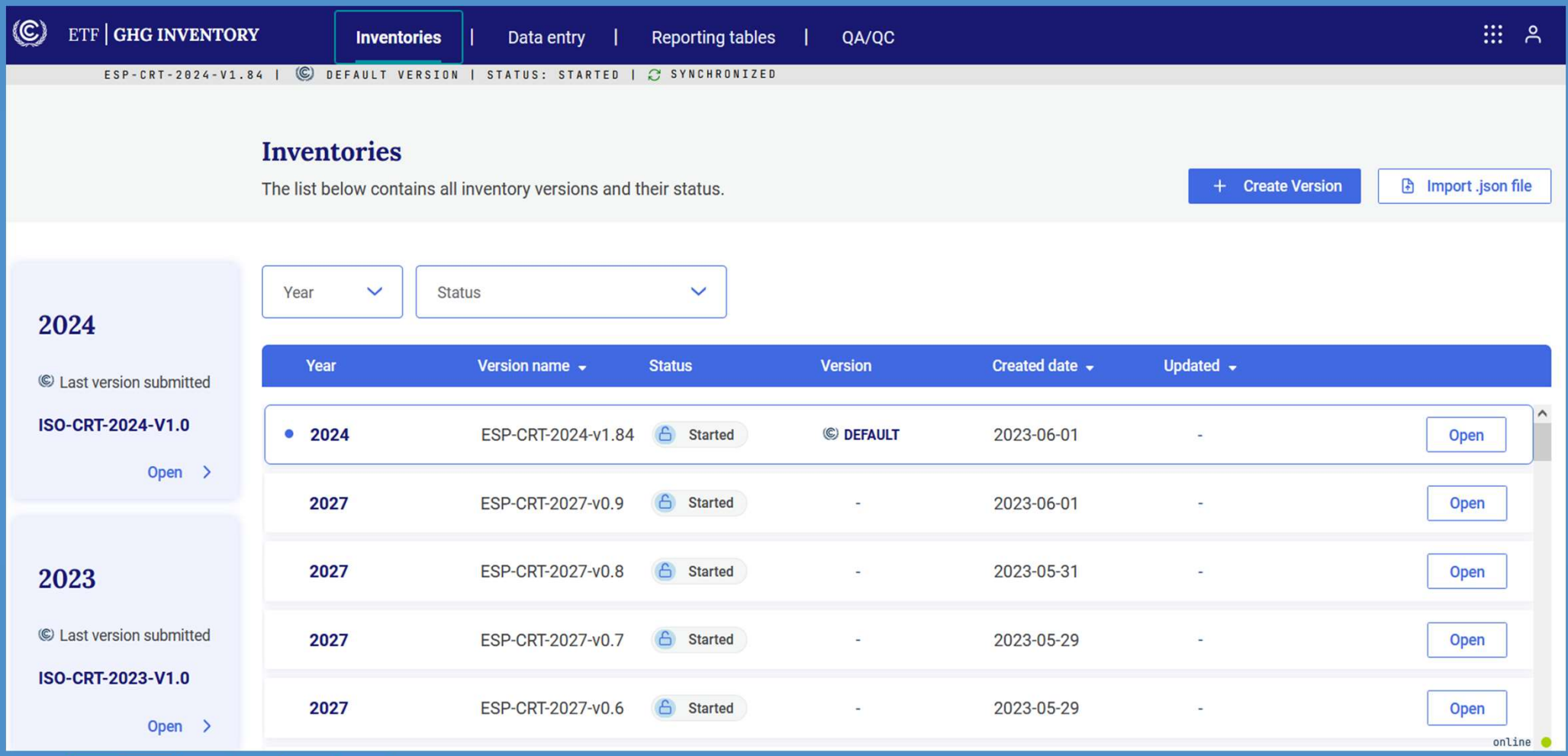
User Interface - ETF reporting tools



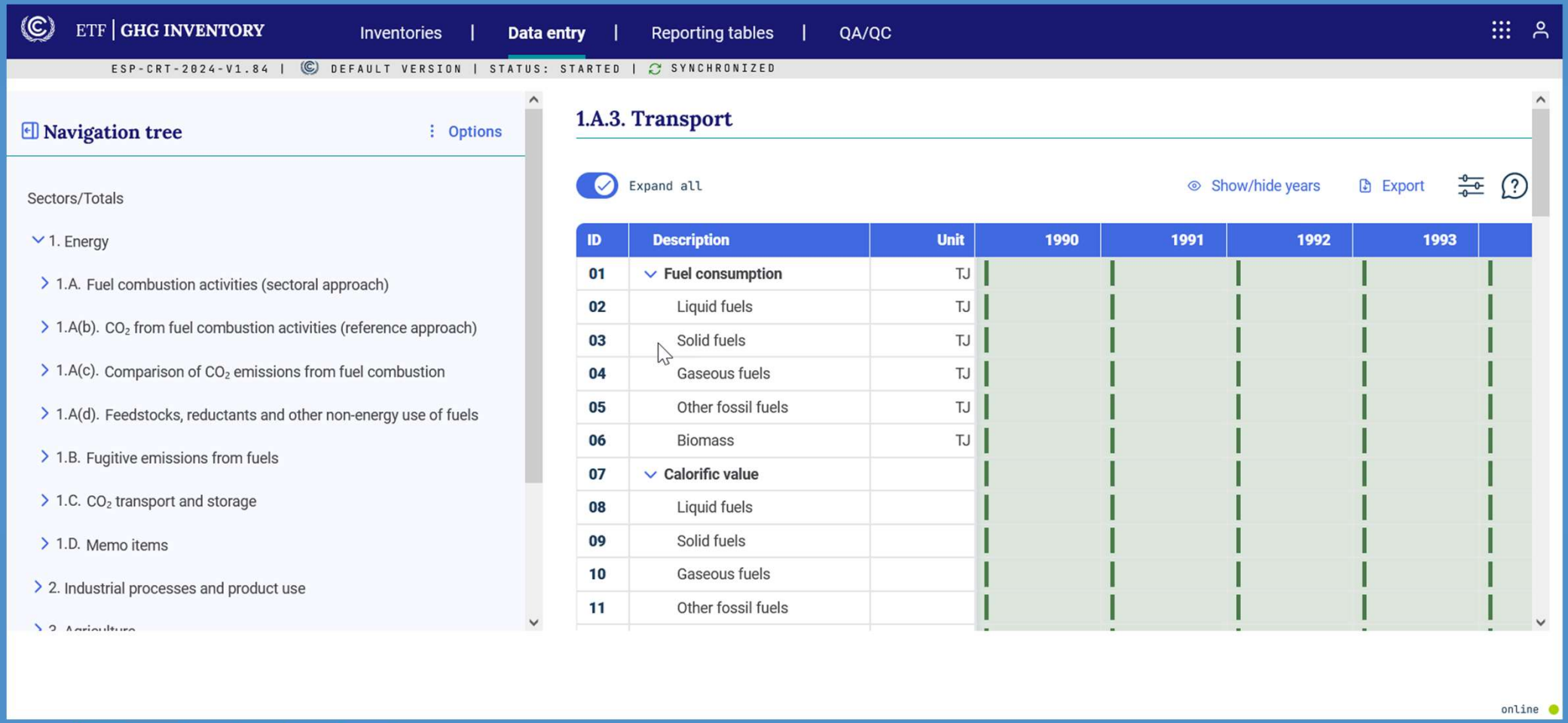
User Interface – GHG INVENTORY Reporting Tool



User Interface – GHG INVENTORY Reporting Tool



User Interface – GHG INVENTORY Reporting Tool



Structure of the Common Reporting Tables (CRT)

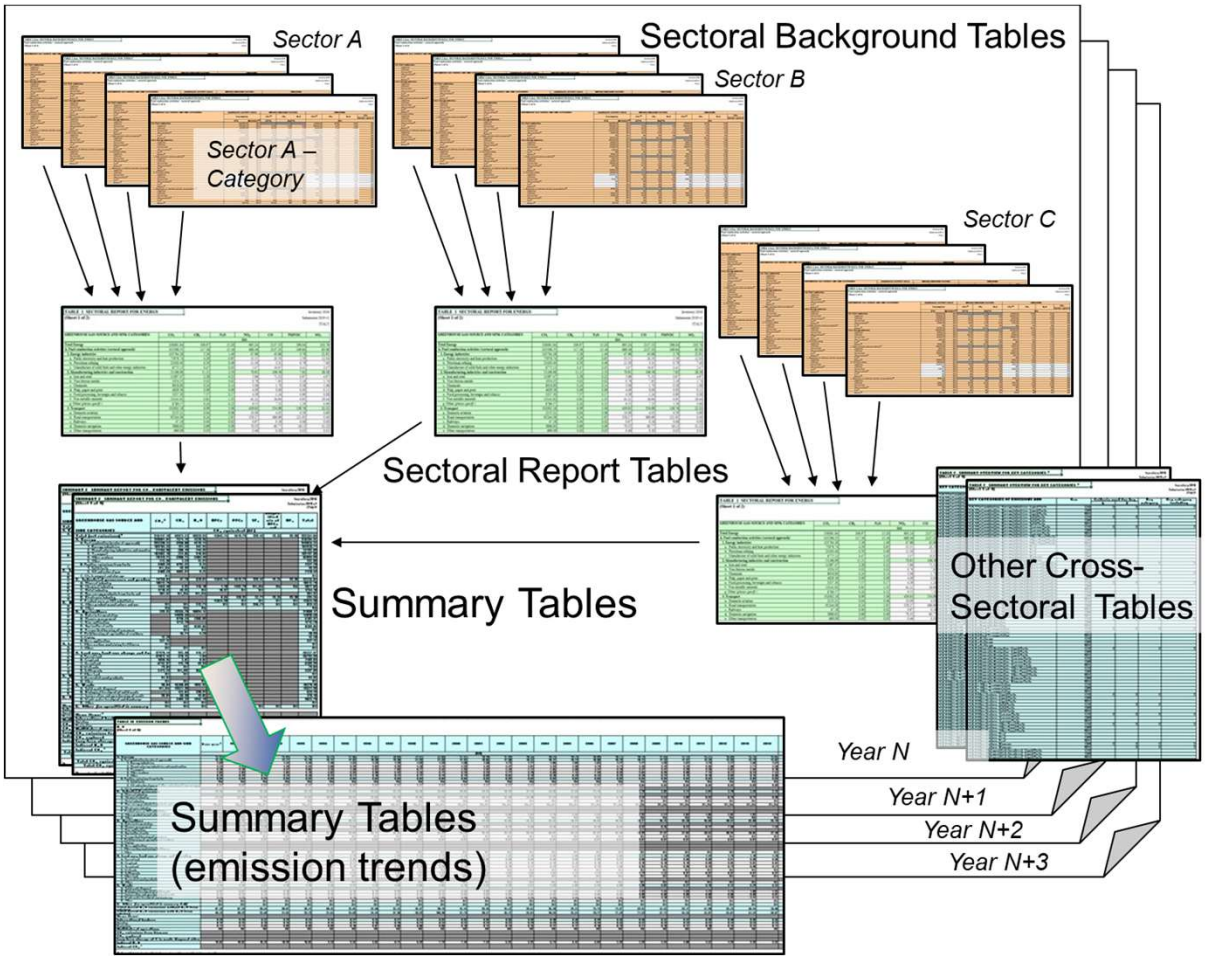
United Nations
Climate Change Secretariat

Summary tables

Other cross-sectoral tables

Sectoral tables

- Sectoral Background Data Tables
- Sectoral Report Tables
- Other (e.g. reference approach for energy)



Structural Differences between the CRT and Data Entry Grids of the ETF | GHG INV. Rep. Tool

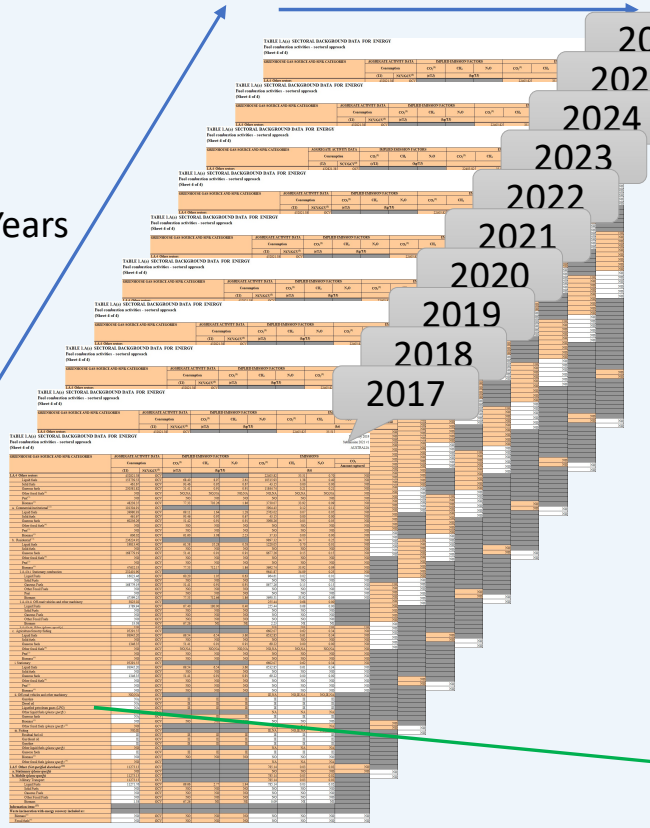
The Common Reporting Tables – **Annual basis**

Parameters (AD, Emissions, etc.)

Years

2026
2025
2024
2023
2022
2021
2020
2019
2018
2017

Categories



Data Entry Grids – **Category basis**

Years

Categories

Sectors/Totals / 1. Energy / 1.A. Fuel combustion activities (sectoral approach) / 1.A.4. Other sectors / 1.A.4.c. Agriculture/forestry/fishing / 1.A.4.c.i. Stationa

Expand all

Sectors/Totals / 1. Energy / 1.A. Fuel combustion activities (sectoral approach) / 1.A.4. Other sectors / 1.A.4.c. Agriculture/forestry/fishing / 1.A.4.c.i. Stationary / Li

Expand all

Sectors/Totals / 1. Energy / 1.A. Fuel combustion activities (sectoral approach) / 1.A.4. Other sectors / 1.A.4.c. Agriculture/forestry/fishing / 1.A.4.c.i. Stationary / Liquid fue

Expand all

Sectors/Totals / 1. Energy / 1.A. Fuel combustion activities (sectoral approach) / 1.A.4. Other sectors / 1.A.4.c. Agriculture/forestry/fishing / 1.A.4.c.i. Stationary / Liquid fuels

Expand all

Show/hide years | Export

Parameters (AD, Emissions, etc.)

ID	Description	Unit	1990	2000	2005	2010	2015	2020	2021	2022	2023	2024
01	Fuel consumption	TJ										
02	Calorific value											
03	Method											
04	CO_2											
05	CH_4											
06	N_2O											
07	Emission factor information											
08	CO_2											
09	CH_4											
10	N_2O											
11	Emissions											
12	CO_2	kt										
13	CH_4	kt										
14	N_2O	kt										
15	Amount captured											
16	CO_2	kt										
17	Implied emission factor											
18	CO_2	t/TJ										
19	CH_4	kg/TJ										
20	N_2O	kg/TJ										
21	Documentation box											

Facilitating time-series consistency
(EFs, method, related parameters)

A category (1.A.4.c.i. Stationary – Liquid fuels)

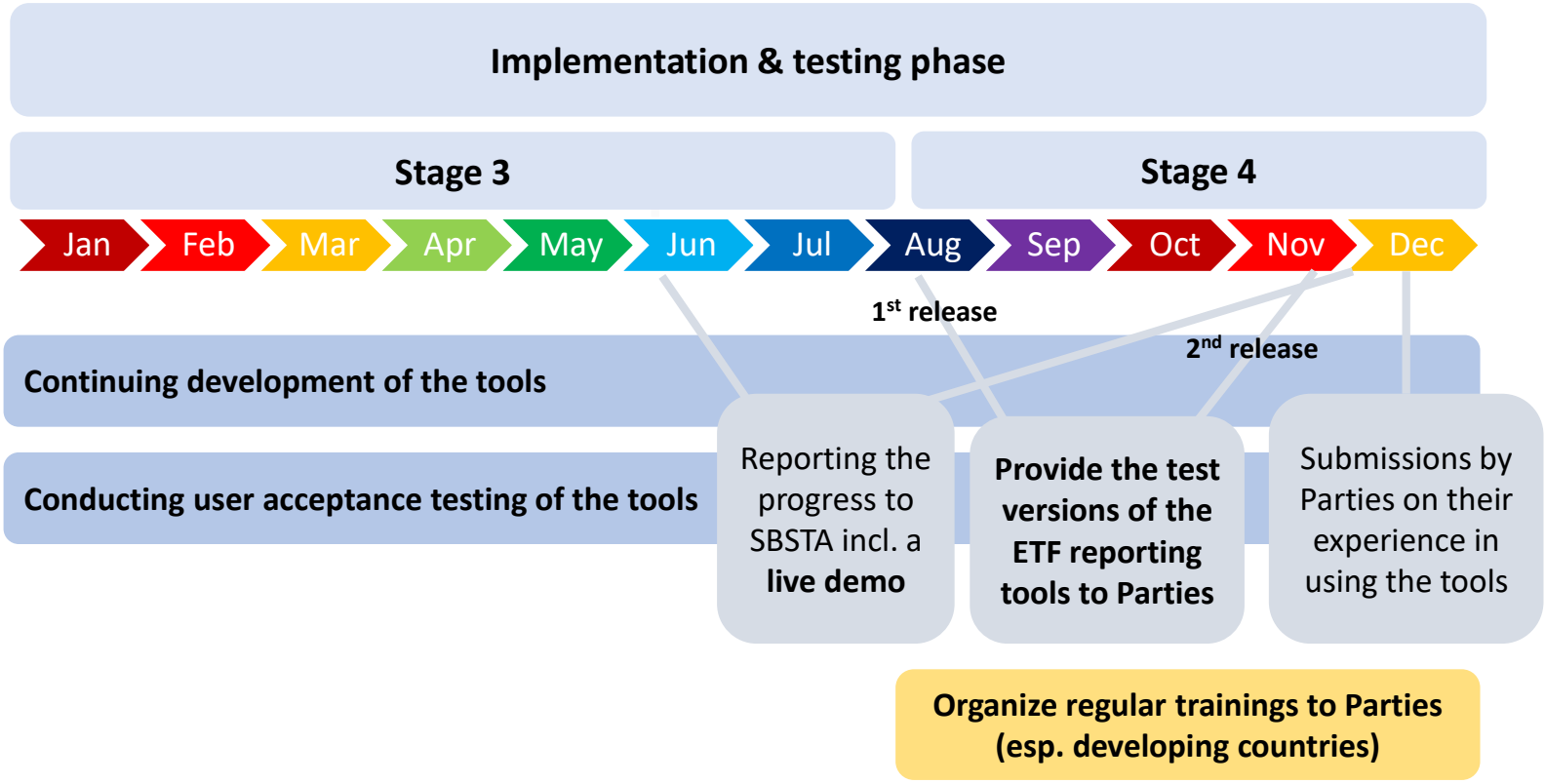
How about the schedule of ETF | GHG Inventory Reporting Tool?

United Nations
Climate Change Secretariat

Timeline

United Nations
Climate Change Secretariat

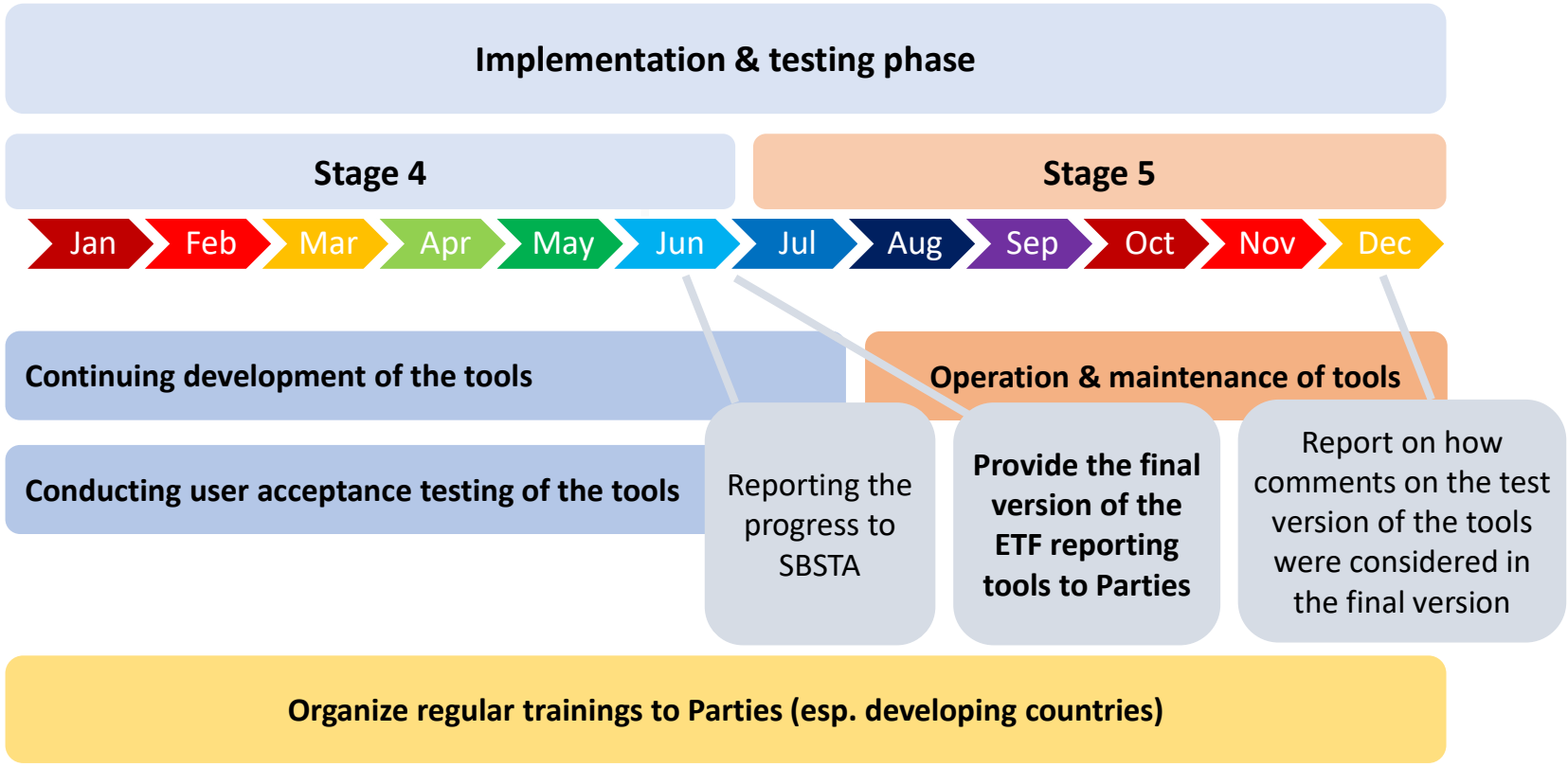
2023



Timeline

United Nations
Climate Change Secretariat

2024



Scope of the Test Version – Data/Tables/Features

United Nations
Climate Change Secretariat

GHG Inventory:

- Energy sector – all tables (12)
- Waste sector – all tables (5)

Prepare data set and data set version management (ONLY in online mode):

- Version settings

Navigation tree (full navigation tree, ONLY scoped data entry grids will be rendered, country specific nodes)

Data entry grids fully functional:

- Data entry: numerical values; text values; NK values; documentation box; flexibility (only FX)

Export/Import:

- Excel for entering/modifying data (data entry grids)
- JSON for integration with IPCC software and national systems (data exchange .json for Energy sector)

Generation of reporting tables as per agreed format (in Excel) for included tables

Standard functions:

- Data validation
- Automatic calculation/aggregation of values
- Auto-save (local and on server)
- Auto-copy/complete in the GHG Inventory tool (NCV/GCV, method, EF)
- Versions management with no conflict resolution: only last version is saved

Way forward

United Nations
Climate Change Secretariat

- **Continuing the IT development** of the back-end solution and UI/UX design
- **Continuing the work with IPCC** for finalizing the mapping between 2006 IPCC GLs and CRT and for the interoperability with IPCC Software
- Completing the **test version of the new reporting tools – release on 15 August**
- Preparing the organization of **technical training workshops**
- Initiating **preparatory work** on the new **ETF review tools and Data Warehouse** project
- Continuing to engage with Parties and donors for **providing sufficient resources** for completing the development of the tools and conducting training workshops

Thank you!

United Nations
Climate Change Secretariat