

# The planted tree industry and its benefits in fighting climate change

Following an integrated and systematic rationale that spans from the planting of trees to after end products are used by consumers, the planted tree sector is clearly on the right side of the climate equation. Planted trees are essential to combat climate change, removing and storing carbon and giving rise to over 5,000 bioproducts in our everyday lives, natural and sustainable products that replace products from fossil sources. This sector is essential for Brazil to reach its Paris Agreement climate goals.

## Removal and storage

Trees are some of the most efficient mechanisms for carbon removal and storage.

The sector's areas, whether used for production or conservation, serve as carbon reservoirs.

**10.2 million**

hectares of  
planted trees.

**6.91 million**

hectares of  
preserved areas.

**4.92 billion tCO<sub>2</sub>eq**

stored in the sector's forests  
(planted and conservation areas).

Carbon reservoirs

1  
Above  
ground

2  
Under  
ground

3  
Leaf litter

4  
Dead  
wood

5  
In the  
soil

## Stored carbon

Trees are highly efficient in converting carbon into biomass through photosynthesis. This carbon remains stored in the form of wood or forest-based bioproducts. The percentages show some of the amounts of carbon stored in these products.<sup>1</sup>

Wooden table  
**47%**

Shelf-stable  
milk carton  
**45%**

Charcoal  
**75%**

Laminate flooring  
**47%**

Book  
**45%**

## Circularity

The circular economy is essential to reach a regenerative balance, making it easier to decarbonize manufacturing. The planted tree sector is one of the industries that recycles the most in Brazil.

**58.1%**  
paper  
recycling

## Emissions avoided

The sector avoids emissions by offering products similar to those from fossil sources, with benefits for the climate. Emissions are mainly avoided in the manufacturing process by using energy from predominantly renewable sources.

**87%**

of energy consumed  
comes from clean  
sources. The sector  
optimizes use of  
renewable energy in its  
factories, and minimizes  
waste production.

<sup>1</sup> Figure adapted from IPCC, considering a pine table weighing 20 kg, the paper used in a milk carton, 1 m<sup>2</sup> of eucalyptus laminate flooring, and a 5 kg sack of eucalyptus charcoal.