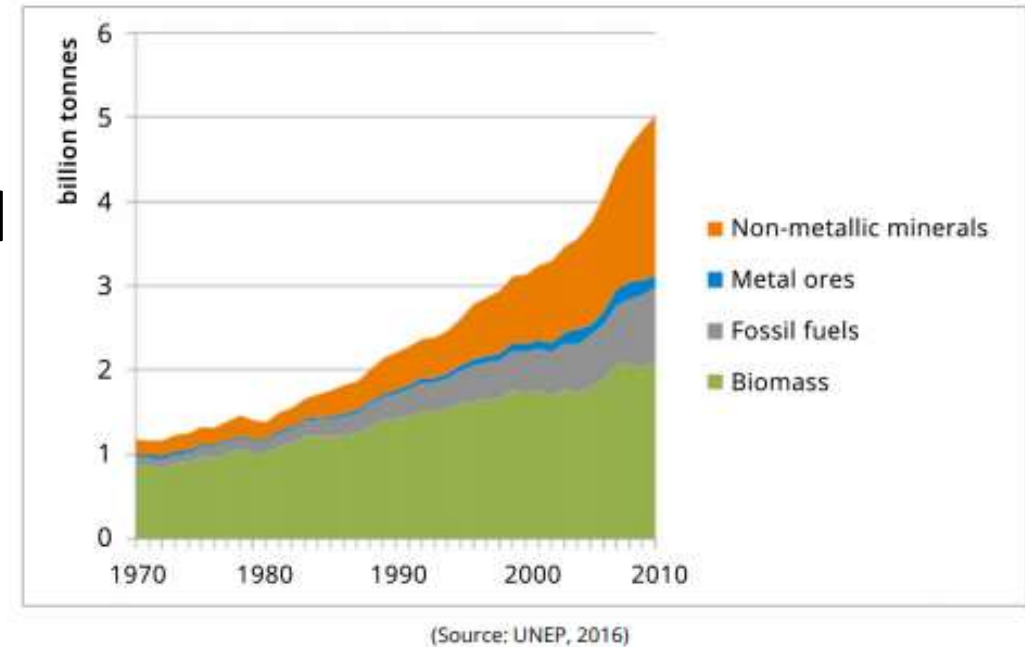


Developing Status Paper on RE & CE in State of Goa

3rd April, 2018

Resource Efficiency Initiative (1/2)

- India's demand for resources experienced significant increase in recent years
- Extraction of primary raw materials increased by around 420% between 1970 and 2010
- While extraction of biotic materials only increased by a factor of 2.4, extraction of abiotic materials, show remarkable augmentation
- A resource efficient path is the need of the hour for meeting human aspirations in a sustainable manner



Resource Efficiency Initiative (2/2)

- While there are many sectors and resources that need attention both from the demand and supply perspectives, EU-NITI REI strategy document calls for action in
 - *Automotive sector*
 - *Construction & Demolition sector*
- In the context of these sectors and beyond, key areas of interventions include
 - *Adoption of efficient technologies and improved process leading to RE*
 - *Effective policies that bring economic instruments, establish standards & leveling, public procurement, etc.*
 - *Institutional Development – Capacity Development, Institutional Set-up & Strengthening,*
 - *Database and Indicators, Resource Index as a part of Economic Survey*

Why Goa

- A small yet extremely important state for the Indian economy due to
 - *Role played in key material augmentation/supply in the economy*
 - *Phenomenal growth in services sector particularly due to state's attraction as a key tourist destination*
 - *State bearing one of India's key ecologically sensitive natural resources*
 - *Substantial demand for infrastructure requirement*
 - *Growing manufacturing presence particularly in metallurgy and chemicals sector*
 - *Panaji featuring in the list of the smart cities*

Status Paper on RE & CE

Objectives: Creation of an enabling environment to mainstream RE & CE in **Strategic areas** at state level for convergence with RE Strategy and SDG goals

Outcome: Policy recommendations for a State-level Action Plan

Situation Analysis

Identification of key areas & issues

1. Identification of priority **Sectors & Challenges**
2. Critical **Areas** for Improvement
3. Mapping **existing measures** at different life-cycle stages (policy, programmes, schemes etc.)

Group-Work on Objectives & Situation-Analysis

1. What are the objectives and scope of Status Paper on RE & CE?
2. What are the key elements and building blocks to address the key challenges in the prioritised sectors?
3. Identify capacity building measures as well as potential projects/ measures in order to optimize the use of existing or build the necessary new capacities, especially at local level;

Methods, Tools and Resources for Action Plan

- **Methods and Tools:** life-cycle analysis, mapping material flows, industrial symbiosis, ecological footprint, green-accounting, sustainable public procurement
- **Resources:** Government schemes, Partnerships (Govt-Industry, State-International Agencies), Best Available Techniques, innovative financing measures
- **Actors:** Major stakeholders

Group Work on Action Plan for Policy Reforms

- Who are the crucial actors who have to be consulted and involved in the decision making process?
- Map the tools that can be identified and its relative application across life cycle stages
- What kind of opportunities and improvement potentials (business models, technologies, financing, policies and standards/codes) can be identified?