

The Carbon Intensity of Heat Treated and Kiln Dried Wooden Pallets

This fact-sheet reports carbon intensity of a range of heat treated and kiln dried wooden pallets.

Assessment Scope:

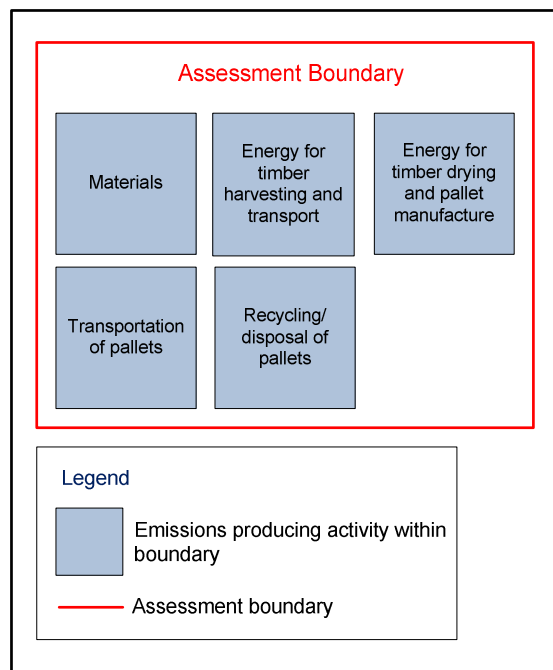
The scope of the study (see Figure 1) includes the CO₂ emissions arising from;

1. the materials from which the pallets are manufactured,
2. fuel consumed for timber harvesting and transportation,
3. energy consumed for timber drying and pallet manufacturing,
4. transportation of the pallet throughout its lifetime and
5. recycling of the pallet. See figure 1.

Wooden Pallets:

The wooden pallets included within this report are heavy and medium duty pallets (1200 x 1000), EUR pallets (800 x 1200) and light and medium duty pallets (800 x 1200).

Figure 1. The assessment scope



The Results

Figure 2 shows the results for heat treated and kiln dried wooden pallets. All of the heat treated and kiln dried wooden pallets are shown to have 'negative carbon intensity'. This is because wood has a negative carbon intensity meaning that while a tree is growing, CO₂ is taken from the atmosphere, rather than being emitted into it and carbon is sequestered and stored.

There are CO₂ emissions associated with wooden pallets however, the majority of which come from energy consumed during manufacture.

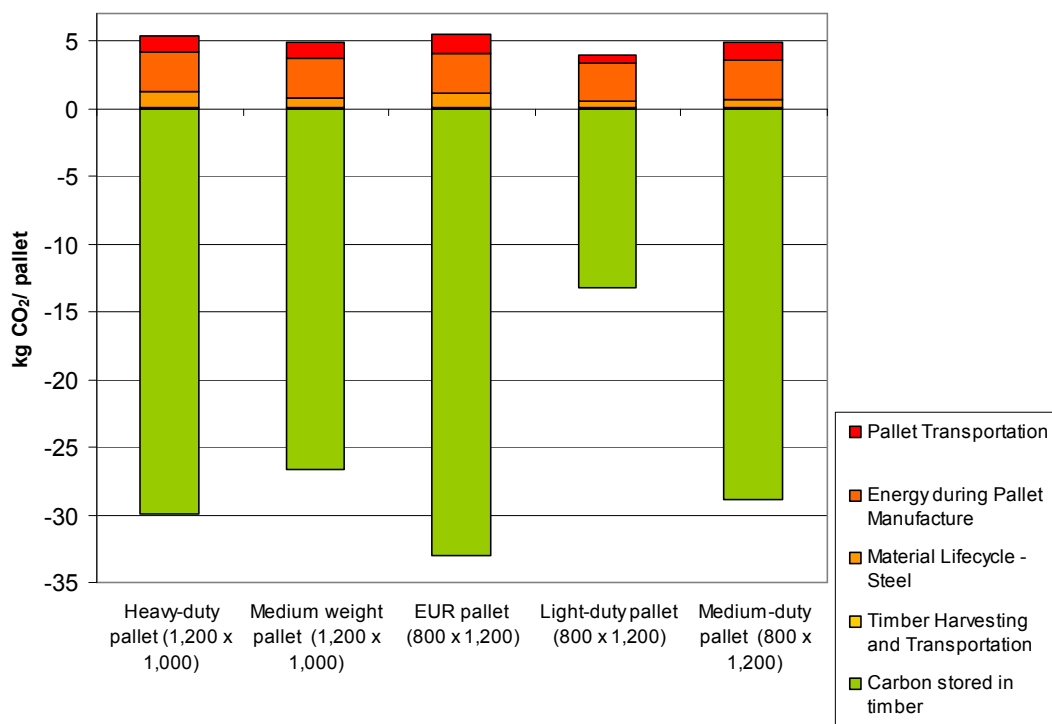


Figure 2. The results