

Interoperability between the UNFCCC Reporting Tool and the IPCC Inventory Software

> IPCC TFI TSU SB 58 June 2023



# Outline

- ✓ Background
- ✓ What is interoperability and why is it important?
- ✓ UNFCCC and IPCC cooperation to achieve interoperability
- ✓ What can users expect to see in IPCC Inventory Software supporting interoperability?
- ✓ The road ahead



INTERGOVERNMENTAL PANEL ON Climate chanee



**UNFCCC** 

**Electronic** 

**Reporting Tool** 

# Background

- Beginning 31 December 2024, countries submit a biennial transparency report (BTR) consisting of a narrative document and reporting tables/ formats.
- ✓ Reporting must follow the **Modalities**, **Procedures and Guidelines (MPGs)** (decision 18/CMA.1).
- Decision 5/CMA.3 mandates the UNFCCC to develop reporting tools for the electronic reporting of the tables and formats, specifically:
  - ✓ Common reporting tables (CRT) for GHG inventory (Annex I);
  - ✓ Common tabular formats (CTF) for tracking progress made in implementing/achieving NDCs (Annex 2);
  - ✓ CTF for financial, technology development and transfer and capacity-building support (Annex 3)
- ✓ Decision 5/CMA.3 requests the UNFCCC secretariat to facilitate interoperability between the reporting tools and the IPCC Inventory Software and invites the IPCC to participate in this effort.



# Interoperability: What it is and why it is important?

**Interoperability:** *"The ability of computer systems or software to exchange and make use of information"* -Oxford Dictionary

✓ In practice, the goal is to enable a country to use the IPCC Inventory Software to estimate its GHG emissions and removals in accordance with the 2006 IPCC Guidelines and generate a file that could be received and read by the UNFCCC reporting tool for CRT to facilitate the country's reporting to the Paris Agreement.

✓ Thereby, IPCC Inventory Software becomes a central component of a Party's institutional arrangements to facilitate meeting UNFCCC national reporting obligations.





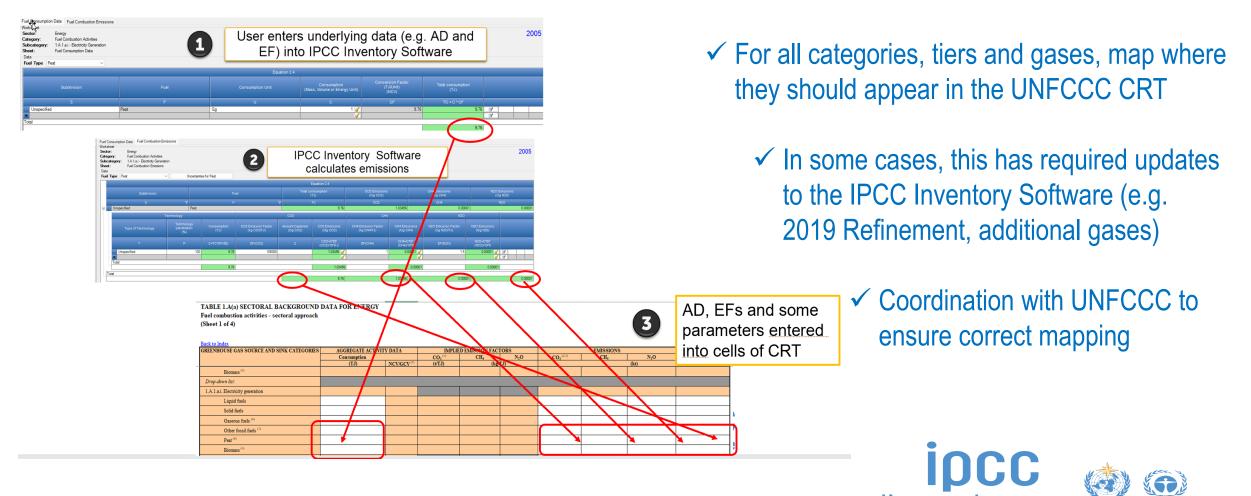


Reducing reporting burden



### **UNFCCC and IPCC cooperation to achieve interoperability**

### Step 1: Mapping between IPCC Inventory Software and CRT



### **UNFCCC and IPCC cooperation to achieve interoperability**

• Step 2: Cell-by-cell mapping between IPCC Inventory Software and CRT, implementing visualization of CRT in IPCC Inventory Software

ABLE 1.A(a) SECTORAL BACKGRO	UND DATA FOR ENERGY	OR ENERGY General Interestions for Column II I Column C is "NO" for "NO" II Column C is "NO" for "SO"		General Instructions for Column J If Column C is "NO" then "NO"	General Instructions for Column L If Column C is "NO" then "NO"		
inec combaction activities - sectoral approach inect 2 of 4)	DATA FOR LALKON				If Column C ISNOT 0 AND Column H is 0 then "NE" In cells with "IE", clicking on $D$ dialogue window "IE" (see sheet) opens In cells with "NE", clicking on $D$ dialogue window "NE" (see sheet) opens	If Column CISNOT 0 AND Column J is 0 then "NE" In cells with "IE", clicking on $p^0$ dialogue window "IE" (see sheet) opens In cells with "NE", clicking on $p^0$ dialogue window "NE" (see sheet) opens	If Column C ISNOT 0 AND Column L is 0 then "NE" In cells with "IE", clicking on $\beta$ dialogue window "IE" (see sheet) opens In cells with "NE", clicking on $\beta$ dialogue window "NE" (see sheet) opens
ack to Index					In cells with "FX", clicking on 🖉 dialogue window "FX" (see sheet) opens	In cells with "FX", clicking on 🖉 dialogue window "FX" (see sheet) opens	In cells with "FX", clicking on 🖉 dialogue window "FX" (see sheet) opens
REENHOUSE GAS SOURCE AND SINK	AGGREGATE ACTIVITY DATA		IMPLIED	EMISSION FACTO	15	EMISSIONS	
ATEGORIES	Consumption		CO.(1)	CH <sub>4</sub> N <sub>2</sub>	CO1 <sup>(2,1)</sup>	CH	N <sub>2</sub> O
	(1)	NCV/GCV <sup>(1)</sup>	(UTJ)	(kg/TJ)			00
A.2 Manufacturing industries and construction	SUM(C11:C16)				SUM(H11:H15)	SUM(J11:J16)	\$UM(L11:L16)
Liquid fuels	C18+C25+C32+C39+C46+C53+C60				H18+H25+H32+H39+H46+H53+H60	J18+J25+J32+J39+J46+J53+J60	L18+L25+L32+L39+L46+L53+L60
Solid fuels	C19+C26+C33+C40+C47+C54+C61				H19+H26+H33+H40+H47+H54+H61	J19+J26+J33+J40+J47+J54+J61	L19+L26+L33+L40+L47+L54+L61
Gaseous fuels (8)	C20+C27+C34+C41+C48+C55+C62				H20+H27+H34+H41+H48+H55+H62	J20+J27+J34+J41+J48+J55+J62	L20+L27+L34+L41+L48+L55+L62
Other fossil fuels (7)	C21+C28+C35+C42+C49+C56+C63				H21+R28+R35+R42+R49+R56+R63	J21+J28+J35+J42+J49+J56+J63	L21+L28+L35+L42+L49+L56+L63
Peat <sup>(0)</sup>	C22+C29+C36+C43+C50+C57+C64				H22+H29+H36+H43+H50+H57+H64	J22+J29+J36+J43+J50+J57+J64 J23+J30+J37+J44+J51+J58+J65	L22+L29+L36+L43+L50+L57+L64
Biomass <sup>(3)</sup>	C23+C30+C37+C44+C51+C58+C65 SUM(C18-C23)				H23+H30+H37+H44+H51+H58+H65 SUM/H18 H22)	J23+J30+J37+J44+J51+J58+J65 SUM/J18-J23)	L23+L30+L37+L44+L51+L58+L65 SUM(L18-L23)
1.A.2.a. Iron and steel Liquid fuels	SUM(C18 C23) IPCC 1.A.2.a <fuel consumption="" data=""> SUM by fuel type (Liquid Fuels) Column TC</fuel>	D33 Table1 A(a)s1			SUM(H18 H22) IPCC 1 A 2 a <fuel combustion="" emissions=""> SUM by fael type (Liquid Faels) Column CO2</fuel>	SUM(J18-J23)     IPCC 1.A.2.a <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column CH4</fuel>	SUM(L18.L23) P IPCC 1.A.2.a <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column N3</fuel>
Solid faels	IPCC 1 A 2 a <fuel consumption="" data=""> SUM by fuel type (Solid Fuels) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1.A.2.a <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column CO2</fuel>	IPCC 1.A.2.a <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column CH4</fuel>	PCC 1.A.2.4 <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column N2</fuel>
Gaseous fuels (8)	IPCC 1 A 2 a <fuel consumption="" data=""> SUM by fuel type (Gaseous Fuels) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1 A 2 a <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column CO2</fuel>	P IPCC 1 A 2.a <fuel combustion="" emissions=""> SUM by fuel type (Oaseous Fuels) Column CH4</fuel>	PCC 1 A 2 a <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column</fuel>
Other fossil fuels (?)	IPCC 1 A 2 a «Fuel Consumption Data» SUM by fuel type (Other Fossil Fuels) Column TC	D33 Table1.A(a)s1			IPCC 1 A 2.a <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CO2</fuel>	P IPCC 1 A.2.a <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4</fuel>	P IPCC 1.A.2.a <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Colu</fuel>
Peat <sup>(3)</sup>	IPCC 1 A 2 a «Fuel Consumption Data» SUM by fuel type (Peat) Column TC	D33 Table1.A(a)s1			IPCC 1 A 2.a <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column CO2</fuel>	P IPCC 1 A 2.a <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column CH4</fuel>	P IPCC 1 A.2.a <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column N2O</fuel>
Biomass (7)	IPCC 1.A.2.a <fuel consumption="" data=""> SUM by fuel type (Biomass) Column TC</fuel>	D33 Table1.A(a)s1			IPCC 1 A 2.a <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CO2</fuel>	IPCC 1 A 2.a <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CH4</fuel>	IPCC 1.A.2.a <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column N2O</fuel>
1.A.2.b. Non-ferrous metals	SUM(C25:C30)				SUM(H25:H29)	SUM(J25-J30)	SUM(L25:L30)
Liquid fuels Solid fuels	IPCC 1 A 2 b <fuel consumption="" data=""> SUM by fuel type (Liquid Fuels) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1 A 2.b <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column CO2</fuel>	2 IPCC 1 A 2 b <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column CH4</fuel>	PCC 1.A.2.b <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column N</fuel>
	IPCC 1.A.2.b <fuel consumption="" data=""> SUM by fuel type (Solid Fuels) Column TC IPCC 1.A.2.b <fuel consumption="" data=""> SUM by fuel type (Gaseous Fuels) Column TC</fuel></fuel>	D33 Table1 A(a)s1 D33 Table1 A(a)s1			IPCC 1.A.2.b. <fuel combustion="" emissions=""> SUM by fael type (Solid Fuels) Column CO2 IPCC 1.A.2.b.<fuel combustion="" emissions=""> SUM by fael type (Gaseous Fuels) Column CO2</fuel></fuel>	IPCC 1.A.2.b <fuel combustion="" emissions=""> SUM by fael type (Solid Faels) Column CH4     IPCC 1.A.2.b <fuel combustion="" emissions=""> SUM by fael type (Gaseous Faels) Column CH4</fuel></fuel>	DCC 1 A 2.5 «Fuel combustion emissions» SUM by fuel type (Solid Fuels) Column N2 DCC 1 A 2.5 «Fuel combustion emissions» SUM by fuel type (Gaseous Fuels) Column
Gaseous fuels (0)		D33 Table1 A(a)s1					PCC 1.A.2.6 <fuel combustion="" emissions=""> SUM by fuel type (Oaseous Fuels) Column P IPCC 1.A.2.6 <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column</fuel></fuel>
Other fossil faels (7)	IPCC 1.A.2.b <fuel consumption="" data=""> SUM by fuel type (Other Fossil Fuels) Column TC</fuel>	D33 Table1 A(a)s1 D33 Table1 A(a)s1			IPCC 1.A.2.b <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CO2 IPCC 1.A.2.b <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column CO2</fuel></fuel>	IPCC 1.A.2.b <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4     IPCC 1.A.2.b <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column CH4</fuel></fuel>	PCC 1.A.2.6 «Fuel combustion emissions» SUM by fuel type (Other Possil Fuels) Col PCC 1.A.2.6 «Fuel combustion emissions» SUM by fuel type (Peat) Column N2O
Peat <sup>(0)</sup> Biomass <sup>(0)</sup>	IPCC 1.A.2.b <fuel consumption="" data=""> SUM by fuel type (Peat) Column TC IPCC 1.A.2.b <fuel consumption="" data=""> SUM by fuel type (Biomass) Column TC</fuel></fuel>	D33 Table1.A(a)s1			IPCC 1 A 2 b <fuel combustion="" emissions=""> SUM by fuel type (p-sa) Column CO2 IPCC 1 A 2 b <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CO2</fuel></fuel>	IPCC 1.A 2.b <puel combustion="" emissions=""> SUM by fuel type (Poir) Column CH4     IPCC 1.A 2.b <puel combustion="" emissions=""> SUM by fuel type (Biomass) Column CH4</puel></puel>	DCC 1A2.b (Fuel combustion emissions) SUM by fuel type (Pear) Column N20 (DCC 1A2.b (Fuel combustion emissions) SUM by fuel type (Biomass) Column N20
1.A.2.c. Chemicals	strategy (interaction of the second strategy) (inter	1000 10001 10001			SUPPORT A TAXAGE AND A SUPPORT	STRAT27-127)	SEMIT 22-1-22)
Liquid fuels	IPCC 1.A.2.c <fuel consumption="" data=""> SUM by fuel type (Liquid Fuels) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1 A 2.c <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column CO2</fuel>	P IPCC 1 A 2 c <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column CH4</fuel>	PCC 1 A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column N</fuel>
Solid fuels	IPCC 1 A 2 c <fuel consumption="" data=""> SUM by fuel type (Solid Fuels) Column TC</fuel>				IPCC 1.A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column CO2</fuel>	IPCC 1.A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column CH4</fuel>	P DCC 1 A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column N2</fuel>
Gaseous fuels (6)	IPCC 1.A.2.c <fuel consumption="" data=""> SUM by fuel type (Gaseous Fuels) Column TC</fuel>	D33 Table1.A(a)s1			IPCC 1 A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column CO2</fuel>	IPCC 1.A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column CH4</fuel>	PCC 1.A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column</fuel>
Other fossil faels (7)	IPCC 1.A.2.c <fuel consumption="" data=""> SUM by fuel type (Other Fossil Fuels) Column TC</fuel>	D33 Table1.A(a)s1			IPCC 1 A 2.c <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CO2</fuel>	PCC 1 A 2 c <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4</fuel>	IPCC 1.A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Col</fuel>
Peat <sup>(0)</sup>	IPCC 1.A.2.c <fuel consumption="" data=""> SUM by fuel type (Peat) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1.A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column CO2</fuel>	IPCC 1.A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column CH4</fuel>	PCC 1 A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column N2O</fuel>
Biomass (7)	IPCC 1.A.2.c <fuel consumption="" data=""> SUM by fuel type (Biomass) Column TC</fuel>	D33 Table1.A(a)s1			IPCC 1 A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CO2</fuel>	PCC 1.A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CH4</fuel>	PCC 1.A.2.c <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column N2O</fuel>
1.A.2.d. Pulp, paper and print	SUM(C39.C44)				SUM(H393H43)	SUM(J39-J44)	SUM(L39:L44)
Liquid fuels Solid fuels	IPCC 1.A.2.d <fuel consumption="" data=""> SUM by fuel type (Liquid Fuels) Column TC IPCC 1.A.2.d <fuel consumption="" data=""> SUM by fuel type (Solid Fuels) Column TC</fuel></fuel>	D33 Table1.A(a)s1 D33 Table1.A(a)s1			IPCC 1 A 2 d <fuel combustion="" emissions=""> SUM by fael type (Liquid Faels) Column CO2 IPCC 1 A 2 d <fuel combustion="" emissions=""> SUM by fael type (Solid Faels) Column CO2</fuel></fuel>	PCC 1.A.2.d <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column CH4     PCC 1.A.2.d <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column CH4</fuel></fuel>	PCC1A2d <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column N PCC1A2d<fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column N2</fuel></fuel>
Gaseous fuets (0)	IPCC 1.A.2.d «Fuel Consumption Data» SUM by fuel type (Gaseous Fuels) Column TC	D33 Table1 A(a)s1			IPCC 1 A 2.4 «Fuel combustion emissions» SUM by fuel type (Solid Pdeb) Column CO2	IPCC 1.A.2.d <puel combination="" emissions=""> SUM by fuel type (Gaseous Fuels) Column CH4     IPCC 1.A.2.d <puel combination="" emissions=""> SUM by fuel type (Gaseous Fuels) Column CH4</puel></puel>	PCC 1 A 2.d <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column 74</fuel>
Other fossil fuels (7)	IPCC 1.A.2.d <fuel consumption="" data=""> SUM by fuel type (Other Fossil Fuels) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1 A 2 d <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CO2</fuel>	D TPCC 1.4.7.4 <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CB4</fuel>	PCC 1.A.2.d <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Columnation</fuel>
Peat <sup>(1)</sup>	IPCC 1 A 2.d <fuel consumption="" data=""> SUM by fuel type (Peat) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1 A 2.d <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column CO2</fuel>	P IPCC 1 A 2.d <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column CH4</fuel>	P IPCC 1 A.2.d <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column N2O</fuel>
Biomass (7)	IPCC 1.A.2.d <fuel consumption="" data=""> SUM by feel type (Biomass) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1 A 2.4 <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CO2</fuel>	PCC 1 A.2.d <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CH4</fuel>	PCC 1.A.2.d <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column N2O.</fuel>
1.A.2.e. Food processing, beverages and tobacco	SUM(C46:C51)				SUM(H46:H50)	SUM(J46-J51)	SUM(L46:L51)
Liquid faels	IPCC 1 A 2 e «Fuel Consumption Data» SUM by fuel type (Liquid Fuels) Column TC				IPCC 1 A 2.e <fuel combustion="" emissions=""> SUM by fael type (Liquid Faels) Column CO2</fuel>	PCC 1 A 2 e «Fuel combustion emissions» SUM by fuel type (Liquid Fuels) Column CR4	PCC 1.A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column N</fuel>
Solid fuels	IPCC 1.A.2.e <fuel consumption="" data=""> SUM by fuel type (Solid Fuels) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1 A 2.e <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column CO2</fuel>	2 IPCC 1 A 2.e <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column CH4</fuel>	PCC 1 A 2.e <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column N2</fuel>
Gaseous fuels (9)	IPCC 1 A 2 e <fuel consumption="" data=""> SUM by fuel type (Gaseous Fuels) Column TC</fuel>	D33 Table1.A(a)s1			IPCC 1 A 2.e <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column CO2</fuel>	P IPCC 1.A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Faels) Column CH4</fuel>	PCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fael type (Gaseous Faels) Column</fuel>
Other fossil fuels (7)	IPCC 1.A.2.e <fuel consumption="" data=""> SUM by fuel type (Other Fossil Fuels) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1 A.2.e «Fuel combustion emissions» SUM by fuel type (Other Fossil Fuels) Column CO2	P IPCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4 / O IPCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4 / O IPCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4 / O IPCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4 / O IPCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4 / O IPCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4 / O IPCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4 / O IPCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4 / O IPCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4 / O IPCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4 / O IPCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4 /</fuel></fuel></fuel></fuel></fuel></fuel></fuel></fuel></fuel></fuel></fuel>	PCC 1.A.2.e «Fuel combustion emissions» SUM by fuel type (Other Fossil Fuels) Coh
Peat <sup>(0)</sup>	IPCC 1.A.2.e <fuel consumption="" data=""> SUM by fuel type (Peat) Column TC</fuel>	D33 Table1.A(a)s1 D33 Table1.A(a)s1			IPCC 1.A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column CO2 IPCC 1.A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CO2</fuel></fuel>	IPCC 1.A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column CH4     IPCC 1.A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CH4</fuel></fuel>	P IPCC 1.A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column N20</fuel>
Biomass <sup>(3)</sup> 1.A.2.f. Non-metallic minerals	IPCC 1.A.2.e <fuel consumption="" data=""> SUM by fuel type (Biomass) Column TC SUM(C53:C58)</fuel>	233 TROUT A(4)61			IPCC LA.2.e <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CO2 SUM/H53 H57)</fuel>	PCC 1 A.2.e <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CH4 SUM(J53-J58)</fuel>	DCC 1 A 2.e <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column N2O SUM(L53:1.58)</fuel>
Liquid fuels	IPCC 1 A 2 f <fuel consumption="" data=""> SUM by fuel type (Liquid Fuels) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1.A.2.f <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column CO2</fuel>	PCC 1 A 2 f <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column CH4</fuel>	PCC 1 A 2 f <fuel combustion="" emissions=""> SUM by fuel true (Liquid Fuels) Column N</fuel>
Solid faels	IPCC 1.A.2.f <fuel consumption="" data=""> SUM by fuel type (Solid Fuels) Column TC</fuel>				IPCC 1 A 2 f «Fuel combustion emissions» SUM by fuel type (Solid Fuels) Column CO2	IPCC 1 A 2 f <fuel combination="" emissions=""> SUM by fael type (Solid Fuels) Column CH4</fuel>	P EPCC 1 A 2.f <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column N2</fuel>
Gaseous fuels (8)	IPCC 1 A.2.f <fuel consumption="" data=""> SUM by fuel type (Gaseous Fuels) Column TC</fuel>	D33 Table1.A(a)s1			IPCC 1 A 2.f <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column CO2</fuel>	IPCC 1 A.2.f <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column CH4</fuel>	PCC 1 A.2.f <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column</fuel>
Other fossil fuels (7)	IPCC 1.A.2.f <fuel consumption="" data=""> SUM by fuel type (Other Fossil Fuels) Column TC</fuel>	D33 Table1.A(a)s1			IPCC 1 A 2.f <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CO2</fuel>	PCC 1.A.2.f <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4</fuel>	PCC 1 A.2.f <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Col</fuel>
Peat <sup>(B)</sup>	IPCC 1.A.2.f <fuel consumption="" data=""> SUM by fuel type (Peat) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1 A 2.f <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column CO2</fuel>	P IPCC 1 A 2 f «Fuel combustion emissions» SUM by fuel type (Peat) Column CH4	PCC 1 A 2.f <fuel combustion="" emissions=""> SUM by fuel type (Peat) Column N2O</fuel>
Biomass <sup>(I)</sup>	IPCC 1.A.2.f <fuel consumption="" data=""> SUM by fuel type (Biomass) Column TC</fuel>	D33 Table1.A(a)s1			IPCC 1.A.2.f <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CO2</fuel>	P IPCC 1.A.2.f <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column CH4</fuel>	PCC 1.A.2.f <fuel combustion="" emissions=""> SUM by fuel type (Biomass) Column N2O</fuel>
1A2g Other (II)	SUM(C60.C65)				SUM(H60:H64)	SUM(J60.J65)	SUM(L60:L65)
Liquid fuels Solid fools	C68+C75+C82+C89+C96+C103+SUM(C110:C113)+C120+C127 C69+C75+C82+C90+C97+C104+C121+C128				H68+H75+H82+H89+H96+H103+SUM(H110 H113)+H120+H127 U694U764U814U904U974U1044U1214U128	J68+J75+J82+J89+J96+J103+SUM(J110-J113)+J120+J127 569+J76+J82+J80+J87+U04+U21+J128	L68+L75+L82+L89+L96+L103+SUM(L1101L113)+L120+L127 L68+L75+L82+L89+L96+L103+SUM(L1101L113)+L120+L127
Solid faels	C09+C76+C85+C90+C97+C104+C121+C128 C70+C77+C84+C91+C98+C105+C115+C122+C129				H69+H76+H83+H90+H97+H104+H121+H128 H70+H77+H84+H91+H98+H105+H115+H122+H129	J69+J76+J83+J90+J97+J104+J121+J128 J70+J77+J84+J91+J98+J105+J115+J122+J129	L09+L76+L83+L90+L97+L104+L121+L128 L70+L77+L84+L91+L98+L105+L115+L122+L129
Gaseous fuels (8) Other fossil fuels (7)	C71+C78+C85+C92+C99+C106+C115+C122+C139 C71+C78+C85+C92+C99+C106+C116+C123+C130				H71+H78+H85+H92+H99+H106+H116+H123+H130	J71+J78+J85+J92+J99+J106+J116+J123+J130	L71+L78+L85+L92+L99+L106+L116+L123+L130
Peat <sup>(1)</sup>	C72+C79+C86+C93+C100+C107+C124+C131				H72+H79+H86+H93+H100+H107+H124+H131	J72+J79+J86+J93+J100+J107+J124+J131	L72+L79+L86+L93+L100+L107+L124+L131
Biomass <sup>(0)</sup>	C73+C80+C87+C90+C10+C10+C10+C12+C131				H73+H80+H87+H94+H101+H108+H117+H125+H132	172+319+360+353+3160+3124+3131	L73+L80+L87+L94+L101+L108+L117+L124+L132
Dropdown list	contraction of the second s						
1.A.2.g.i. Manufacturing of machinery	SUM(C68:C73)				SUM(H68:H72)	SUM(J68-J73)	SUM(L68:1.73)
Liquid fuels	IPCC 1 A 2 h <fuel consumption="" data=""> SUM by fuel type (Liquid Fuels) Column TC</fuel>	D33 Table1.A(a)s1			IPCC 1 A 2.h <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column CO2</fuel>	PCC 1.A.2.h <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column CH4</fuel>	PCC 1 A.2.h <fuel combustion="" emissions=""> SUM by fuel type (Liquid Fuels) Column N</fuel>
Solid fuels	IPCC 1 A 2 h <fuel consumption="" data=""> SUM by fuel type (Solid Fuels) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1 A 2 h <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column CO2</fuel>	P IPCC 1 A 2 h <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column CH4</fuel>	DPCC 1 A 2 h <fuel combustion="" emissions=""> SUM by fuel type (Solid Fuels) Column N2</fuel>
Gaseous fuels (*)	IPCC 1 A 2 h <fuel consumption="" data=""> SUM by fuel type (Gaseous Fuels) Column TC</fuel>	D33 Table1 A(a)s1			IPCC 1 A 2.h «Fuel combustion emissions» SUM by fuel type (Gaseous Fuels) Column CO2	PIPCC 1.A.2.h <puel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column CH4</puel>	PCC 1 A.2.h <fuel combustion="" emissions=""> SUM by fuel type (Gaseous Fuels) Column</fuel>
Other fossil faels (7)	IPCC 1.A.2.h «Fuel Consumption Data» SUM by fuel type (Other Fossil Fuels) Column TC	D33 Table1 A(a)s1			IPCC 1.A.2.h «Fuel combustion emissions» SUM by fuel type (Other Fossil Fuels) Column CO2	// IPCC 1 A.2.h <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Column CH4</fuel>	PCC 1.A.2.h <fuel combustion="" emissions=""> SUM by fuel type (Other Fossil Fuels) Colu</fuel>

 For Sectoral / Background CRT, AD and emissions map from IPCC Inventory Software to CRT; IEF and summary tables calculated in CRT

 Additional explanatory information can be added in IPCC Inventory Software (e.g. documentation boxes, user/ Party comments, method/EF information, notation key explanations, including confidentiality)





Step 1. User calculates annual/ time series of GHG Inventory in IPCC Inventory Software

 Interface will look the same as current version, with some updated categories/ gases to facilitate interoperability.

PCC Categories 🚽 🗸	Other Capture and storage or other re		ninistrate Window Help					- 8
2.D.4 - Other (please specify) 2.E - Electronics Industry - 2.E.1 - Integrated Circuit or S - 2.E.2 - TFT Flat Panel Displa - 2.E.3 - Photovoltsics - 2.E.4 - Hest Transfer Fluid - 2.E.5 - Other (please specify)	Worksheet Sector: Industrial Processes	s and Product Use cts from Fuels and Solvent Use						2005
2.F - Product Uses as Substitute = 2.F.1 - Refrigerat = 2.F.1.a - Refr		CR	T Data Set Manager	-	□ ×			_
- 2.F.1.b - Mob - 2.F.2 - Foam Blo		CRT Data Set name	•	Date created	j.		New CRT Data Set	
	1990 - 1994			12.05.2023 13:23:07			New CRT Data Set	
2 E E Salvesta	1995 - 2000 2001 - 2005			17.05.2023 08:22:13 17.05.2023 08:27:30	F	Name: Test 20	001 - 2005	
	CCC JSON Test (SVK-1990)			16.05.2023 10:07:36		Years:	Year Se	elected
							1991 1992 1993 1994 1995 1996 1996 1998 1999 2000 2000 2001 2001 2002	

### Step 2. Access CRT interface in the Main Menu of IPCC Inventory Software

- Create / name the CRT data set to be generated
- Select the year(s) for export to CRT
- Feed worksheet data into CRT visualized in IPCC Inventory Software



Note: Some images may be updated as we continue to finalize interoperability, taking into account comments received.

CRT Tables - Test 1990 - 1994

Refresh values

#### Step 3. Review visualized CRTs

Sector

Debug

Energy

Identify explanations needed (e.g. "NE" / documentation boxes)

log oolump width

 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
 Table1.C

 TABLE 1.D
 SECTORAL BACKGROUND DATA FOR ENERGY

International aviation and international navigation (international bunkers) and multilateral operations

1990

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DAT		IMPLIED EMISSION F	ACTORS			EMISSIONS	
	Consumption	n i	CO2	CH4	N2O	CO2	CH4	N
	(TJ)		(t/tJ)	(kg/TJ)	( (g/TJ)	(kt)	(kt)	(
1.D.1.a. International aviation (aviation bunkers)		660,700				39,209.101542	0.320022	
Jet kerosene		456,000				32,603.995547	0.2205	
Aviation gasoline		94,200				6,594.01804	0.047092	
Biomass		110,500				11.087955	0.052429	
1.D.1.b. International navigation (marine bunkers)		279,305.5				13,885.63975	1.206939	
Residual fuel oil		NO		[		FX	NO	
Gas/diesel oil	6	102,705.5		1		7,534.23975	0.718939	
Gasoline		88,600				NE	NE	
Other liquid fuels (please specify)		21,000				1,694	0.105	
Other liquid fuels [IPCC Software 1.A.3.d.i]		21,000				1,694	0.105	
Gaseous fuels (1)		24,000				1,346.4	0.168	
Biomass		NO		(		NO	NO	
Other fossil fuels (please specify) (2)		43,000				3,311	0.215	
Other fossil fuels [IPCC Software 1.A.3.d.i]		43,000				3,311	0.215	
1.D.2. Multilateral operations (3)		299,900				15,403.292165	1.5505	
Additional information								
Fuel consumption	Domestic distribution (	%) (a)	International distribution (%) (a)					
Aviation								
Marine								
<								
gend	- 4 Documenta	ation box			_	# IPCC Inventory S	offware notes	
) Including LNG for international navigation.			de a detailed description of the fuel			ove that contain no inform		
) Include information in the documentation box on which fuels are cluded and provide a reference to the section in the NID where furth	including international aviation and international navigation, in the releval chapter 3 ("Energy" (CRT subsector 1.A)) of the NID. Use this document					are blank) will be UNFCCC reportin	calculated automatically l ing tool. No action by the u	by the
formation is provided.	1.D.1					• Note that in CB1	Reporting, it is not nece	ssarv tv
Parties may choose whether to report or not report AD and IEFs for ultilateral operations, consistently with the principle of confidentiality	stated				•	S enter data for son bunkers. The IPC	ne fuel types used as inter C Inventory software may	rnationa includ
the MPGs (chapter II). In any case, Parties should report the emiss om multilateral operations, where available, under memo items in the						v additional fuels fo	or bunkers not included he	ere.
ummary tables and in the sectoral report table for energy.						Please report in liquid fuels includ	the "Documentation Box"	

### Checks done for all tables / all years

Guidance available (CRT footnotes, and IPCC Inventory Software)

née



Review Values

#### Step 4. Finalize information for export to CRT

#### TABLE 1.A(a) SECTORAL BACKGROUND DATA FOR ENERGY Fuel combustion activities - sectoral approach (Sheet 2 of 4) Log column width GREENHOUSE GAS SOURCE AND SINK CATEGORIES AGGREGATE ACTIVITY DATA IMPLIED EMISSION FACTORS AMOUNT CAPTURED Information to Summary 3 CRT N2O (kg/TJ) Method (kt) 1.A.2 Manufacturing industries and construction 573,340 58,298,779 28.741785 4.739078 -3.883.895 Liquid fuels 15.420.599 19.617865 1.835238 -1.278.99535,465.82 0.9345 0.6141 -1,087.9 Solid fuels Click on relevant cell(s) Gaseous fuels (6) 5.080.8 0.552 0.5808 -300 Other fossil fuels (7) 1,397 1.3 1.24 -200 934,56 0.01952 -100 Peat (8) 0.01464 ACTIVITY DATA Biomass (3) 6,268 6.3179 0.4543 -917.4-1,550 A 2 a Iron and steel 9,304.97 6.66712 0.24401 3.036 0.1326 0.02652 -500 Liquid fuels Consumption 2,224.61 0.267 0.04005 -400 Solid fuels Gaseous fuels (6) 2,392.8 0.048 0.0048 -300 (TJ) Other fossil fuels (7) 717 0.3 0.04 -200 660,700 934.56 0.01952 0.01464 -100 Peat (8) 3.254 5.9 0.118 -50 Biomass (3) A.2.b. Non-ferrous metals NE, NO NE, NO NE, NO NE, NO 1 Edit NE NE NE NE Liquid fuels Method and EF info. Notation Key Summary Description Party comment User comment Official comment Refresh value Ű MPG Flexibility Provisio **CRT Variable Detail** Method Description Party comment User comment Official comment Description of the application of flexibility GUID: 72790959-e6dc-43f0-a39c-fd3959a7754b Clarification of capacity constrai CRT Variable Detail ~ T1 IPCC Tier 1 methodological approach Notation Key -T2 IPCC Tier 2 methodological approach ~ T3 IPCC Tier 3 methodological approach Summary Description Party comment User comment Official comment imeframe for improvement CR CORINAIR CS Country-Specific Variable description M Model RA IPCC Reference Approach Progress made in addressing areas of improvement Edit OTH Other Save Cancel

Step 4. Finalize information for export to CRT

		Refresh values A(b)   Table1		1.A(d)   Tabl	e1.B.1 Table	1.B.2   Table1.C   Table	1.D									
TABLE 1.A(a) SECTORAL BACKGROU Fuel combustion activities - sectoral approach (Sheet	JND DATA FO													Γ	Log column widt	iths
GREENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTIV	VITY DATA	IMPLIED	EMISSION F	ACTORS		EMISSIONS		AMOUNT CAPTURED			Information to	Summary 3 CRT			
	Consumption	NCV/GCV	CO2	CH4	N20	CO2	CH4	N20	CO2		02	C	H4	N	N2O	
			(UTJ)	(kg/TJ)	(kg/TJ)	(kt)	(kt)	(kt)	(kt)	Method	EF	Method	EF	Method	EF	
Biomass (3)	95,950					1,711.6	NE, NO	NE, NO	-200				No.			
1.A.1.a. Public electricity and heat production (9)	736,660					47,640,2469	0.641994	0.528984	-500							
Liquid fuels	64,823	0				1,547.2784	0.061869	0.012374	NE, NO							
Solid fuels	492.887					39,336.6685	0.403125	0.492461	-300							
Gaseous fuels (6)	48,000					2,692.8	0.048	0.0048	NE, NO							
Other fossil fuels (7)	64,500					4,063.5	0,129	0.01935	NE, NO							
Peat (8)	NO		1	0		NO	NO	NO	NO							
Biomass (3)	66,450					1,711.6	NE, NO	NE, NO	-200							
1.A.1.a.i. Electricity generation	692,460	NOV				47,640.2469	0.641994	0.528984	-500							
Liquid fuels Solid fuels	20.623 492.887	NCV NCV		-		1,547.2784	0.061869 0.403125	0.012374 0.492461	NE -300						4	-
Gaseous fuels (6)	492,887					2,692.8	0.403125	0.492461	-300 NE	1					4	-
Other fossil fuels (7)	64,500					4,063.5	0.129	0.01935	NE							-2
Peat (8)	64,500 NO					4,063.5 NO	NO	0.01935 NO	NO							-
Biomass (3)	66,450					1,711.6	NO	NE	-200							-
1.A.1.a.ii. Combined heat and power generation	44,200	115.9	1		-	NE, NO	NE, NO	NE. NO	NE, NO	(A)						
Liquid fuels	44,200	NCV				NE	NE	NE	NE							
Solid fuels	NO			-		NO	NO	NO	NO	2						
Gaseous fuels (6)	NO					NO	NO	NO	NO	6						
Other fossil fuels (7)	NO					NO	NO	NO	NO							
Peat (8)	NO					NO	NO	NO	NO							
Biomass (3)	NO	NCV				NO	NO	NO	NO							
1.A.1.a iii. Heat plants	NO		1			NO	NO	NO	NO							
Liquid fuels	NO					NO	NO	NO	NO							
Solid fuels	NO					NO	NO	NO	NO	0						
Gaseous fuels (6)	NO	NCV				NO	3	NO	NO							
Other fossil fuels (7)	NO					NO	NO	NO	NO						4	
Peat (8)	NO					NO	NO	NO	NO							
Biomass (3)	NO	NCV				NO	NO	NO	NO							
1.A.1.b. Petroleum refining	48,958				1	3,394.5936	0.146874	0.029375	NE, NO		1. C					
Liquid fuels	48,958				-	3,394.5936 NO	0.146874	0.029375 NO	NE NO	2					4	-
Solid fuels	NO		-			NO	NO NO	NO	NO							-
Gaseous fuels (6)	NO			-		NO	NO	NO	NO							-
end				- 4	IPCC Invent	lory Software notes				🕶 👎 De	bug					
te: Minimum level of aggregation is needed to protect confidentify particular entity's/entities' confidential data.					calculated in	ent the second note, users n orange cells won't change	e because of the input of	°C*.			thod [22, 10] 0a3649c	b-7fd2-46c8-a9c6-7ad0	f26d6c85			
ceter: A Party may collapse rows below 1A.1 b and 1A.1 c. up to gregated to protect confidential business and multitay informati- tity(ies). The rows will be expanded for display purposes. An e e documentation box. cet: All footnotes for this table are given at the end of the table det: For the coverage of fuel categories, refer to the 2006 IPCC	on; and this data can be xplanation of why this I (sheet 4).	e used to iden has been appli	tify particular ied will be pro	wided in	In *1.A.1.c. Data* of the category 2.0 (TJ) of all pr	Its above that contain no in r the user is required. i - Manufacture of solid fue relevant category in the IP C.1. Users that estimate GH cocess inputs from category, in sumed for the category, in	els - Solid fuels - Consur CC Inventory Software a G emissions from coke y 2.C.1 are included. Ifn	nption" cell, activity data are mapped, as are som production in iron and ecessary, the user sho	i from worksheet "Fuel co e process inputs from cok steel should ensure the er ild revise the activity data	nsumption ke production in nergy content to include the						

#### Step 4. Finalize information for export to CRT – treatment of confidential information

REENHOUSE GAS SOURCE AND SINK CATEGORIES	AGGREGATE ACTI	VITY DATA	IMPLIED	EMISSION F	ACTORS		EMISSIONS		AMOUNT CAPTURED			Information to	Summary 3 CRT		
	Consumption	NCV/GCV	C02	CH4	N2O	CO2 CH4		N2O	CO2	CO2		CH4		N	120
	(L1)		(t/TJ)	(kg/TJ)	(kg/TJ)	(kt)	(kt)	(kt)	(kt)	Method	EF	Method	EF	Method	EF
1.A.2 Manufacturing industries and construction	573,340					58,298.779	28.741785	4.739078	-3,883,895						
Liquid fuels	291,880					15,420.599	19.617865	1.835238	-1,278.995						
Solid fuels	80,100					35,465.82	0.9345	0.6141							
Gaseous fuels (6)	96,000					5,080.8	0.552	0.5808							
Other fossil fuels (7)	10,000					1,397	1.3								
Peat (8)	9,760					934.56	0.01952								
Biomass (3)	85,600					6,268	6.3179	0.4543	-917.4						
1.A.2.a. Iron and steel	L								550						
Liquid fuels	-10000								500						1
Solid fuels			0	00603	C		NE		400						1
Gaseous fuels (6)			U.	00003	-		INC		300						1
Other fossil fuels (7)					- 41				200						1
Peat (8)					1	Edit			100						1
Biomass (3)							-		-50						1
1.A.2.b. Non-ferrous metals					1		ana a 1		NO						4
Liquid fuels	L <del> </del>				<b>a</b>	Notation Ke	ey 🕨 🕨	V C	- NE						
					~										
						Refresh valu	-								

- In cells containing values, the only notation key is C (Confidential) allowing a user to mark that CRT Variable as "Confidential". A "C" flag is added as a suffix to the numeric value. While the value in the confidential cell is still visible in the software it will not be exported to CRT
- ✓ If issues are identified during the finalization phase, user may toggle to IPCC Inventory Software worksheets, and address issue. Selecting "Refresh value" will update view in CRT visualization tables



### Step 5. Generate JSON file for export to CRT

	CRT Data Set Manager	- <b>-</b> ×	
CRT Data Set n	hame	Date created	
Test 1990 - 1994		12.05.2023 13:23:07	
Test 1995 - 2000		17.05.2023 08:22:13	
Test 2001 - 2005		17.05.2023 08:27:30	
UNFCCC JSON Test (SVK-1990)		16.05.2023 10:07:36	
ew CRT Data Set Edit CRT Data Set Open tables	Generate JSON Refresh values Delete	CRT Data Set Close	JSON file importable by UNFCCC

Step 6. User proceeds to conduct any QC checks in UNFCCC electronic reporting tool



### **IPCC Inventory Software: CRT Export Quick Start Guide**

• First Iteration

IPCC Inventory Software

UNFCCC Interoperability –

**CRT Export Quick Start Guide** 

#### Contents

Introduction 3
CRT Data Set management 3
What is CRT Data Set
CRT Data Set management screen 3
New CRT Data Set 4
Edit CRT Data Set 5
Open tables
Generate JSON
Refresh values7
Delete CRT Data Set
CRT Tables
CRT Table actions 10
Single-cell actions
Multi-cell actions
Editable cells 15
CRT Table Documentation Box16

This Guide was prepared by the Technical Support Unit (TSU) of the IPCC Task Force on National Greenhouse Gas Inventories (TFI) to help users of the IPCC Inventory Software.

It has not been subject to formal IPCC review procedures.

 Description of functionalities in IPCC Inventory Software to prepare data for generation of JSON file for use by UNFCCC electronic reporting tool.



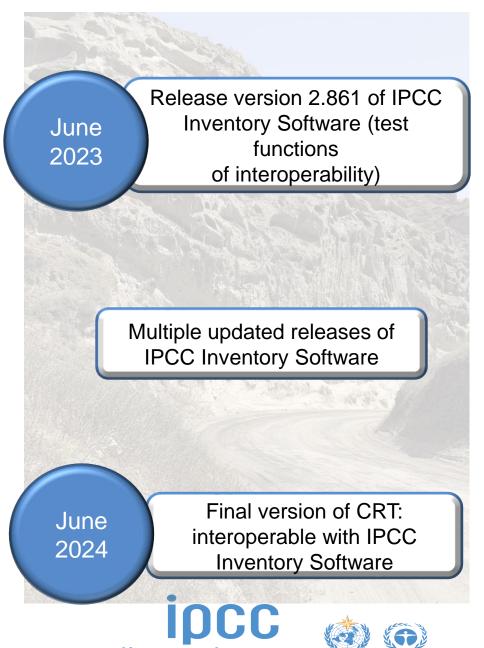
# The Road Ahead

- Multiple releases between now and COP28, and beyond to June 2024, are expected.
- ✓ The best way for Parties to prepare for reporting under the ETF, is to start today.
- Learn more about IPCC Inventory Software and download the latest version:

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

Please continue to support us through testing and reporting your findings to <u>ipcc-software@iges.or.jp</u>

In the 7<sup>th</sup> IPCC assessment cycle (from end of July 2023) the plan may be subject to changes, depending on consideration by the IPCC and the new Bureau of the Task Force on National Greenhouse Gas Inventories





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

