

CHOP X VALUE

ONCE A CHOPSTICK - NOW A STATEMENT

COMPANY
INTRODUCTION



MADE
LOCAL



HAND
CRAFTED



ENGINEERED
FROM LOCALLY
RECYCLED
CHOPSTICKS
BY @CHOPVALUE

Certified



Corporation



The world generates 2.1 billion tonnes of waste, annually.

That figure is expected to rise to 3.4 billion tonnes per year over the next 30 years.



THIS IS WHAT OPPORTUNITY LOOKS LIKE

A photograph of three people in a lush forest setting. Two women stand behind a portable wooden desk with a laptop, while a third person sits on a matching wooden stool, pointing at the screen. The scene is dappled with sunlight, and the forest floor is covered in ferns and moss. The text '01 Who We Are' is overlaid in white.

01 Who We Are

Once a chopstick, now a statement.

ChopValue is a pioneering circular economy business at the forefront of sustainable material innovation.

With a core focus on building a decentralized, global manufacturing network in over **80 locations worldwide**, each Microfactory uses the company's developed technology to revolutionize the utilization of discarded resources by value-engineering these into high quality, market ready end products for various applications.

ChopValue's scalable yet localized approach has garnered global recognition as a Top 5% Certified B-Corporation.



MADE
LOCAL



HAND
CRAFTED



ENGINEERED
FROM LOCALLY
RECYCLED
CHOPSTICKS
BY @CHOPVALUE

Certified



Corporation



Our Impact

130+ Million
chopsticks recycled

6,710,570.7
kgCO2 saved

1500+
recycling partners

Our Partners



Microfactories



Microfactories
opening soon



ChopValue Bali



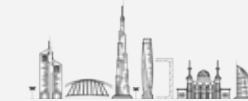
ChopValue Boston



ChopValue Calgary



ChopValue Dallas



ChopValue Dubai



ChopValue Fraser Valley



ChopValue Las Vegas



ChopValue Mexico



ChopValue Montreal



ChopValue Philippines



ChopValue Singapore



ChopValue Toronto



ChopValue Toronto East



ChopValue UK



ChopValue Vancouver

An aerial photograph of a city street layout. A central park area with trees and a small building is surrounded by streets and parking lots filled with cars. The image is used as a background for the text.

Vision

We are redefining *waste to resource*,
One chopstick at a time.

MADE LOCAL - WHEREVER YOU ARE

1.5 Billion

disposable chopsticks are used worldwide, per week.

Most travel 9000+ km for a 20-30 minute single use, and then sent to landfills.

We have the responsibility to do better.

Currently, we throw away most of our waste and miss a huge opportunity to transform it into a valuable resource. A circular economy creates the system for us to turn *waste* into *resources*.

We made it our mission to operate within that framework and work on the problem directly.



Why it Matters: Working Towards a Circular Economy

CLIMATE POSITIVE, CARBON NEGATIVE

We harvest urban resources for circular engineered, second life products which extends the duration of the carbon retained in the wood and bamboo material, and avoids virgin resources (trees) to be cut down for new wooden furniture. When recycled, processed, and engineered, our material is created for a new, extended and circular lifetime.

We collect from thousands of restaurants, food courts and hotel partners globally. Collections are free of charge and our partners are able to meaningfully improve their environmental footprint.



CHOPXALUE

02 Our Solutions



Our Viable Approach to Scale Circularity

Chopsticks are currently a vastly underutilized waste resource in cities around the world. We decided to do something about it.

We call it: **urban harvesting**.



Recycling Chopsticks

Urban harvesting disposable chopsticks as a resource to divert them from the landfill



Producing in Microfactories

Lean manufacturing using locally available resources to minimize environmental footprint



Creating Minimalistic Design

Beautiful circular economy products from an innovative high performance engineered material

ChopValue® Natural MicroFibre Performance is a highly densified, solid composite material made from compressed recycled chopsticks, and engineered to last a second lifetime, making it suitable for the toughest conditions.



Our Hyperlocal Concept Allows Us To Scale Globally.

We develop product and design solutions in local markets from our unique material. This gives chopsticks a second life, and places them into the circular economy.

Together, we are redefining the term *waste* to *resource*, one chopstick at a time.

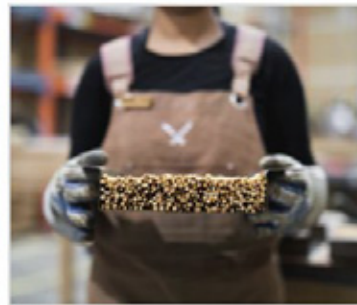
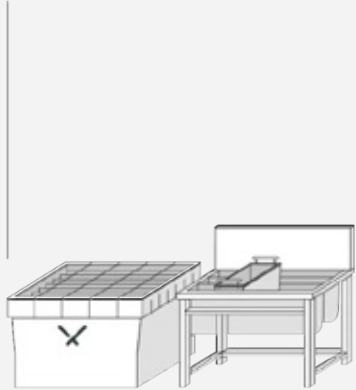


Illustration of The ChopValue Microfactory Concept

The production line is subdivided into our CV proprietary core equipment and the remanufacturing machinery from resource to finished end product for your community.

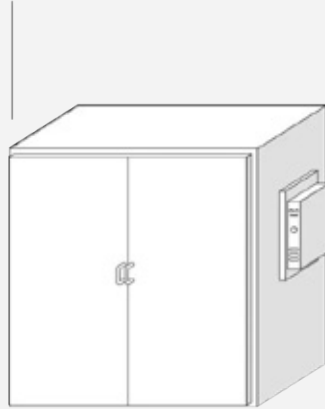
1.Sorting & Alignment

Recycled chopsticks from local restaurant partners get sorted, aligned, and preliminarily cleaned to prepare for the transformative process.



2.Drying

Batches of chopsticks are dried to reach optimal material characteristics for pressing.



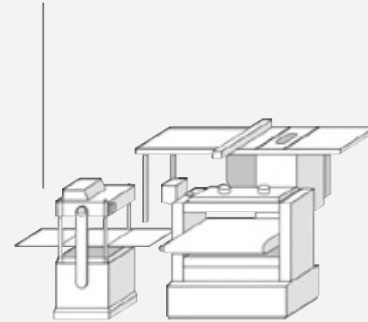
3.Pressing into ChopValue Performance Material

Loose chopsticks are transformed into new uniform ChopValue Performance Material under high heat and pressure. Any bacteria or contamination are removed from this process.



4.Remanufacturing & Finishing

Beautiful and innovative ChopValue products are manufactured using standard woodworking machineries and processes. The uniform material size and properties makes projects big or small possible with modular design principles.



5.Lasering & Customization

Flexible laser engraving options (logos, artworks, and special messages) and customized finishing options provide value-add services for customers.



Proprietary Core Equipment

From Resource To End Product

24,917,333

capacity of chopsticks that can be
transformed into circular products
in each Microfactory, annually.

=



74,752 kg

solid waste conversion
per year



1,212,253 kg

of CO₂ emissions saved
per year



3,738

equivalent # of desks
per year

Responsible manufacturing. Custom solutions. Sustainable storytelling.

Global network of Microfactories to meet demand and deliver on short lead times.

Local sourcing, manufacturing, and distribution as close as possible to our clients to reduce carbon footprint.

Full service design, logistics and installation support.

Dedicated co-marketing and storytelling, helping our partners translate impact into brand equity and education.



Exposure and Engagement

With an increasing interest in tangible circular economy solutions, ChopValue and our partners have been featured in many high profile media outlets. We work with you to build on this, and use our sustainability story to create high impact digital campaigns, translating this exposure into engagement, and interest.

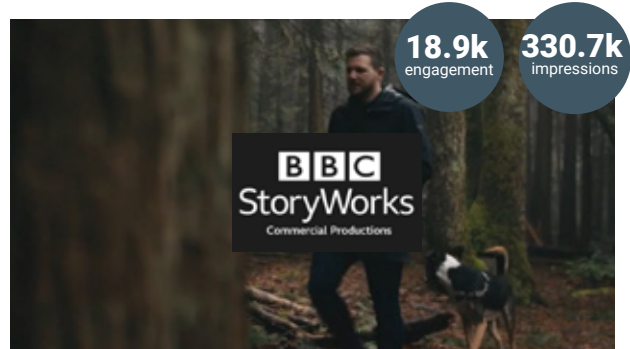
Highlights with new partnership features include mentions in:

Feature film series with BBC Storyworks + WWF

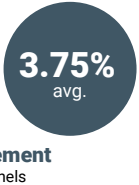
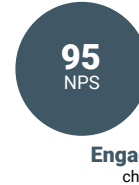
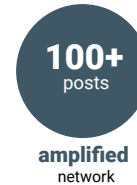
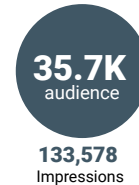
Business Insider video with over 33 million views across Facebook, Youtube, and Instagram

Leading media publications such as The Guardian and BBC

International coverage with Esquire SG and SBS Australia



Average Monthly Exposure:





03

Our Portfolio

Sustainability Solutions without Compromising Quality and Design

To keep the circular economy in motion, and as part of our global zero waste strategy, we work directly with our partners in a variety of industries to design and manufacture modular, versatile and environmentally conscious solutions of any size and scale.

Closed Loop Restaurant & Hospitality Solutions
Corporate Offices & Contract Furniture

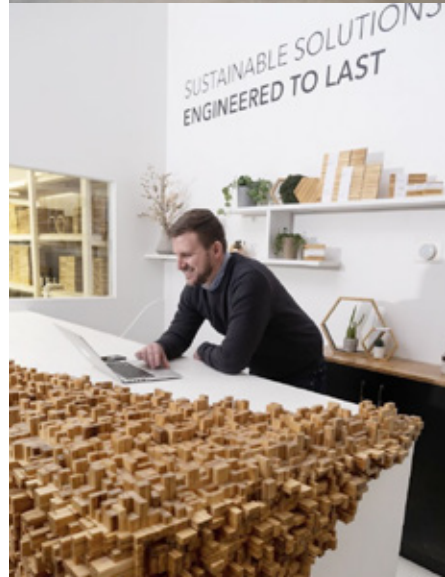
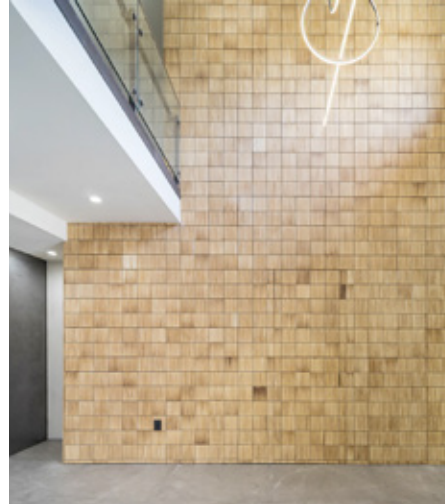
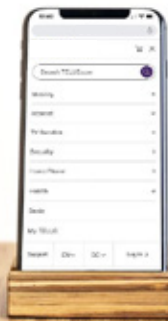
Educational Institutions

Home & Accessories



Our work:

Circular by Design



HOSPITALITY



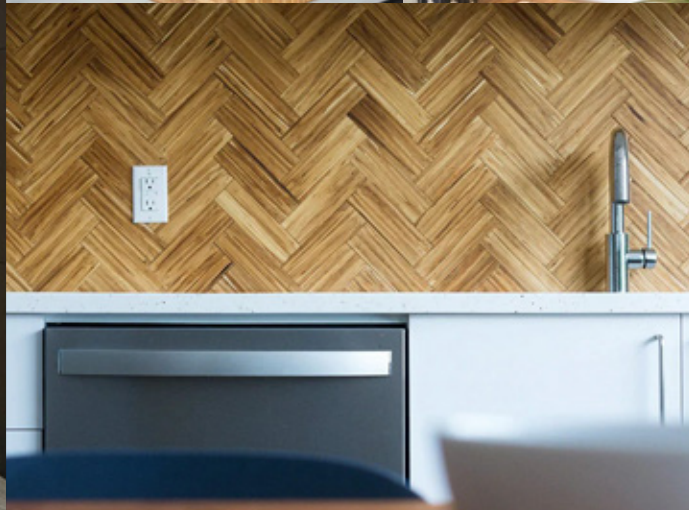


CORPORATE





INTERIOR





HOME & ACCESSORIES



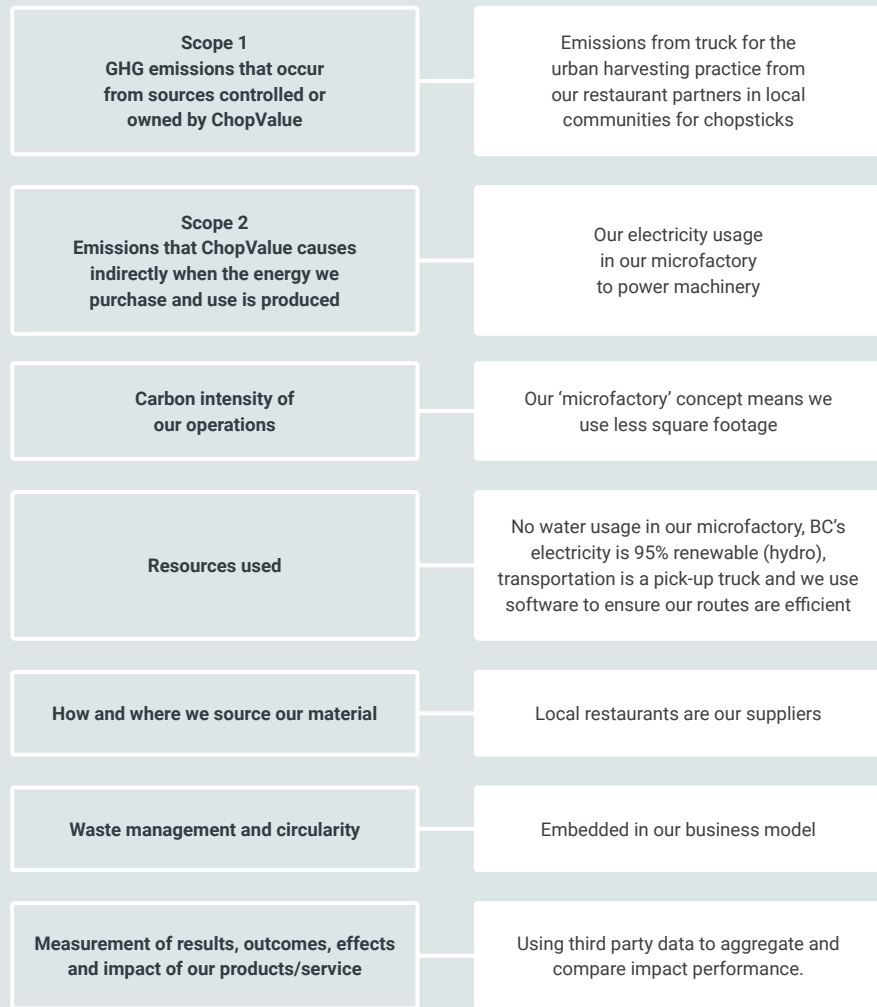


A close-up photograph of a person's hands, wearing a dark brown sweater, sorting through a large number of small, rectangular wooden blocks. The blocks are arranged in neat rows on a dark, polished wooden workbench. The background is blurred, showing a workshop or factory setting. The text "04 Our Impact" is overlaid in white, bold font in the center of the image.

04 Our Impact

ChopValue's B Corp Certification

Our team's continuous commitment to redefine the term *waste to resource* has paved the way for our achievement of Best For The World: Environment; during our first year as a B Corp in 2021 and in 2022. As the top 5% in our Impact Assessment area we are evaluated on the criteria in the right graphic.



Community & Social Impact



Community is at the heart of our business

ChopValue connects multiple industries to create a positive social impact. It takes a whole community and proactive efforts to make the circular economy the norm. We work with a range of partners to give waste a second life, including restaurants, chains, hotels and the hospitality industry, businesses, developers, property management companies etc.

Through our franchising model and local microfactories, we are able to scale our impact responsibly. We view this as an opportunity to educate and inspire others to reutilize waste into resources.

Using the example of repurposing one chopstick at a time, ChopValue's community of partners have created a significant impact on its local and global communities.

Our impact continues to grow each year.



Environmental Impact - Leading with Transparency

ChopValue's business decisions are motivated by our desire to be an inspiring leader in environmental impact and transparency. As the business expands, it is vital to us to ensure that expansion decisions, including the addition of new chopstick collection partners, incorporate our core aim of sustainability.



-113% less CO2

Through choosing waste streams over virgin materials as **resource**



-41% less CO2

Through choosing a lean **manufacturing** process



Single Microfactory has the potential to process

24,917,333

recycled and urban harvested **chopsticks** annually.

This saves up to

1,212 TON CO2

annually



-39% less CO2

Through decentralized manufacturing and localized **logistics**



3 times extended

Lifetime through the use of solid material

Decentralized Manufacturing - Our Hyperlocal Concept



Decentralized Manufacturing



VS

Centralized Manufacturing



Hyperlocal
Urban Harvesting



Hyperlocal
Remanufacturing

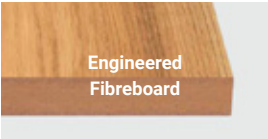
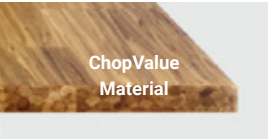


Hyperlocal
Distributing

Made local on a global scale.

Lean manufacturing of high-value products under shared ownership, using locally available resources to minimize our society's environmental footprint: Our expansion philosophy ensures that ChopValue is manufacturing and delivering premium, circular products globally: carbon neutral or better.

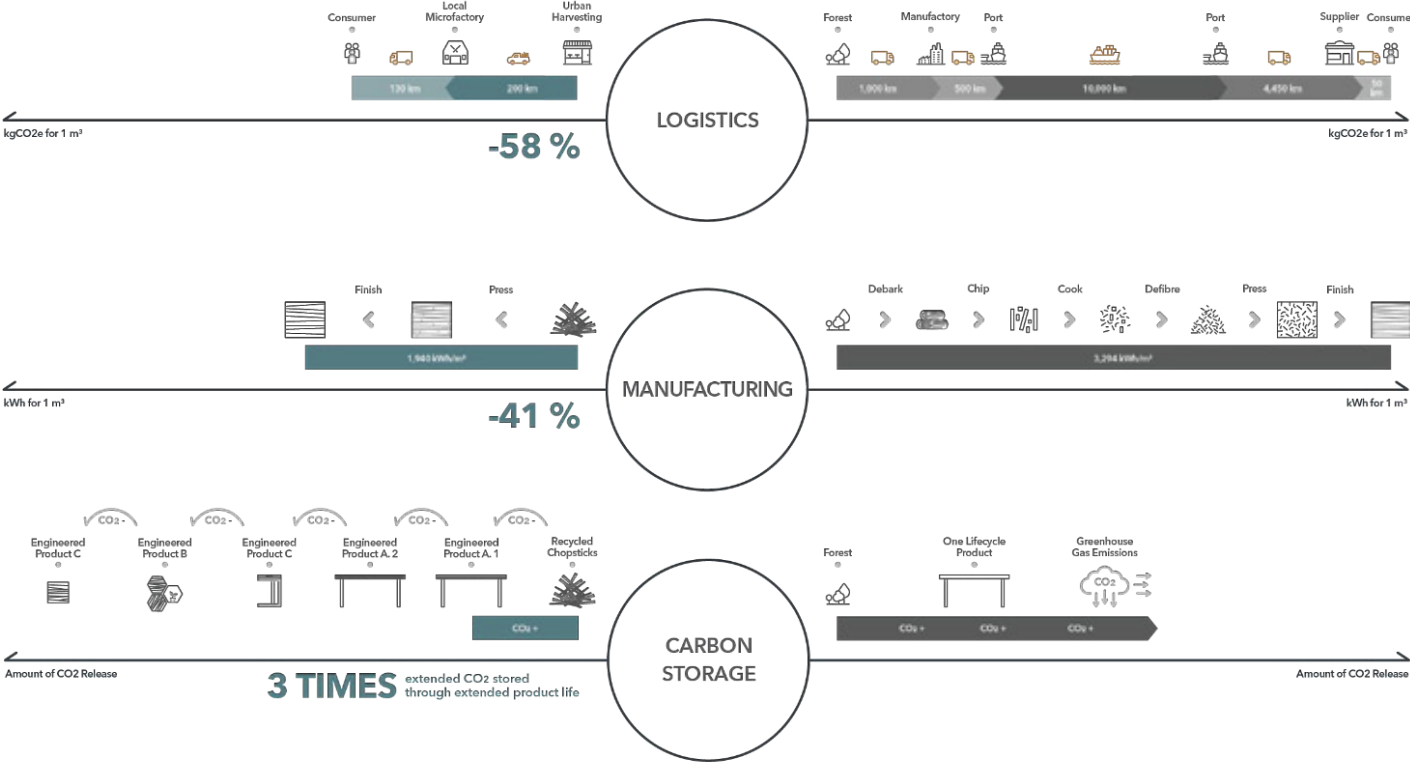
A Comparative Material Analysis



ChopValue Material vs Fibreboard

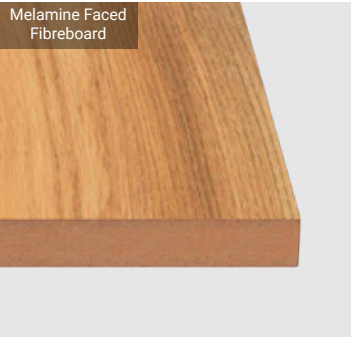
This shows a comparative analysis of the carbon footprint of a tile produced from ChopValue Material vs. Melamine Fibreboard. On logistics, our approach in collecting chopsticks from restaurants locally, transporting them to the closest microfactory and then to local consumers shows a 58% decrease in CO2 emissions in comparison to the process of sourcing, producing and shipping fibreboard products.

On manufacturing, our simple process (press and finish) represents a 41% decrease in CO2 emissions compared to a 6-step process to manufacture fibreboard. In addition, by engineering our products into other products, we are able to maintain the CO2 emissions stored through the extended product life.



1 Logistics - The Carbon Footprint of Restaurant Tables

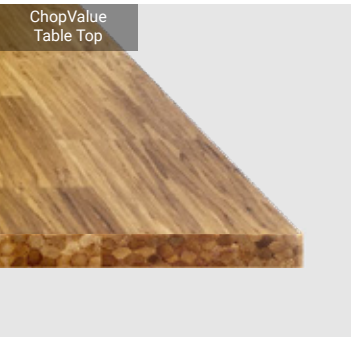
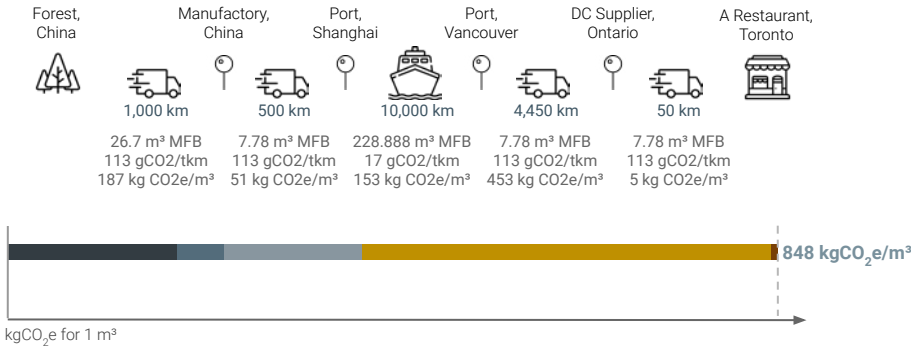
LOGISTICS - MANUFACTURING - CARBON STORAGE



RESOURCE



Industrially harvested, virgin materials

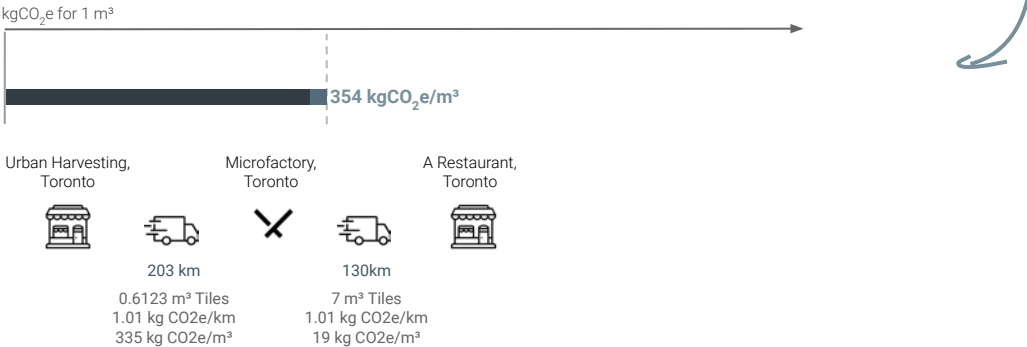


RESOURCE



Recycled Chopsticks

→ Saved from landfill
→ 2nd Life → Longer Carbon Storage
→ New Resource

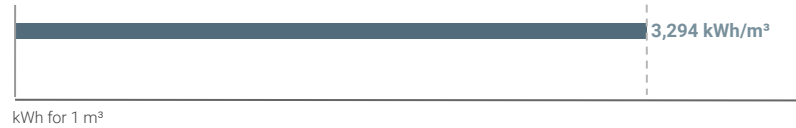
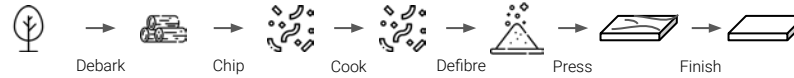
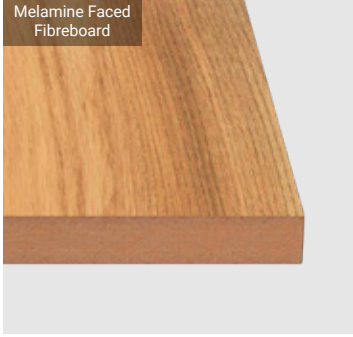


- 58 %

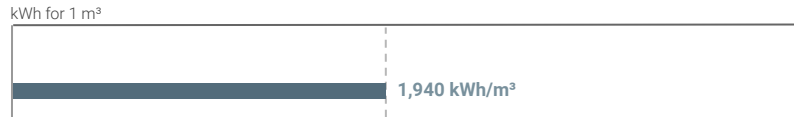
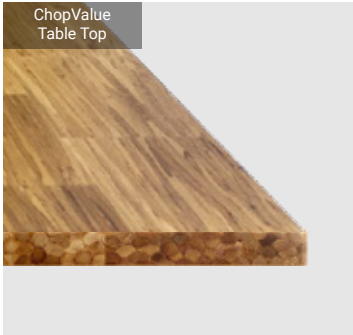
2 Manufacturing - The Carbon Footprint of Restaurant Tables

LOGISTICS - **MANUFACTURING** - CARBON STORAGE

Melamine Faced
Fibreboard



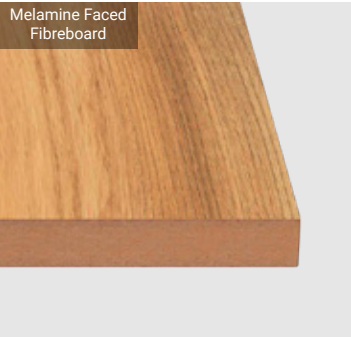
ChopValue
Table Top



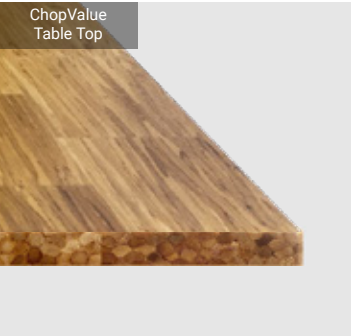
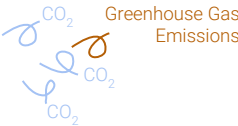
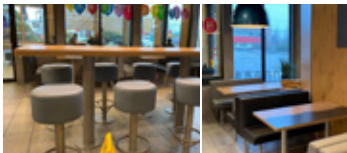
- 41 %

3 Carbon Storage - The Carbon Footprint of Restaurant Tables

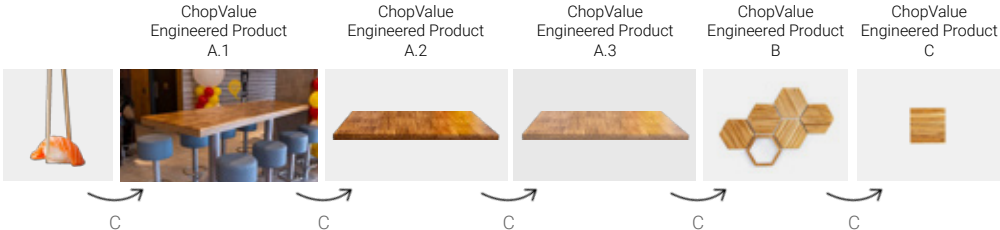
LOGISTICS - MANUFACTURING - CARBON STORAGE



One lifecycle,
product solution
not recyclable →



extended lifecycle,
recyclable at end
of life →



3 times
extended CO_2
stored through
extended
product life

4 Summary - The Carbon Footprint of Restaurant Tables

KEY TAKEAWAYS



-58 % less CO₂e

through decentralized and distributed manufacturing



-41 % less Energy

by avoiding the use of virgin materials as resources



3 times extended
lifetime through the
use of solid material



Single restaurant location

1 location with **17 tabletops**
→ **0.28 m³**

140 less kgCO₂e

383.25 less kWh



Chain Restaurant Network

1,400 locations with **17 tabletops**
→ **396 m³**

195,892 less kgCO₂e

536,549.58 less kWh

It's not just about chopsticks.

It's about taking the first step committing to scalable, sustainable solutions that help us to reduce the stress on our natural resources, and therefore our environment.

Our ultimate goal is to help support you in adopting more circular, climate positive solutions in your restaurants.

We are actively evaluating and investing in new ways to use neglected resources. Looking ahead, we can work together on custom circularity solutions that meet your specific requirements and help you reach your sustainability targets.

Together, we can lead by example.



Thank you for your leadership.



Linda Umar

Linda.umar@chopvalueindonesia.com

www.chopvalueindonesia.com

 @chopvalue_bali

 @chopvalueindonesia

