

















HANGE C	Inputs
Task Force on () INTERGOVERNMENTAL PANEL ON CLIMATE C Inventories () () () () () () () () () () () () ()	 Numerical Data: Activity Data and its uncertainties. Emission Factors and other parameters as described in the printed worksheets in the 2006 Guidelines and the uncertainty of each. Additional Information Choice of Tier Data Reference (source of data) Comments Numerical input data can be: A number A notation key (limit input to those specified in the 2006GL Uncertainties are expressed as +/- 95 percentiles. (Typically users write this as +/-x, +x and - y. Data may be expressed in absolute terms or as percentages and users should have flexibility on how to express inputs.) The system should have a data version control. This will record the user name of who made changes to the database and the date of the change. It is expected that, in phase 1, users will input data in standard units. At a later stage this may be adapted to allow alternative units to be used with software unit conversions, proposals should allow for this in their design. Some input modules may have text references to external databases but no direct hyperlinks.



CHANGE CHANGE	Greenhouse gases						
ON CLIMATE (es in 96 elines	carbon dioxide (CO2) methane (CH4)	hydrofluorocarbons (HFCs) perfluorocarbons (PFCs)				
ITAL PANEL	Gase 19 Guide	nitrous oxide (N2O)	sulphur hexafluoride (SF6)				
GOVERNMEN	Additional Gases in 2006 Guidelines	nitrogen trifluoride (NF ₃)	trifluoromethyl sulphur pentafluoride (SF ₅ CF ₃)				
		halogenated ethers (e.g., $C_4F_9OC_2H_5$, CHF ₂ OCF ₂ OC ₂ F ₄ OCHF ₂ , CHF ₂ OCF ₂ OCHF ₂)					
		$CF_{3}I, CH_{2}Br_{2} CHCI_{3}, CH_{3}CI, CH_{2}CI_{2} \\ C_{3}F_{7}C(O)C_{2}F_{5}, C_{7}F_{16}, C_{4}F_{6}, C_{5}F_{8} \text{ and } c-C_{4}F_{8}O.$					
nventorie IPCC							



Module	Annual or Time series	Number of Calculation pages	Notes
Energy	Annual	11 (4 additional for Reference approach QA/QC)	Provide Annual Total Fuel Use from sum of fuel consumption data input by fuel type for QA/QC. Energy Balance Data can be entered into the Reference approach QA/QC sheet for comparison by users. "abandoned underground coal mines" should allow time series data entry For CCS use Reporting Table 1.4b as there is no worksheet in the 2006 Guidelines
Fluorinated Gases – Foams (2F2)	Time Series	1	
Fluorinated Gases – Refrigeration and Air Conditioning (2F1)	Time Series	1	Default data from global database to be provided
Fluorinated Gases – Fire Protection (2F3)	Time Series	1	
IPPU other than fluorinated gases above	Annual For 2F4, 2F5, 2F6, 2G2 and 2G3, users need to input data for two different years.	69 (2 additional for QA/QC checks on Non-Energy Use of Fuels)	Note spreadsheet to check Non-Energy Use of Fuels for QA/QC checks For "2BS Carbide Production" and "2B7 Soda Ash Production", users should choose one from two calculation pages. (Users should not use both of those two pages). For "2G1 Electrical Equipment" and "2G2c Other", users should be able to duplicate the tables to calculate emissions of different gases using the same calculation procedure as needed. There are no worksheets in the 2006 guidelines ages for the following source/sink categories: 2A5, 2B10, 2C7, 2D3, 2D4, 2E5, 2G4, 2H so the calculation page will be for data input only.
HWP	Time Series	1	Time series default activity data from FAO entered by user.
AFOLU other than HWP	Annual and time series	66	Provide annual total land areas as sum of individual land types as a QA/QC check Provide annual total numbers of livestock as QA/QC check Time series is needed for lands converted.
SWDS	Time Series	1	Spreadsheet contain default data
Waste other than SWDS	Annual	18	Provide annual total waste and waste per capita (including SWDS) as QA/QC check
Import Precursor Gases	Time Series	This facility is to are: SO ₂ , NO _x , N	enter data from other inventory estimates for these gases for reporting - not to do any calculations. The gases H_3 . NMVOC and CO.

CHANGE		A Wo	orks	hee	ət						
ы		Sector	Energy								
		Category	Fuel combustion activities								
s È		Category Code	1A ⁽⁰⁾								
8 २ ०५		Sheet	4 of 4 (CO ₂ , CH ₄ and N ₂ O from fuel combustion by source categories – Tier 1)								
N N			Energy consumption			CO		CH,		N _i O	
NEL O	2		A Consumption (Mass, Volume or Energy unit)	B Conversion Factor (TJ/unit)	Consumption (TJ)	D CO ₂ Emission Factor (kg CO ₂ /TJ)	E CO ₂ Emissions (Gg CO ₂)	F CH ₄ Emission Factor (kg CH ₄ /TJ)	G CH ₄ Emissions (Gg CH ₄)	H N ₂ O Emission Factor (kq N ₂ O /TJ)	N ₂ O Emissions (Gg N ₂ O)
A	\mathbf{X}				C=A*B		E=C*D/10 ⁶		G=C*F/10*		I=C+H/10*
-		Biomass				Informatio	n items°				
È		Wood / Wood Waste									
ш	3	Sulphite Lyes									
MNS	S	Other Primary Solid Biomass									
Ш́.	\sum	Charcoal									
8		Biogasoline									
Ő	1	Biodiesels									
μ	\geq	Other Liquid Biofueis									
IN		Landfill Gas									
F-X		Sludge Gas									
200		Other Blogas									
A CONST		Municipal wastes (biomass fraction)									
-						Total		Total		Total	
		⁸ Fill out a copy of this workshere ⁹ Information Item: Emissions fr	et for each source cat rom blomass fuels are	egory listed in Tal only reported as	ble 2.16 of the Stationa an information item be	ry combustion chapter and cause they are not added t	i insert the source cate to the national totals. Th	pory name next to the wor bey are dealt with in the Al	ksheet number. FOLU sector.		
Task Force or Inventories	IPCC										



















