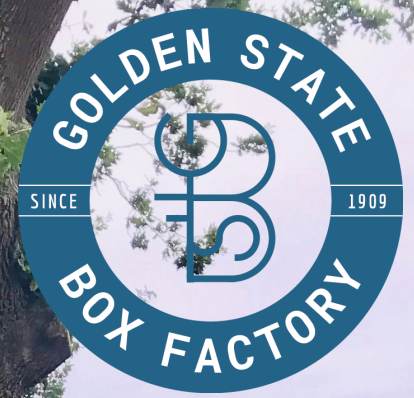


we are net carbon positive.



Choosing a wooden box as your packaging solution is the most efficient way to improve your own Carbon footprint.

The 910 tons of CO2 Gas emissions generated by our manufacturing activity, are offset by 1005 tons of CO2 emissions sequestered in our Wooden products, meaning Golden State Box Factory generates a net Carbon positive impact of 95 tons of CO2 every year.

The benefit of carbon sequestration is greater than the Greenhouse Gas emissions derived from the overall cycle from the forest management to the recycling or landfilling stages.



- According to the US Environmental Protection Agency standards, the annual Golden State Box Factory savings are equivalent to
- The non-consumption of 10 690 gallons of gasoline,
 - Electricity Consumption of 2715 households for a year
 - 4112 trash bags of waste recycled instead of landfilled
 - carbon sequestered by 112 acres of US forests in one year.

Wood, the ultimate green packaging product

renewable, recyclable, reusable

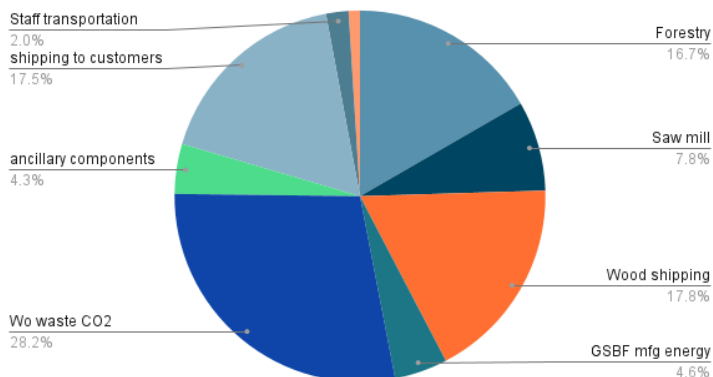
www.goldenstateboxfactory.com

Our System boundaries

Aligned with standard practices, our system boundaries cover a “cradle to cradle” Life cycle Assessment, the scientific method for evaluating the environmental impacts of products. LCA considers the resources consumed and the emissions released during a product’s manufacture, use and disposal.

Beyond our in-house CO2 emissions measured by our energy consumption, our scope includes our wood and sawdust waste management, other ancillary components input, transportation of employees, the end of life of our products. The energy impact of forest management related to our lumber supplies (forestry operations to wood harvesting, saw mill energy consumption and truck transportation of raw materials) as well as the transportation of our finished products to our direct customers are included in the computations. Solely excluded are the capital equipment and maintenance costs associated with our manufacturing operations .

CO2 emissions



Three factors contribute largely to the overall emissions
Forest management, harvesting operations, first wood transformation : 25 %

Raw materials transportation : 18% of total emissions
Shipping to customers: 18 %

The impact of Golden State box factory internal factors (energy, staff transportation, wood waste, end of life..) merely represent 18 % of our total gas emissions

Offsetting the 910 tons of CO2 Gas emissions generated by our global manufacturing activity, our wooden products sequester annually 1005 tons of CO2.

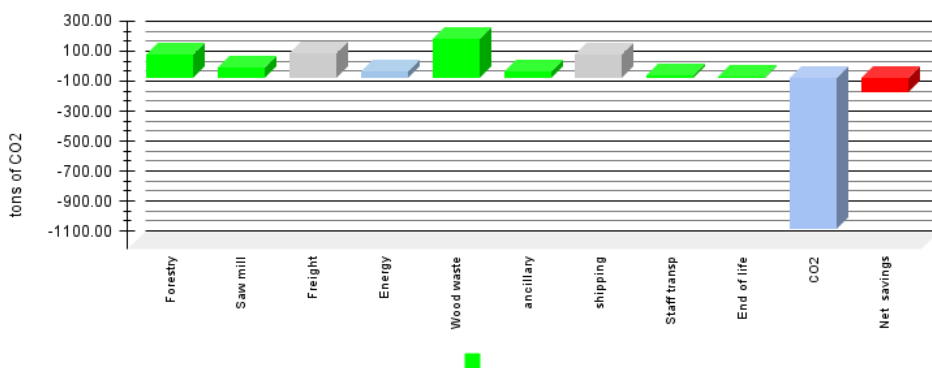
The Carbon Footprint computations integrate the following factors.

At a standard wood density of 36.3 pounds per cubic foot (ft3), at a kiln-dry moisture content (15%), our Grade 2 and Grade 3 Southern pine lumber contain 0.928 ton of CO2 / Cubic meter.

End of life of our products: 35 % of wine wooden boxes are reused or recycled, with 5 % of the boxes having a 20 year lifespan (premium wine packaging)

Golden State Box Factory Net Carbon Footprint

2021-2022



Combining both elements , Golden State Box Factory generates annually a net Carbon positive impact of 95 tons of CO2.

Reference sources

“California Wine’s Carbon Footprint” published by the California Sustainable Winegrowing alliance (CSWA)

‘On site energy consumption and selected emissions at Softwood sawmills in the Southwestern United State Forest Products Journal vol 66 N° 5
 “Oregon sawmill energy consumption and associated emissions”. Bureau of Business and economic research – University of Montana.(april 2021)

“Quantitative yield in sawing thin logs of scots pine”

“Life-cycle Assessment for the Cradle-to-gate production of softwood lumber in the Pacific Northwest and Southeast regions”. Forest Products Journal Vol 67 N° 5. M Puettmann , Woodlife Environmental Consultants Oregon and M Milota Professor emeritus Oregon State University

“A life-cycle assessment of Forest resources of the Pacific Northwest, USA”. E ONeil Research Scientist University of Washington and M Puettmann , Woodlife Environmental Consultants Oregon.

“Documenting the full climate benefits of harvested wood products in Northern California: linking harvests to the US Greenhouse Gas inventory”. Stewart & Nakamura University of Berkeley. Forest Products Journal N°62 N°5.

“Carbon in wood products” Dovetail Partners Minneapolis.2013

“The carbon impacts of wood products”. Forest Products Journal Vol 64 N°7/8

“Carbon footprint of an EUR -sized wooden and a plastic pallet. Department of Sustainability Science.. Lappeenranta University of Technology. Finland. ICEPP 2019

“Sustainable packaging: an evaluation of crates for food through a life cycle approach”. The International journal of Life Cycle assessment 2021 N°26 753-766

“Advancing sustainable materials management 2018 fact sheet . Generation and disposition of MSW(Municipal solid waste) EPA United States Environmental Protection Agency.