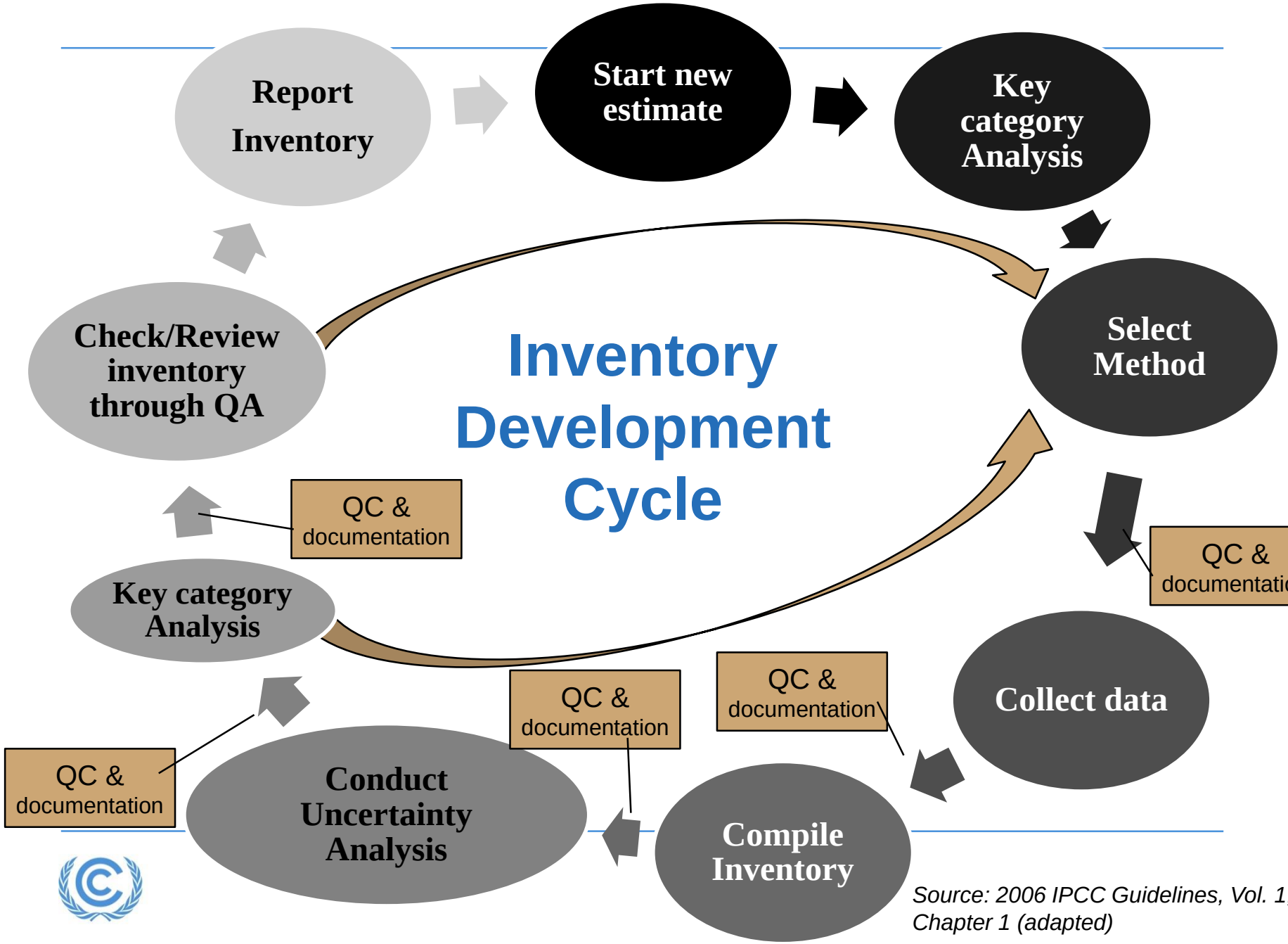
United Nations Framework Convention on Climate Change

Reporting GHG inventory tables and the use of the CRF Reporter

Information session

SBSTA 51

Madrid, Spain, 3 December 2019



Source: 2006 IPCC Guidelines, Vol. 1, Chapter 1 (adapted)

Types of CRF tables

- *Summary tables*

  (emissions (one year), emission trends (years of the time-series))

- *Other cross-sectoral tables*

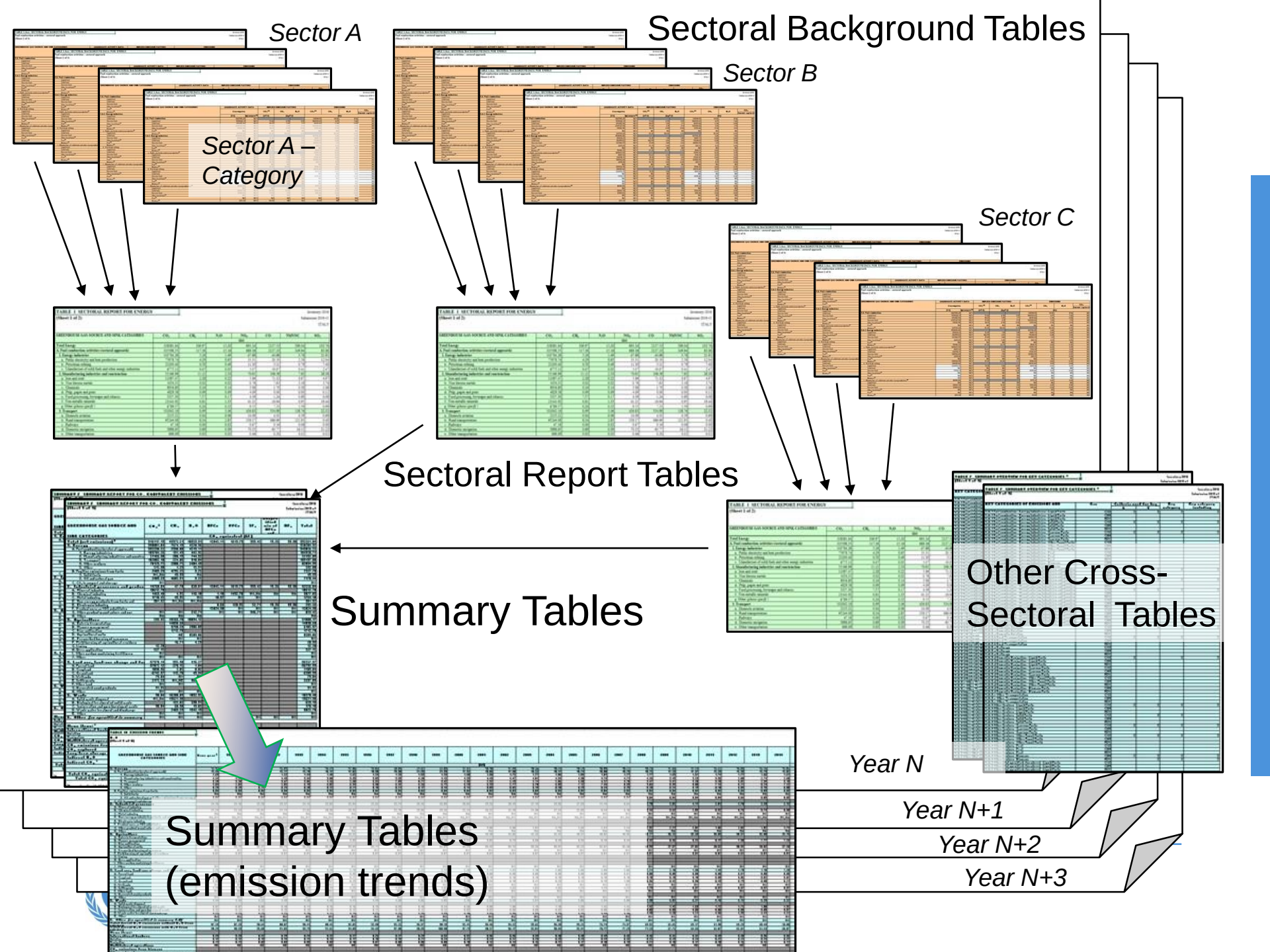
  (Indirect Emissions, Key Categories, Recalculations)

- *Sectoral tables*

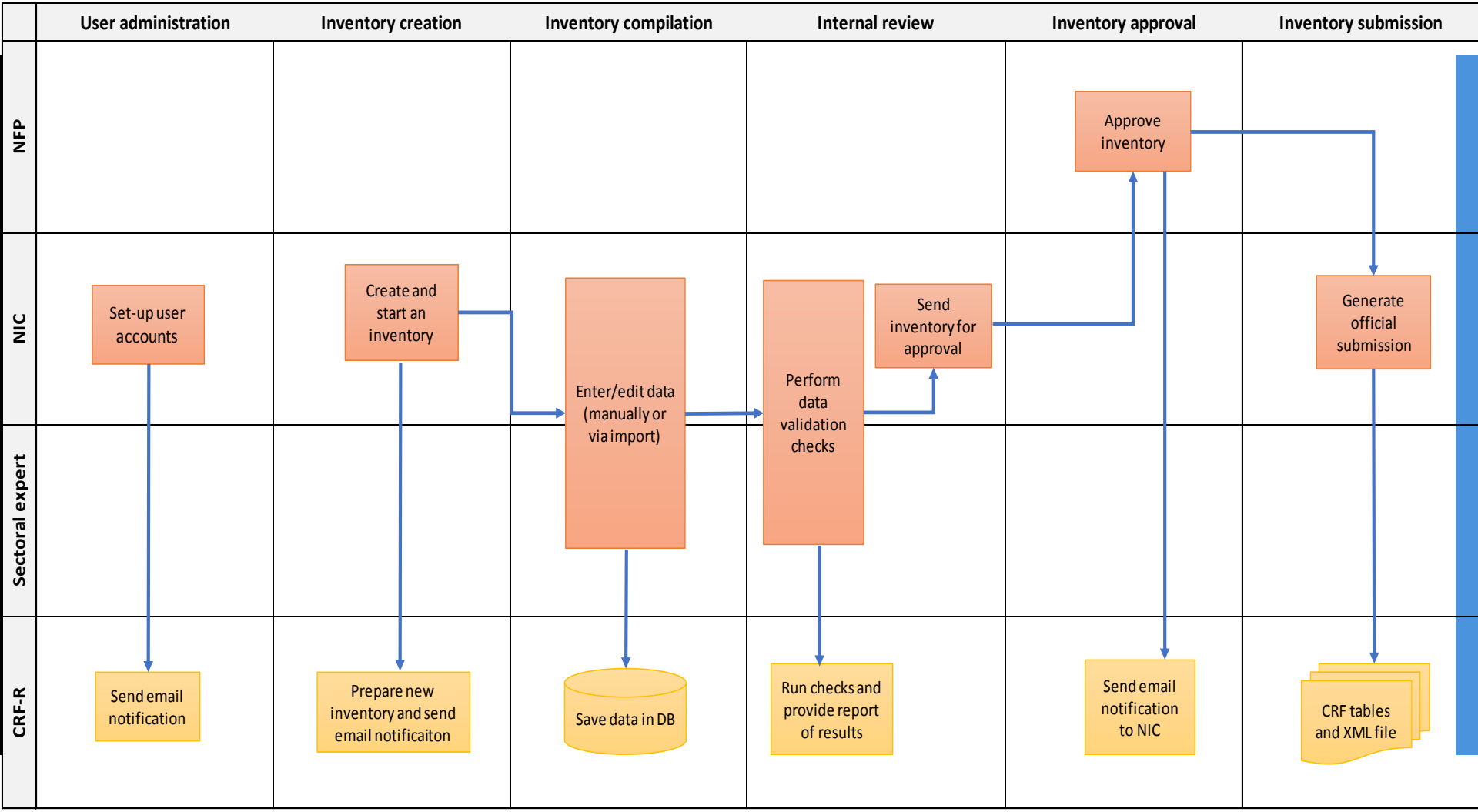
  - Sectoral Report Tables (Emissions/removals)
  - Sectoral Background Data Tables

    (Activity Data, Implied emissions factors, Emissions/removals, Additional information)
  - Other

    (e.g. reference approach for energy, Land transition matrix)


Sectoral Background Tables
Sector A
Sector A – Category
Sector B
Sector C
Sectoral Report Tables
Summary Tables
Other Cross-Sectoral Tables
Summary Tables (emission trends)
Year N
Year N+1
Year N+2
Year N+3

Workflow in the CRF Reporter



Inventory compilation

- **AD and emissions** → two ways to enter data for sectoral background data
  a) Manual entry
  b) Export/Import
     - Excel
     - XML

- **Automatic calculation**
  a) IEF (Emissions/AD)
  b) Aggregation of emissions/removals

- **Database** → information saved in real-time

- **Automatically generated tables (no data entry** required):
  a) Summary
  b) Trend
  c) Key Categories Analysis (KCA)
  d) Recalculation

Workflow to populate CRF tables

CRF Reporter user interface

Id	[5. Waste][5.A Solid Waste Disposal][5.A.1 Managed Waste Disposal Sites][5.A.1.a Anaerobic]	Unit	1990	1991
L1	Annual waste at the SWDS	kt	46,686.590841	4[illegible]00.979704
L2	MCF		1.00	1.00
L3	DOCf	%	50.00	50.00
L4	Method			
L5	CO2		NA	NA
L6	CH4		T2	T2
L7	Emission factor information			
L8	CO2		NA	NA
L9	CH4		CS	CS
L10	Emissions			
L11	CO2	kt	NE	NE
L12	CH4			
L13	Emissions	kt	1,370.00	1,452.00
L14	Amount of CH4 flared	kt	IE	IE
L15	Amount of CH4 for energy	kt	92.00	103.00
L16	Implied emission factor			
L17	CO2	t/t	NE	NE
L18	CH4	t/t	0.0293446142	0.0351565510
L19	Documentation box			

CRF Tables

TABLE 5.A SECTORAL BACKGROUND DATA FOR WASTE
Solid waste disposal
(Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	ACTIVITY DATA AND OTHER RELATED INFORMATION		
	Annual waste at the SWDS (kt)	MCF	DOC_f %
1. Managed waste disposal sites	46686.59		
a. Anaerobic	46686.59	1.00	50.00
b. Semi-aerobic	NA	NA	NA
2. Unmanaged waste disposal sites	NO	NO	NO
3. Uncategorized waste disposal sites	NO	NO	NO

IMPLIED EMISSION FACTOR		EMISSIONS			
CH_4 (1)	CO_2	CH_4			CO_2 (4)
		Emissions (2)	Amount of CH_4 flared	Amount of CH_4 for energy recovery (3)	
(t/t wa[illegible])		(kt)			
0.03	NE,NA	1370.00	IE,NA	92.00	NE,NA
0.03	NE	1370.00	IE	92.00	NE
NA	NA	NA	NA	NA	NA
NO	NO	NO	NO	NO	NO
NO	NO	NO	NO	NO	NO

Summary, trend, KCA, recalculation tables are automatically filled in