Sustainable Packaging Resource Guide

domo domo

By 2030 all plastic consumer product packaging needs to be 100% reusable, recyclable or compostable.

Is your brand and business ready?

As committed environmentalists and package designers, our goal is to help our clients remove 100% of plastic from packaging and meet their sustainability goals.

Curated and collected over the years, the Sustainable Packaging Resource Guide is chock full of inspiration and information from materials suppliers, to trends, insights and global coalitions – all intended to help you expedite the transition to a more sustainable world.

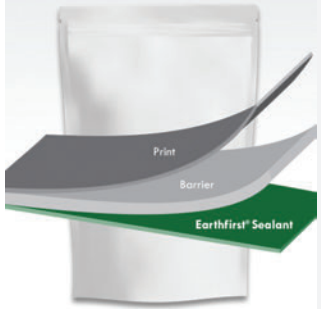
Please check it out and share this with your network so we can all work together toward a better, cleaner future filled with less pollution and more pristine beauty for all.

Compostable

Danimer Scientific: Nodax™ PHA

A 100% renewable and biodegradable replacement for traditional plastics, PHA breaks down like cellulose or wood. If it is discarded into the environment or compost bin, it will be consumed by microorganisms that feed off the material as a carbon food source.

danimerscientific.com



Earthfirst®: Non Barrier Sealant

Composed of plant-based, annually renewable source materials, Earthfirst's high purity PLA non barrier sealant film is Industrial Compostable certified.

earthfirstfilms.com

Flextra™

A laminating adhesive for flexible packaging that is solvent free and compostable. Enables recycling and composting when combined with other compostable packaging materials.

hbfuller.com

Fresh-Lock® 8000 Series

Made from 100% bio-based resins and seal beautifully to a wide range of compostable films at low temperatures, these zippers are converter friendly with easy crushing locks and material stability for storage and machining.

fresh-lock.com

Futamura: NatureFlex™

Not only do NatureFlex™ films meet all the global standards for industrial composting, including EN13432, but they are also certified to the OK Compost Home standard for backyard composting.

futamuragroup.com

Notpla Compostable Sauce Sachet

No more single use ketchup sachets – now a plastic-free solution for sauces, condiments and salad dressings in the food service industry. Amazing!

notpla.com

Notpla Film

Notpla Film is designed to replace conventional fossil-derived, and bio-plastic based, flexible packaging. Notpla Film breaks down naturally without releasing any microplastics.

notpla.com

Notpla Food Containers

Finally, making food containers fully biodegradable! Semi rigid package material and coating are all derived from seaweed – not plastic – and will breakdown naturally without releasing any microplastics.

notpla.com

Notpla Ooha Single Use Plastics

An edible bubble designed to replace single-use plastic packaging for liquids! Can be eaten or thrown away in a home compost, where it will disappear within a few weeks – just like a fruit peel.

notpla.com

Notpla Pearls

A unique substitute to single-use plastic packaging (like toothpaste tubes) that is edible and dissolves in water…right along with the toothpaste.

notpla.com

Notpla Pipette

Designed to give controlled pouring – Pipette is a compostable option to replace single-use plastic for edible oils…like salad dressing, etc.

notpla.com

Notpla Rigid

Made from fibrous by-product of industrially processed seaweed that dissolves in water in just a few hours and can fertilize plants! Can be molded into wide range of shapes ideal for primary packaging.

notpla.com

s-packaging: Compostable Clamshells

USDA Certified Biobased Packaging is made from recycled paper, cardboard, sugarcane, bamboo and wheat straw and then formed into eco-friendly packaging.

s-packaging.com

SunChemical: SunBar® Barrier Coatings

A cost-effective, compostable, chlorine- and metal-free alternative that creates barriers against moisture, oxygen, Co2, UV light, odor and migration. Easily overprinted with inks and laminated to secondary films.

sunchemical.com

Sustainable Biopolymer Films

Biodegradable, compostable and sustainable films, bags, shrink films and flexible packaging and multi-layer compostable packaging.

houstonpoly.com

TIPA Compostable Packaging: Bio Plastics

TIPA produces fully compostable packaging used in the food and fashion industries that looks and acts like regular plastic and decomposes like organic material.

tipa-corp.com

TIPA® Compostable Solutions

Compostable, flexible packaging made for food! Mimics conventional plastic in durability, barrier properties and shelf stability – and is compostable. Food grade for produce, dry foods, baked goods, milled products, and frozen food.

tipa-corp.com

Transfer Finishing with KURZ

KURZ transfer decorations are recyclable, deinkable & compostable: The automatic sorting process (up to 70% decorated surface possible) & the composting process are not impacted.

kurz-graphics.com

Two-thirds of consumers consider sustainability when purchasing a product.

Bioplastics

Actega: Signite™

Signite decorations produce significantly lower waste than traditional pressure sensitive labeling, with improved design flexibility than direct-to-container screen printing. All while improving recyclability and reuse capabilities.

actega.com

Aptar: Future Lotion Pump

Future is an award-winning, innovative dispensing solution that is mono-material and fully recyclable when paired with a PE or PET bottle. It is suitable for a range of viscosities and is available in a variety of colors thanks to its unique, three-part design.

aptar.com

Biome Bioplastics

The BiomeEP range offers enhanced print and adhesion characteristics. These potato and corn-based resins and flexible films provide strength, flexibility, heat and tear resistant while being 100% biodegradable and compostable.

biomebioplastics.com

Bostik: Sustainable Adhesives

The solvent-free products are specially designed to provide an environmentally-friendly, low-cost adhesive for production at high speed, in accordance with the latest food regulations.

bostik.com

Dunn Paper: BiOrigin™

BiOrigin™ is a plastic alternative made from renewable sources that is perfect for brands and converters looking to make sustainable changes to their packaging.

dunnpaper.com

Earthfirst® Biopolymer films

This three-layer adhesive lamination consists of, from the outside in, paper/cellophane/ polylactic acid. The PLA, a blown extrusion that brings heat seal properties to the material, is PSI 's EarthFirst PLA.

earthfirstfilms.com

EL-ZIP® Eco Zipper

Closures for pouches and bags are now compostable and biodegradable with the new EL-ZIP press to close zippers. Food grade for use in pouches in pet food, food, home, personal care and beyond.

elplasteurope.com

FlexFilms: FlexPet™ F-PAP_BD

This transparent BOPET film is one side Corona Treated with one side Untreated or both sides Untreated. The flexible packaging has a reduced carbon footprint when compared to standard BOPET.

flexfilm.com

HQC Pouch fitments

EcoPrime resin from Envision Plastics is a100% recycled material for moldability and inserting compatibility. Enhancements to both the molding process and seal bars rival the performance of 100% virgin petroleum-based materials.

hqcinc.com

Siegwerk: UniNATURE

Siegwerk's UniNATURE inks are an environmentally friendly alternative to conventional inks containing up to 50% renewable carbon content which is up to nine times more compared to standard water-based inks.

siegwerk.com

Sudpack Planova PLA Film

Using renewable, raw materials like sugar cane, corn and cellulose provide the product protection as conventional plastics.

suedpack.com

Sulapac: Plastic Alternatives

A beautiful, functional and fully biodegradable packaging alternative for plastics. Produced using the existing plastics machinery, the switch to a more sustainable material is made easily.

sulapac.com

SunBeam EB Flexo

Sun Chemical creates products which have high levels of bio-derived or recycled content. Electron-beam inks and coatings are formulated for food packaging applications on paper, board and film to create a premium look and finish.

sunchemical.com

Viridian™ Eco-Paperboard®

This 100% recyclable paperboard from K Laser does not contain laminating film so it can be pulped along with the paper. There is no extra work of removing the foil from its' backing resulting in a fully renewable, sustainable, and recyclable product.

klaser-usa.com

We need to Design Our Way out of the plastics problem.

Trends + Transformations

Bacardi: Biodegradable Spirits Bottle

Over 80 million plastic bottles currently used by Bacardi each year will be replaced with new biodegradable packaging that decomposes within 18 months.

beveragedaily.com

Carlsberg: Glue Snap Pack

Eliminate the need for plastic rings with small glue dots that hold 4, 6, or 8 cans together. (Glue dots are compatible with aluminum recycling.)

carlsberggroup.com

Colgate: Recyclable Tube

Colgate is launching what it says is a vegan-certified toothpaste that comes in an "industry-first" recyclable tube package.

colgate.com

Credo: Sustainable DTC Marketplace

With the seismic shift to more DTC commerce, there are emerging marketplaces owning the sustainable space. Take Credo – the largest clean beauty store on the planet.

credobeauty.com

Grove Collaborative: Sustainable home products

A DTC category disruptor, Grove Collaborative crafts and curates branded items making it easy for consumers to get everything they need for a sustainable home in one, easy place.

grove.co

Heinz: Recyclable Paperboard

Heinz announced the roll out of new recyclable paperboard multipack sleeves – to replace plastic shrink-wrap – as part of their investment in sustainable packaging innovations.

heinz.com

MonoSol, LLC: Dissolvable Films

Films that dissolve in water remove the need for sachets, bottles, bags, or protective films for laundry, food, personal care and beyond. Perfect for eco-friendly bath bomb packaging.

monosol.com

Nestlé: Eliminating Tear-Offs

Nestlé is adopting eco friendly packaging practices by removing all plastic tear-offs that covered its cap and neck and are printing directly on the bottle instead. (Nearly 240 tons of tear-offs have been eliminated since 2019.)

nestle.com

Nestlé: Refillable Containers

Nestlé plans to implement bulk dispensers where customers refill their reusable containers in dog food and coffee products.

fastcompany.com

Pure Shots from YSL (L'Oreal): Refill Inserts

Refillable inserts offer sustainable packaging alternatives for skincare products.The plastic inserts are placed in a high-quality reusable glass container designed to be refilled and reused by the owner.

yslbeautyus.com

Secret: Sustainable Packaging

Made from sustainable and fully recyclable materials, the package presents a very premium image using vegetable-based inks, cured UV coatings and metal flake-free Kurz foil.

secret.com

Unilever: Paper-Based Laundry Bottle

This eco friendly packaging features a proprietary interior coating that repels water, made using sustainably sourced pulp and designed to be recycled in the paper waste stream.

unilever.com

Vericooler: Recyclable Cooler

Replacing the Styrofoam cooler (at long last) is Vericooler – a sustainable way to protect and ship food, wine, specialty pharmaceutical and health care with eco-friendly packaging practices.

vericoolpackaging.com

We are not going to solve all the challenges all at once – but we can design our way, one package at a time, to a more sustainable future.

Sustainably-sourced

Biodegradable: Pouches

Home compostable packaging made with high barrier paper and/or plant-based recyclable films for pouches and bags. Creates a fully recyclable package that is a food and pet safe alternative to plastic pouches.

groundedpackaging.com

Ecovative: Renewable Resources

Ecovative is a biotech company that uses mycelium (mushrooms) to solve plastic pollution. This compostable packaging is made with hemp hurds and mycelium to be thermally insulating and water resistant. Plus, it composts in 45 days.

mushroompackaging.com

FutureBox: Sustainable Carton

A luxury carton for premium brands using no tape or magnets. Plus, it folds flat to be a simple recyclable package.

dssmith.com

hello Bottle: Renewable Resources

This sustainable packaging is made using 100% post consumer recycled glass. It's non-toxic and less porous, so it's impermeable to other environmental factors that can impact product integrity. Consumers love it and know how to recycle it!

hello-bottle.com

Iggesund: Sustainable Package Board

Incada stock enables a premium look for your sustainable packaging, with a glossy spot black UV varnish and matte aqueous coating for contrast.

iggesund.com

Iggesund: Sustainable Paper

The Invercoat family of paper products are suitable for multiple end use applications, allowing you to create a recyclable package while using premium printing techniques.

iggesund.com

Kurz: Sustainable Decoration and Foils

KURZ transfer coatings are the slimmest eco-friendly foil which can be recycled without additional expense.

kurzusa.com

Monadnock: Performance Fiber Paper

Forest Stewardship Council (FSC) certified, Monadnock's Performance Fiber Paper products offer eco-friendly packaging with a carbon neutral manufacturing process that uses 100% renewable Green-e certified wind powered electricity.

mpm.com

Neopac: Sustainable Tubes PICEA

PICEA™ sustainable tube is made from sugarcane and a fully recyclable package.

neopac.com

Oceanium: Sustainable Resources

Currently developing film and package board stock made from sustainably-farmed seaweed. Compostable, nutrient-rich and environmentally safe – a good alternative to non-recyclable flexible material.

oceanium.world

Peel Plastic "Think Green": Recyclable Pouches

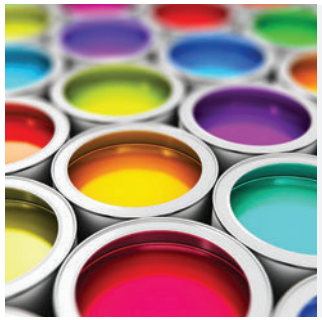
The Peel Plastic Think Green recyclable pouch series includes bio-polyethylene, post-consumer recycled materials and fully recyclable package options.

peelplastics.com

ProAmpac: Recyclable Pouch

This recyclable polyethylene (PE) flat-bottom pouch is suitable for food packaging. It's made from monomaterial PE that offers a more sustainable packaging option than conventional, non-recyclable flexible material.

proampac.com



Sunoco: Sustainable Inks

Algae inks and soy ink from soybeans offer an eco-friendly premium packaging alternative to a petroleum-based ink. It's more environmentally friendly while still providing a wide range of colors and full recyclability.

sonoco.com

Recent studies are indicating plastics – in the form of packaging and plastic pollution, are negatively impacting human health.

Industry

Cog: Package Structure

Cog drives faster, smarter, more engaging packaging development including package structure design, engineering, prototyping, print production optimization and comps.

cogdriven.com

Morrama: Sustainable Package Design

Industrial design and product design for companies focused on building more sustainable brands.

morrama.com

NoviConnect: Sustainable Manufacturing

A secure platform that connects brands, manufacturers and suppliers to develop and bring sustainable products to the market faster.

noviconnect.com

Packaging Digest: Sustainability News

Excellent resource for latest news and trends driving eco-friendly packaging innovations.

packagingdigest.com

The Dieline: Sustainable Packaging Community

Dieline is the world's most visited packaging design website and is a global community of practitioners focused on advocating for more sustainable packaging solutions through creativity and innovation.

thedieline.com

Plastics Today: Plastics News

Covers developments in bioplastics, recycling, injection molding, extrusion, thermoforming, blow molding, and other forms of plastics processing. Follow them on Twitter for a newsfeed on plastics circularity.

plasticstoday.com

Sustainable Brands: Eco-friendly innovation news

Sustainable Brands is a convenor of brand innovators and trends that inspire brand leaders who see social and environmental challenges as key drivers of brand innovation and value creation.

sustainablebrands.com

Sustainable Packaging News

Excellent resource that highlights the very latest information on all aspects of sustainable packaging solutions, covering innovations by eco-friendly packaging companies and brands adopting green alternatives.

spnews.com

The Pet Food Forum: Sustainable Pet Packaging

Part of Pet Food Industry magazines, the Forum explores advancements in sustainable pet food packaging, including options like recyclable packages and pouches. Extensive database of eco-friendly packaging suppliers and trends.

petfoodindustry.com

Only 47% of consumers feel they have the information to make sustainability-based purchasing decisions.

Conversations

PLASTICFREE

PLASTICFREE is the world's materials and new system intelligence platform – providing a simple and searchable database of resources and inspiration.

plasticfree.com

Sustainable Packaging Coalition

The leading voice on sustainable packaging with a membership that encompasses the entire supply chain for people and the planet.

sustainablepackaging.org

American Packaging Summit

Executive-level summit to discover the latest opportunities in packaging development, innovation, design, and materials.

uspacksummit.com

A Plastic Planet: Sustainable Bloggers

Focused on conventional plastic used in packaging and single-use products, with lots of great information to dramatically reduce the use of indestructible plastic by adopting eco-friendly packaging.

aplasticplanet.com

Alliance to End Plastic: Sustainability Community

Over 80 member companies, project partners, allies and supporters working together to create and scale innovative solutions to remove plastic from the planet.

endplasticwaste.org

Greenmatters: Sustainable Bloggers

Green Matters shares news and topics across sustainability and innovation for people looking to live more sustainably and fight the climate crisis.

greenmatters.com

Inhabitat by Jill Fehrenbacker: Sustainable Bloggers

Founded in 2005, Inhabitat is a long-standing environmentalist blog with an army of loyal followers.

inhabitat.com

Organically Becca by Becca Tetzlaff: Sustainable Bloggers

Curated guide to clean beauty, natural skincare, and overall holistic living. Lists 40+ natural brands with zero waste or sustainable packaging. 110K followers.

organicallybecca.com

Plastic Health Coalition

Plastic Health Coalition works together with organizations with specific expertise on research, prevention, and solutions to address the potential negative health effects of plastics.

plastichealthcoalition.org

The U.S. Plastics Pact: Eco-Friendly Consortium

A solutions-driven consortium to rethink the way we design, use, and reuse plastics led by The Recycling Partnership and WWF, and part of the Ellen MacArthur Foundation's global Plastics Pact.

usplasticspact.org

The Consumer Goods Forum: Sustainability Community

Global forum linking CPG retailers and manufacturers to help address key global sustainability challenges including environmental, social, health, food safety and product data accuracy.

theconsumergoodsforum.com

Treehugger by Graham Hill: Sustainable Bloggers

Founded in 2004, Treehugger is the world's #1 information website about mainstream sustainability and eco-friendly trends and brands. Over 120 million readers each year.

treehugger.com

The Ellen Macarthur Foundation: Thought Leader

Develop and promote the idea of a circular economy with global business, academia, policymakers, and institutions to accelerate the transition to a new economic system that's better for people and the environment.

ellenmacarthurfoundation.org

Zero Waste Home by Bea Johnson: Sustainable Bloggers

Author of the global best-selling book, Zero Waste Home blog is a curated collection of products, guides, and articles on living sustainably. 700K+ followers.

zerowastehome.com

The Green Hub by Kira Simpson: Sustainable Bloggers

The Green Hub provides inspiration and info on sustainable living, low-waste, plant-based, ethical fashion and nature…all with the aim to combat climate change. 57K followers.

thegreenhubonline.com

Recycling

domo domo: Recyclable Package Design Template

Optimize packaging to educate and empower consumers to do their part: recycle. Reduce confusion by using domo domo's visual package design template that communicates – at-a-glance – what to do.

domomarketing.com

How2Recycle

Empowering consumers through smart packaging labels through a standardized labeling system that clearly communicates instructions on disposing of your recyclable packages.

how2recycle.info

Loop: Refillable

A new way to shop without the waste, the Loop platform aims to change the way the world shops with favorite brands in refillable packaging.

loopstore.com

Ridwell: Membership-Based Service

A membership-driven organization that specializes in the collection and responsible disposal of consumer's hard-to-recycle products like batteries, light bulbs, and more.

ridwell.com

Terracycle: Social Enterprise

The global leader in handling hard-to-recycle materials, like ocean plastic, and turning them into new products.

terracycle.com

We believe all creative agencies have a responsibility to invest in and to support the CPG sector in achieving this packaging transformation.

Glossary

A

Accreditation:
In the packaging industry, this refers to third-party reviews and assessments of a company's ability to meet industry standards and applicable certifications.

Attribute:
An element of packaging products that determine how much the product will impact either the environment or human health. For example: Biodegradability, VOC emissions, recyclability, water and energy efficiency, indoor air emissions, hazardous waste or if it's carcinogenic.

Audit:
Independently-led, documented processes that gather evidence and evaluate it against a predetermined set of standards.

B

Bio-based Materials:
These are naturally-derived, renewable materials that normally come from trees, corn, or sugar cane.

Biodegradable:
A product or material that is biodegradable is something that bacteria or other living organisms can decompose.

By-product:
Things that are created from the manufacturing processes, like scraps or emissions.

C

Carbon Footprint:
The amount of carbon dioxide and other carbon compounds emitted when a person or process consumes fossil fuels.

Chemical Recycling:
A process that reduces polymer chains down to constituent components. The reduced polymer chains are then made into plastics or used in a plastic-to-fuel process.

Circular Economy:
The goal of a circular economy is to engineer waste out of manufacturing systems, so resource consumption is reduced. The circular economy's cornerstone is a full transition to renewable resources.

Closed-Loop Production:
In this system, industrial output or by-products are recycled into other products.

Compostable:
Materials that are biodegradable and can be used in commercial, industrial, or home-based compost systems.

Cradle-to-Cradle Manufacturing:
An industrial manufacturing process that is designed to be waste-free.

D

Developed to be Recyclable:
A product that is considered developed-to-be-recyclable, means it's recyclable at-scale and in-practice. (The likelihood of being recycled has more to do with the infrastructure where it's used than whether it's recyclable.)

Downcycling:
This occurs when a recyclable material is reused for a completely different product. For example, when plastic bottles are made into clothing materials. In most instances, the second product can't be recycled again, which is called upcycling.

Downgauging:
This occurs when fewer materials or resources are used with the intent of reducing a product's costs, impact on the environment, or human health.

E

Ecolabel:
A label that shows that a product or business meets a set of specific, ecologically-friendly standards.

Engineered-landfill:
These are areas where waste is collected. Their design helps reduce environmental impacts like groundwater contamination, methane release or debris.

F

First Party Certification:
This refers to when a manufacturer or producer meets specific standards or criteria without any verification from another party.

G

Green Design:
Services or products that are developed with environmental sensitivity and are delivered with greater material and energy-use efficiency.

Green Procurement:
Sometimes called "sustainable procurement," this is a practice for buying products that have a minimal impact on the environment.

H

Harmonized Standards:
A set of standards approved by different standardizing entities that establish product, process, or service interchangeability.

How2Recycle:
This is a standardized labeling program that provides clear recycling instructions to the public.

I

Impact:
The positive or negative effect on health or on the environment, an activity, product, or substance.

Input-Output Analysis:
A tool used to measure the impact of a business decision, operation, or event on the economy.

L

Life Cycle Assessment (LCA):
This is a method for assessing the environmental impact at each stage of a product's lifecycle. An LCA will measure how much water, raw materials, and energy are used to manufacture, repair, use, distribute, maintain, and dispose of or recycle a product.

LCAs are valuable tools for comparing two or more packaging design options to determine the product's benefits or possible environmental trade-offs. Choosing a packaging design through the lens of its lifecycle can help you avoid making changes to the product that might hurt the environment.

Lightweighting: In the packaging industry, this refers to improving a product's environmental sustainability and minimizing production costs based on reducing its packaging weight.

Lower Carbon Footprint:
Packaging with a lower carbon footprint has a lower lifecycle carbon footprint than alternative designs. This can be due to the packaging's overall design, how well it recycles, or the material used.

M

The MacArthur Foundation:
The MacArthur Foundation is a private foundation that makes grants and impact investments to support the advancement of global climate solutions and justice reform in approximately 50 countries around the world– and is the largest independent foundation in the US. It supports institutions, networks, and creative individuals in building a more just and sustainable world.

Mechanical Recycling:
A recycling process that is the most common method used to recycle plastic materials today. In mechanical recycling, sorting, cleaning, and melting the material is included throughout the process, using intact material polymer chains.

N

Near-Infrared Optical Sorting (NIR):
This cutting-edge technology is used to separate plastic packaging by its polymer type and into different plastic recycling streams. Though not used in many parts of the world yet, sorting materials by polymer type significantly improves recyclability.

O

Open-Loop Recycling:
In this process, materials from old products are manufactured into new products by changing the materials' fundamental properties.

Organic:
A term used to describe the cultivation of agricultural products, meaning the material is free of pesticides, hormones, synthetic fertilizers, and other toxic substances. Food labeled Organic, means the product was made under the Organic Foods Production Act's authority.

P

Product Stewardship:
Through shared leadership, those in the product life cycle, such as manufacturers, disposers, users, and retailers, take responsibility for reducing the environmental impact of the products they make, sell, or use.

Pollution Prevention:
This refers to the protection of natural resources through various conservation efforts. By using energy, raw materials, water, or other resource, greater efficiency is achieved by reducing or eliminating pollutants.

Post-Consumer Recycled Plastic (PCR):
A description for materials that have already been used and are recycled into another product.

R

Recycling:
The process of converting waste material into a new, reusable item.

Recycling Streams:
The process of sorting materials into different categories to prepare for sale on the open market. Some of the most common recycling streams are paper, aluminum, and Polyolefins (PO) for flexible plastics.

Remanufacturing:
A form of product recovery that includes rebuilding, repairing, or restoring the parts of old machines to match current consumer expectations of new machinery.

Responsibly-Sourced Materials:
These are raw materials sourced from environmentally responsible suppliers certified through the ASI or FSCO.

Reusable:
Packaging that can be refilled or otherwise re-used for its original purpose.

S

The Safe Quality Food Program:
A world-recognized Global Food Safety Initiative (GFSI) program that benchmarks food safety standard based on Hazard Analysis Critical Control Points (HACCP). The program uses a range of food safety and quality codes that meet industry, consumer, and regulatory standards for all food supply chain sectors. The program emphasizes the importance of controlling for food-quality hazards and ensuring food safety.

Single-Stream Recycling:
In this process, materials intended for recycling are all put into one container instead of pre-sorted. While it's a more expensive recycling process, it's designed to encourage people to submit more items for recycling. This process can negatively impact the quality of the final recycled product.

Single-Use Products:
These are materials, usually plastics manufactured with fossil fuels, meant to be used once and then discarded. Hypodermic needles, toilet paper, and cotton swabs are all examples of single-use products.

Supply Chain Management:
Where the procurement, operations, and logistics of raw materials acquisition and customer satisfaction meet.

Sustainability:
Sustainable development is that which meets the needs of the present without compromising the ability of future generations to meet their own needs. It is the balance between the environment, equity, and economy.

Sustainable Manufacturing:
This is the process of manufacturing products that has minimal impact on the environment. It conserves both energy and natural resources in a way that is also economically viable. The goal of sustainable manufacturing is to add value while protecting the environment, employees, consumers and the community.

T

Triple Bottom Line:
A TBL is the measure of a business's top-line financial performance over the long term due to sustainable business practices. This assesses the environmental, social, and economic sustainability of a company's practices and includes performance factors such as less capital investment and increased revenue.

W

Waste-to-Energy:
In this combustion process, waste is burned, turned to steam, or electricity to produce light, heat, or power

Waste-to-Profit:
A process that increases profits while decreasing waste – also called byproduct synergy. In this process, one company's waste or byproducts are used as inputs or raw material for another business.

Z

Zero Waste:
An approach to minimize waste and consumption while maximizing recyclability. Products are designed to be reused, recycled, or repaired instead of wasted as a single-use material.

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