

## **Developing Country Specific Emission Factors for IPPU Sector - A focus on India**

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### **Abstract**

As a major emerging economy, India is at the forefront of global climate action, demonstrating a strong commitment to reducing greenhouse gas (GHG) emissions and promoting sustainable development. A critical component of India's climate strategy is the development and implementation of country-specific and sector-specific emission factors. These tailored emission factors are essential for accurate GHG inventories, effective policymaking, and achieving India's ambitious climate targets, including its Net Zero goal by 2070. The Net zero commitment is part of India's broader strategy to transition towards a low-carbon economy while ensuring sustainable development.

So far, India has developed emission factors for three sectors i.e., 2A1. Cement, 2B2. Nitric acid, and 2B7. Soda ash at sectoral levels as part of GHG inventorisation for IPPU Sector. However, the journey towards comprehensive and precise emission factors is continuous and evolving. We recognize the value of international collaboration in this endeavour. Sharing methodologies, best practices, and innovations with our global peers can accelerate progress, ensuring that our emission factors remain current and reflective of the latest scientific advancements.

This collaborative spirit is at the heart of our approach to climate action, and we look forward to forging partnerships that will help us achieve our environmental goals while contributing to the global knowledge pool. The collaborative effort not only supports emerging economies like India but also contributes significantly to global efforts in combating climate change. While moving forward and as India's commitments for its BTR-1, we aim to develop and revise country specific emission factors for the following Industries:

- Mineral: 2A1. Cement (most of the emissions of Mineral Industry)
- Chemical: 2B1. Ammonia (major contributor of GHG emissions under Chemical Industry)
- Metal: 2C1. Iron & Steel: India aims to include this sector for the very first time under the scope of IPPU emissions and we believe that country specific emission factors for this sector will be beneficial.