FINAL EVENT 09.12.21 13h00-16h00 CET

FTA HIGHLIGHTS OF A DECADE 2011-2021



10 YEARS OF FTA RESEARCH FOR PEOPLE AND THE PLANET **Biomass, Bioenergy and Biomaterials: Engine for** sustainable Development

Li Yanxia, INBAR

On behalf of the team for Volume 8, Robin R. Sears, Himlal Baral, Michael Brady....

10 YEARS OF FTA RESEARCH FOR PEOPLE AND THE PLANET

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Approaches to a wood- and forestbased circular bioeconomy

Production

Restoration of forests and trees on degraded landscapes

Improving the sustainability of productive plantations

Smallholder farms and agroforestry

Sustainable forest management

















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Benefits and impact of sustainable approaches

Global

- Contributes to increasing forest cover
- Restoration of degraded lands
- Reduction of GHG emissions
- Contributes to the circular economy
- Reduces dependence on hi-carbon materials
- Reduces GHG emissions

National

- Improve rural livelihood and food security
- Contribute to meeting national targets (NDCs, SDGs)
- Reduces dependency on fossil fuels
 Decrease demand pressure



Local

- Industrial plantations offer rural employment
- On-farm production provides self-sufficiency and income opportunity
- Contributes to food and nutritional security
- Produced locally yields self-sufficiency
- Simple technology makes it accessible



- Poverty levels decrease
- Women's empowerment
- Stimulate innovation, entrepreneur engagement, investment

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FTA future: shifting towards a woodbased circular bioeconomy

An emergent quality of systems-level perspectives relates the contribution of forests, trees and woodbased products and value chains to the **circular bioeconomy**

Two-pronged approach required to reverse trends in deforestation and forest degradation:

- first, truly achieving sustainability in production and use to alleviate pressures on natural ecosystems,
- second, integrating value-adding innovations in forest activities to improve the livelihoods of rural producers

Measures

- Invests in building natural capital and human capacity for sustainability
- Economic and business models must shift from an extractive to a regenerative relationship with nature, which will require massive investments that are holistic, inclusive and well-distributed along the whole value chain
- Shifting the attention from production to the demand side was indicated for a basis to develop systemic dematerialization measures
- Social equity must be at the core of a shift
- the need to resolve persistent underlying problems in the social dimensions of the wood sector, especially in forest-related policy, land and resource tenure, and value chains
- the wood-based bioenergy and biomaterials agendas (wood-based circular bioeconomy) must be aligned with the forest landscape restoration agenda











Conclusions/Key messages

- Research must continue to identify sustainable pathways for the development of green economies that meet increasing energy and consumption needs while promoting sustainable and equitable access to energy through renewable energy sources based on biomass
- Especially to identify pathways for reducing the ecological footprint of growing biomass for bioenergy and biomaterials and increasing the financial contribution to producers
- Focus on developing and strengthening the forest- and woodbased circular bioeconomy through the Transformative Partnership Platform (TPP)

Alliance

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