

IPCC Inventory Software

IPCC Side-event- IPCC-TFI tools for National GHGs Inventories

UN Climate Change Conference

Bonn, Germany 19 June 2019

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IPCC Inventory Software- Presentation Outline

- ➤ Part 1:-
- ✓ Introduction/Overview
- ✓ Key functions/features of IPCC Inventory Software
- **>** Part 2:-
- ✓ Updates on implementation of Tier 2 methods in IPCC inventory Software







Part 1: IPCC Inventory Software – Key Functions/Features





Introduction

The IPCC Inventory Software implements the 2006 IPCC Guidelines for National Greenhouse Gas Inventories. It can also be used for reporting under the 1996 IPCC Guidelines

✓ it allows countries to utilise the improvements in the methodologies and default values since 1996

The IPCC launched the IPCC Inventory Software in 2012

The latest officially published version is available from: http://www.ipcc-nggip.iges.or.jp/software/index.html





IPCC Inventory Software - Key features

The IPCC Inventory Software can assist inventory compilers in using the IPCC Guidelines

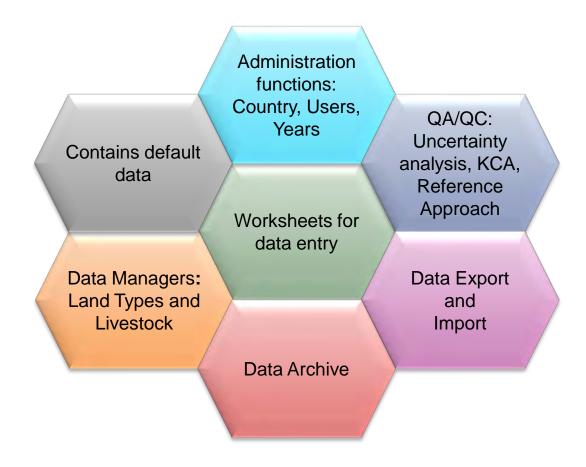
- Stand alone software with modest hardware requirements
- Data entry in worksheets following the 2006 IPCC Guidelines for ease-of-use
- It can be used for the whole inventory or just individual categories
- Allows different parts of the inventory to be developed simultaneously
- Can be used when reporting 1996 or 2006 Guidelines
- Provides default data from the 2006 IPCC Guidelines but gives users the flexibility to use their own country-specific information
- Tools includes Uncertainty and Key Category Analysis
- Aids QA/QC
- Outputs in non-Annex I National Communications format
- FREE!





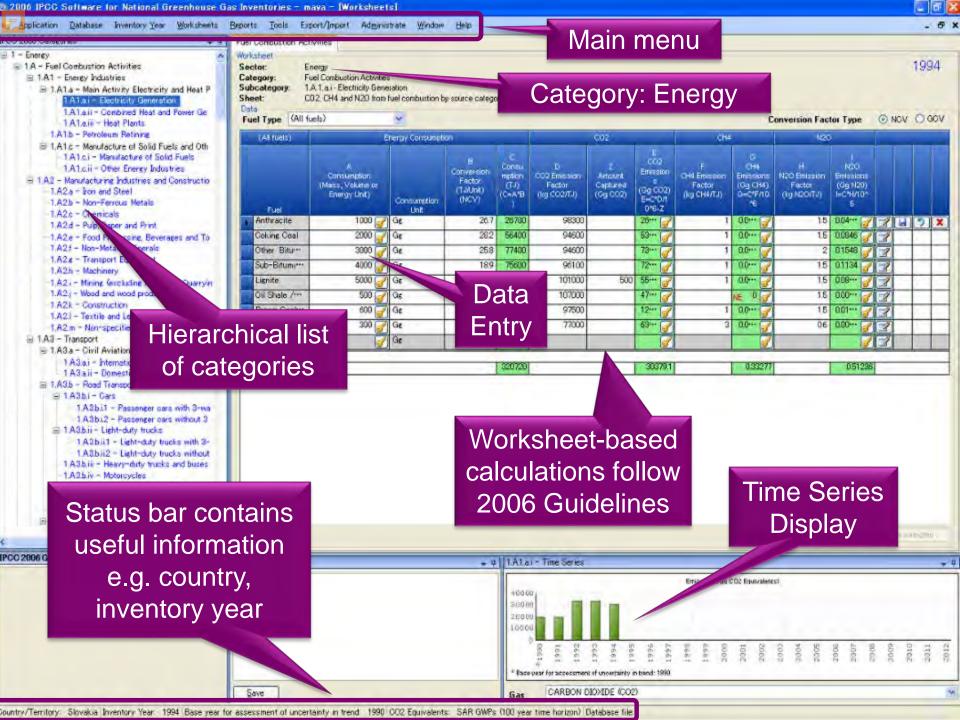


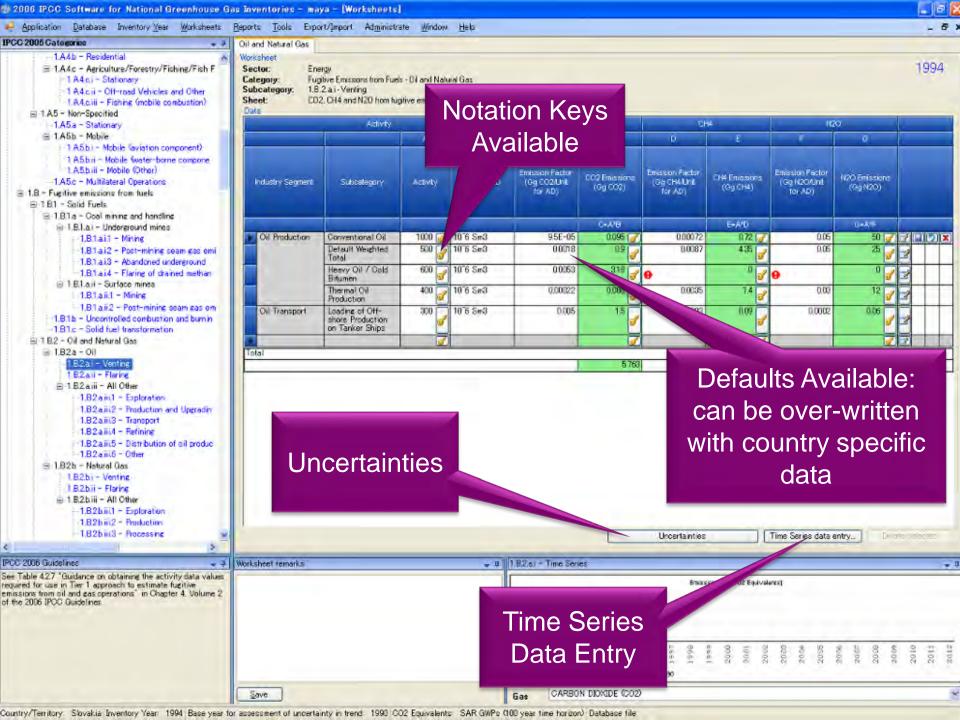
Software Functions



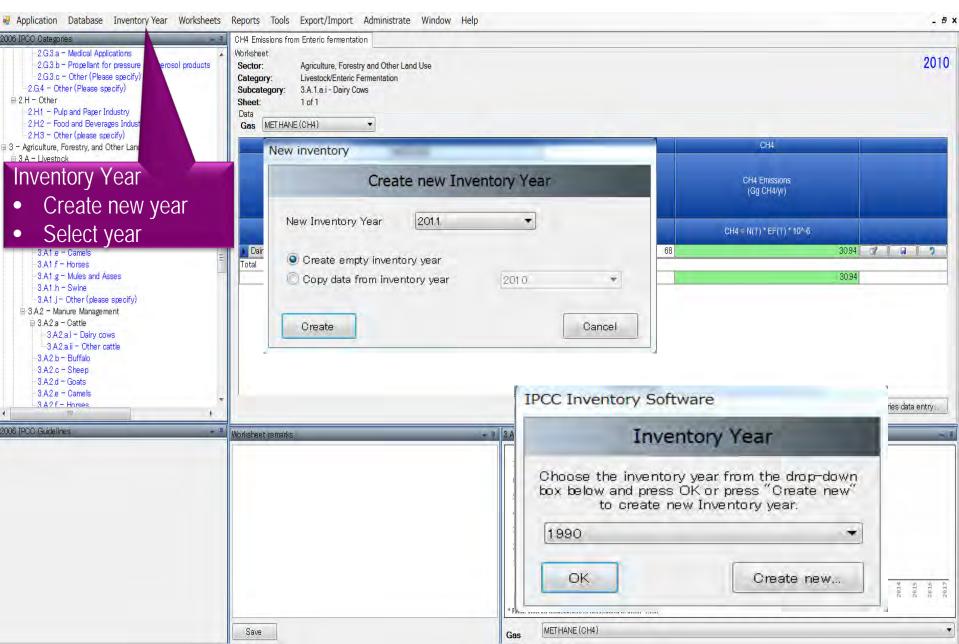








Inventory Years





Reports

Report	Level	Contents
Summary	1.A.1	Emissions
Short summary	1.A	Emissions
Sectoral	1.A.1.a.ii (most disaggregated level)	Emissions
Background	1.A.1.a.ii (most disaggregated level)	Activity data Emissions

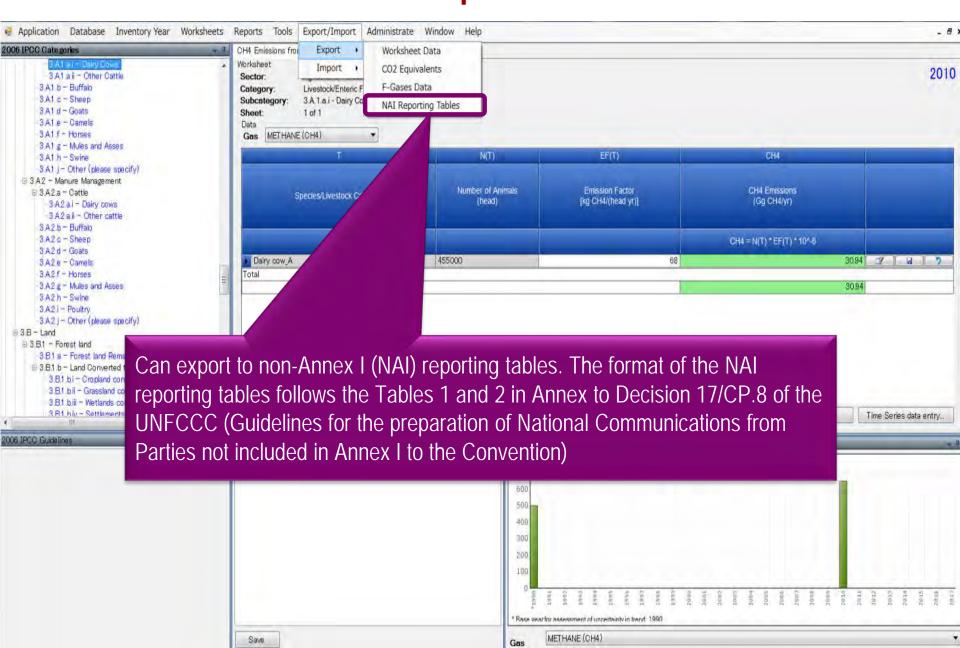
Note: All reports can be exported as MS Excel file







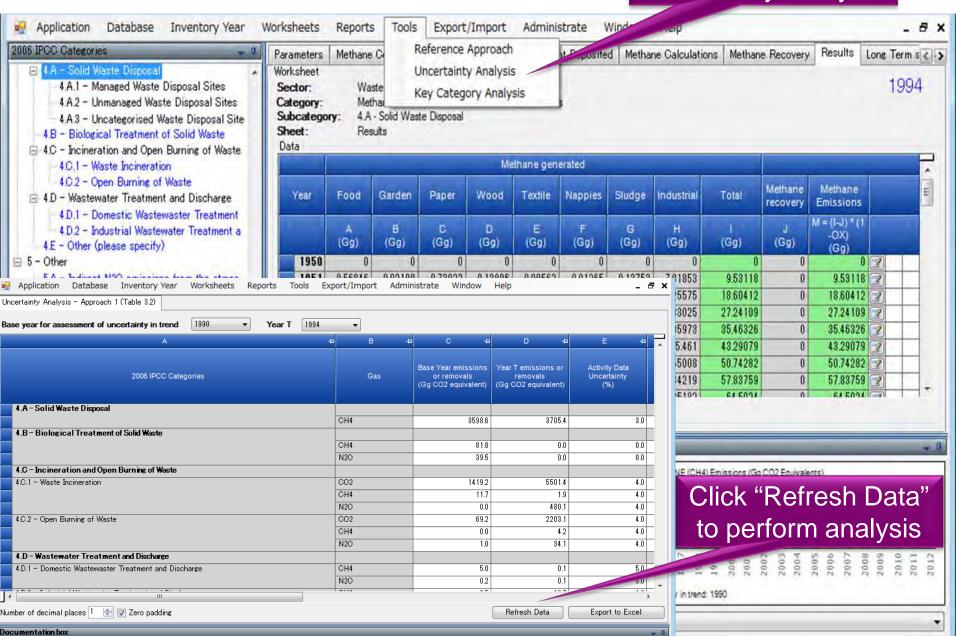
Reports



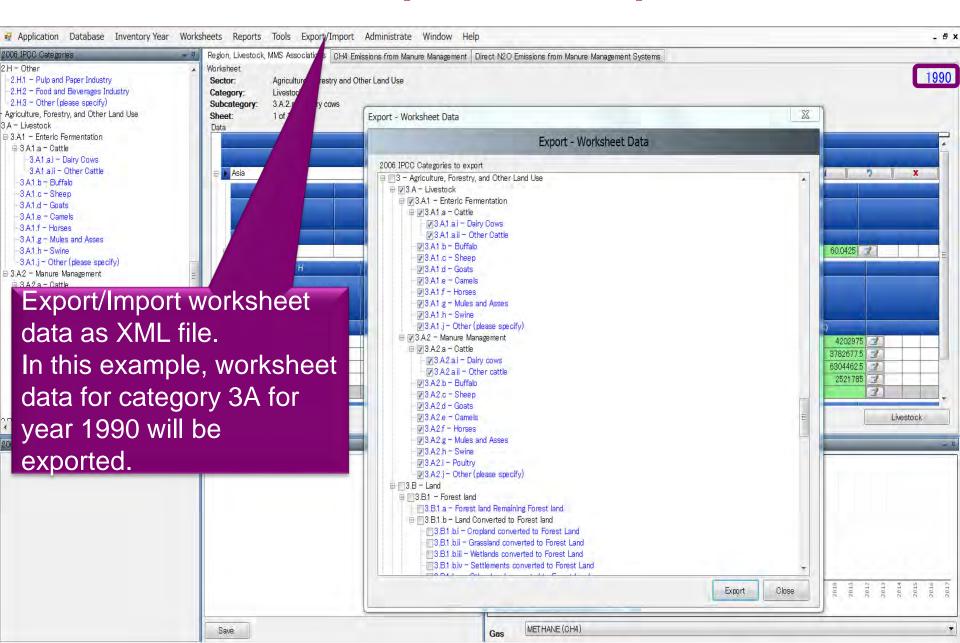


Tools

Click Tools – Uncertainty Analysis



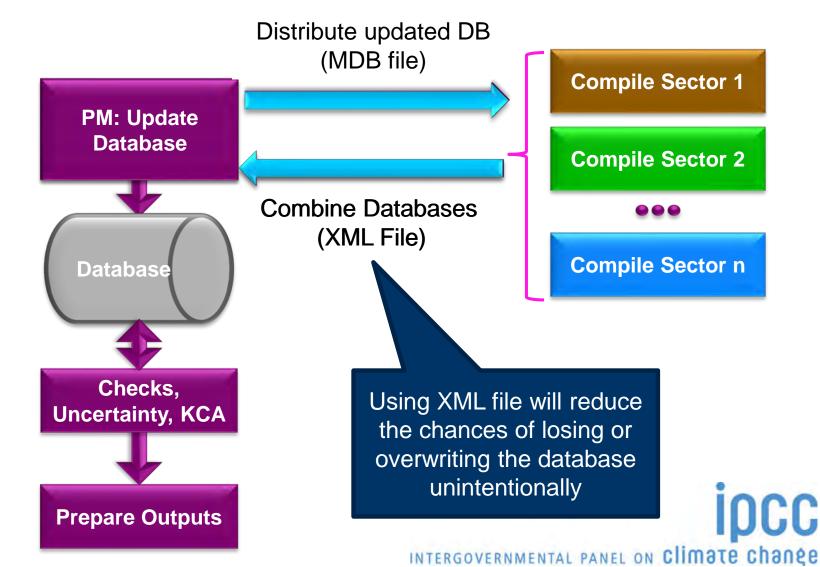
Data Export and Import



Multiple Users

Project manager

Sectoral Experts(s)





Support

- o The TSU is supporting the IPCC Inventory Software:
 - Help Desk E-mail: ipcc-software@iges.or.jp
 - Web Forum: https://discussions.zoho.com/ipccinventorysoftware/
 - ✓ please, read the User Manual
- TSU will maintain the IPCC Inventory Software and is planning to implement the following:
 - Tier 2 methods
 - Wetlands Supplement





Implementation of Tier 2 Methodology for the IPCC Inventory Software





Tier 2 Implementation

> TFI-TSU has adopted a phased approach in implementing tier 2 work:

➤ Work on Tier 2 methods in the 2006 IPCC Guidelines for most categories under Energy, IPPU and Waste Sectors has been completed and are implemented in version 2.54

> Details on Tier 2 coverage maybe found at:

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

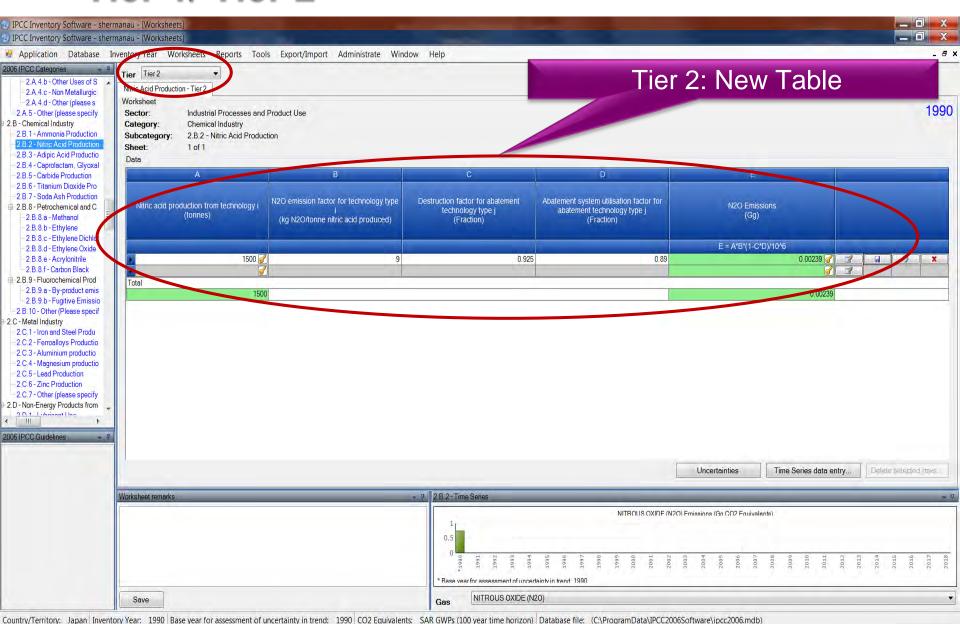




	#	Category	Gas								
		1 - Energy									
		1.A - Fuel Combustion Activities	CO2	CH4	N2O	HFCs	PF∩s	SF6	NF3	Other	
Categories (non-AFOLU)		1.A.3 - Transport	002	0114	1120	111 03	1103	310	141 3	Outci	
,		1.A.3.a - Civil Aviation									
with adjustments or with	1	1.A.3.a.i - International Aviation (International bunkers)	х	х	х						
•	2	1.A.3.a.ii - Domestic Aviation	х	х	х						
new worksheets to		2 - Industrial Processes and Product Use									
Hew worksheets to		2.A - Mineral Industry									
perform Tier 2 estimates	3	2.A.1 - Cement production	Х								
perioriii fiei 2 estilliates	4	2.A.2 - Lime production	Х								
	-	2.B - Chemical Industry									
	5	2.B.2 - Nitric Acid Production 2.B.3 - Adipic Acid Production			X						
For the other categories no	7	2.B.4 - Caprolactam, Glyoxal/Glyoxylic Acid Production			X						
	8	2.B.6 - Titanium Dioxide Production	х								
new Tier 2 worksheets are		2.B.9 - Fluorochemical Production									
	9	2.B.9.a - By-product emissions				х	Х	х		Х	
included, either because the		2.C - Metal Industry									
Tier 1 worksheets are	10	2.C.3 - Aluminium production	х				х				
Her I worksneets are	11	2.C.4 - Magnesium production	х					х			
already suitable for Tier 2		2.D - Non-Energy Products from Fuels and Solvent Use									
	12	2.D.1 - Lubricant Use	Х								
(Energy) or because it was	13	2.D.2 - Paraffin Wax Use	Х								
	1/	2.E - Electronics Industry 2.E.1 - Integrated Circuit or Semiconductor				.,	.,	.,			
not possible to include them	14 15	2.E.2 - TFT Flat Panel Display				X	X	X	X	X	
since significant elaboration	16	2.E.3 - Photovoltaics				X	X	X	X	X	
	17	2.E.4 - Heat Transfer Fluid				<u> </u>	X				
is required (just a few, Iron		2.G - Other Product Manufacture and Use									
	18	2.G.1.c - Disposal of Electrical Equipment					х	х			
and Steel, Ferroalloys,		2.G.2 - SF6 and PFCs from Other Product Uses									
Petrochemicals, Aluminium-	19	2.G.2.a - Military Applications						х			
renochemicais, Aluminum-	20	2.G.2.b - Accelerators						х			
CO2).		4 - Waste									
<i>552</i> /.		4.C - Incineration and Open Burning of Waste									
	21	4.C.1 - Waste Incineration	х	х	Х						
	22	4.C.2 - Open Burning of Waste	Х	Х	Х						
	23	4.D - Wastewater Treatment and Discharge 4.D.1 - Domestic Wastewater Treatment and Discharge									
	24	4.D.2 - Industrial Wastewater Treatment and Discharge		X							
	24	4.0.2 - Industrial Wastewater Treatment and Discharge		Х							



Tier 1/ Tier 2



Implementation of Tier 2 methods - AFOLU Sector.

- ➤ At present (IPCC) software implements the 2006 IPCC Guidelines for National Greenhouse Gas Inventories at Tier 1 for the entire AFOLU sector.
- ➤ Development to implement tier 2 methods for the AFOLU sector is underway and includes Wetland Supplement (at Tier 1)
- Agriculture sector Tier 2 implementation for livestock categories was completed in 2018, new test version of software with Tier 2 for livestock categories is expected second half of 2019.
- ➤ Work on implementation of Tier 2 for LULUCF categories is due to start (June 2019)
- ➤ Implementation of Wetlands Supplement, is an extension to 2006 IPCC Guidelines dealing with new methodologies for calculating and reporting emissions for inland/coastal, drained/rewetted lands under Land Use sector





Thank you for your attention! Any questions?



