

Concept note

Nation-wide study on resource efficiency and climate change in India

Background

No significant study has been done linking/quantifying the benefits of improvements in resource-use efficiency with GHG emissions in India. From a global perspective, with one-seventh of global consumers, and as one of the world's largest economies, India's resource use is a subject of high importance in terms of the impact on economy and environment. This assumes particular significance in view of the Government of India's (GoI) renewed focus on expanding the manufacturing and infrastructure sectors in its overall effort to make India a USD 5 trillion economy (Budget speech of Finance Minister, 2019). An intent to address resource security and environmental sustainability was clearly expressed in the Economic Survey (Economic Survey 2019), also citing the International Resource Panel's estimate of benefits to GHG emissions from improvements to resource efficiency, and UNEP's report (UNEP Annual Report 2018).

Approach

Considering the importance and implications of a study quantifying the benefits that RE measures bring to GHG reduction, the Confederation of Indian Industry (CII) is organizing a nation-wide study, to explore/examine RE-CC links and relationships and identifying leverage points for action/intervention.

The approach proposed for the study and described below mirrors the one adopted by the IRP (<https://cie.research.yale.edu>). Contextualization for India will be undertaken and be part of a preliminary scoping exercise.

CII would like to clearly define the scope and mechanisms of a study on the benefits to climate change arising improved material resource-use efficiency. The proposed elements of the assessment would include Dynamic stock-flow model of materials

- Development and modelling of RE scenarios
- Life cycle assessment of RE strategies and technologies
- Quantification of life-cycle RE benefits
- Categorization and mapping of RE policies
- Detailed, bottom-up knowledge about specific RE strategies

Workshop Output

Through the workshop CII will

- Validate of content and approach for the long-term study
- Assess interest for potential institutional/research partnerships