CBIT-GSP
CLIMATE TRANSPARENCY

Capacity Building Initiative for Transparency - Global Support Programme (CBIT-GSP) : Asia Region

Common Reporting Tables

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UN environment programme | copenhagen climate centre

gef UN environment programme

Common Reporting Tables (CRT)

- Prepared for the electronic reporting of information in the NIR of anthropogenic emissions by sources and removals sinks of GHGs
- Set of MS Excel workbook (containing 60 worksheets) for each reported year
- There are three types of table for each year
  - Sectoral Background Tables (white/orange cells) – Need to fill data at this layer
  - Sectoral Report Tables (green cells) – Automatically generated
  - Summary Tables/Cross-sectoral Tables (blue cells) – Automatically generated

Sectoral Background Tables

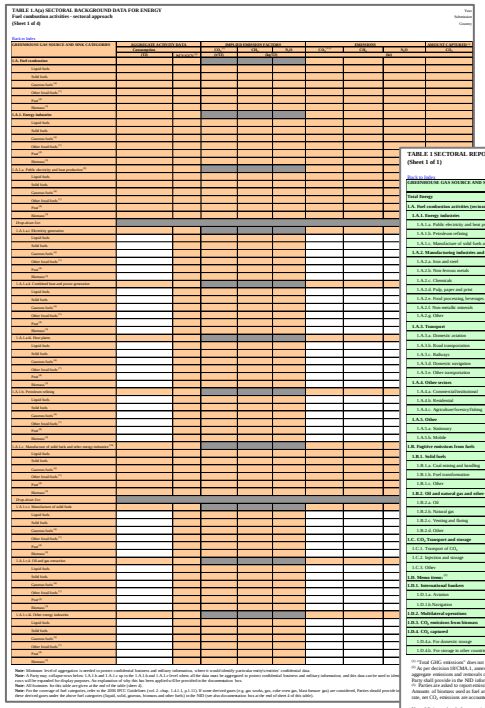


TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel combustion activities - sectoral approach
(Sheet 1 of 4)

Sectoral Summary Tables

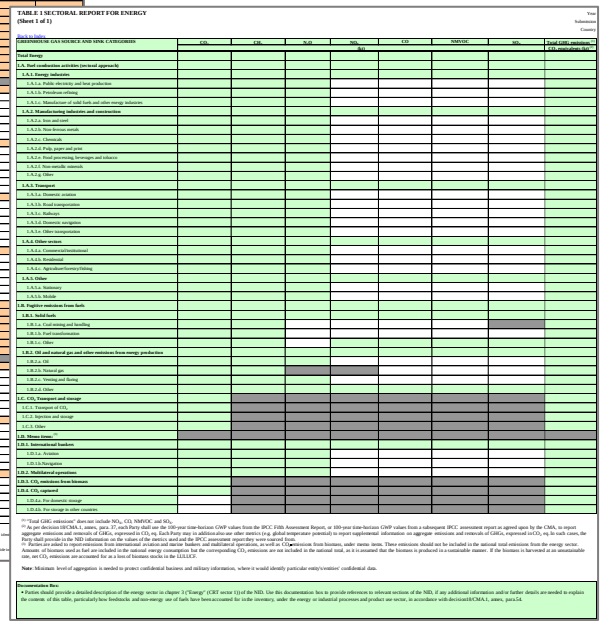
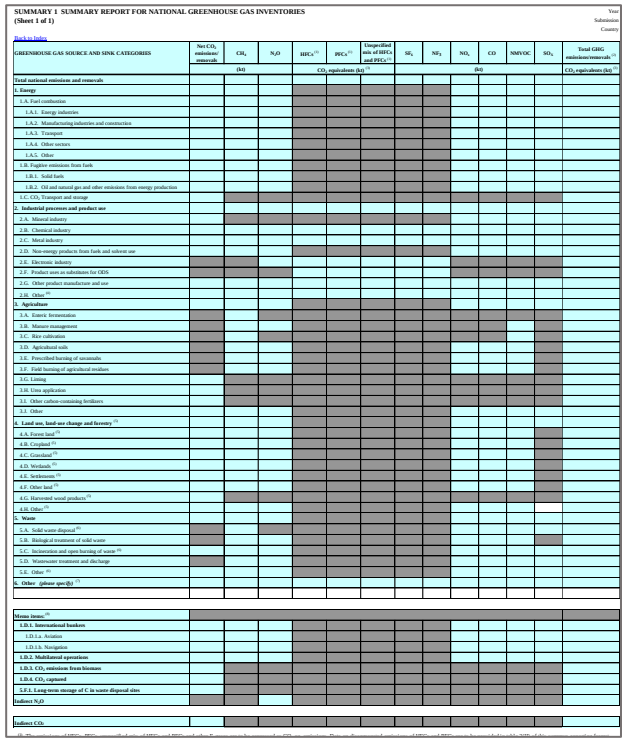


TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 1)

Overall Inventory Summary Tables, Summary Tables by Gas


SUMMARY 1 SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES
(Sheet 1 of 1)

Cross-cutting Tables (Method Notations, Key Category Analysis, Recalculations and Completeness)

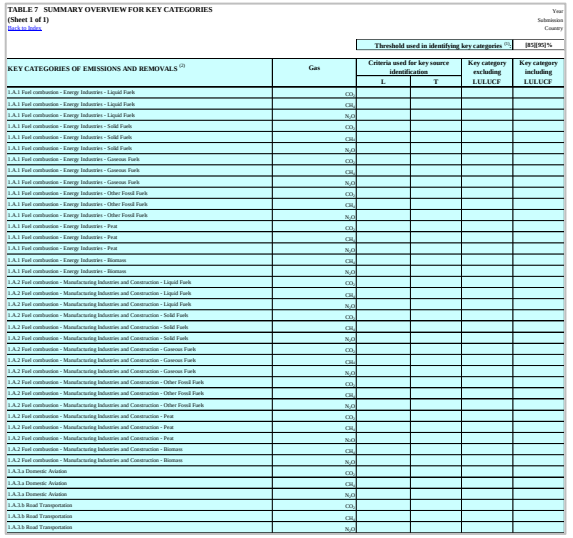
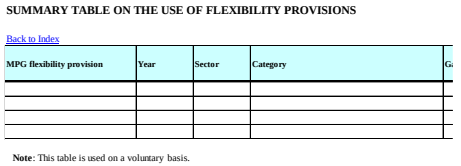


TABLE 7 SUMMARY OVERVIEW FOR KEY CATEGORIES
(Sheet 1 of 1)

Flexibility Summary (voluntary)


SUMMARY TABLE ON THE USE OF FLEXIBILITY PROVISIONS

MPG flexibility provision	Year	Sector	Category	G

Note: This table is used on a voluntary basis.

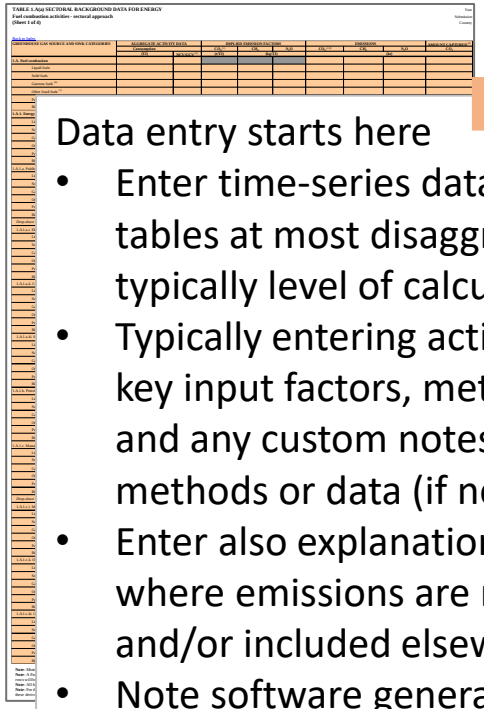
Demystifying CRTs

There are so many tables! Do I need to fill out the full set of tables manually for each year?

Yes, but the tables reflect the composition of a greenhouse gas inventory. Fortunately, no, you do not need to fill out the full set of tables manually and there are tools to help. We'll get to that in a few minutes. You will need to enter category-level, and in some cases subcategory-level background data which is typically at the calculation level. Based on this, the ETF reporting tool will auto populate most of the summary and cross cutting tables. While not a calculation too, the ETF Reporting tool is an aggregation/analysis tool. The agreed formatted CRTs (i.e., one set for each reported year) can be exported from the ETF reporting tools. Let's get a better understanding of what you do have to enter.

CRT Data Flow

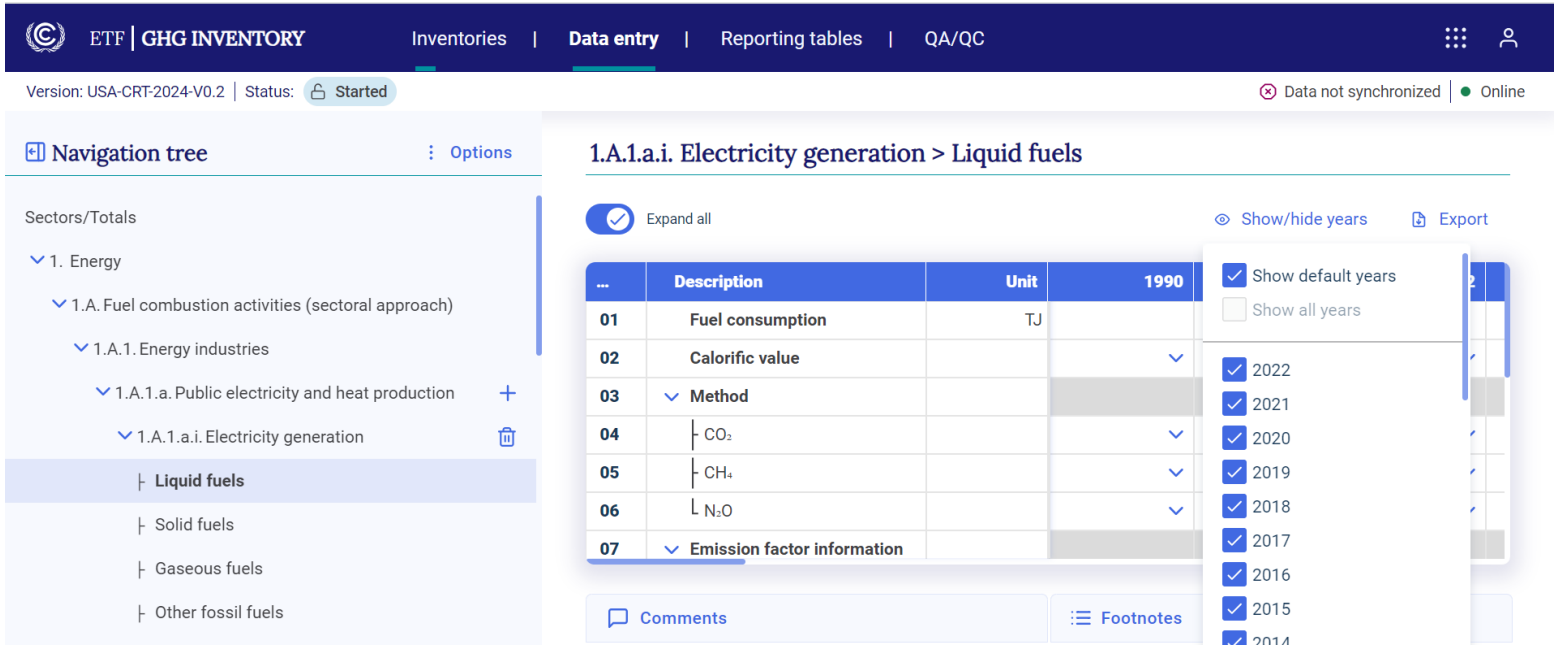
Sectoral Background Tables



Data entry starts here

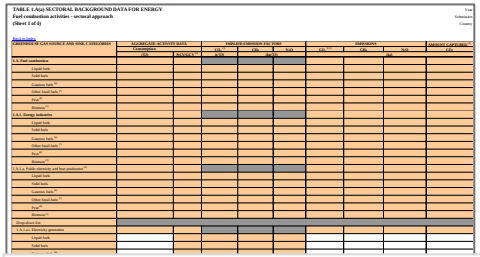
- Enter time-series data in background tables at most disaggregated level, typically level of calculation
- Typically entering activity data or other key input factors, method/EF notations, and any custom notes relevant to methods or data (if needed)
- Enter also explanations for categories where emissions are not estimated (NE) and/or included elsewhere (IE)
- Note software generates implied emission factors
- White cells in output tables reflect data entry points
- Color shaded cells are auto populated based on white cell entry
- Grey shade means not applicable to category/subcategory

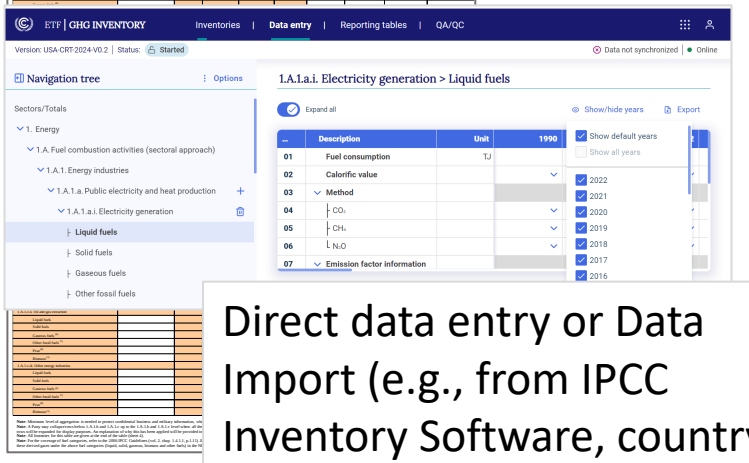
Note the set of sectoral background CRTs we see is generated by ETF Reporting Tool. The reporting tool allows direct entry or data import of time series background data(and data import/export at all levels). See example entry screen for electricity generation. Similar to output tables, data entry points are shaded white. ETF tool allows preview of output table.



CRT Data Flow Cont.

Sectoral Background Tables

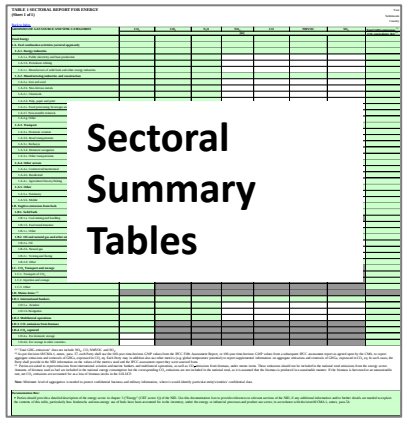




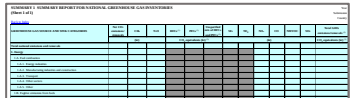
Direct data entry or Data Import (e.g., from IPCC Inventory Software, country specific system, xlsx import)

Auto populates

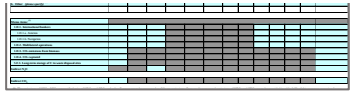
- Sectoral summary tables
- Inventory Summary tables by sector, gas
- Cross-cutting tables
  - key category analysis
  - Recalculations
  - Methods Summary

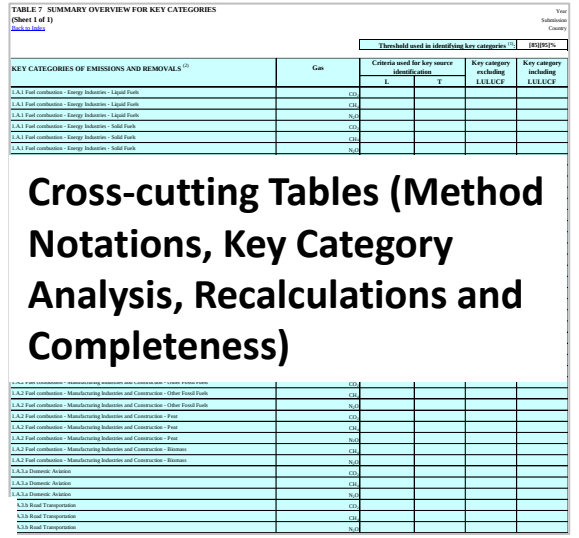


Sectoral Summary Tables

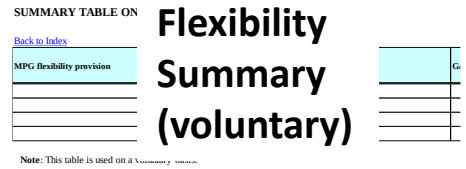


Overall Inventory Summary Tables, Summary Tables by Gas





Cross-cutting Tables (Method Notations, Key Category Analysis, Recalculations and Completeness)



Flexibility Summary (voluntary)

Closer Look At Background Table

Fuel combustion activities - sectoral approach
Scroll down to 1.A.1.a.i Electricity generation

Entry is aggregate (national) data by fuel type (e.g. liquid fuels etc.), note units

- Fuel consumption by fuel type (TJ)
- Select calorific value (NCV, GCV)
- Enter method notation (D, T1, T2, etc.)
- EF notation (D, CS, etc.)
- Emissions
- Capture
- Documentation box for notes if needed

Footnotes within table provide additional information on data entry

TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY
Fuel combustion activities - sectoral approach
(Sheet 1 of 4)

Year
Submission
Country

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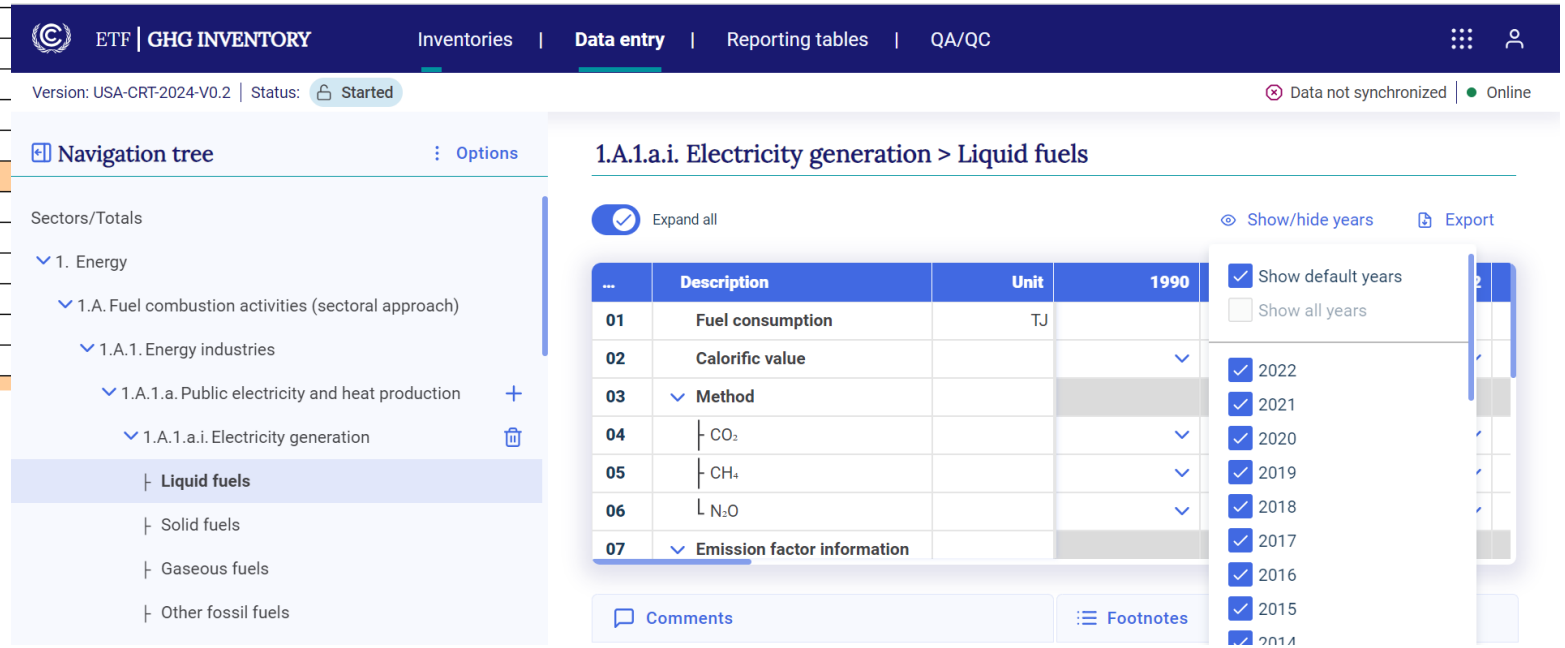
GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIVITY DATA		IMPLIED EMISSION FACTORS			EMISSIONS			AMOUNT CAPTURED [4]
	Consumption (TJ)	NCV/GCV [5]	CO_2 [1] (t/TJ)	CH_4 (kg/TJ)	N_2O (kg/TJ)	CO_2 [2,3] (kt)	CH_4 (kt)	N_2O (kt)	CO_2
1.A.1.a.i. Electricity generation									
Liquid fuels									
Solid fuels									
Gaseous fuels [6]									
Other fossil fuels [7]									
Peat [8]									
Biomass [3]									
1.A.1.a.ii. Combined heat and power generation									
Liquid fuels									
Solid fuels									
Gaseous fuels [6]									
Other fossil fuels [7]									
Peat [8]									
Biomass [3]									
1.A.1.a.iii. Heat plants									
Liquid fuels									
Solid fuels									
Gaseous fuels [6]									
Other fossil fuels [7]									
Peat [8]									
Biomass [3]									

footnote



Notation Keys - Refresher

Emissions

- "NO" (not occurring) for categories or processes, including recovery, under a particular source or sink category that do not occur within a Party;
- "NE" (not estimated) for activity data and/or emissions by sources and removals by sinks of GHGs that have not been estimated but for which a corresponding activity may occur within a Party;
- "NA" (not applicable) for activities under a given source/sink category that do occur within the Party but do not result in emissions or removals of a specific gas;
- "IE" (included elsewhere) for emissions by sources and removals by sinks of GHGs estimated but included elsewhere in the inventory instead of under the expected source/sink category;
- "C" (confidential) for emissions by sources and removals by sinks of GHGs where the reporting would involve the disclosure of confidential information.

Method

- D = IPCC Default
- T1 = Tier 1 (also includes options Tier 1a, 1b, 1c if needed per IPCC GL)
- T2 = Tier 2
- T3 = Tier 3
- CR = CORINAIR
- CS = Country-specific
- M = Model
- RA = Reference Approach
- OTH = Other
- FX = Flexibility (use as specified in MPGs)

Emission Factor (EF)

- D = IPCC Default
- CR = CORINAIR
- CS = Country-specific
- M = Model
- PS = Plant-specific
- OTH = Other
- FX = Flexibility (use as specified in MPGs)

There may be instances where for activity data, you may also need to use notation keys used for emissions.

Closer Look At Background Table (Cont.)

IPPU – Emissions of CO_2, CH_4, N_2O

Scrolling down to 2.A.1.Cement production

Entry is national production/consumption quantity

- Cement, clinker or carbonate consumed, or custom quantity
- Method notation (D, T1, T2, etc.)
- EF notation (D, CS, etc.)
- Emissions
- Recovery/Capture
- Fossil
- Biogenic
- Documentation box for notes if needed

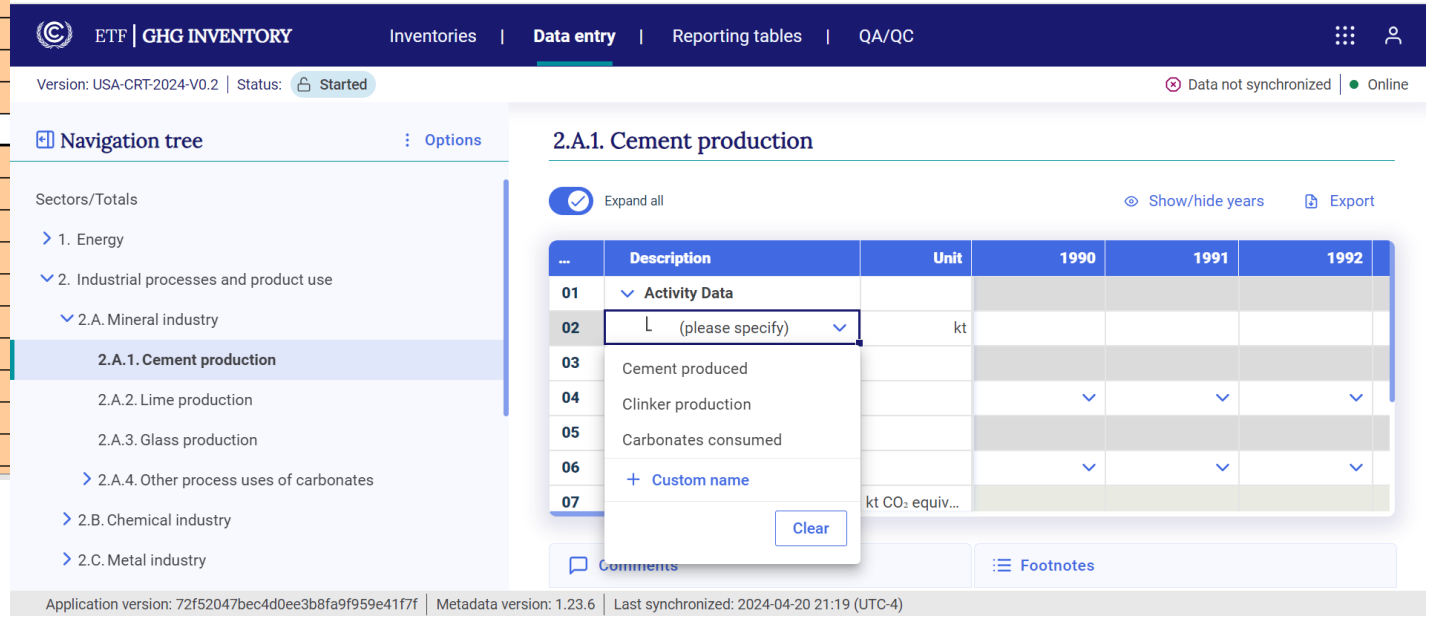
Footnotes within table provide additional information on data entry

TABLE 2(I).A-H SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES AND PRODUCT USE
Emissions of CO_2, CH_4 and N_2O
(Sheet 1 of 1)

Year
Submission
Country

Back to Index

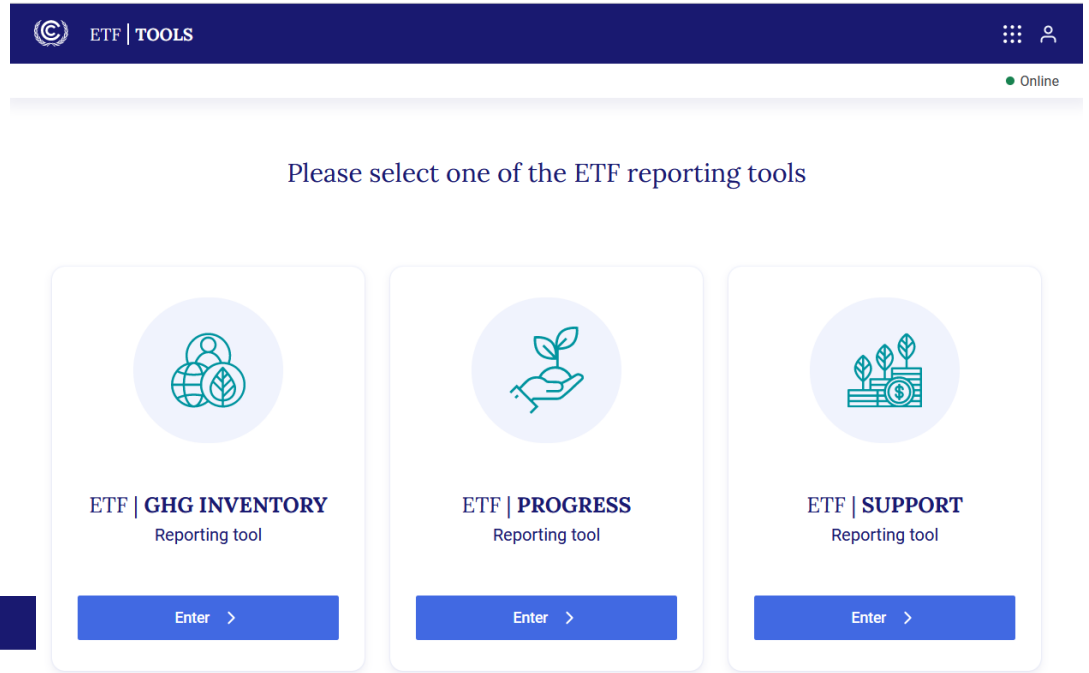
GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS (1)			EMISSIONS (2)			RECOVERY/CAPTURE (3,4)			
	Production/Consumption quantity		CO_2	CH_4	N_2O	CO_2	CH_4	N_2O	CO_2 fossil	CO_2 biogenic (6)	CH_4	N_2O
	Description (5)	(kt)	(t/t)			(kt)			(kt)			
2.A. Mineral industry												
2.A.1. Cement production	e.g. cement or clinker production)											
2.A.2. Lime production												
2.A.3. Glass production												
2.A.4. Other process uses of carbonates												
2.A.4.a. Ceramics												
2.A.4.b. Other uses of soda ash												
2.A.4.c. Non-metallurgical magnesium production												
2.A.4.d. Other *(please specify)*												
2.B. Chemical industry												
2.B.1. Ammonia production (7)												
2.B.2. Nitric acid production												
2.B.3. Adipic acid production												
2.B.4. Caprolactam, glyoxal and glyoxylic acid production												
2.B.4.a. Caprolactam												
2.B.4.b. Glyoxal												
2.B.4.c. Glyoxylic acid												
2.B.5. Carbide production												
2.B.5.a. Silicon carbide												

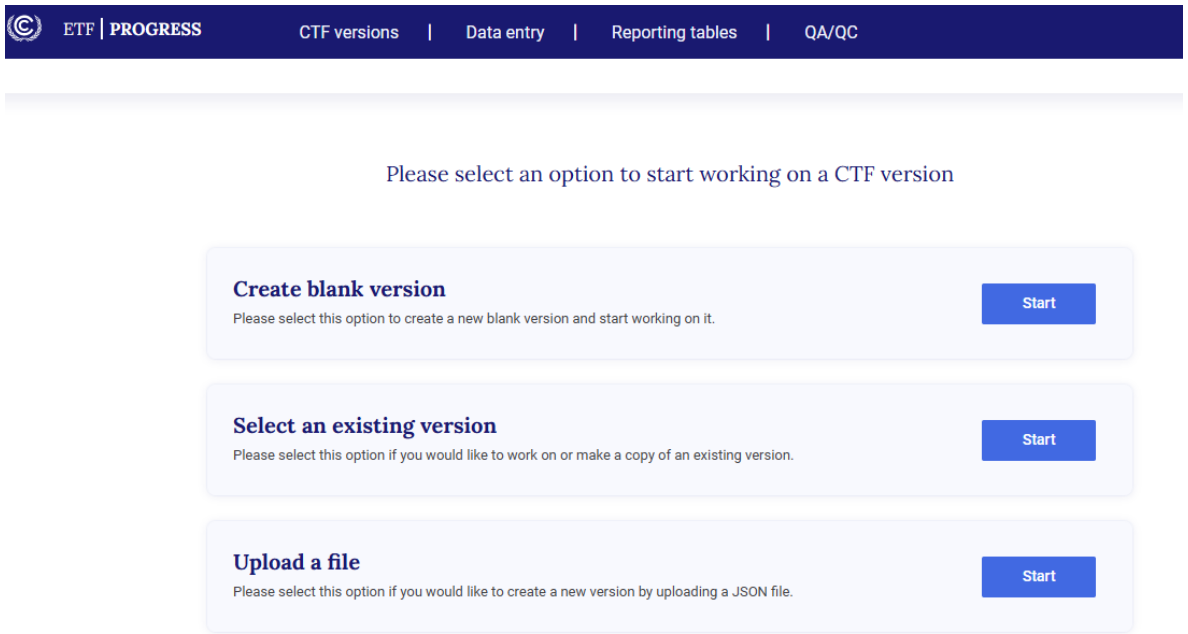


New ETF reporting tool

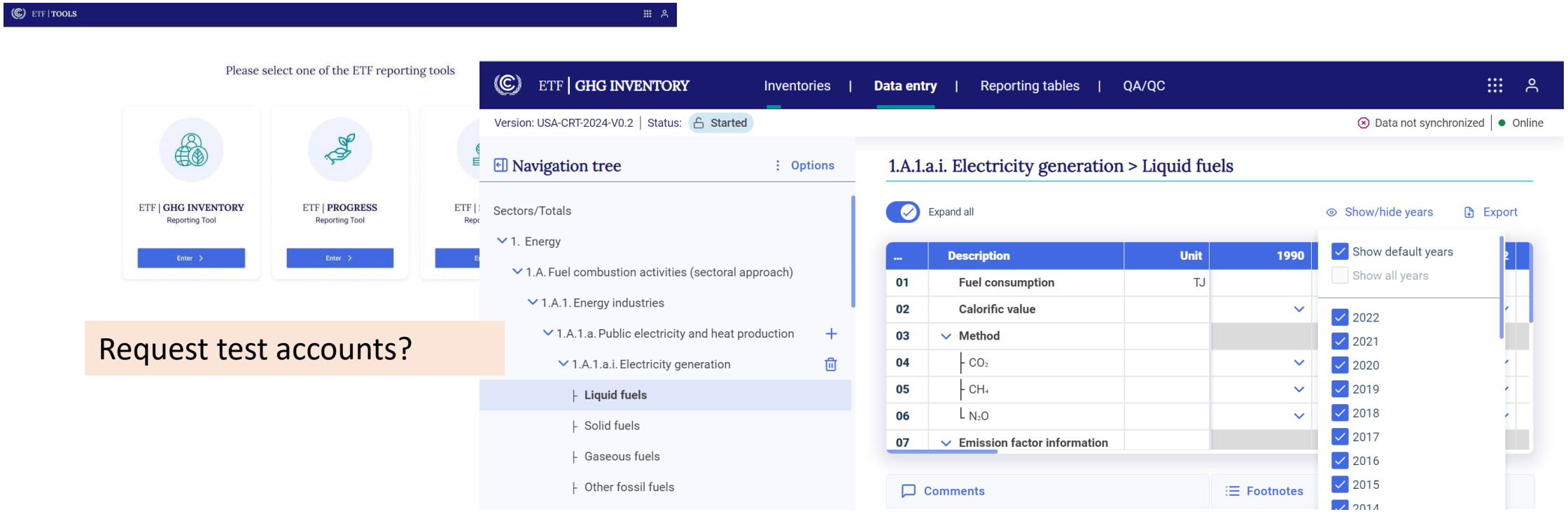
Homepage - https://apps.unfccc.int/home

Use any internet browser (e.g., Firefox, Edge, Chrome, or Safari) on your PC.





ETF Reporting Tools



Request test accounts?

https://unfccc.int/process-and-meetings/transparency-and-reporting/reporting-and-review/transparency-data-and-tools/etf-reporting-tools

Index of common reporting tables (CRT)

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Observation on CRT for BTR

1. **Table1.: NO_X , CO, NMVOC, SO_X** emission Factors neither available not yet developed in the country
2. **Table1.A(a)s1-s4: How to work with aggregate activity data, how to derive implied emission factors AMOUNT CAPTURED (CO2)** (4) **[**(4) Enter the amount of CO_2 captured as a negative number since this amount is subtracted from the total CO_2 produced.**]: Not understandable**
3. **Table1.A(b) : Col no. L and M appear to be same. Otherwise it is similar to BUR4**
4. **Table1.A(d): Col E-J need clarification.**
5. **Summary 1 : Col K to N- applicable for Energy Sector? 1.A.5. Other ?**
6. **For Energy: Summary 1 or Summary 2 or both?**
7. **Table6: Relates to compilation of reports submitted by various institutions**
8. **Table 7: Overview for key categories , elaboration needed**
9. **Table10s1-6: Need clarification- (Years 1991 to 2019) in three consecutive columns**
10. **Identification of tables towards Preparation of energy Sector inventory for Energy and Manufacturing industries**

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Thank you for your attention !

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Please reach out to us for any question, comments or suggestions!

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