

Wood Products



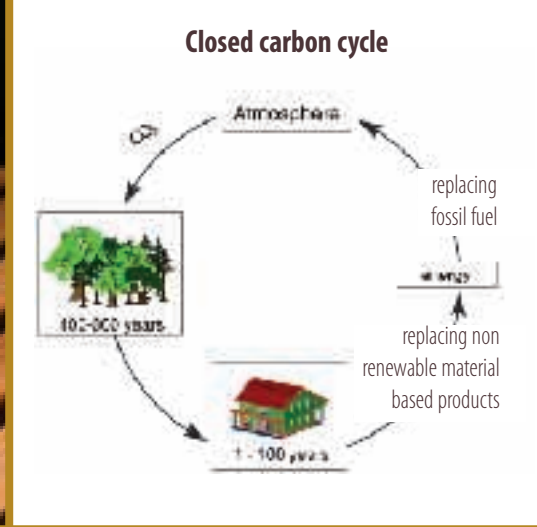
- **Wood is man's only naturally renewable resource**
- **European forests are sustainably managed**
In Europe the annual growth in the forest exceeds the annual harvesting with 4m³/sec
- **Forests and wood products (including wood-based panels) are important carbon sinks**
Wood is formed by photosynthesis from CO₂ and water, thereby blocking carbon in a durable way
- **End-of-life wood products can be reused, recycled or valued as important energy sources**
- **Wood and panel products require less energy for manufacturing (up to 6000 MJ/m³) than other raw materials**

Carbon sink in wooden houses



If 100 000 more houses were to be built per year, with wood substituting for other materials, CO₂-emissions would be reduced by **3 Million tonnes.**





- **More than 75% of the energy, used for manufacturing wood products, is produced from wood residues and recovered wood**
Combustion of wood residues is a CO₂-neutral operation
- **1 m³ of wood used in the building sector can reduce the CO₂ emission from fossil fuels by up to 1.1 tonnes**
A typical wooden house contains about 45 tonnes of timber equivalent to 200 tonnes of CO₂
- **By using the full potential of wood (sink and substitution effects) in buildings, Europe could reduce emissions of CO₂ by 300 million tonnes or 15 to 20%**

Courtesy: Prof. Dr. A. Frühwald, Univ. Hamburg, Germany



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