# Workshop on IPCC Inventory Software

India's experience in using IPCC Inventory Software

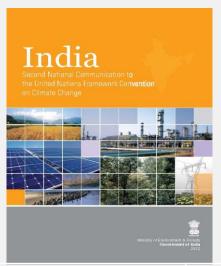
Ajay Raghava Additional Director (Climate Change) Ministry of Environment, Forest and Climate Change Government of India

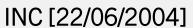
September 2024

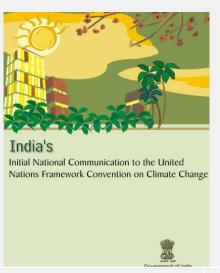


Ministry of Environment, Forest and Climate Change Government of India

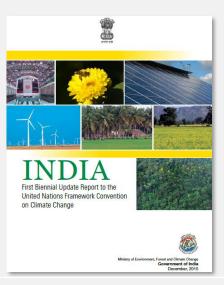
#### India's Submission to UNFCCC So Far



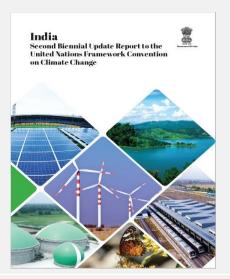




SNC [04/05/2012]



BUR1 [22/01/2016]

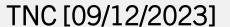


BUR2 [31/12/2018]

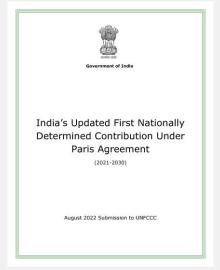


BUR3 [20/02/2021]











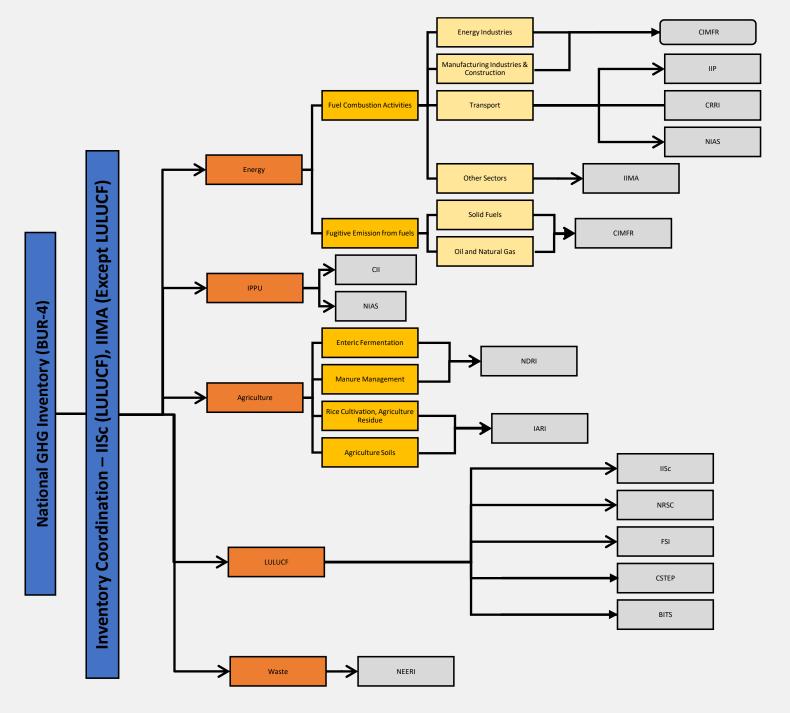
INDC [02/10/2015] Updated NDC [26/08/2022]

LT-LEDS [14/11/2022]

# India's GHG Inventory Submission to the UNFCCC

Report	Submission Year	Inventory Period
Initial National Communication	June 2004	1994
Second National Communication	May 2012	2000
First Biennial Update Report	January 2016	2001-2010
Second Biennial Update Report	December 2018	2011-2014
Third Biennial Update Report	February 2021	2015-2016
Third National Communication	December 2023	2017-2019
Fourth Biennial Update Report	2024	2020
First Biennial Transparency Report	2024	2005, 2020-2021-2022

Institutional
Arrangements
for GHG
Inventory



## IPCC Inventory Software: Benefits

- Freely available, easy to install
- Ensures India's emissions reporting fully aligns with 2006 IPCC Guidelines
- In-built default emission factors useful
- Easy comparison and compilation with previous year inventories
- Different users access support easy coordination
- User-friendly interface reduces the learning curve for Indian experts/stakeholders
- Covers all sectors and gases as per IPCC guidelines
- Allows India to report on its diverse emission sources comprehensively
- Eliminates the need for developing a customized national inventory software
- Generate CRTs for each year, which reduces burden and saves time
- 2019 refinement available in the newer software version

### Feedback and Suggested Improvements

- Xml files of different software versions not compatible
- Difficult to export background data in excel
- Time series import and export as excel file will be useful
- Saving data after each row is time-consuming; auto-save could be introduced
- Cell under subdivision could be voluntary; if we don't mention it, it should allow us to move forward
- May not fully capture India's unique emission sources and circumstances
- Could face performance issues when handling extensive datasets
- May be too complex for use at State or local levels in India
- Does not easily integrate with existing Indian government databases and systems
- Optimize performance for handling large datasets
- Incorporate data visualization and analysis tools specific to India's need