

Demonstration of Interoperability between IPCC Inventory Software and UNFCCC ETF Reporting Tool for GHG Inventory

Baku, Azerbaijan IPCC TFI TSU



INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

Session



Data import via XML – demonstration and exercise

Demonstration Interoperability in IPCC Software

Exercises – your turn

Hands-on demonstration of interoperability in ETF Reporting Tool





Data import via XML





Preparing GHGI Team to Start Work

A single database is shared on an intranet



Preferable: all NGHGI data can be shared in real time, including information necessary for the CRT Note that sharing the database with

- Microsoft Sharepoint will not allow users to access it
- Googledrive may cause data losses
- Microsoft SQL Server cannot be used with current version of the *Software*

Sector compilers share work via XML



Note: Approach requires the coordinator to compile additional explanatory information for the CRT after XML import, working with sector experts, as necessary



XML Import/Export

Export/Import Reports Window Help Export Import Worksheet Data CO2 Equivalents

- Export and import limited to current and open inventory year only make sure year's match!!
- Export/import must be between same versions of the database and same country code
 - This country list is based on the <u>UN list</u>. In addition, the user may select "World" as a country, in which case all defaults will appear in the relevant dropdowns
 - Note on Interoperability: "World" is not read by UNFCCC ETF Reporting Tool

From main menu, select export/import. Opens a dialog box that

allows exporting / importing one or more categories of current

inventory year in XML format.

• Country selection applies to database, not Software; Software can manage databases of different countries

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• When importing information for a category, all subdivisions in that category will be overwritten





Exercise: Import XML files

1. Import the XML file for 2015 : File name = Interoperability exercise_2015_XML Remember!! Be sure that inventory year 2015 is open!

- Review after import, you should see data for IPCC categories 1.A.1.a.i (Electricity generation), 2.A.1 (Cement Production), 2.C.1 (Iron and steel production) and 2.F.1.a (Refrigeration and Air Conditioning)
- What do you notice about the worksheet for 2.F.1.a? How is it different than the other categories after import?



1. Import "Interoperability exercise_2022_XML"

See Section **Export/Import Menu** of the Software Manual in PowerPoint

If you don't have 2015 or 2022 in the Main Menu under Inventory Year / Choose, then see how to create a new inventory year in Section <u>First Run</u> of the Software Manual in PowerPoint

006 IPCC Categories 👘 👻 🗣	F-Gas Emission	F-Gas Parameters	- Tier 2 F-Gas Em	issions - Tier 2a	F-Gas Emis	sions - Tier 2b								
	Worksheet													2015
	Sector:													2015
	Category:	Product Uses as Su		epleting Substan										
A.1.a - Main Activity Electricit	Subcategory:	Z.F. I.a - Ketngerati		Londitioning										
	Sheet:	HFC-23 (CHF3) Em												
- 1.A.1.a.ii - Combined Heat	Data													
- 1.A.1.a.iii - Heat Plants	Subdivision	Unspecified_1	Gas HFC-	-23 (CHF3)		Chemical's Data								
A.1.b - Petroleum Refining A.1.c - Manufacture of Solid F	Intro Year	2000 Growth	Rate (%) 3	Lifetime (d) (years) 15	EF (%) 15	Destroyed (%)							
- 1.A.1.c.i - Manufacture of S														
- 1.A.1.c.ii - Other Energy Ind														
 Manufacturing Industries an 														
A.2.a - Iron and Steel														
A.2.b - Non-Ferrous Metals									(tonnes)	(tonnes)				
A.2.c - Chemicals				(tonn			(tonnes)							
A.2.d - Pulp, Paper and Print				no	TZA	ration	an	n H2	nne	-()n				
A.2.e - Food Processing, Bev			DCI			ιαισπ		u 11a	IIUJ'					
A.2.f - Non-Metallic Minerals			EX E IM	Im	IS nee	ded(t-d)) (destroyed/100) -0 = K - F	- 1	1 = M · E-/100	E = (3++1				
A.2.g - Transport Equipment														
A.2.h - Machinery				ТПТ				5 5 5	1 35					1
A.2.i - Mining (excluding fuels	2001			7		NGIAN		10.96.21						
A.2.j - Wood and wood produ				7.19		0	0	15.43536						
A.2.k - Construction				7.35					3.4178					
A.2.I - Textile and Leather	2003			7.52		DIOLA		TTMA	C (2) 02212					
A.2.m - Non-specified Industr	2004			7.69				ILVVC	4 59166					
- Transport	2005													
A.3.a - Civil Aviation	2000													
1 A 2 a iii Demostia Aviatia	2007													
- I.A.3.a.II - Domestic Aviatio	2008													
A.3.D - Road Transportation	2009													
P I.A.3.D.I - Cars	2010													
1 A 2 b i 2 - Passenger	2011													
- 1ACS.D.1.2 - Passenger	2012													
- 1 A 3 b ii 1 - Light-duby trocks	2013													
1 A 3 b ii 2 - Light-duty t	2014									7.95792	7.64873			
	▶ 2015											2.04208		3 6 2
- 1 A 3 hiv - Motorcycles	2016													
- 1 A 3 b v - Evaporative emi	2017													
- 1 A 3 b vi - Urea-based cata	2018													
	2019													
	2020													
lorksheet notes 🚽 🖓	2021					2.79509	0 2.7950		4.53277					
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Objectives

You have learned how to create your GHG Inventory. Goal of this section is to demonstrate how to prepare your file for upload to the UNFCCC ETF Reporting Tool for GHG Inventory.

- 1. Demonstration
- 2. Your turnExercises
- 3. If you need help, see referenced slides of IPCC Inventory Software PowerPoint Manual or ask one of us!



Highlights of Demo

• **Create CRT Data Set** – First step in preparing the CRTs. Will compile information AD and emissions information from the underlying IPCC Inventory Software worksheets for selected year(s). Will allow you to see how data will map to CRT!

- Open and review visualized CRT, provide additional information for CRT
 - Apply changes to single year or multiple years
 - How to change notation keys
 - How to provide notation key explanations for CRT9
 - How to provide method and EF information for Summary 3
 - How to provide information for documentation boxes
 - How do designate information as confidential
 - Update AD, if necessary, where multiple tiers used









Highlights of Demo

- Correct user errors and generate JSON file for upload to UNFCCC –
 - Return to underlying worksheets, make a change and regenerate CRT
 - Generate IPCC JSON

	Sector (All)	~				cre	eated	
August 2024	Tables					м		
	 Summary1 Summary2 Table1 Table1.A(a)s1 Table1.A(a)s2 	 Table 1.A(b) Table 1.A(c) Table 1.A(d) Table 1.B.1 Table 1.B.2 	 Table2(I) Table2(I).A-H Table2(I).B-H Table2(II).B-H Table2(II).B-H 	✓ Table3.C ✓ Table3.D ✓ Table3.E ✓ Table3.F ✓ Table3.G-J	Table4 Table4(I) Table4(II) Table4(II) Table4(III) Table4(III) Table4(IV)			
	Select all Uns	Table 1.C Table 1.D	Table3 Table3.A	Z Table 3Ba	 Table4.1 Table4.A 	-		
	Years 1990 1991 1992 1993 1994	1999 2000 2001 2002 2003 2004	2008 2009 2010 2011					

• Later, you'll see how to upload an IPCC JSON file into the UNFCCC ETF Reporting Tool for GHG Inventory



2006 IPCC Categories		E.Gas Paramete	m Tim 2 E.C	a Emissions	Tier 2n E.Gar	Emissions - Tier 2h									
TQ	Worksheet		rs - Her Z P-0		- Tier Za - Gas	Emissions - Tier 2D									
	Sector:		es and Product I												2015
	Category:	Product Uses as		one Depleting											
A.1.a - Main Activity Electricit	Subcategory:	2.F.1.a - Refrigera			ing										
- 1.A.1.a.i - Electricity Genera	Sheet:	HFC-23 (CHF3) B													
1 A 1 a III - Combined Heat	Data	Unserviced 1	C-r			Characteria Data									
1.A. I.a.III - Heat Plants A 1 h - Petroleum Refining	Subdivision		V Gds	nrc-25 (chr											
A.1.c - Manufacture of Solid F	Intro Year	2000 Growt	th Rate (%) 3	Life	time (d) (years	15 EF (%) 15	5 Dest	troyed (%) 0							
- 1.A.1.c.i - Manufacture of S															
- 1.A.1.c.ii - Other Energy Ind															
Manufacturing Industries an															
A.2.a - Iron and Steel															
A.2.b - Non-Ferrous Metals															
A.Z.C - Chemicals					(Internet in the second s	- 0 (4 (4 1)) (1									
A.2.0 - Puip, Paper and Print A.2.e - Food Processing, Rev			HV	orr		nc on	n	TOP	nno	rah					
A 2 f - Non-Metallic Minerals					130	53 UI	ved/ 0					K = IF(D > (D - 1))			
A.2.g - Transport Equipment						(neurod(t-d))									
A.2.h - Machinery							10		E 005	1.025	1.025				
A.2.i - Mining (excluding fuels	2000					101/0			Sal						
A.2.j - Wood and wood produ	2001			7 19	7.00	HIVE									
A.2.k - Construction	2002			7.15				/ - y-							
A.2.I - Textile and Leather	2003														
A.2.m - Non-specified Industr	2005														
	2006														
- 1 A 3 a i - International Avia															
- 1 A 3 a ii - Domestic Aviatio	2008														
A 3 b - Road Transportation															
1.A.3.b.i - Cars															
	2011														
-1.A.3.b.i.2 - Passenger															
- 1.A.3.b.ii - Light-duty trucks	2013														
1.A.3.b.ii.1 - Light-duty t	2014														
1.A.3.b.ii.2 - Light-duty t	▶ 2015										13.09423	7.95792			
- 1.A.3.b.iii - Heavy-duty truc											11.73885				
1.A.3.b.iv - Motorcycles	2017														
1.A.3.D.V - Evaporative emi	2018														
	2019														
	2020														
orksheet notes 🚽 🕂 🕂	2021					2.79509		2.79509		4.53277					
ells with red background	2022			5							6.69262			27.70062	
												00			
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													N.C.)) (6).)	i .
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Exercise: Produce CRT Data Set and Open Visualized CRT



Test your understanding

- 1. What is the <u>2015</u> estimate for CO_2 emissions from category 1.A.1.a.i?
- 2. If you want to add information to the documentation box for category 1.A.1.a.i, where is it added?
- 3. In Table 2(I) A-H, which categories have emissions estimates in the visualized CRT?
- 4. How many tables of the CRT do you find for the waste sector?

For both the 2015 and 2022 inventory years – in the visualized CRT (i.e. Open Tables) (HINT! – use **Update mode** before making changes below so changes apply to both years. Do NOT check box "Apply to values directly input into editable (pale green) cells")

- 1. For CO₂, CH₄ and N₂O emissions for category 1.A.1.a.ii Combined heat and power generation, provide an explanation for reporting of "NE".
- 2. For CRT category 1.A.1.a.i (Electricity generation) (liquid and solid fuels) indicate use of Tier 1 and Tier 2 methods. For EFs, indicate use of "D" and "CS".
- 3. In CRT Table 2(I)A-H, note AD are reported for category 2.C.1.b Pig iron, but CO₂ emissions are "NE". The compiler identified these emissions should be "IE", as they are included in 2.C.1.a. Change "NE" to "IE". What should you do after changing to "IE"?
- 4. Change AD from 2.C.1.b pig iron production to "C" and indicate in documentation box for this category that AD are "C" because there is only one company.





See Section on <u>Functionalities in Open</u> <u>Tables</u> of the Software Manual in PowerPoint



Exercise: Correct User Errors in Worksheets

See Section on <u>Functionalities in Open</u> <u>Tables</u> of the Software Manual in PowerPoint

Need a hint?

For the 2022 inventory year:

- 1. You find a mistake. "Amount captured" from liquid fuels in 1.A.1.a.i should be "5". Correct this by:
 - In main menu, navigate to "Worksheets" Confirm worksheet =2022. If the year 2015 appears in upper right hand corner, you are in inventory year 2015. To move to 2022, select Inventory Year / Choose /2022 from main menu.
 - 2. Navigate to 1.A.1.a.i electricity generation.
 - 3. Select tab "Fuel Combustion Emissions"
 - 4. Navigate to Residual Fuel Oil.
 - 5. Select the [+] to open dropdown table.
 - 6. Change amount captured from "0" to "5"



2. Navigate back to main menu, "Export/Import – UNFCCC CRT". When it says CRT Tables window is currently open, select "OK" (since that is where you want to go).
<u>Careful, check that Year = 2022. If not, switch to 2022</u>

3. Refresh ONLY the cell for CO₂ emissions and amount captured for 1.A.1.a.i Electricity Generation/ Liquid Fuels / CO₂ captured.

Exercise: Upload JSON

See Section on CRT Data Set Manager of the Software Manual in PowerPoint

Generate the ISON for CRT Data Set titled "Baku."

- 2. Include all tables of the CRT in your JSON file.
- 3. Include 2015 and 2022.
- 4. Save to your computer.

From the User Manual - UNFCCC ETF GHG Inventory Reporting Tool

Need a hint?

The user may generate a .json file from the IPCC Inventory Software containing information for all sectors, a single sector, selected tables of the CRT, or even a single category. The user can create a new GHG Inventory using Upload a file in the reporting tool with any of these IPCC .json files. The data in the newly created inventory will be consistent with the contents of the .json file.

To note:

- Creating an inventory using a .json file for all sectors, will import all sectors into the reporting tool. If the user subsequently imports a new .json file into that same inventory containing only the agriculture sector, it is only the agriculture sector that will be overwritten.
- The user can decide to upload a .json file for one sector (energy) and later, in a ٠ second step import a second, different, sector (e.g. IPPU). In this case, no data will be overwritten and the inventory will contain the energy and IPPU sectors.
- The user may also import a gas from a single category. ٠





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Thank you

https://www.ipcc-nggip.iges.or.jp/software/index.html ipcc-software@iges.or.jp



Answers



Answers: Produce CRT Data Set and Open Visualized CRT

Test your understanding

- 1. What is the 2015 estimate for CO₂ emissions from category 1.A.1.a.i? 50,786.46 kt
- 2. If you want to add information to the documentation box for category 1.A.1.a.i, where is it added? The bottom of CRT Table 1A(a)s4
- 3. In Table 2(I) A-H, which categories have estimates in the visualized CRT for 2015?
 - 1. 2.A.1 Cement Production
 - 2. 2.B.1 Ammonia Production
 - 3. 2.B.8.b Ethylene Production
 - 4. 2.C.1 Iron and Steel Production
- 4. How many tables of CRT will you find for the waste sector? 5 tables (i.e. all tables)



First, before making any changes, set your "Update Mode" so that changes are made to both 2015 and 2022

Sector Energy Year 2015 Refresh values Update mode Curr Table1 Table1.A(a)s1 Table1.A(a)s2 Table1.A(a)s3 Table1.A(a)s4 Table1.A(b) Table1.A(c) Table1.A(d) Table1.B.1 Table1.B.2 TABLE 1.A(a) SECTORAL PACKOPOLIND DATA FOD ENERGY Update mode V Fuel combustion activities - sectoral a Update mode V V GREENHOUSE GAS SOURCE AND SINK Update mode specifies how changes to cell properties, such as Notation Keys, Descriptions, Update mode specifies how changes to cell properties, such as Notation Keys, Descriptions,	Tent year (2015)	D		1. Select "Update mode" – note that the default setting would only apply changes to current year (2015)
Comments, and Documentation Boxes are saved.	CO2 (2.3)	CH4	N2O	CO2
Current year - changes are saved for currently selected year only	(kt)	(kt)	(kt)	
Solid fuels • All years - changes are saved for all years in data set	31185.8905	0.342215	0.5063925	2. Indicate you want changes to
Gaseous tuels (6) Selected years - changes are saved for current year plus years selected below	NE	NE	NE	
	NE		NE	apply to all years in data set (in
Biomass (3)	NE	NE	NE	
1.A.1.a. Public electricity and heat produce	50786.4625	1.099787	0.6588309	this case, this is only 2015 and
Liquid fuels	19626.444	0.762192	0.1524384	
Solid fuels	31160.0185	0.337595	0.5063925	2022)
Gaseous fuels (6)	NE	NE	NE	
Other fossil fuels (7)	NE	NE	NE	INC
Peat (8)	NE	NE	NE	2. Devile met als also als an also and
Biomass (3) Select all Unselect all Invert selection	NE	NE	NE	3. Box is not checked, so changes
1.A.1.a.i. Electricity generation Apply to values directly input into editable (pale green) cells. If unchecked, directly input values	50786.4625	1.099787	0.6588309	
Liquid fuels	19626.444	0.762192	0.1524384	will not apply to green cells (i.e.
	31160.0185	0.33/595	0.5063925	
Other fossil fuels (7)	NE			cells where direct entry occurred)
Peat (8) NE NCV	NE	NE	NE	NE
				4. Select OK



1. For CO₂, CH₄ and N₂O emissions for category 1.A.1.a.ii Combined heat and power generation, provide an explanation for reporting of "NE".



 Note changes apply to "All years", may also say (2015, 2022)

2. Select the cells for which you want to provide an explanation. Right click and select <u>Edit</u>

3. Select tab for "NE"

4. Check this box to indicate you will provide the same explanation for all selected cells (in all years).

5. Enter country-specific explanation and select SAVE.

Save

Cancel

Г (4)	Information to Summary 3 CRT												
		CO2		CH4									
	Method	EF	Method	EF	Metho								
NE													
NE													
NE													
NE													
NE													
NE													
NE													
NE													
NE													
NE													
NE													
NE													
NE													
NE	T1, T2	CS, D	T1, T2	CS, D	T1, T2								
NE	T1, T2	CS, D	T1, T2	CS, D	T1, T2								
NE		-			-								
NE													
NE													

1. Note changes apply to "All years", may also say (2015, 2022)

2. Select the cells for which you want to provide method and EF information. You can select method and EF cells separately, or at the same time. Right click and select <u>Edit</u>

3. Start with either EF or Method (in example, I selected all method/EF cells). Check box to indicate you will provide the same explanation for all selected cells.

4. For EF, select "D" and "CS" For Method, Select "T1" and "T2"

3. In CRT Table 2(I)A-H, note AD are reported for category 2.C.1.b Pig iron, but CO₂ emissions are "NE". The compiler identified these emissions should be "IE", as they are included in 2.C.1.a. Change "NE" to "IE". What should you do after changing to "IE"?

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WMO

4. Change AD from 2.C.1.b pig iron production to "C" and indicate in documentation box for this category that AD are "C" because there is only one company.

Update mode

All years

Sector IPPU 2015 Refresh values

Table2(I) Table2(I).A-H Table2(II) Table2(II).B-Hs1 Table2(II).B-Hs2

absolute amounts recovered (fossil+biogenic), oxidized, destroyed or transformed) / AD. (2) Final emissions are to be reported (after subtracting the amounts of emission recovery.

oxidation, destruction or transformation).

pipeline transport, injection and storage.

from total of each GHGs produced respectively.

TABLE 2(1).A-H SECTORAL BACKGROUND DATA FOR INDUSTRIAL PROCESSES AND PRODUCT USE Emissions of CO2, CH4 and N2O (Sheet 1 of 1)

	GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA		IMPLIED EMISSION FACTORS (
		Production/Consumption quant		CO2	CH4	N2O	
		Description (5)	(kt)		(t/t)	(t/t)	
	2.B.6. Titanium dioxide production	Titanium dioxide production	NE				
	2.B.7. Soda ash production	Soda ash production	NE				
	2.B.8. Petrochemical and carbon black production						
	2.B.8.a. Methanol	Methanol production	NE				
	2.B.8.b. Ethylene	Ethylene production	551.5				
	2.B.8.c. Ethylene dichloride and vinyl chloride monomer	Ethylene dichloride and vinyl monomer production	NE				
	2.B.8.d. Ethylene oxide	Ethylene oxide production	NE				
	2.B.8.e. Acrylonitrile	Acrylonitrile production	NE				
	2.B.8.f. Carbon black	Carbon black production	NE				
	2.B.8.g. Other (8)						
	2.B.8.g.i. Styrene	Styrene production	NE				
	2.B.8.g.ii. Other (please specify)						
	Other petrochemical production [IPCC Software 2.B.8]	Other petrochemical production	NE				
	2.B.10. Other						
	2.B.10.a. Hydrogen production	Hydrogen production	NE				
	2.B.10.b. Other (please specify)						
	Other chemical industry [IPCC Software 2.B.11]	Other chemical production	NE				
	2.C. Metal industry						
	2.C.1. Iron and steel production						
•	2.C.1.a. Steel	Steel production	2057 C				
	2.C.1.b. Pig iron	Pig iron production	980				
	2.C.1.c. Direct reduced iron	Direct reduced iron production	NE				
	2.C.1.d. Sinter	Sinter production	182				
	2.C.1.e. Pellet	Pellet production	NE				
1	201204						

1. Right click, select Notation Key and change to "C"

2. Insert explanation in documentation box and click Save.

other gases. CO2 captured should be reported only when estimated using a higher-tier emissions calculation. Quantities of CO2 captured for later use and short-term storage should not be reported unless CO2 emissions are accounted for elsewhere in the inventory (see the 2006 IPCC Guidelines, vol. 2, chap. 1.2.2). The NID should include information on emissions from leakage in 2.C.2 (4) Enter the amount of GHGs captured as a negative number since this amount is subtracted (5) Where the 2006 IPCC Guidelines provide options for AD, such as on cement or clinker

- 7 Documentation box (1) The IEFs are estimated on the basis of gross emissions as follows: IEF = (emissions plus the 2.B.7 2.B.8 (3) Amounts of CO2 captured or emission recovery, oxidation, destruction or transformation of the 2.B.10 2 2.C.1 Data are confidential because there is only one company 203

Answers: Correct User Errors in Worksheets

For the 2022 inventory year:

1. To refresh only a single cell, right click on cell and select **Refresh Value – Current Year**

	1.A.1.a.i. Electricity generation	560427			48018.7008	1.053279	0.6188571	N	E		
•	Liquid fuels	246426	NCV		19036.4085	0.739278	0.1478556	N		1	
	Solid fuels	314001	NCV		28982.2923	0.314001	0.4710015		Edit		
	Gaseous fuels (6)	NE	NCV		NE	NE	NE	1	Notation Key		
	Other fossil fuels (7)	NE	NCV		NE	NE	NE		Defeatively		
	Peat (8)	NE	NCV		NE	NE	NE	0	Kerresh values	Current year	V
	Biomass (3)	NE	NCV		NE	NE	NE		JSON Export	All years	
	1.A.1.a.ii. Combined heat and power generation	NE			NE	NE	NE	N	E	Selected yea	rs
	Liquid fuels	NE	NCV		NE	NE	NE	N	E	- Sciected yes	

This action will compile new value from worksheet data replacing current value. Other existing data such as comments will be preserved. Are you sure?

No

Select "Yes". Important: When you refresh, it will refresh everything – as if the tables are read and compiled for the first time. So, if you changed notation keys they will change back. Official/user comments will stay. Try to do this at the most disaggregated level.

Biomass (3)	NE			NE	NE	NE	NE
1.A.1.a.i. Electricity generation	560427			48013.7008	1.053279	0.6188571	-5
Liquid fuels	246426	NCV		19031.4085	0.739278	0.1478556	-5
Solid fuels	314001	NCV		28982.2923	0.314001	0.4710015	NE
Gaseous fuels (6)	NE	NCV		NE	NE	NE	NE
Other fossil fuels (7)	NE	NCV		NE	NE	NE	NE
Dest (0)	NE	NCV		NE	NE	NE	NE

Answers: Upload JSON

CRT Data Set Manager					×
CRT Data S	iet name		Date cr 09.08.2024 15:14:55	eated	
		2			
New CRT Data Set Edit CRT Data Set Open tables	Generate JSON	Refresh values	Delete CRT Data Set	Clos	se

T Data Set Manager	Select sector, tables and year	ars		
	Sector (All)	~		
Baku	(1)			
	Tables			
	Summary 1	Table1.A(b) Table2(l)	Table 3.C	Table4
	Summary2	Table 1.A(c) I able 2(I).A-H	Table 3.D	Table4(I)
	Table 1, A(a)s 1	Table 1.B.1 Table 2(II).B-Hs1	Table3.F	Table4(III)
	Table1.A(a)s2	Table1.B.2 Table2(II).B-Hs2	✓ Table3.G-J	Table4(IV)
	Table 1.A(a)s3	Table1.C 🗾 Table3	Table3Ba	Table4.1
	Table 1.A(a)s4	Table1.D Zable3.A	Table3Bb	Table4.A
	Years 2015			
	2022			
	2022			•
	2022			Δ
	2022			4
	2022			4

Select from main menu "Export/Import – UNFCCC CRT.

You may see a prompt that CRT Tables is open (i.e. the visualized CRT). Selecting **OK** takes you back to Open Tables. Selecting **Cancel** opens the CRT Data Set Manager.

1. Select **Baku**, the data set for which you want to generate the JSON

2. Select Generate JSON.

- 3. All tables are selected by default; select 2015 and 2022.
- 4. Select OK and then save the file to your computer.

Additional slides (if needed)

First run

Create Inventory Year

In this step it is necessary to create the initial **Inventory Year**. After creating the **Inventory Year**, the *Software* is successfully initialized and prepared for use or for further addition/refining of user settings, as described in the next sections.

In this initial step, you will "Create empty inventory year". When you create future inventory years, you will also have the option to create the inventory year and copy data from a previous inventory year.

New inventory	
Create new Inventory Year	
New Inventory Year 1990	
Create empty inventory year Copy data from inventory year	~
Create	Cancel

Notes

- It is recommended to start with the first year in your time series and build future inventory years on the previous year(s). When building the land representation, you MUST start with the first year of the time series. For further information, see the Land Representation Guidebook.
- The Inventory Year selection applies to the database, not to the *Software*, when opening a new database a different year can be selected

