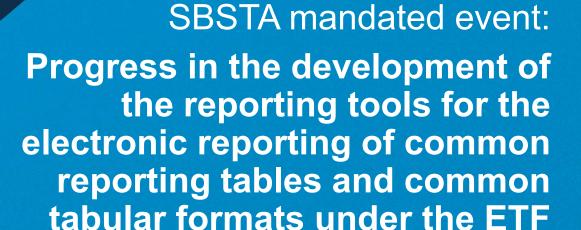
BONN CLIMATE CHANGE CONFERENCE JUNE 2023



Vlad Trusca, Manager, Transparency Division
6 June 2023, Bonn

#Together4Transparency



Mandates



Requested SBSTA to develop, pursuant to the MPGs:

- common reporting tables (CRT) for the electronic reporting of info on GHG emissions
- common tabular formats (CTFs) for the electronic reporting of info on tracking progress in achieving NDCs and of info on financial, technology development/transfer and capacity-building (FTC) support

Decision 18/CMA.1

Adopted:

- **CRT** for the electronic reporting of the info in the national inventory reports of **GHG emissions**
- CTF for the electronic reporting of the info on tracking progress in achieving NDCs
- CTF for the electronic reporting of the info on FTC support

Decision 5/CMA.3

Requested the secretariat to:

- Develop the reporting tools, taking into account the flexibility provisions
- Make available a test version by June 2023 and a final version of the tools by June 2024 (timely availability of sufficient financial resources)
- Inform Parties on the progress at SBSTA sessions
- Organize regular technical training workshops
- Prepare a report on how the inputs of Parties on the test version have been considered
- Facilitate interoperability with the IPCC inventory software and invite IPCC to engage in the work incl. by completing a mapping exercise between 2006 IPCC GLs and CRT
- Establish an interactive web portal by Dec. 2025 to facilitate the availability of FTC support info

Decision 5/CMA.3

Implementation approach – IT project





Assumptions



- Parties submit the mandatory information and data in the formats agreed comprehensive analysis,
 comparison, and assessment of progress feed info into the GST and NDC cycles
- Complex IT project covering the development of 3 new reporting tools built using a common framework:
 - **ETF GHG Inventory Reporting Tool** = CRT (Common Reporting Tables for GHG emissions)
 - ETF Progress Reporting Tool = CTF NDC (Common Tabular Format for tracking progress in achieving NDC)
 - ETF Support Reporting Tool = CTF FTC (Common Tabular Format on finance, tech. and CB support)
- UNFCCC institutional knowledge and experience (CRF Reporter, BR CTF, etc.) & Parties/experts views
- New tools require additional skills, expertise and coordination, apart from solving countless technical aspects
- Complexity:
 - All Parties, incl. ~150 developing countries; 3,000+ users
 - Online/offline; flexibility provisions
 - Interoperability with IPCC software
 - Timing & Funding

Technology



ETF reporting tools - meeting all requirements from Parties - advanced functionalities & a compliance platform working in both developed and developing countries by building on:

- Totally new technical framework designed for reliability, security, and durability
- Open standards and open-source technologies viable on long-term like HTML, JavaScript and .NET.
- Native Azure cloud platform providing enterprise grade information security, scalability, and resiliency
- Intuitive, accessible, discoverable User Interface design using UN Disability Inclusion Strategy
- Progressive web apps (PWAs) working in offline mode (operate in absence of an internet connection)
 and automatically synchronise data when connection is restored
- Real-time collaborative editing multiple users within a Party can work concurrently on the same submission and see live changes to the data

Complexity



Elevated level of complexity - dependencies among the modular building blocks

IT architecture - interconnected and inter-dependent technical engines:

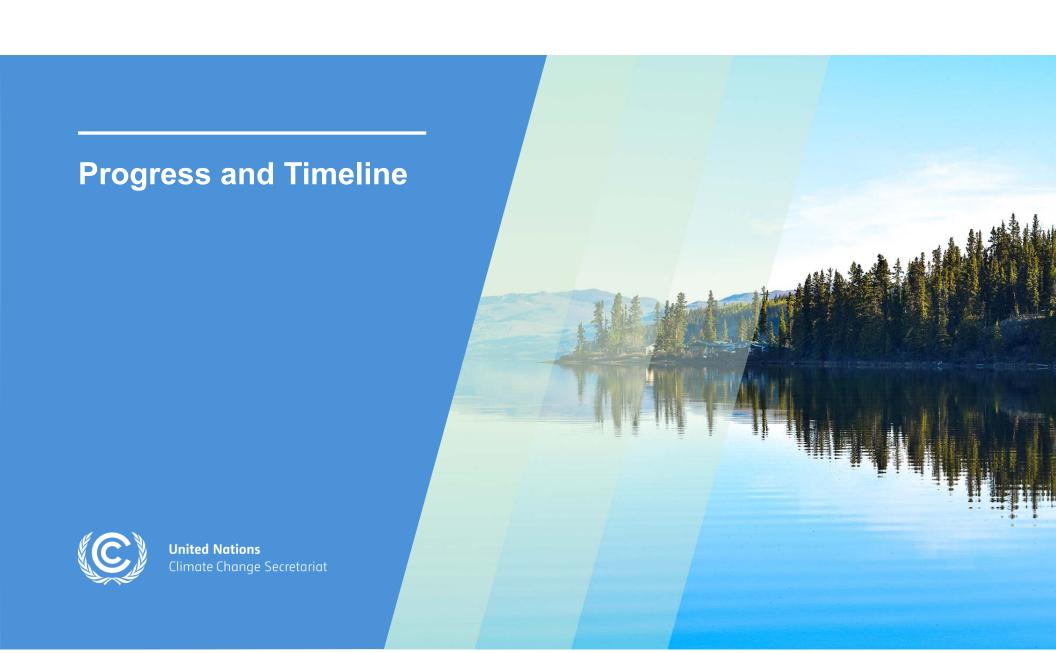
- Rendering engine: render and input data, providing an accessible, user friendly, streamlined interface
- Validation engine: validation services (defined by metadata) in browser and server-side
- <u>Calculation engine</u>: data calculation services (defined by metadata) in browser and server-side
- Metadata engine: dynamically structure and validate data following a metadata schema (CMA decisions)
- Import/export engine: import/export data drafts across client and server, including a compatibility layer with the IPCC Inventory software
- Reporting engine: generate the agreed reporting tables in Excel based on the data entered
- Storage engine: offline structured storage for applications using browser Web Storage facilities

User management and authentication reuse standard UNFCCC services

Interoperability with IPCC software



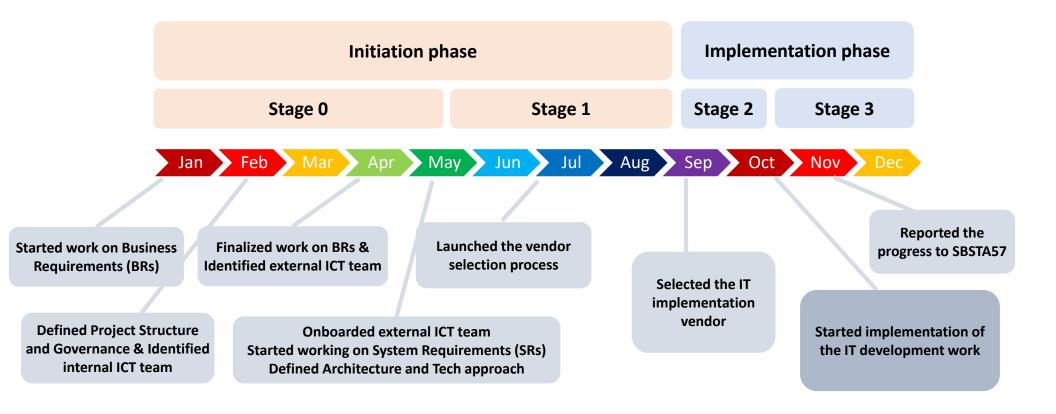
- Mandate (decision 5/CMA.3) UNFCCC cooperates with IPCC to facilitate interoperability between the ETF reporting tools and the IPCC inventory software
 - Some Parties use IPCC Inventory Software to estimate GHG emissions following 2006 IPCC Guidelines
 - Produce a file that could be read and imported by the ETF GHG Inventory Reporting Tool
- Current work:
 - Continuing the development of the IPCC Inventory Software and ETF GHG Inventory Reporting Tool
 - Cell-by-cell mapping between IPCC Inventory Software and ETF GHG Inventory Reporting Tool
 - Generate JSON file in the IPCC Inventory Software for importing it to ETF GHG Inventory Reporting Tool
- Multiple releases of IPCC Inventory Software are expected before COP28, and to June 2024



Timeline

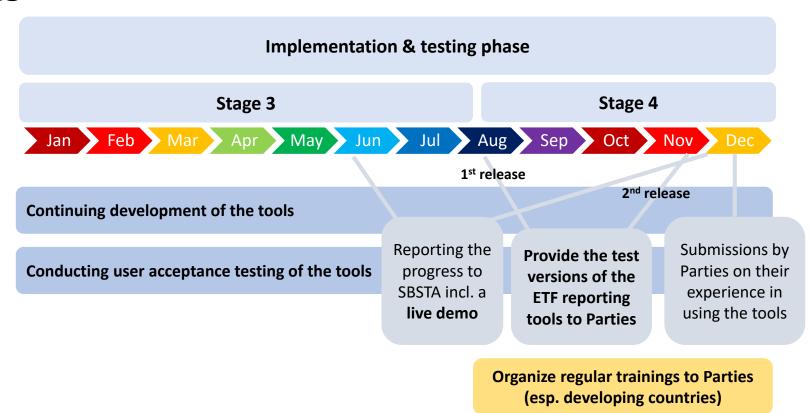


2022



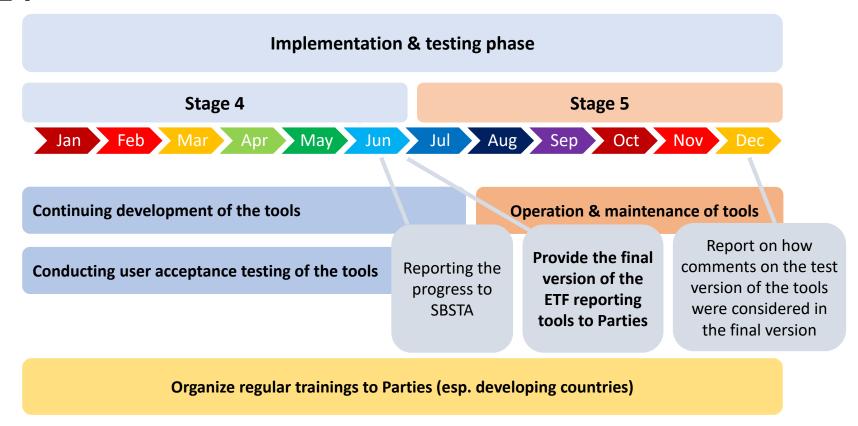


2023





2024



ETF Tools – preview

Live demo event 14 June, 1-2 pm. Room Nairobi



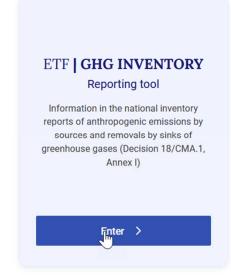


User Interface - ETF reporting tools



© ETF | TOOLS

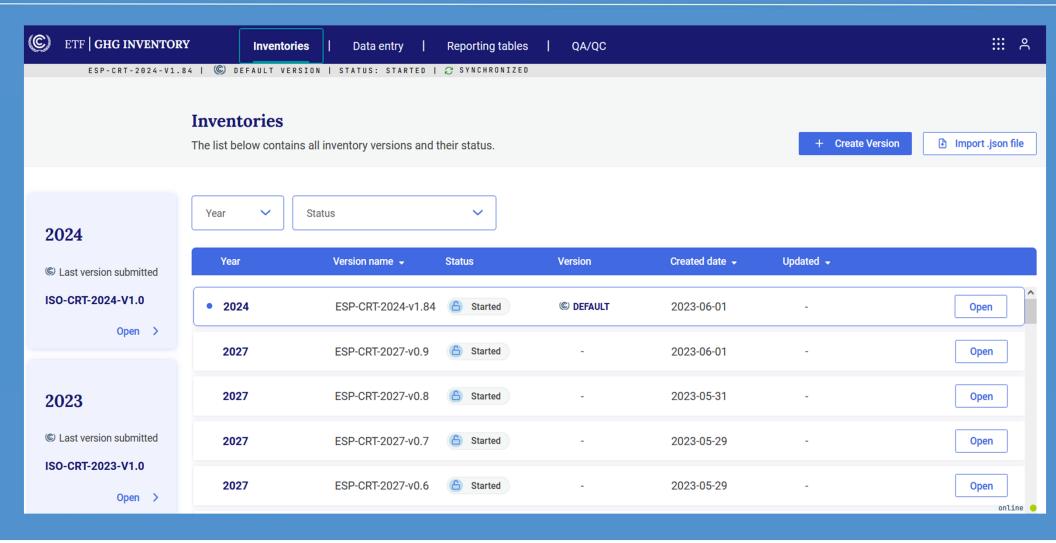
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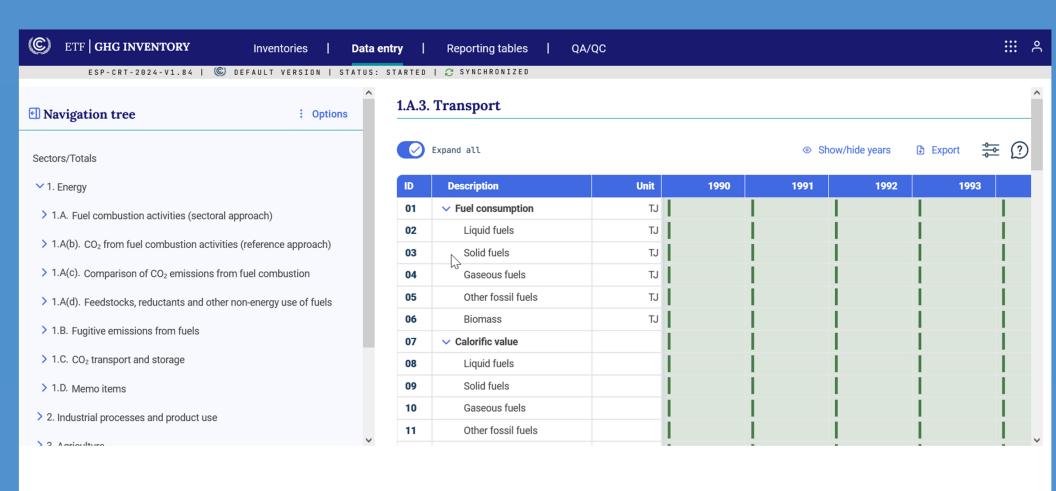




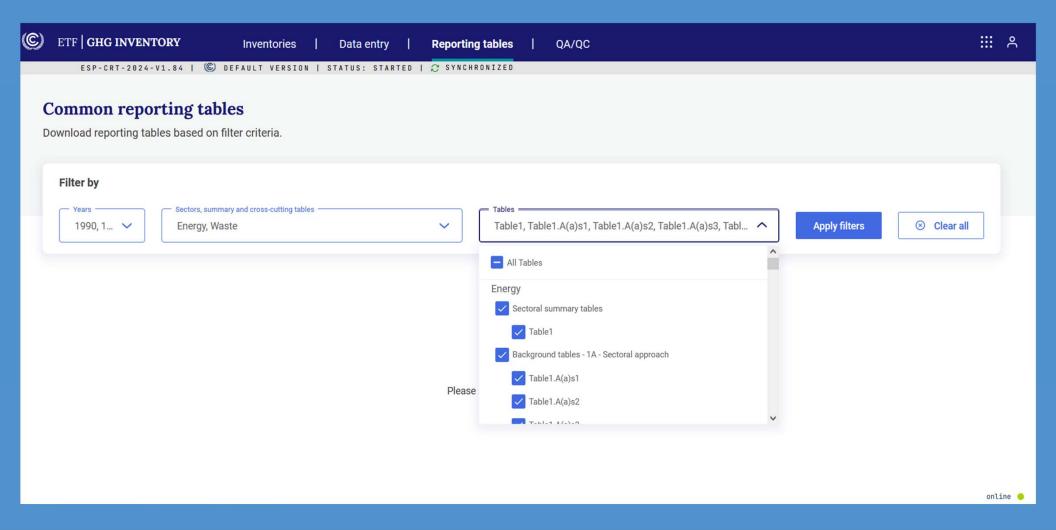
User Interface – GHG Inventory



User Interface – GHG Inventory



User Interface – GHG Inventory



User Interface - ETF reporting tools



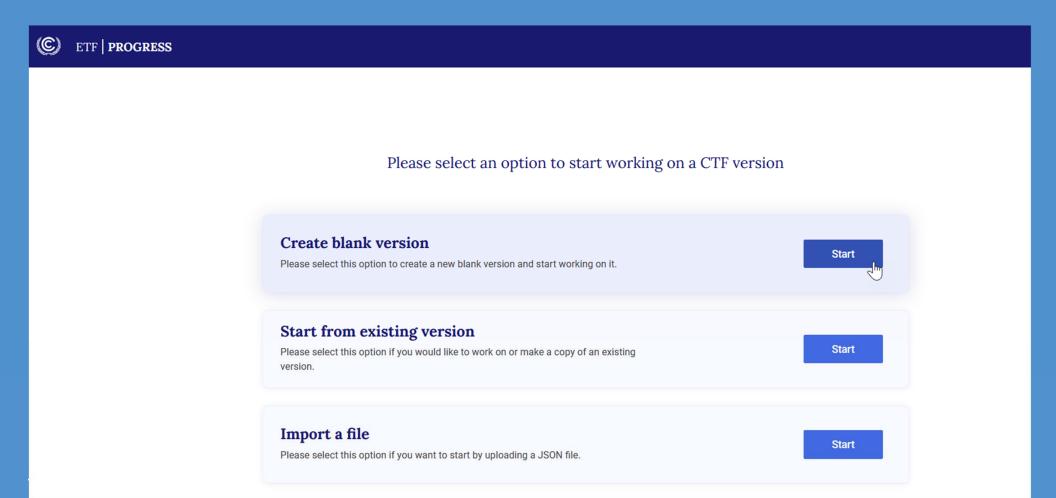
ETF | TOOLS

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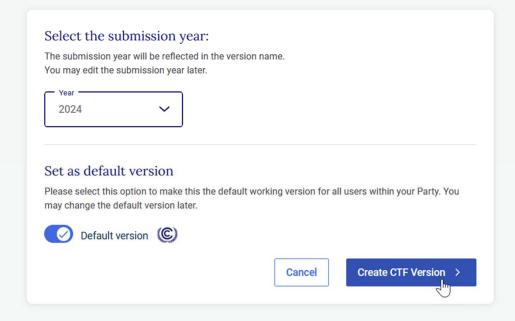


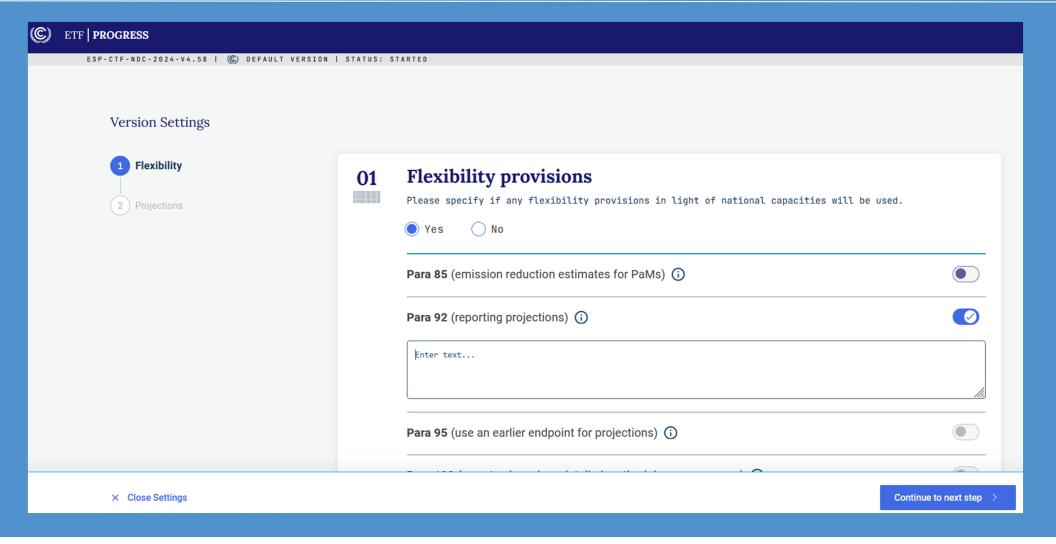


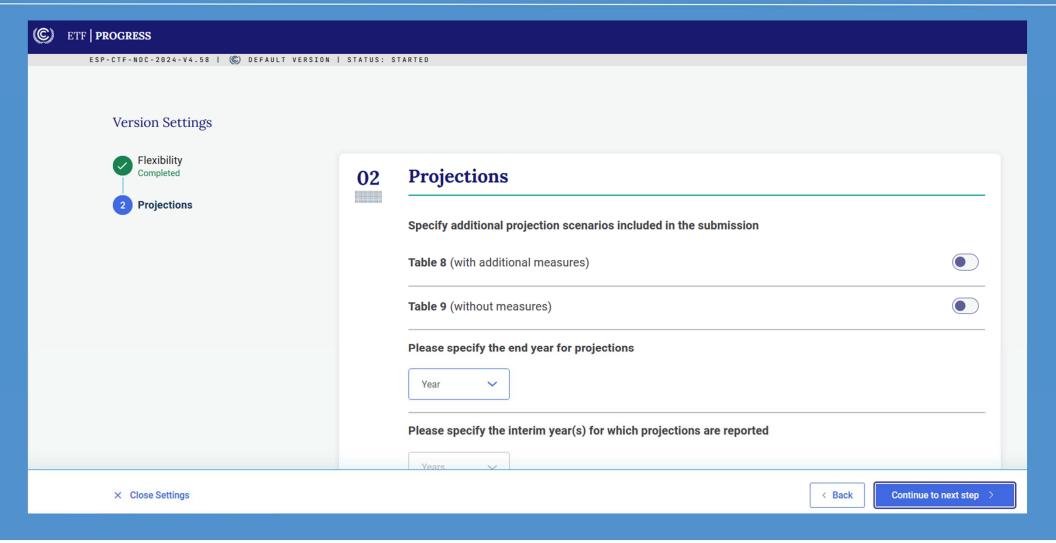


ETF | PROGRESS

Please select year and version type to start working on a CTF version







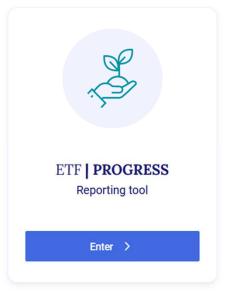
User Interface - ETF reporting tools



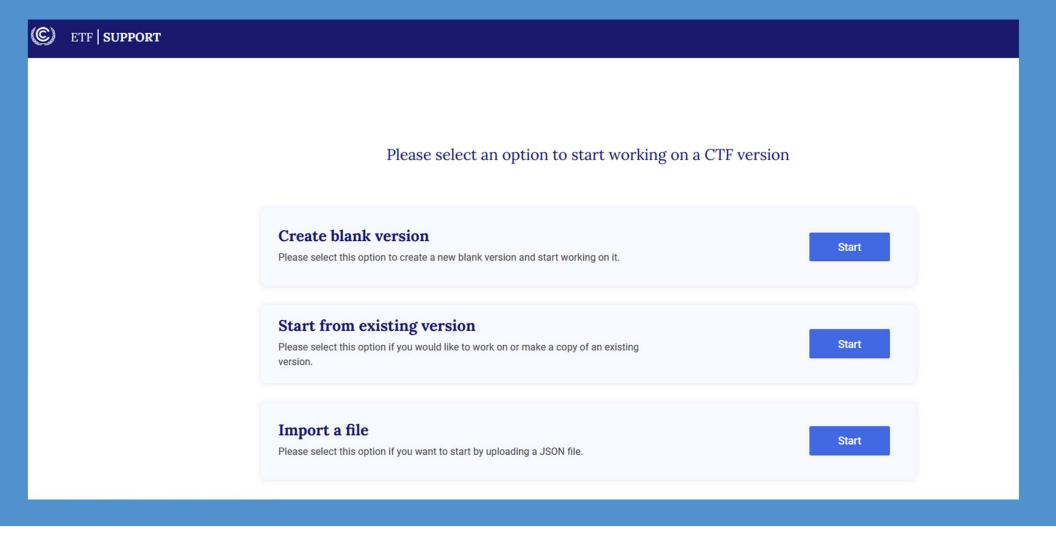
© ETF | TOOLS

Please select one of the ETF reporting tools





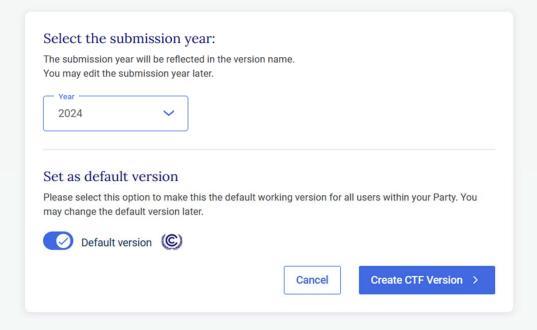


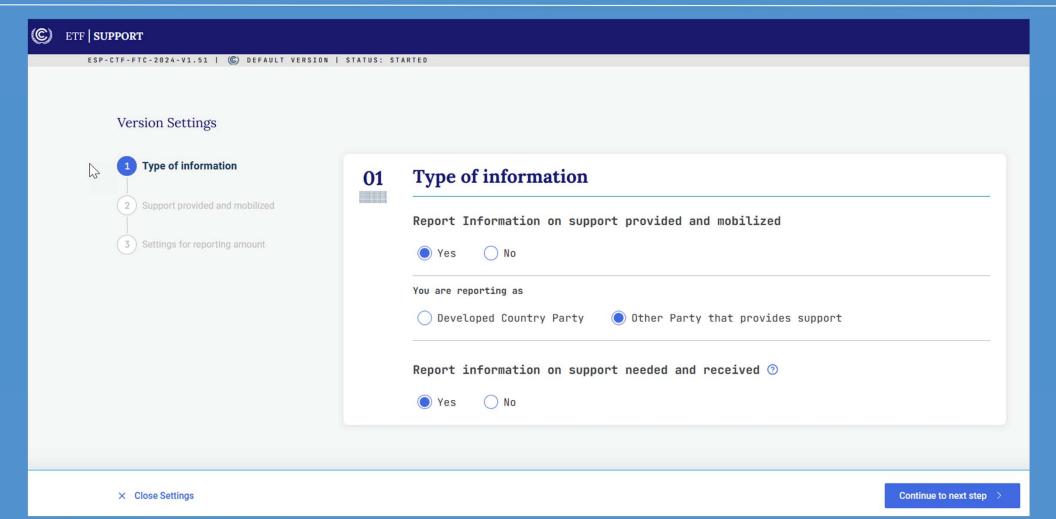


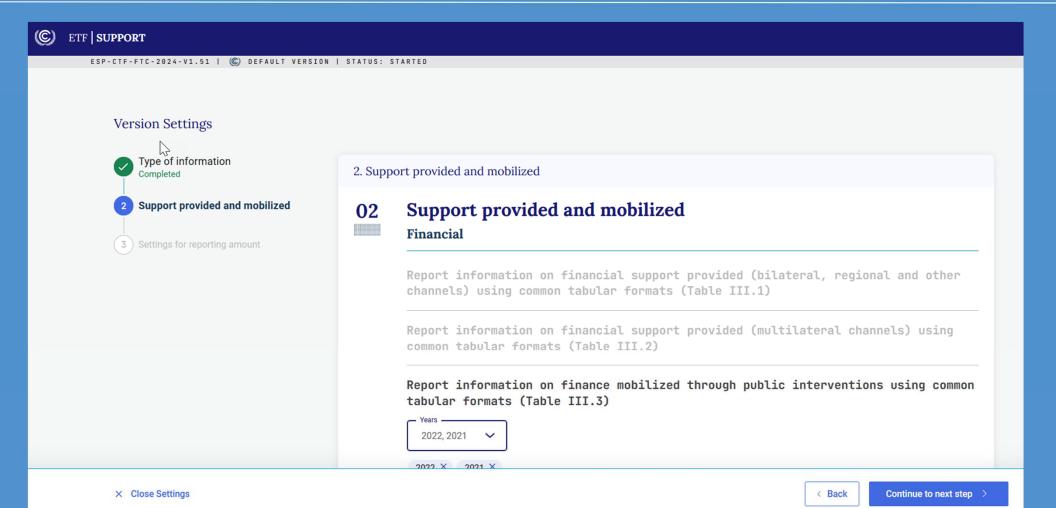


ETF | SUPPORT

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Next Steps





Test version deployment



- By 1 July All Parties (NFP) receive instructions to nominate 3 users deadline 31 July
- 15 August deployment of the test version of ETF tools & assign 3 users to each Party
- Sep-Nov hands-on trainings for experts on using the new ETF reporting tools
- mid November second release of the test version of ETF tools (to be presented at COP 28)
- User support link to quick-start guide (screen shots, guidance, etc.) & email for user access problems
- Submission of views and feedback officially via the submission portal by December 2023

Scope of the Test Version – Data/Tables



GHG Inventory:

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

ETF Progress:

- Mitigation policies and measures, actions and plans Table 5
- Information on projections of greenhouse gas emissions and removals:
 - Table 7 (with measures)
 - Table 8 (with additional measures)
 - Table 9 (without measures)
- Key underlying assumptions and parameters used for projections Table 11

ETF Support:

- Financial support mobilized through public interventions Table III.3
- Support needed: Financial Table III.6
- Support received: Financial Table III.7

Scope of the Test Version – Functionalities (incl. offline)



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

Version settings, incl. flexibility (for selected tables)

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

Trainings



Trainings to be provided during Regional Climate Weeks:

- Africa (ACW): Nairobi, Kenya, 4-8 September
- Middle East & North Africa (MENACW): Riyadh, Saudi Arabia, 9-12 October
- Latin America & the Caribbean (LACCW): Panama City, Panama, 23-27 October
- Asia-Pacific (APCW): Johor, Malaysia, date TBC

Parties should strive to send the Transparency experts to these events for hands-on training

Considering other events for Sep-Nov 2023 (regional WS, meetings) & dedicated space at COP 28

Funding needed for dedicated training events in 2024

Funding



IT project - impacted by complexity, challenging deadlines and limited financial resources

Parties pledged their support in Glasgow – unfortunately, we have not received sufficient funds

Total requirements: around 12 million EUR (by June 2024)

- Jan. 2022 May 2023: 3.5 mil. EUR spent
- Jul. 2023: 2 mil. EUR urgently needed for preparing the test version
- Sep. 2023: 3 mil. EUR needed for the work until the end of 2023
- Jan. 2024: 3.5 mil. EUR needed for developing the final version

Supplementary project for providing funding – SB 300-004 /# SB-014980/"Development of the information hub and related reporting and review systems and tools used under the ETF"



- 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 <u>providing sufficient resources</u> for completing the development of the tools and conducting training workshops

Thank you!



