

Additions/revisions to the 1995 IPCC Guidelines for National Greenhouse Gas Inventories

Sector ¹	Volume	Chapter/Section	Summary of additions/revisions ²
1. Energy	Reference Manual (Volume 3)	Chapter 1, Energy	<p>Main changes are :</p> <ul style="list-style-type: none"> • assignment of GHG emissions from autoproducers to the sector where they were generated and not to the transformation sector (<i>revision</i>); • development of a Tier 1 method for estimating non- CO₂ GHG and SO₂ emissions based on fuel consumption (<i>new</i>); • development of a Tier 2 method for estimating emissions from aircraft (<i>new</i>); • inclusion of default values for various types of traditional biomass fuels (<i>new</i>); • clarification of the definition of National Navigation (the definition of International Marine Bunkers remains unchanged)
	Workbook (Volume 2)	Module 1, Energy	
2. Industrial Processes	Reference Manual (Volume 3)	Chapter 2, Industrial Processes	<p><i>New</i> methods and default data for the estimation of emissions of</p> <ul style="list-style-type: none"> • direct greenhouse gases (CO₂, CH₄, and N₂O) and SO₂ from: <ul style="list-style-type: none"> - mineral production; - chemical industries; - metal manufacture. • ozone precursors (NO_x, CO, NMVOC) from : <ul style="list-style-type: none"> - chemical industries - metal manufacture • halocarbons (PFCs, HFCs) and sulphur hexafluoride (SF₆) from metal manufacture, use and production. <ul style="list-style-type: none"> - Tier 1 (a): for bulk chemicals; - Tier 1 (b): for bulk chemicals and chemicals stored in products; - Tier 2 : product (containing PFCs, HFCs, SF₆) lifetimes are taken into account.
	Workbook (Volume 2)	Module 2, Industrial Processes	
<p>¹ Chapter 3, "Solvents and other product use" has not been revised.</p> <p>² A revision of an existing methodology or default data is referred to as a '<i>revision</i>'. In cases where an additional method has been developed and default data provided, this is defined as '<i>new</i>'.</p>			

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4. Agriculture	Reference Manual (Volume 3)	Chapter 4: Agriculture, Methane Emissions from Rice Cultivation	<ul style="list-style-type: none"> • Revised method and new default data for the estimation of Methane Emissions from Rice Cultivation uses: <ul style="list-style-type: none"> - internationally-agreed definitions of rice ecosystems (<i>revision</i>); - default data (e.g. seasonally integrated CH₄ emission factors) (<i>new</i>); - scaling factors for CH₄ emissions factors relative to continuously flooded fields (without-organic amendment) (<i>new</i>).
	Reference Manual (Volume 3)	Chapter 4: Agriculture, Agricultural Soils and Manure Management	Additions and revisions include: <ul style="list-style-type: none"> • default method for the estimation of nitrous oxide emissions from Manure Management and Agricultural soils (<i>new</i>); • revised default emission factors for the estimation of direct emissions of N₂O from soils (<i>revision</i>); • default data (e.g. N₂O emission factors for animal waste and for indirect emissions) (<i>new</i>).
5. Land-use Change & Forestry	Workbook (Volume 2)	Module 4 : Agriculture Agricultural Soils, Manure Management, and Methane Emissions from Rice Cultivation	
	Reference Manual (Volume 3)	Chapter 5, Land-use Change & Forestry	<ul style="list-style-type: none"> • Revised/new default data and classification are suggested for: <ul style="list-style-type: none"> - land-cover types (<i>revision</i>); - rates of forest conversion (<i>new</i>); - aboveground biomass for native tropical forests (<i>revision</i>); - rates of tropical forest regrowth (<i>revision</i>) • Method for the estimation of CO₂ fluxes from agricultural soils (<i>revision</i>) and default data (<i>new</i>).

¹ Chapter 3, "Solvents and other product use" has not been revised.

² A revision of an existing methodology or default data is referred to as a '*revision*'. In cases where an additional method has been developed and default data provided, this is defined as '*new*'.

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6. Waste	Reference Manual (Volume 3)	Chapter 6, Waste	<ul style="list-style-type: none"> • Solid waste disposal <p><i>Revised/new</i> data and classification are listed below for:</p> <ul style="list-style-type: none"> - solid waste disposal site classification: definition encompasses all sites classified in the current <i>Guidelines (revision)</i>; - methane correction factor to account for the methane generation potential of the site (<i>new</i>); - wider range of default data for waste generation, composition and disposal data (<i>revision</i>). <ul style="list-style-type: none"> • Wastewater - <i>revised</i> approach and default data for calculating CH₄ emissions (<i>revision</i>). • Human sewage - method and default data for the estimation of N₂O emissions (<i>new</i>).
	Workbook (Volume 2)	Module 6, Waste	

¹ Chapter 3, "Solvents and other product use" has not been revised.

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