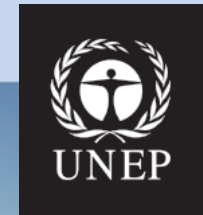


ATMOSPHERIC BROWN CLOUDS

EMISSION INVENTORY MANUAL



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| | | |
|----|--------------|--|
| 1. | Energy | Combustion in energy industry and energy using sectors |
| | | 1.1 Energy industry (Power sector) |
| | | 1.2 Manufacturing and construction (Industrial sector) |
| | | 1.3 Transportation Sector (on-road, air traffic, railways, shipping) |
| | | 1.4 Residential sector |
| | | 1.5 Commercial Sector |
| 2. | Fugitive | Fugitive emissions from fuels |
| 3. | | Process related emissions in manufacturing/process industries |
| 4. | | Solvents and other products |
| 5. | Open burning | Crop residue open burning |
| 6. | | Forest fires |
| 7. | | Municipal solid waste open burning |
| 8. | Others | Other sectors |
| | | 8.1 Agricultural sector (fertilizer, manure, |
| | | 8.2 Waste treatment and disposal |

Chapter X

x.1 Overview

x.2 Emission estimation methods (one or more)

x.3 Data on activity level

x.4 Emission factors

x.5 Temporal and spatial distribution

x.6 Summary (of calculation procedure in the sector/sub-sector)

Pollutants:

Greenhouse gases:

CO₂, N₂O, CH₄,

Trace gases:

SO₂, NO_x, CO, NMVOC, NH₃,

Particulate matter:

PM₁₀, PM_{2.5}, BC, OC

SLCFs

Sources:

Point Sources

Area Sources

Mobile sources

Chapter 11: User Guide of ABC EIM Excel Workbook

11.1 Overview

11.2 Structure of ABC emission inventory template

11.2.1 Menu box

11.2.2 Structure of ABC EI template

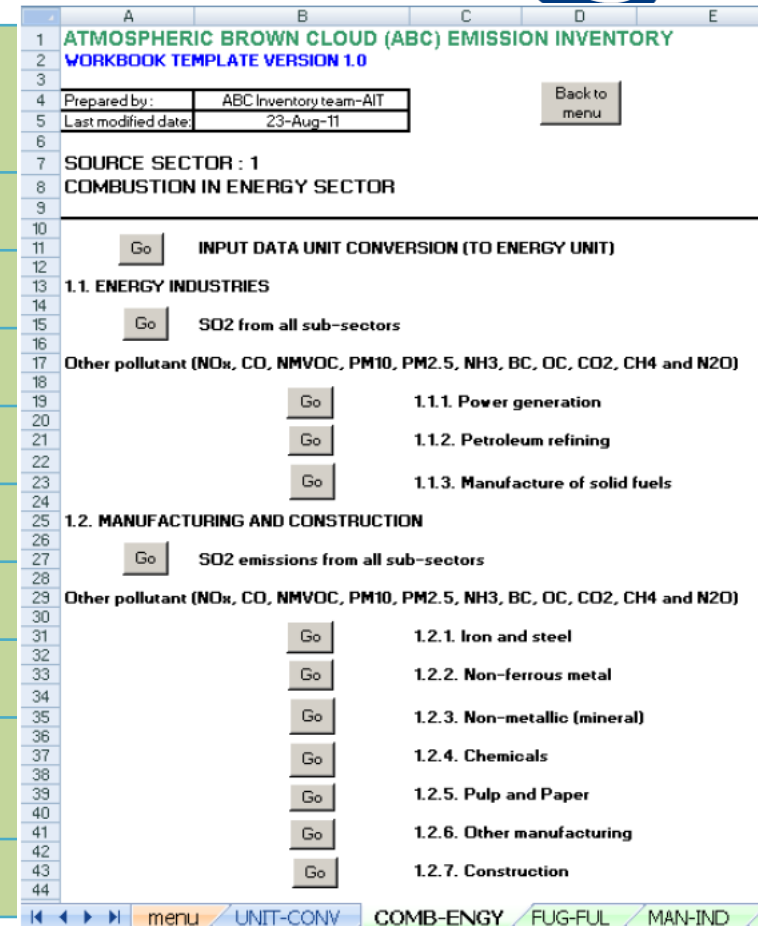
11.2.3 Example of emission inventory template

11.2.4 Temporal emission worksheet

11.2.5 Temporal and spatial distribution

11.2.6 Combination of temporal and spatial distribution

11.3 Summary of emissions



The screenshot displays the 'ATMOSPHERIC BROWN CLOUD (ABC) EMISSION INVENTORY WORKBOOK TEMPLATE VERSION 1.0'. It shows a menu box with 'Prepared by: ABC Inventory team-AIT' and 'Last modified date: 23-Aug-11'. The source sector is set to '1 COMBUSTION IN ENERGY SECTOR'. The interface includes 'Go' buttons for navigating to 'INPUT DATA UNIT CONVERSION (TO ENERGY UNIT)', '1.1. ENERGY INDUSTRIES', and '1.2. MANUFACTURING AND CONSTRUCTION'. Under '1.1. ENERGY INDUSTRIES', there are 'Go' buttons for 'SO2 from all sub-sectors' and 'Other pollutant (NOx, CO, NMVOC, PM10, PM2.5, NH3, BC, OC, CO2, CH4 and N2O)'. The 'Other pollutant' section lists sub-sectors: '1.1.1. Power generation', '1.1.2. Petroleum refining', and '1.1.3. Manufacture of solid fuels'. Under '1.2. MANUFACTURING AND CONSTRUCTION', there are 'Go' buttons for 'SO2 emissions from all sub-sectors' and 'Other pollutant (NOx, CO, NMVOC, PM10, PM2.5, NH3, BC, OC, CO2, CH4 and N2O)'. The 'Other pollutant' section lists sub-sectors: '1.2.1. Iron and steel', '1.2.2. Non-ferrous metal', '1.2.3. Non-metallic (mineral)', '1.2.4. Chemicals', '1.2.5. Pulp and Paper', '1.2.6. Other manufacturing', and '1.2.7. Construction'. The bottom of the screen shows a navigation bar with 'menu', 'UNIT-CONV', 'COMB-ENGY', 'FUG-FUL', and 'MAN-IND' tabs.

Chapter 11: User Guide of ABC EIM Excel Workbook

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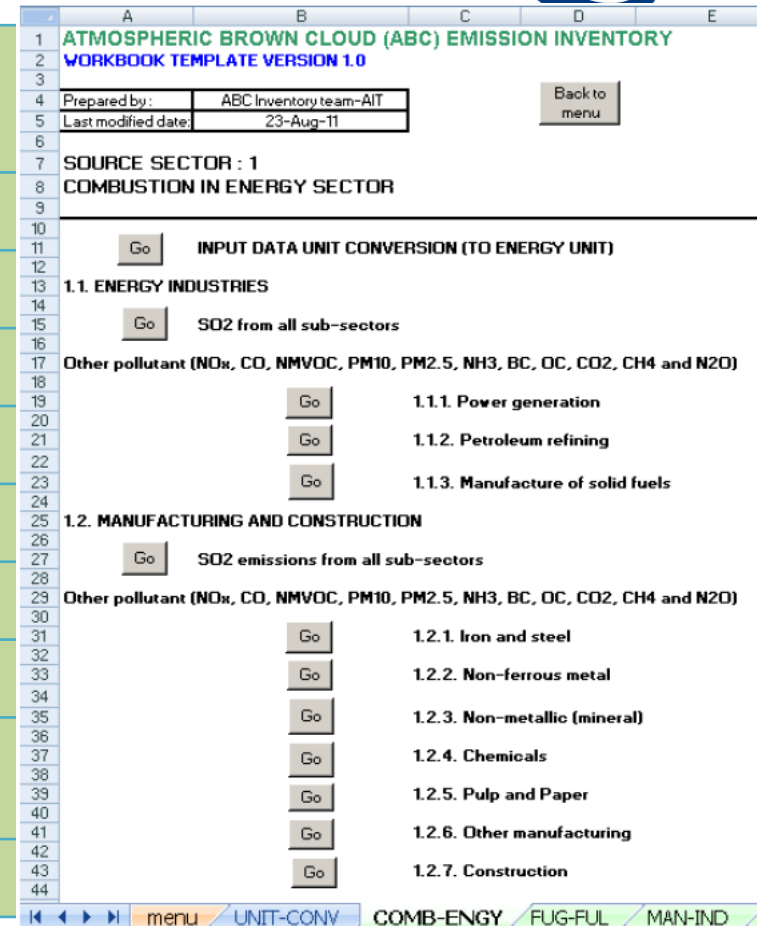
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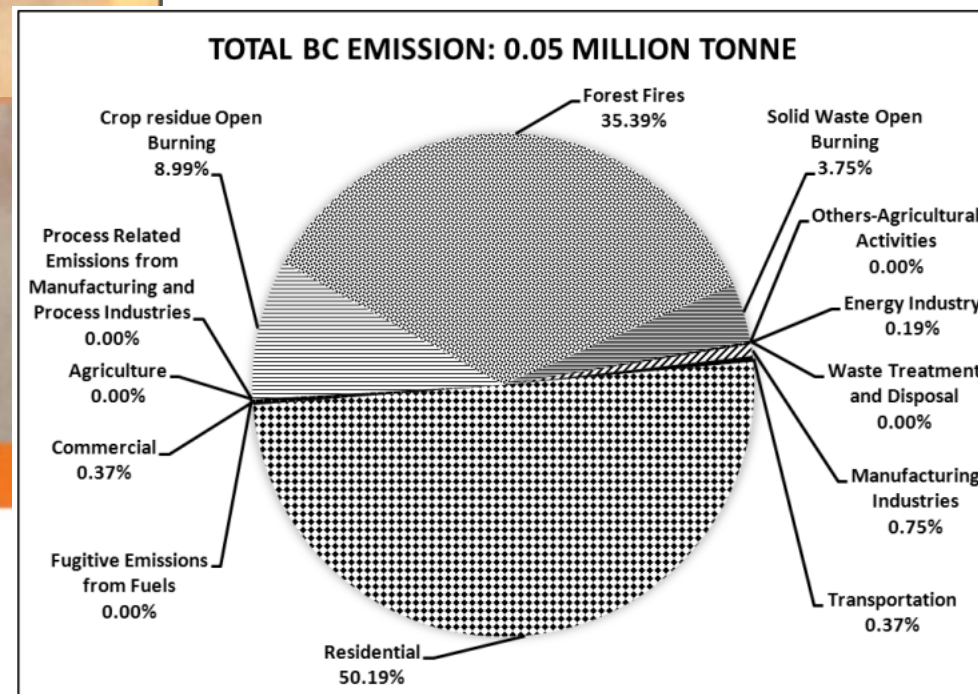
Emissions of Air Pollutants and Greenhouse Gases in Nepal

An Integrated Inventory

Ram M. Shrestha



2018



BC emissions in Nepal 2008/09

- ABC Emission Inventory Manual provides a comprehensive framework with details on (sectoral/sub-sectoral) procedures for estimating emissions of SLCFs.
- Obtaining activity data for sectors or sub-sectors in a country or a region is one of the major challenges for estimating emissions of SLCFs

Thank You

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