

*Promote Bamboo as a Low-carbon Plastics  
Substitute for Green Development*

*Promote the Action of Substituting Bamboo for Plastics  
to Build a Clean and Beautiful World*



## **Celebration of INBAR's 25<sup>th</sup> Anniversary The Second Global Bamboo and Rattan Congress**

7-8 November 2022  
Beijing, China

# **ABSTRACTS**



*“Bamboo and Rattan - Nature-based Solutions for Sustainable Development”*

# Celebration of INBAR’s 25<sup>th</sup> Anniversary The Second Global Bamboo and Rattan Congress

# Abstracts

## Hosts

National Forestry and Grassland Administration, China  
International Bamboo and Rattan Organization

## Organizers

International Bamboo and Rattan Organization Secretariat  
International Centre for Bamboo and Rattan

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**Abstract:** The unique morphological and growth characteristics makes bamboo ideally suited for its use in restoration of degraded landscapes and climate change mitigation efforts. In keeping with the essence of the contemporary principles of landscape restoration, bamboo planting does not merely re-establish the vegetation cover quickly but also engages the local community and contributes to economy by generating livelihood opportunities.

Bamboo, with its great diversity of species and forms, adapts well to a wide range of soils and climatic conditions. The phenomenally fast growth rates, extensive underground rhizome network and dense fibrous root system contribute to the ability of bamboo to quickly restore degraded soils, control soil erosion, conserve water and add organic matter to soil. The high carbon sequestration ability of bamboo and its conversion into durable products constitute a great potential for climate change mitigation and benefits accruing from carbon credits. The multiple uses of bamboo include the traditional uses in building, furniture, implements and as fuel, food and fodder and an expanding range of modern industrial uses. In recent times, bamboo is finding increasing use as engineered bamboo products and for bioenergy and paper/pulp industry. More evidence has been generated in recent times that demonstrate that bamboo is indeed ideally suited for restoring degraded forest and agricultural landscapes through improving the fertility of soils, enhancing biodiversity and becoming a driver of economic development besides contributing to fulfilling several of the SDGs. Examples of successful use of bamboo for landscape restoration from around the world is discussed.

**Keywords:** *landscape restoration, carbon sequestration, multiple uses, soil fertility, water conservation*

## **Brazil begins a new cycle of bamboo development**

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**Abstract:** In 2011, the law on the National Bamboo Policy was passed. However, there were few advances in the production and value chain and in the domestic market, due to leaders with dubious conduct.

In order to enjoy advantage of the opportunities that bamboo represents to the country, in the context of food, civil construction, input for the paper, textile, wood industry, environmental services such as the recovery of degraded areas and carbon credit, and a source of renewable energy was created the Bamboo Parliamentary Front in 2020. Chaired by deputy Giovani Cherini, the front has the support of 215 deputies and 15 senators.

Given the continental dimension of Brazil, a forum with authorities is needed to build

structuring, effective and synergistic public policies. The highlight is the use of bamboo as biomass for ethanol production in Mato Grosso. The biomass is a blend of 60% eucalyptus and 40% bamboo. Eleven contracts were formalized, with a term of 15 years, totaling 4,000 hectares. In August 2022, the state law to encourage bamboo was enacted in Paraná with the objective of professionalizing the chair in order to renew the energy matrix to serve cooperatives, as well as the development of the wood and pulp industry. Recently, the project Capacity and potential for carbon sequestration in bamboo plantations and control mechanisms related to the Cooperation Agreements - National Foundation of Natural Sciences of China / NSFC and FAPESP was enabled.

**Keywords:** *parliament, governance, marketplace, cebis, management*

## **Bamboo green gold perspective**

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**Abstract:** Bamboo provides multi-purpose products for villages and towns, artisan and craft activities, resilient housing, flooring, furniture, fabric, fibre, food and fuel. Bamboos yield fast-growing versatile materials for high-tech industrial processing and commodities worth billions of dollars. Green growth policy paradigms are pertinent to bamboos for equitable economic growth, green jobs, business and industry.

Bamboos provide greenery in rural and urban landscapes while contributing to nutrient recycling, restoration of wastelands, soil stabilization and water phytoremediation. The importance of linking financing, innovative science and adaptive technology calls for convergent cooperation -locally, nationally and internationally.

It is timely to deploy national and international policy systems about economic, environmental, cultural and social dimensions of bamboo composites, their valorisation and quality assurance, benefiting custodians, producers, processors, entrepreneurs, consumers and concerned communities. More so with the emerging Payment of Ecosystems Services, Climate Change mitigation and adaptation, REDD+ remuneration, Green Climate Fund, carbon credits, and contribution to post-2015 Sustainable Development Goals (SDGs).

SDGs and Green Economy agenda for the ‘The Future We Want’ should raise recognition of bamboo as Green Gold for local livelihoods and overall economy. Efforts should be redoubled for placing productive propagation on firm footing of legality and sustainability. Being environmentally friendly, biodegradable, energy-efficient and versatile, enhanced bamboo products will assure their green credentials for globalization, ethical trade and market mechanisms. Policy level leadership and stakeholder stewardship should therefore motivate multi-functional bamboo resource management for holistic human welfare and green economy.

**Keywords:** *local, national and international benefits, global green economy*