

IPCC Inventory Software: Waste Sector

IPCC TFI Side Event Sharm el-Sheikh Climate Change Conference November 2022





Major updates

Subnational disaggregation at a category level

Tier 3 methods in 2006 IPCC Guidelines (Volume 5)

Methods in Wetlands Supplement (Chapter 6)

Improvements in worksheet structure and layout

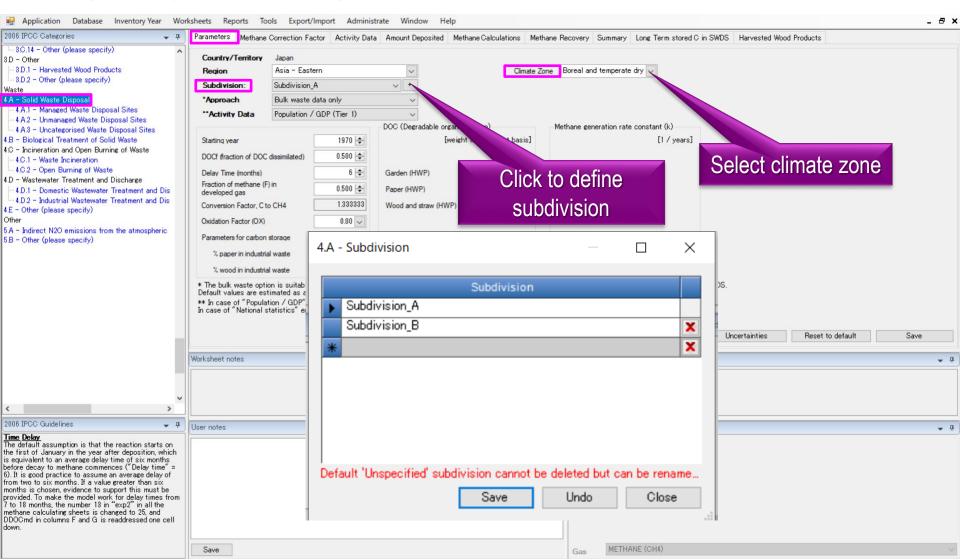






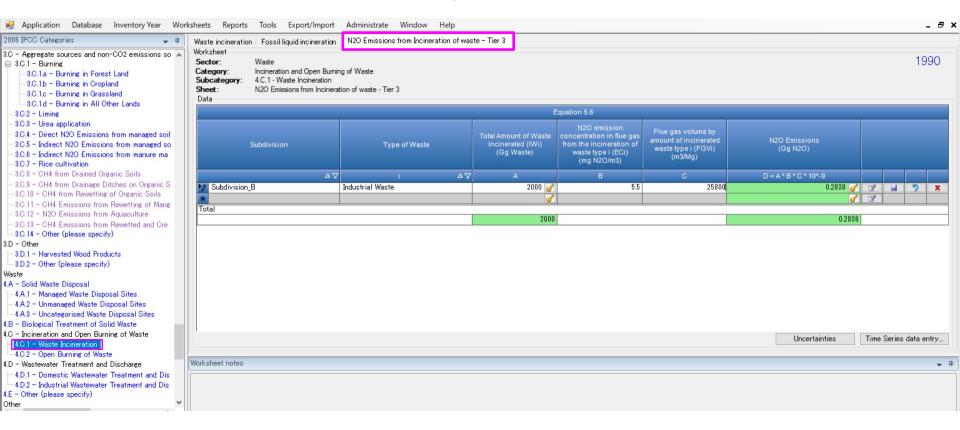
Subnational disaggregation

• Subdivision allows estimation of emissions at subnational level (e.g., regions by climate zone)



Tier 3 methods

 Estimation of N₂O emissions from waste incineration based on site specific data and flue gas concentration (Equation 5.6, Chapter 5, Volume 5, 2006 IPCC Guidelines)

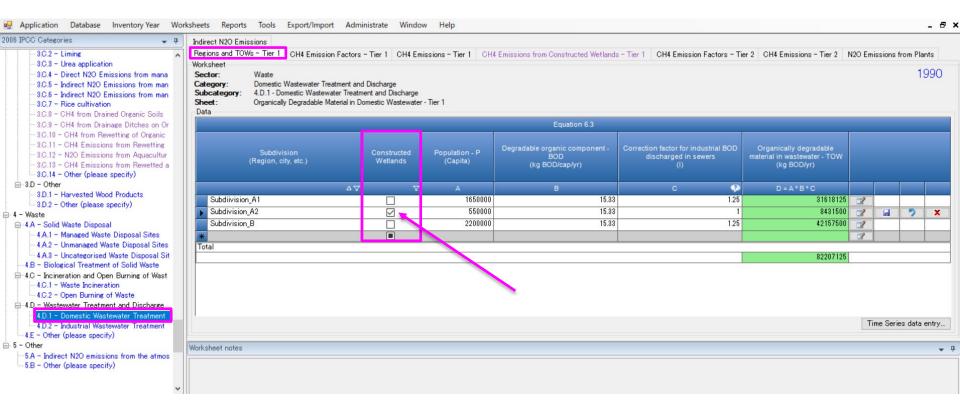






Wetlands Supplement

 Methods for estimation of CH₄ and N₂O emissions from constructed wetlands for wastewater treatment



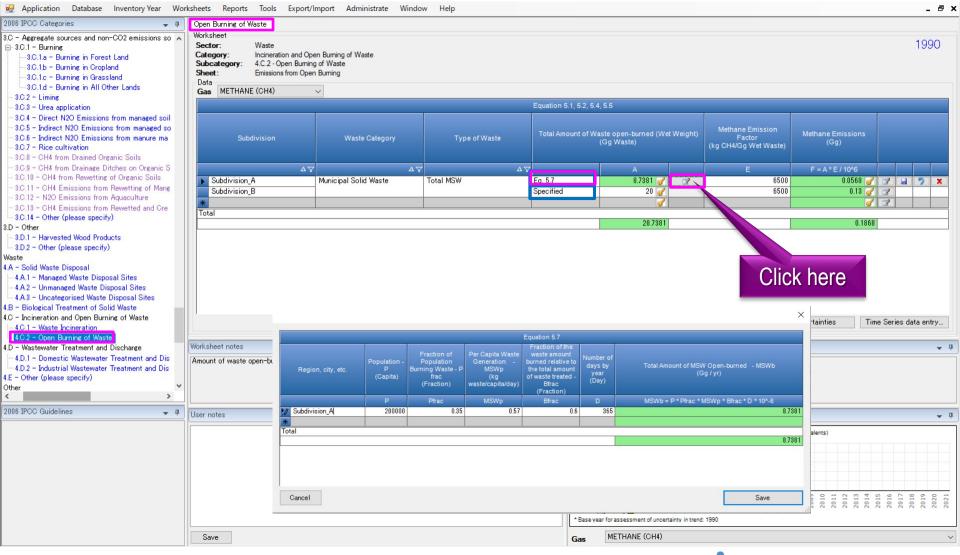
Note 1: Worksheets are subject to change due to ongoing update of the software (not updated/changed in beta version 2.83)







Improvements in worksheet structure and layout









Worksheets map

IPCC category	Total number of worksheets	Worksheets		
		Tier 1	Tier 2	Tier 3
4.A Solid Waste Disposal	9(+3)		9	
4.A.1 Managed waste disposal sites	1*			
4.A.2 Unmanaged waste disposal sites	1*			
4.A.3 Uncategorised waste disposal sites	1*			
4.B Biological Treatment of Solid Waste	1		1	
4.C Incineration and Open Burning of Waste	4			
4.C.1 Waste incineration	3		1	
			1	1**
4.C.2 Open burning of waste	1		1	
4.D Wastewater Treatment and Discharge	13			
4.D.1 Domestic wastewater treatment	8	6	2	
4.D.2 Industrial wastewater treatment	5	4	1	
4.E Other	1***		1	

Note 2: Worksheet counts show number of tabs and are subject to change due to ongoing update

^{**} Separate worksheet for Tier 3 estimation of N₂O emissions from waste incineration (Equation 5.6)





^{*} Additional worksheets to allow reporting of CH₄ emissions by solid waste disposal type

Worksheets (total)

IPCC category	Total number of worksheets	
4.A Solid Waste Disposal	12	
4.B Biological Treatment of Solid Waste	1	
4.C Incineration and Open Burning of Waste	4	
4.D Wastewater Treatment and Discharge	13	
4.E Other	1	
Sectoral total	31	



Summary

- Subdivision allows subnational disaggregation of emission estimates and flexibility based on data availability and national circumstances
- Implements higher tier methods of the 2006 IPCC Guidelines (Volume 5) and methods of the Wetlands Supplement (Chapter 6)
- Improvements in worksheet structure and layout provide more streamlined user interface
- Guidebook for Waste sector is under development





Thank you

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



