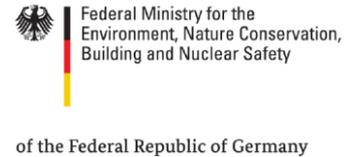




Ministry of Environment,  
Forest and Climate Change



of the Federal Republic of Germany

# International Workshop on “Securing Sustainable Resource Utilization and Reuse of Secondary Raw Materials by Fostering Resource Efficiency”

November 17, 2015  
Hotel Le Meridien, New Delhi, India

## Session Plan

### 9:30 - 11.15am: Inaugural Session

Moderator: Uwe Becker, Project Manager, GIZ

### Objective of the Session

This session will set the context of the conference. The crucial role of the resources for the functioning of the societies and economies will be highlighted. The session will discuss how efficient use and development of resources contribute to a sustainable development path especially in the Indian, European and German context. Further, the focus will be on strategies on resource policy, successful examples and challenges to design and implement these policies. In this context, this session will facilitate informed dialogue and the sharing of experience between Germany and India to achieve a balance by fostering resource efficiency potentials through innovation and designing enabling framework.

### Session Plan:

9.30am: Opening the session by the emcee (Manjeet Singh Saluja, GIZ): 3 minutes Welcome for the Day and introduce and invite Moderator for the opening session

9.30-9:40 am: Moderator (Uwe Becker) Invitation speech with the brief profile of Mr. Mehta

9.40 – 9.55 am: Mr. A.K. Mehta, Joint Secretary (MoEF&CC) Welcome & Opening address

9.55 - 10.00 am Invite by Uwe Becker with the brief profile of Dr. Wendenburg

10.00 – 10.15 am: Dr. Helge Wendenburg - Director General, Directorate, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, Germany (BMUB)

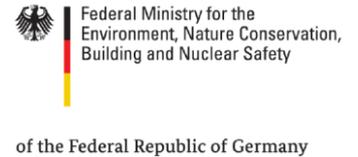
10.15 – 10.20 am : Invite by Uwe Becker with the brief profile of Dr. Rechenberg

10.20 – 10.35 am: Dr. Bettina Rechenberg – Head, Department Sustainable Production, Resource Conservation and Material Cycles, Federal Environment Agency (UBA)

10.35 – 10.40 am: Invite by Uwe Becker with the brief profile of Mr. Samol



Ministry of Environment,  
Forest and Climate Change



10.40 – 10.55 am Vote of Thanks by Mr. Frank Samol, Programme Director, GIZ  
10.55 – 11.00 am : Thank Frank and distribute momentos and Invite Emcee  
10.55 – 11.00 am Group Photo ( of the opening panel)  
10:55 – 11:00 Emcee invites the participants for Tea

11:00-11:20 am: Tea Break

### **Session 1: Introduction of the Indian Resource Panel (InRP)**

**Timings: 11:20 – 13:00 pm**

**Moderator: Mr. Nitin Desai, Ex-Under Secretary General of the UN**

#### **Background**

The future needs of India for resources and its dimensions and challenges, such as resource availability and access, affordability and sustainability, make it clear that resource-efficient production processes and the use of secondary materials are inevitable to meet both growing demand and supply constraints, as sustainable and efficient resource- production processes and use are not only environmentally but also economically and socially beneficial. Up till now multiple initiatives have been taken in India by different stakeholders to promote sustainable resource use. There is, however, still a need for policies that identify the underlying potential for enhancing resource efficiency and promoting secondary resource management across the multiple initiatives and missions of the Government of India as the mentioned benefits are not (yet) enough to trigger an efficient use of secondary resources.

#### **Objective of the Session**

The objective of this session is to launch the Indian Resource Panel (InRP), as an institutional set up facilitated by the Ministry of Environment, Forests and Climate Change (MoEF&CC) and GIZ. The session will deliberate on the consolidation of the initiatives, policies and networks in order to propose a way forward for the Indian economy to be economically, environmentally and socially sustainable. The InRP members would elaborate their expectations from the InRP, reflect possible pathways towards the enabling framework and policy interventions along the value chain for material management.

#### **Session Plan**

Presentation of the InRP (Rachna) – Introduction of the Panel members and the framework of the Indian Resource Panel (InRP): 20 minutes

Opening the session by the moderator: 5 minutes

Guiding questions directed by the Moderator to each Panelist, as per their organization and expertise

Inputs by each speaker: 10 minutes (= 60 minutes)

Panel and open floor discussion (10 minutes)

Distribution of momentos by Moderator and Group Photo (5 minutes)

#### **Guiding questions for the Session:**

- What are the key challenges – social, economic, environmental, regulatory and technical – in ensuring a sustainable supply of materials? How can material use efficiency help in addressing some of these key challenges?
- What are the possible solutions to ensure a sustainable and steady supply of materials? What role can



Ministry of Environment,  
Forest and Climate Change



of the Federal Republic of Germany

the Indian Resource Panel play in strengthening existing policies and developing effective implementation strategies towards promoting resource efficiency?

- How can cooperation with actors from industry, academia, regulatory and civil society in the area of secondary resources be improved?
- What are the drivers that trigger resource efficiency innovation and investments by companies and what policy instruments could be used/developed to enhance these investments?

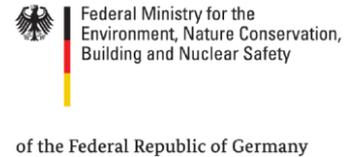
### Speakers

- Dr. Rachna Arora (GIZ) Introduction to the Indian Resource Panel & its objectives
- Mr. R H Khwaja, Former Secretary, MoEF&CC
- Dr. Ashok Khosla, Development Alternatives (DA)
- Dr. Ajay Mathur, Director General, Bureau of Energy Efficiency (BEE)
- Dr. Tishyarakshit Chatterjee, Director, Indian Institute of Public Administration (IIPA)
- Mr. Shikhar Jain, Principal Counsellor, Confederation of Indian Industry (CII)
- Dr. Prasad Modak, Environment Management Centre (EMC)

13.00-14.00pm : Lunch



Ministry of Environment,  
Forest and Climate Change



## Session 2: Resource Efficiency in construction sector

Timings: 14:00 – 15:15 pm

Emcee introduces the moderator and invites at the dias

**Moderator: Dr. Prasad Modak, Indian Resource Panel member, Environment Management Centre (EMC)**

### Background

India is currently seeing a boom in the construction sector owing to rapid urbanisation. The country is poised to become the third largest construction market globally by 2018 with major construction in residential and commercial sectors attributed to a fast growing population and increased aspirational levels. The construction sector will also get a boost due to a proposed investment of around \$1 trillion in infrastructure in the 12th Five Year Plan. The construction sector is highly resource and energy intensive. The Indian construction industry is one of the largest in terms of volume of material resources consumed. For instance, in case of cement and steel, almost 100 percent of cement production is consumed in construction and about 40 – 60 percent of steel production goes into construction. Other materials like soil (bricks), sand (concrete) and limestone (cement) are voraciously consumed by the sector. The critical resources used by construction sector are finite and takes a long time to replenish. Materials which are still traditionally used in construction are sand, soil, stone (aggregates).

### Objective of the Session

Against this background, the panel session on the construction will provide information from the baseline study with the macroeconomic trends on resource consumption patterns. The session will also deliberate on the anticipated increase in material demand and pressure on limited stocks. The session will focus on examples from other countries and business sector in the construction and demolition (C&D) waste sector. In this context, the potentials and opportunities of applying the concept of resource efficiency with a mix of policy instruments like certifications and standards will be discussed.

### Session Plan

Opening the session by the moderator: 10 minutes

Inputs by each speaker: 15 minutes (= 45 minutes)

Panel and open floor discussion (15 minutes)

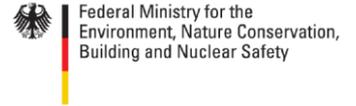
Distribution of momentos by Moderator and Group Photo (5 minutes)

### Guiding questions for the Session:

- How can criticality be assessed for natural resources used in the construction sector? What are the resource synergies that can be explored within the construction sector and competition across sectors to mitigate trade offs for these critical resources? How can secondary raw materials help enhance these synergies?
- What examples do we have from the EU, especially Germany, and India on improving resource utilization and use in the construction sector? How do policy and technology tools help promote resource efficiency



Ministry of Environment,  
Forest and Climate Change



of the Federal Republic of Germany

in the public and private sector?

- How can a policy environment be strengthened at the national and local level to mainstream concepts of resource efficiency in the construction sector? What tools, systems, institutional mechanisms, frameworks need to be put into place?
- What role can the private sector play in transitioning towards a resource efficient economy? What are the pre-requisites required to engage meaningfully in and institutionalize resource efficiency in the industry?
- How can different stakeholders from industry, government, civil society and academia come together to develop strategic approaches for enhancing resource efficiency in the entire value chain of the construction sector?

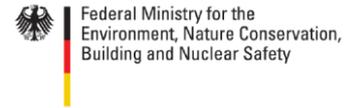
### Speakers

Dr. Soumen Maity, DA  
Juergen Giegrich, IFEU  
Srikath Yajjal, BIS

**15:15-15:35 pm : Tea Break**



Ministry of Environment,  
Forest and Climate Change



of the Federal Republic of Germany

### **Session 3: Resource Efficiency in Mobility sector**

**Timings: 15:35- 17:05 pm**

**Emcee introduces the moderator and invites at the dias**

**Moderator: Mr. Ambuj Sharma, Additional Secretary, Ministry of Heavy Industries and Public Enterprises**

#### **Background**

In the context of addressing the broader sustainability related challenges of an economy, mobility has a very important role to play and India is no exception in this context. The automobile industry produced close to 18 million 2 wheelers and about 3 million passenger vehicles in FY 2014, while the estimates of automotive sales in India is as high as 17.8 million units. Considering an insatiable demand for vehicles on the back of an economy that is expected to grow at an average of 7% for the next 20 years, the Indian auto sector will require disproportionate amounts of natural resources and this will lead to resource restraints for an economy that already has supply side constraints. Automobiles require a very wide variety of raw materials for their production, including iron, which is made into steel, plastic, aluminium and few other materials. In the last few decades, although efforts have been made to reduce the environmental/ecological impacts of the auto industry through process and technological innovations, technology transfers, domestic as well as collaborative R&D activities which has opened avenues for material substitution, better vehicular design that are resource efficient, adoption of cleaner fuels, etc. yet preliminary investigation reveals enormous scope for achieving higher efficiency levels.

#### **Objective of the Session**

The objectives of this session is to provide insights into the macroeconomic trends with respect to resource consumption and resource efficiency in India and Europe. The links between material flows and economic development will be drawn, taking into account global and national perspective. The baseline assessment, collaborative research, case studies from the Indian and German SMEs and further need for action.

#### **Session Plan**

Opening the session by the moderator: 10 minutes

Inputs by each speaker: 15 minutes (= 60 minutes)

Panel and open floor discussion (15 minutes)

Distribution of momentos by Moderator and Group Photo (5 minutes)

#### **Guiding questions for the Session:**

- What examples do we have from the EU, especially Germany, and India on improving resource utilization and use in the automobile sector?
- How can the use of resources in the automobile sector be economized enabling minimum increased in absolute consumption of the resources? How can the contribution made by the secondary raw materials be enhanced in the automobile sector.
- What should be the mechanisms developed to facilitate recycling of materials and create an available supply of secondary raw materials for use in the automobile sector? What policy instruments and institutional mechanisms are needed to take forward the idea of resource efficiency in the automobile sector?
- What innovations, initiatives and certification schemes are created to increase the transparency and traceability of metal resources and reduce social and ecological impacts in the automobile sector?



Ministry of Environment,  
Forest and Climate Change



Federal Ministry for the  
Environment, Nature Conservation,  
Building and Nuclear Safety

of the Federal Republic of Germany

### Speakers

- Mr. Souvik Bhattacharjya, The Energy and Resource Institute (TERI)
- Dr. Werner Maass, VDI Zentrum Ressource neffizienz GmbH (VDI-ZRE)
- Dr. Lars Zeggel, Fraunhofer Institute for Silicate Research ISC
- Mr. Dinesh Vedpathak, Automotive Component Manufacturers Association of India (ACMA Centre for Technology)

17.05 pm – 17.15 pm : Way Forward : Mr A. K. Mehta, Joint Secretary, MoEF&CC

17.15 pm – 17.25 pm : Vote of Thanks : Mr Uwe Becker, GIZ

**17.25 – 19.00 pm : High Tea**