

CARBON CAPTURE TECHNOLOGY AND NATURAL CLIMATE SOLUTIONS

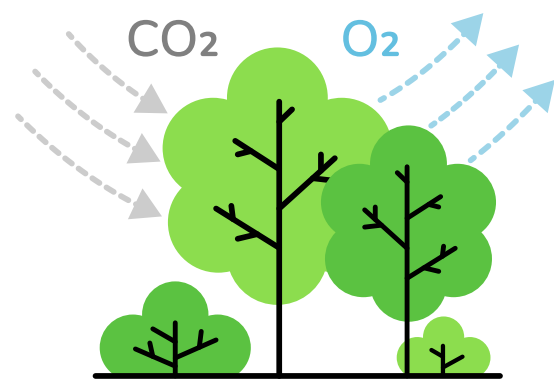
The role of the forest and wood products sector.

What is Carbon Dioxide Removal?

CDR:

any activity that takes carbon dioxide (CO₂) out of the atmosphere.

Natural CO₂ Removal Processes



- Photosynthesis
- Adding biomass to soil
- Absorption by oceans

24 Gt CO₂/year

Mechanical / Chemical CO₂ Removal Methodologies



- Greenhouse gases captured at the emission source or from ambient air
- Carbon dioxide stored underground or utilized

Est. 20 Gt CO₂/year by 2100*

Forest and Wood Products Sector's role:

plays several important roles in both natural and engineered CDR processes

CO₂ avoidance, removal and storage:



- Avoided forest conversion
- Management to reduce wildfire and increase sequestration
- Reforestation
- Bio-based products replacing fossil fuel based products
- Mass-timber in place of steel and concrete
- Biochar as soil amendment

Industrial decarbonization



- Substitution of low-carbon fuels, feedstocks and energy sources (LCFFES)
- Carbon-storing biochar used in concrete, wallboard, plastic and asphalt
- Bioenergy, biofuels, and bioenergy with carbon capture and storage (BECCS)

Co-Benefits of Natural Climate Solutions:



Wildlife Habitat



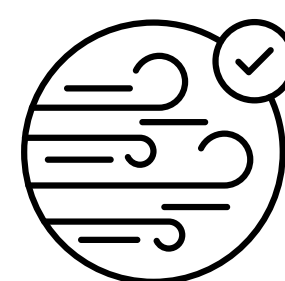
Enhanced Soil Productivity



Flood Control



Recreation Opportunities



Improved Air Quality



Human Health and Well-Being

*engineered carbon removal methodologies are still under development and/or not fully to scale

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