



#SRUbeyondplastic Initiative

A GUIDE TO MINIMIZING SINGLE-USE PLASTIC PRODUCTS

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EDUCATIONAL FILMS AND VIDEOS

BALI PLASTICS BAN (11 MINUTES)

[https://www.ted.com/talks/melati and isabel wijzen our campaign to ban plastic bags in bali](https://www.ted.com/talks/melati_and_isabel_wijzen_our_campaign_to_ban_plastic_bags_in_bali)

LIVING PLASTIC FREE (12 MINUTES)

<https://www.youtube.com/watch?v=3JXWRVrFiKs&feature=youtu.be>

PREVIEW ON HOW THE FASHION INDUSTRY IS RESPONSIBLE FOR SO MUCH LAND- FILLED CLOTHING) 2.5 MINUTES

https://www.youtube.com/watch?v=QPMU1VHgmEo&utm_campaign=website&utm_source=realityhub.climaterealityproject.org&utm_medium=email&app=desktop

TED TALK BY VAN JONES ON TEDXGREATPACIFICGARBAGE "THE ECONOMIC INJUSTICE OF PLASTICS" (12.32 MINS) [https:// www.ted.com/talks/van_jones the economic injustice of plastic#t-648511](https://www.ted.com/talks/van_jones_the_economic_injustice_of_plastic#t-648511)

THE STORY OF PLASTIC (GREENPEACE) 4 MINUTES

[videohttps://www.facebook.com/storyofstuff/videos/277990459744577/](https://www.facebook.com/storyofstuff/videos/277990459744577/)

ON E-WASTE (20 MINUTES)

<https://www.fastcompany.com/90313043/how-design-led-to-overconsumption-and-how-it-can-help-stopit?>

WHY I LIVE A ZERO WASTE LIFE (13.5 MINUTES)

<https://www.youtube.com/watch?v=pF72px2R3Hg>

ZERO WASTE IS NOT RECYCLING MORE, BUT LESS VIDEO (12.5 MINUTES)

<https://www.youtube.com/watch?v=kWnsmzSSqdl>

WRITTEN ARTICLES

AMERICAN CHEMICAL COUNCIL TERMINOLOGY AND IMAGES (WITH RECYCLING GUIDELINES)

https://www.recycleandrecoverplastics.org/recycling-professionals/education/terms-tools/#pmtt_getTermsToolsPage

ARE YOU READY FOR ROUND 3 OF THE PLASTIC WASTE TRADE WAR?

https://www.greenbiz.com/article/are-you-ready-round-3-plastic-waste-trade-war?utm_source=newsletter&utm_medium=email&utm_content=2019-04-01&utm_campaign=greenbuzz&mkt_tok=eyJpIjoiT0RJMfHTmtZemRsWVdaailsInQiOiJsQUJ3RDEyNIV3Slp nRU9hZFdwG1qUTYxZ1hyYXUwd2lOZlRwMHIlnjRKWFRIVkptZjMwSmNNSDQ0YnFzT250ZHozYnl5dEx6aG5C UW9GTUhiYXArZFdVczEyTjc5U0Ric2t0OUdjU2pCa1lxTmJqaU5iMmFLQUIUbGtEWXNxaCJ?

AVOIDING PLASTICS IN THE BATHROOM



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<https://treadingmyownpath.com/2019/06/27/waste-free-bathroom/>

BPA IN CASH REGISTER RECEIPTS

<https://www.consumerreports.org/cro/news/2014/03/the-health-risk-of-bpa-in-receipts/index.htm>

CAN MUSHROOMS SAVE THE WORLD?

<https://www.greenbatch.com/blog/2017/10/10/mushrooms-an-ecological-alternative-to-plastics>

GUIDE TO ELIMINATING PLASTICS FROM THE KITCHEN, BATHROOM, NURSERY AND CLOTHES CLOSETS

<https://www.fastcompany.com/90312169/a-totally-achievable-relatively-painless-guide-to-cutting-plastic-out-of-your-life>

GUIDE TO REUSABLE PRODUCE BAGS

<https://treadingmyownpath.com/2018/07/05/reusable-produce-bag-guide/>

GUIDE TO REUSABLE COFFEE CUPS

<https://treadingmyownpath.com/2017/11/16/reusable-coffee-cups/>

HOW MANY TIMES DO YOU HAVE TO REUSE AN ALTERNATIVE SHOPPING BAG?

https://www.nytimes.com/2019/03/29/climate/plastic-paper-shopping-bags.html?em_pos=small&emc=edit_clim_20190403&nl=climate-fwd&nl_art=3&nlid=77987432c%3Dedit_clim_20190403&ref=headline&te=1

HOW THE U.S. RECYCLING SYSTEM IS BROKEN AND HOW TO FIX IT

<https://www.fastcompany.com/90321566/all-the-ways-recycling-is-broken-and-how-to-fix-them>

IMPACT OF CHINA BAN ON US RECYCLING PROGRAMS

<https://www.vox.com/the-goods/2019/3/18/18271470/us-cities-stop-recycling-china-ban-on-recycles>

LIFE WITHOUT PLASTIC

<https://lifewithoutplastic.com/info/>

NATGEO BLOG RELATED TO RANDY OLSON'S PHOTOS AND THE EFFORT

<https://www.nationalgeographic.com/magazine/2018/06/editor-letter-plastic-planet-waste-pollution-crisis/>

NATGEO PHOTOGRAPHER RANDY OLSON PRESENTATION TITLED "THE PLASTIC APOCALYPSE

<http://www.frackcheckwv.net/2019/02/18/%E2%80%9Cthe-plastic-apocalypse%E2%80%9D-presentation-at-swickeley-pa-22019/>

NATIONAL GEO ON OCEAN PLASTIC

<https://oceanconservancy.org/wp-content/uploads/2019/09/Final-2019-ICC-Report.pdf>

NATIONAL GEO ON PLASTIC BOTTLES

<https://www.nationalgeographic.com/environment/2019/08/plastic-bottles/>

NATIONAL GEOGRAPHIC "PLASTIC OR PLANET" MULTI-YEAR EFFORT



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<https://www.nationalgeographic.com/environment/planetorplastic/>

PLASTIC FREE ECO CHALLENGE

<https://plasticfree.ecochallenge.org/about/resources>

PSU E-COIN FOR REFUSING PLASTIC BAGS

<https://news.psu.edu/story/564311/2019/03/19/impact/ecocoin-program-expanding-commonwealth-campuses>

USING LESS PLASTIC

[https://www.facebook.com/UsingLessPlastic/?_tn=KH-R&eid=ARCGd3YuX-aetHgmz3lphfxliLx2QNmCHFAQZUwrrFWij2K0JIOFRQkqNX6-PiUAA-H0NfmfpCRMs3Tc&fref=mentions&_xts__\[0\]=68.ARBqJUmv2pNL2wdZPji6LMkO4SgLYIX7NHCI6dZaB1gA-tlO4ODtmDzEo9Cr5SzEl1dk-gD5rBYdNr3Au5sowtVlw9kXed92beZ2zRcxSDaRVm5DDfzGZKNob-VqRfHk92ZpfwyYwPQkfdizvZKR3mqqlfAGvkMI8bApq_AG2O2EtLeeYEPZcQosYae_RjnyUrXzRZEomZN4jJ2RRGJ4IH6hoZeb7nsKqp1IH4jQxrJC1mARnwPCj5m0hi08l0T45tKEoBF3ge6njgyyMLOU8K6tNiVbF9iObGDZt7U5aOQbOjkXnrlQntCQywhVnflAdfETLMjaOyMrSzGog](https://www.facebook.com/UsingLessPlastic/?_tn=KH-R&eid=ARCGd3YuX-aetHgmz3lphfxliLx2QNmCHFAQZUwrrFWij2K0JIOFRQkqNX6-PiUAA-H0NfmfpCRMs3Tc&fref=mentions&_xts__[0]=68.ARBqJUmv2pNL2wdZPji6LMkO4SgLYIX7NHCI6dZaB1gA-tlO4ODtmDzEo9Cr5SzEl1dk-gD5rBYdNr3Au5sowtVlw9kXed92beZ2zRcxSDaRVm5DDfzGZKNob-VqRfHk92ZpfwyYwPQkfdizvZKR3mqqlfAGvkMI8bApq_AG2O2EtLeeYEPZcQosYae_RjnyUrXzRZEomZN4jJ2RRGJ4IH6hoZeb7nsKqp1IH4jQxrJC1mARnwPCj5m0hi08l0T45tKEoBF3ge6njgyyMLOU8K6tNiVbF9iObGDZt7U5aOQbOjkXnrlQntCQywhVnflAdfETLMjaOyMrSzGog)

WHAT CAN UNIVERSITIES DO?

<https://universitybusiness.com/recycling-on-campus-affected-by-chinas-plastics-ban>



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FACTS ABOUT PLASTIC

GLOBAL FACTS

- Humans buy a million plastic bottles per minute.
- 91% of all plastic is not recycled.
- Over half a trillion plastic bottles will be sold in 2020.
- An estimated 50 percent of plastic consumed globally is single-use.
- Most plastic water bottles are made of PET plastic, or polyethylene terephthalate, which is made from crude oil and can take over 400 years to degrade.
- Approximately 8 million tons of plastic end up in the ocean each year.
- The Great Pacific Garbage Patch is an island of floating trash, more than twice the size of Texas, which lies between Hawaii and California. It contains more than 1.8 trillion pieces of plastic and weighs over 88,000 tons.
- By 2050, there will be more pounds of plastic in the ocean than pounds of fish.
- A recent study by Ghent University in Belgium found that people who regularly eat seafood ingest up to 11,000 tiny pieces of plastic each year.
- A study by Plymouth University found that one-third of all fish caught in the UK contained tiny pieces of plastic.
- A single plastic bag can take up to 1,000 years to degrade.
- Roughly 95% of the value of plastic packaging is lost after its first use, or \$120 billion globally.
- "Bioplastic" products are often made of PLA (polylactic acid), which comes from agricultural waste (sugar cane bagasse, corn starch, etc.) – better than plastic because it's not derived from petroleum, but is not really biodegradable unless placed in an industrial composting system. "INGEO" and "Plantware" are two common brands.

USA FACTS

- 380 BILLION plastic bags and wraps are used by Americans use each year (EPA estimate).
- 7.6 BILLION pounds of disposable diapers are discarded each year in the U.S., according to the EPA.
- 2.8 BILLION pounds of plastic bottles were created in the U.S. in 2017; only 29.3% were recycled.
- Americans buy more than half a billion bottles of water every week. That's enough to circle the globe more than 5 times.
- Bottled water costs consumers 240 to 10,000 times more per gallon than tap water that is as good, or better.
- Each year, making the plastic water bottles used in the U.S. takes enough oil and energy to fuel a million cars.
- Plastic scrap exports to China plummeted from around 250,000 tons in the spring of 2017 to near zero in the spring of 2019.
- Overall, U.S. exports of plastic waste to all countries fell from 750,000 tons to 375,000 tons over the same period. Many plastic products in groups 3-7, the least recyclable types, are being sent to landfills.



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- New York City residents use more than 10 billion single-use carryout bags every year and it costs the City more than \$12 million annually to dispose of these bags. Consumers forget to bring their reusable bags to the store 40% of the time and opt for a single-use plastic or Paper bag instead.

PETRO-CHEMICAL INDUSTRY FACTS

- The petrochemical/plastics industry already accounts for nearly 7 percent of global greenhouse gas emissions; carbon emissions from the petrochemicals and plastics industry are expected to grow 20 percent by 2030. [IEA]
- Out of all of the plastic waste disposed up to 2015, only 9 percent of plastics were actually recycled. Seventy-nine percent is sent to landfills – where it can be carried by wind and rain to pollute our broader environment, and the remaining 12 percent is incinerated. Burning plastic releases highly toxic dioxins into the air we breathe.
- Petrochemical sales are estimated to account for more than a third of all oil industry growth by 2030, and over half by 2050, with projections of sales for this purpose adding up to 7 million barrels of oil per day. Approximately 50% of all plastic is single-use, leading cities and countries to ban single use plastics entirely. These bans are estimated to reduce that demand for oil by 3 million barrels/day, making ethane cracker plants a much more questionable investment.
- Seven ethane cracker facilities located in close proximity to existing natural gas wells in the Ohio River Valley have been proposed since 2014. Construction has already begun on the Shell plant in Beaver County, Pennsylvania, with other potential facilities slated to be built in Parkersburg and Charleston, West Virginia; Calvert City, Kentucky; and Salem, Monroe County, and Belmont County, Ohio.
- In its full life-cycle, ethane cracking emits 840 kg of CO₂ per ton of ethylene. The Shell plant in Beaver County is expected to produce 1.6 million tons of ethylene, resulting in 1.34 MMTCO₂ emissions. This is equivalent to introducing over 290,000 cars on the road.

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HOW SUSTAINABLE IS YOUR BAG?

Bag Type	Typ. Material Used	# times re-used to equal env. footprint of PRB (APPROXIMATE)
"PRB" Single Use "Plastic Retail Bag"	#2 HDPE, 30% Recycled material	1
Paper	100% recycled paper	3
	40% recycled paper	6
#4 LDPE Heavy duty bags)	Low Density Polyethylene	6
Non-woven PP	#5 polypropylene	11
Non-woven PP/LDPE	#5 polypropylene with #4 LDPE insert	21
Cotton	cotton	131
Hemp		?
Upcycled T-Shirt	cotton	?

Source: 2014 Clemson U. Life Cycle Assessment of Grocery Bags in Common Use in the United States

ALL ABOUT BIOPLASTICS

All About Bioplastics

<u>TYPE of BIOPLASTIC</u>	<u>MADE FROM</u>	<u>MADE INTO</u>	<u>COMPOSTABLE?</u>	<u>BIODEGRADABLE?</u>	<u>RECYCLABLE?</u>	<u>IMPACT ON CARBON EMISSIONS*</u>
BIOPLASTICS & BIO-BASED PLASTICS	BIOMASS - Renewable feedstock like waste sugar cane pulp, starch, fiber	PE (polyethylene) or PET (polyethylene terephthalate) -plastic bottles	NO	NO	YES	Carbon Neutral or carbon negative*
BIO-DERIVED POLYMERS	Mix of plant and FOSSIL FUEL feed-stock	PE (polyethylene) - Coca Cola's "Plant Bottle" is 30% plant, 70% fossil fuel, 100%	NO	NO	YES	INCREASES GHG's due to fossil fuel use
BIOPOLYMERS¹	Made from plants (chitin, cellulose) or produced by bacteria	PLA (from plants), PHA (from bacteria)	ONLY in INDUSTRIAL COMPOSTER	NOT IN SOIL or OCEAN; only in INDUSTRIAL SYSTEM	YES	Carbon Neutral or carbon negative*

* Even though bioplastics and biopolymers may not biodegrade or be composted, being placed in a landfill would sequester the carbon contained in the material and therefore considered "carbon-negative". In all cases, however, the extent of fossil fuel use in manufacturing and transporting all plastic materials should be considered in estimating its impact on greenhouse gas emissions - making reusable products always preferable to single-use disposable products!

¹ Biopolymers made into PHA are often used to make utensils and plates that are much healthier to use than products made from PS (polystyrene) that can leach styrene and contain hormone disrupters. Biopolymers made into PLA are often used to make drinking straws, transparent cups and lids (brand names "INGEO" and "PLANTWARE" use PLA) and are also safer than items made from PS.

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RECYCLING SYMBOLS

In 1988, the Society of Plastics Industry placed all types of plastics numbers inside a recyclable symbol, even though some are not truly recyclable. The use of these symbols gives the appearance of plastics being sorted into different groups for recycling when they all end up in the same bin. There is not much regulation on plastic waste and the follow through on the disposal methods per these symbols. Recycling labels are voluntary for the plastic industry. Many products require certain facilities that are uncommon to recycle. Always check with your local facility to ensure which products can be recycled there, and which cannot.





This symbol means that the material is recyclable somewhere. The number inside the symbol indicates how it can be recycled.

v.








The reverse of the recycling image means that the product packaging is made out of recyclable materials. This does not mean that the item is recyclable.

PLASTICS




Recycling Symbol	Symbol Definition	Examples
	PET (PETE) Polyethylene Terephthalate	<ul style="list-style-type: none">• Plastic water bottles• Soda bottles• Salad dressing containers• Vegetable oil containers
	HDPE High-Density Polyethylene	<ul style="list-style-type: none">• Plastic grocery bags• Milk jugs• Shampoo bottles• Yogurt containers




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 <p>03 PVC</p>	<p>PVC (V) Polyvinyl Chloride and Vinyl</p>	<ul style="list-style-type: none"> • Vinyl siding • Vinyl piping • Vinyl windows
 <p>4 LDPE</p>	<p>LDPE Low Density Polyethylene</p>	<ul style="list-style-type: none"> • Dry cleaning • Shopping bags • Furniture • Squeeze bottles • Toothpaste tubes • Frozen food bags
 <p>05 PP</p>	<p>PP Polypropylene</p>	<ul style="list-style-type: none"> • Syrup containers • Medicine bottles • Caps • Straws • Some food containers
 <p>06 PS</p>	<p>PS Polystyrene</p>	<ul style="list-style-type: none"> • Styrofoam • Disposable plates • Disposable cups • Egg cartons • Carry-out containers
 <p>7 OTHER</p>	<p>Other Miscellaneous</p>	<ul style="list-style-type: none"> • Medical equipment • BPA plastics • Poly-carbonate plastics • Bio-based plastics

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PAPER AND GLASS

Symbol	Material
	Cardboard
	Mixed Paper
	Plain Paper

Symbol	Material
	Mixed glass
	Clear glass
	Green glass

Information on this section was referenced from https://www.grainger.com/know-how/business-operations/sustainable-practices/kh-recycling-symbols-and-what-they-mean?qucid=N:N:PS:Paid:GGL:CSM-2296:AD9MJX:20511231&qclid=Cj0KCQiA4OybBhCzARIsAlcfn9luw9rWlm1yzt1mnCRGwuYZbb8YGpVf7-btidlVPDyBZDQKQspNXt4aAgDVEALw_wcB&gclsrc=aw.ds

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LIST OF ALTERNATIVES TO SINGLE-USE, DISPOSABLE PLASTIC PRODUCTS

Plastics Category	Alternatives to Disposable Products	Materials Used	Website Links
General	Pgh. Store w/ variety of products		https://www.facebook.com/OurChildrenOurEarth/
	East End Co-op (bulk item grocery store)		https://www.eastendfood.coop/
SINGLE-USE DISPOSABLE BAGS			
	Baggu reusable bag	40% recycled nylon sourced from pre-consumer waste.	https://baggu.com/collections/reusable-bags?source=pepperjam&publisherId=21181&clickId=2672023727
	ChicoBag PET VITA, Sling shopping bags	Recycled disposable plastic bottles (PET)	https://www.chicobag.com/
	Giant Eagle reusable bags (5 types)	Various plastics	
	Handy grocery shopping bag that fits in shopping cart (Set of 2)	High-grade PP and non-woven cloth with handles	https://tinyurl.com/42547smr
	Plant-based fabric bag	Cellulose sustainable wood fiber, corn-based PLA	https://ragbags.com/
	Stasher bag	100% recyclable Silicone	https://www.stasherbag.com/
	TerraCycle bags	recycled drink pouches	https://www.dwellsmart.com/collections/reusable-bags
	Mesh produce bags	Organic cotton	www.purifyyou.com
	Mesh produce bags	Food grade, BPA-free mesh	https://earthsider.com/products/zero-waste-reusable-produce-bags-12pcs-test?fbaid=23843445164360409
	Mesh produce bags	Food grade, BPA-free mesh	www.purifyyou.com
	Mesh produce bags	Food grade, BPA-free mesh	https://www.amazon.com/Vandoona-Food-safe-Reusable-Mesh-Produce/dp/B07FT4ZCKZ
	Mesh produce bags	Food grade, BPA-free mesh	https://www.amazon.com/Vandoona-Food-safe-Reusable-Mesh-Produce/dp/B07FT4ZCKZ

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	Mesh produce bags	Food grade, BPA-free mesh	https://www.amazon.com/Vandoona-Food-safe-Reusable-Mesh-Produce/dp/B07FT4ZCKZ
PAPER, FIBER, S.S., GLASS LUNCH BOXES, SNACK BAGS			
	Reusable Lunch Bags	Various materials (paper, fiber-based, etc.)	https://www.amazon.com/stores/node/3034239011?encoding=UTF8&field-lbr_brands_browse-bin=LunchSkins&ref=bl_dp_s_web_3034239011
	Lunch containers & water bottles	Various materials	https://www.swellbottle.com
	Food Canister	Stainless steel	www.kleankanteen.com
	ECO lunch box	Stainless Steel Lunch Boxes w/ silicone lid	https://ecolunchboxes.com/collections/lunch-boxes
	Glass Salad Jars	Use widemouth glass canning jar	
	ChicoBag Snack Bags (Set of 3)	Recycled disposable plastic bottles (PET)	https://www.chicobag.com/product-snack-time-repete-17
	ChicoBag reusable water bottle sling	Recycled disposable plastic bottles (PET)	www.chicobag.com
Plastic Straws			
	Metal Straw	Stainless Steel	https://brandless.com/products/metal-straws?utm_source=impact&utm_campaign=8771&utm_medium=10078&utm_content=513280&clickid=2J8Xez3H1xyJTNh0MvSyQWIBUklws126VRlyRs0&irgwc=1
	Metal Straw	Stainless Steel	https://www.swellbottle.com/products/swell/accessories/stainless-steel-straw-set/
	SS telescoping straw	Stainless Steel	https://leafico.com/
	Compostable Straw	"Hyper Compostable" Seaweed	https://www.loliware.com/
	Metal Straw	S.S. straws with silicone tips & cleaning brush	www.kleankanteen.com
	S.S. straw with silicone tip	Stainless steel w/silicone tips	www.finalstraw.com
	Strawbit Bracelet Straw	Silicone	https://strawbit.com/
SINGLE-USE DISPOSABLE PLASTIC WATER BOTTLES & COFFEE CUPS			

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	Aluminum water bottles by the case	Aluminum	
	Reusable water bottles	Various materials	https://www.swellbottle.com/shop/swell/travelers/
	Paper bottles	Paper	https://ecologicbrands.com/about/
	Recyclable, reusable "Bottles" made of 54% paper and 28% plant-based plastic		https://www.shopjustwater.com/collections/demo-infused/products/just-water-24-pack?gclid=CjwKCAjw5fzrBRASEiwAD2OSV-f0A67bd7eP-WGoOvM8BhKbKJ44j1tHuPu_Yj4jsl9PQF-XPtngZ3xoCXFcQAvD_BwE
	Insulated coffee cup mug tumblers	Stainless steel	www.kleankanteen.com
	Insulated bottles	Stainless steel	https://www.miir.com
	"StoJo" silicone collapsible travel cup	Silicone	https://stojo.co/
	"Hydaway" collapsible travel cup	Silicone	https://hydawaybottle.com/
	Wide mouth, fitness styles	BPA-free plastic	https://www.nalgene.com/
	Glass bottles	Glass with silicone carrier	www.purifyyou.com
	YETI insulated bottles w/ hotshot lid	Stainless steel	https://www.yeti.com/en_US/insulated-water-bottles
	Insulated bottles	Stainless steel	www.kleankanteen.com
	Insulated bottles	Stainless steel	https://www.hydroflask.com/
	Pocket-size expandable plastic coffee cup	BPA-free recycled plastic	https://pokito.net/
PLASTIC TO-GO FOOD CONTAINERS, WRAPS, CELLOPHANE			
	Food storage containers	Stainless steel	www.kleankanteen.com
	Food storage containers	Pyrex	https://www.pyrexhome.com/contact-us
	Food Wraps (cellophane replacement)	Bees wax	https://abeego.com/
	Food bags and wraps	Bees wax and organic cotton	www.shopetee.com
	Reusable lids	BPA-free food grade silicone	www.earthsider.com
	Stretch lids	Silicone	https://www.facebook.com/A-sustainable-You-1063659643832412/
	Stretch lids	Silicone	https://foodhuggers.com

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	Food wraps	plant-based waxes & cotton-hemp	https://earthhero.com/products/travel/khala-cloths-khala-vegan-reusable-food-wraps-variety-pack/
	Eco-lids	food-grade silicon	https://earthandfriends.store/collections/home-kitchen/products/siliconelids
	Cellophane alternative	Wood pulp cellophane	https://www.google.com/search?client=firefox-b-1-d&q=wood+pulp+cellophane+packaging
	FreshServe deli containers	bioplastics	http://www.biomasspackaging.com/brands/freshserve/
	Fresh fruit & vegetable wrapping	palm leaf	https://arekapak.de/
	Collapsible food containers	silicone	https://www.google.com/search?client=firefox-b-1-&q=collapsible+silicone+food+storage+containers
PLASTIC DIXIE CUPS			
	Kraft Paper Cups	Paper	https://www.restaurantware.com/disposables/coffee-cups-accessories/coffee-cups/8-oz-kraft-paper-coffee-cup-double-wall-3-1-2-x-3-1-2-x-3-1-4-25-count-box/?gclid=EAlaIqobChMIha7nmvCz-wIVscmUCR2J1AUOEaQYASABEgJL9fD_BwE
	Ecotainer cups	Cellulose sustainable wood fiber	http://www.biomasspackaging.com/brands/ecotainer/
PLASTIC BOWLS, PLATES, DINNERWARE, UTENSILS			
	Bamboo Dinnerware	bamboo bowls and utensil sets	https://www.by-ekobo.us/our-brands/biobu-by-ekobo/gusto/gusto-190-oz-large-salad-bowl
	Bamboo utensils, "full size" set	Bamboo utensil sets in RePETe utensil holders	https://www.facebook.com/OurChildrenOurEarth/
	Bamboo utensils in canvas holder	Bamboo	https://thesustainabletomorrow.com/collections

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	Leafware	Fallen leaves	http://www.biomasspackaging.com/brands/leafware/
	Be Green containers	Renewable fiber	http://www.biomasspackaging.com/brands/be-green-packaging/
	Cutlery	Bioplastics	https://www.ecoproductsstore.com
	To-go containers and cutlery	Bioplastics	www.ecoproducts.com
	Food storage containers	Recycled #5 plastic	https://www.preserve.eco/products/food-storage-set-6-containers
SYNTHETIC CLOTHING, ACTIVE WEAR, BACKPACKS, ETC.			
	Sustainable clothing	Recycled disposable plastic bottles (PET)	https://repreve.com/brands
	Backpacks and activewear clothes	Recycled plastic bottles	https://threadinternational.com/
PLASTIC PACKAGING MATERIALS			
		Palm leaf	https://holylama.co.uk/plastic-free-ayurvedic-soaps/
		Paper	https://ecologicbrands.com/
		Plant starch	http://www.greenlightpackaging.com/our-products/biodegradable-loose-fill/
		Mushroom	https://ecovatedesign.com/packaging
		Seed Phytonutrients	https://blog.seedphytonutrients.com/blog/the-story-behind-the-beauty-industrys-most-eco-friendly-packaging
		Wheatgrass-bagasse clamshells	https://greenpaperproducts.com
		Loop/Terracycle reusable shipping containers	https://loopstore.com/
MAKE-UP			
	Elate Cosmetics	Sustainable, plastic-free make-up	https://elatebeauty.com/
	Kjaer Weis	sustainably packaged make-up	https://kjaerweis.com/
	Antonym	Sustainable, plastic-free make-up	https://www.antonymcosmetics.com/

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	Nudi Goods	Plastic free packaging for make-up and skincare	https://nudigoods.com/
MISCELLANEOUS AND PERSONAL CARE PRODUCTS			
	Reusable jars, dispensers	Glass	https://www.grove.co/catalog/product/glass-dish-soap-dispenser/?v=3125&attrsrc=22&attrpg=catalog&attrpos=20
	Household cleaners	Natural materials	https://www.cleancult.com/#
	Household cleaners	Paper packaging, natural materials	https://www.blueland.com/
	Name tags	Compostable name tags	
	Toothbrush	Bamboo	www.leafico.com