

Agenda

- Introductions
- Circular economy overview
- Recycling 101
- Composting 101
- Albany sustainability initiatives
- Tips for waste reduction & reuse







Introductions















Linear Economy









Where Does Your Waste Go?

• Altamont Landfill – Livermore, CA

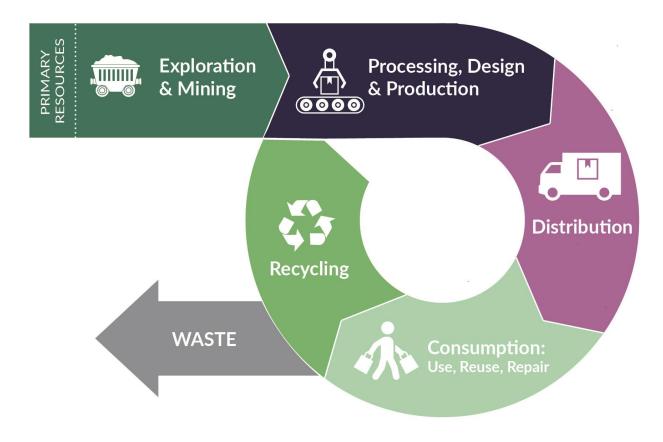








Circular Economy









The 4 R's











Why Recycle?

- Limits the reliance on raw natural resources including reducing the reliance on forests, mining, and petroleum
- Using recycled materials in manufacturing requires less energy
- Turns waste into new products
- Reduces pollution caused by waste in the landfill







Where Does Your Recycling Go?

• Material Recovery Facility - San Leandro, CA



- Mixed recyclables are loaded on conveyer belt
- Employees manually remove contaminants
- Series of mechanical sorters (screens, optical eyes, blowers & magnets) separate materials by type
- Employees remove contaminants from sorted materials (paper, aluminum, cardboard, PET, HDPE, mixed plastics) *glass is not touched

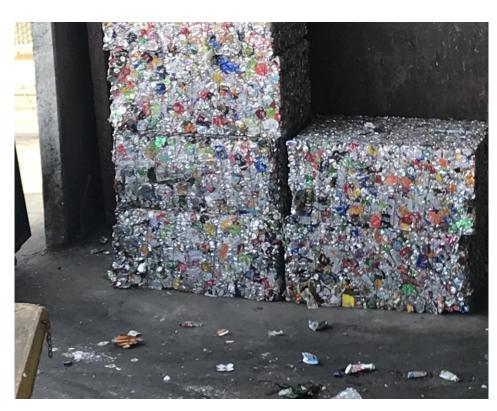






Where Does Your Recycling Go?

Bailed with similar materials for shipping to processors



Sent to local and international processors

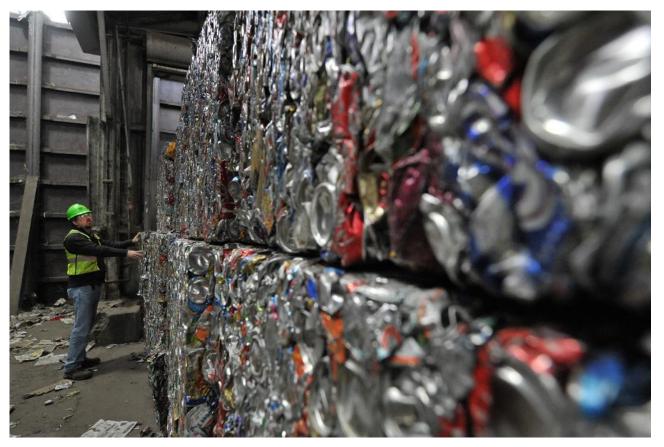








• LOCAL CONDITIONS: Will people source separate it? Can we collect it with like materials? Will people pay for it to be taken away and processed? Can we sort it?

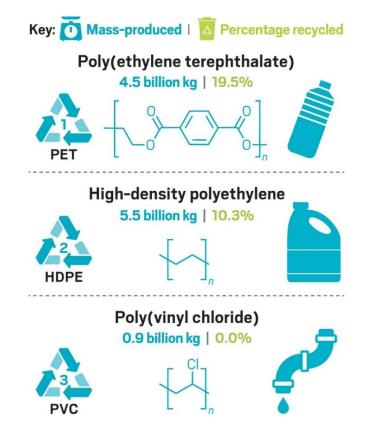


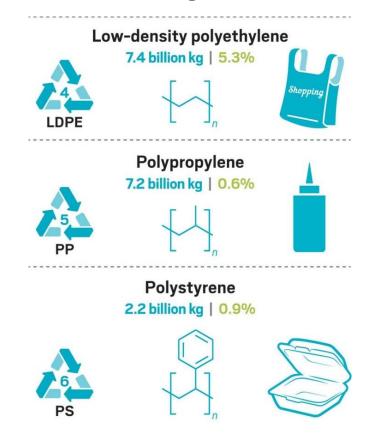






CHEMICAL PROPERTIES: Can it be made into something new?



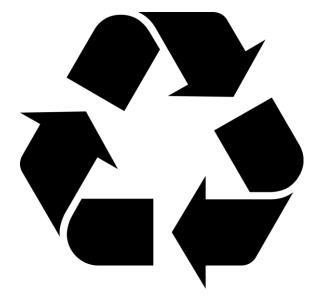




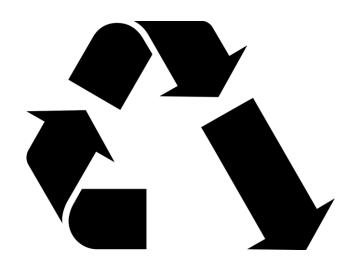




• CHEMICAL PROPERTIES: Can it be recycled or downcycled?



Glass & aluminum can be recycled infinitely



Plastic is downcycled
E.g. Water bottle → fleece jacket
or picnic table







MARKETS: Can we sell it? Will someone buy it and make it into something new?
 Will someone buy that new product?

Scrap value per ton according to CalRecycle

	Aluminum	Glass	Bimetal	#1 PET Plastic	#2 HDPE Plastic	#3 PVC Plastic	#4 LDPE Plastic	#5 PP Plastic	#6 PS Plastic	#7 Other Plastic
October 2019	\$1,031.29	(\$2.44)	\$1.60	\$130.71	\$146.07	(\$0.07)	\$10.79	(\$18.54)	\$4.40	\$2.20
December 2019	\$1,063.33	(\$2.24)	\$1.07	\$146.45	\$178.50	(\$0.00)	\$0.93	(\$15.12)	\$6.98	\$0.51

Scrap value per ton according to Resource-Recycling.com

- Sorted office paper: ~\$101/ton
- Mixed paper: ~\$2/ton
 - Magazines, junk mail, paperboard packaging, etc.







What's Accepted in the Recycling

PAPER

- Cardboard, mail, magazines, office paper
- Paper cartons (milk cartons)
- Shiny/coated paper boxes (frozen food boxes)
- *Recycling paper is better than composting it, as long as it is clean and dry









What's Accepted in the Recycling

GLASS & METAL

- Glass jars & bottles (lids on OK)
- Steel & aluminum cans
- Aluminum foil









What's Accepted in the Recycling

PLASTIC – TUBS, JUGS, BOTTLES, & JARS

- Shampoo containers
- Water bottles
- Condiment containers
- Yogurt tubs

*Focus on shape and durability of container (rather than #1-7) when determining acceptability.









What's Trash

PLASTIC

- Clamshells plastic to-go containers, berry containers
- Plastic film plastic bags, plastic wrap, sandwich bags
- Small plastic items plastic silverware, straws, coffee cup lids, sauce containers
- Polystyrene foam
- "Compostable" plastics





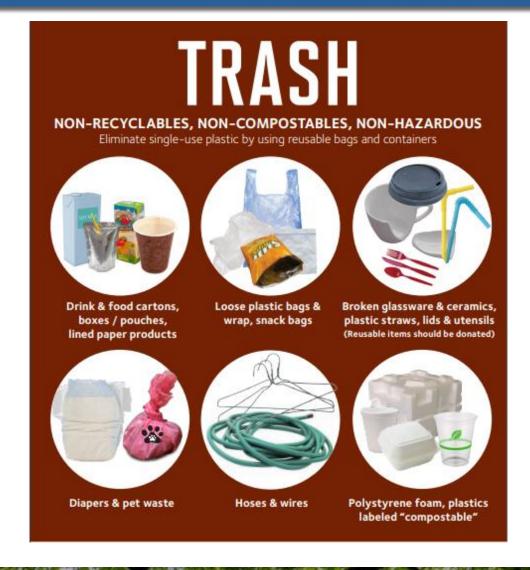




What's Trash

PAPER

- Paper with plastic coating ice cream cartons, milk cartons, coffee cups, soda cups, take out containers
- Paper with mixed materials (aseptic containers such as soy/almond milk boxes, soup/juice boxes









Tips for Recycling

Empty & then wipe, scrape or rinse

Do NOT bag recyclables

Pour liquids down the drain and empty food container residue into your food scrap pail or green organics cart. Put the empty recyclable container into your gray recycle cart.









RECYCLE RIGHT. LOSE THE BAG!









Top 6 Take Home Messages - Recycling

- Your trash is not sorted it goes to the landfill. Your recycling IS sorted.
- Recycling processes are complicated and ever-changing, and local control is limited
- Only rigid plastic tubs, jugs, bottles & jars
- Small plastic items, flimsy plastic containers, and plastic film are trash
- Do NOT bag recyclables
- You can limit your waste by purchasing items in recyclable packaging









Why Compost?

- Food & yard waste that decomposes in landfills creates methane gas
- Compost returns valuable nutrients to soil to maintain soil fertility
- Improves plant growth and increases crop yield
- Reduces need for fertilizer & pesticides







Where Compost Goes

Compost Facility

- Grind yard trimmings mixed with residential food
- Place in Covered Aerated Static Pile (CASP) – state-of-the-art facility
- 131 degrees for 3 consecutive days
- Remain in pile for 120 days
- Cure for additional 6 months
- Test per US Composting Council
- Sell to farmers, ranchers, vineyards and more

Certified Compost
STA | Seal of Testing Assurance

Altamont CASP Compost Facility





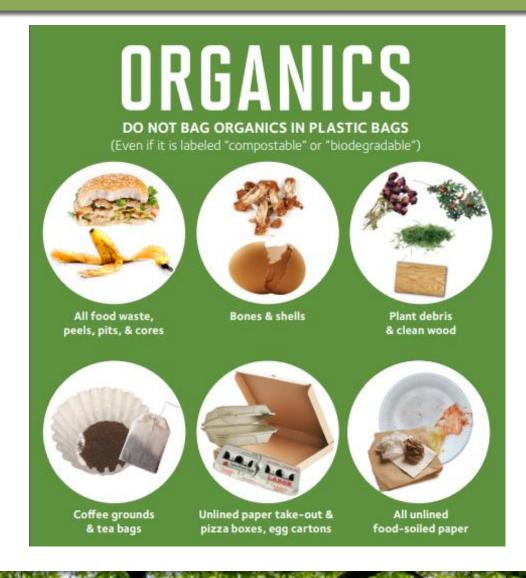




What's Accepted in the Organics

FOOD

- Vegetables, fruit, raw/cooked meat, egg shells, bones
- Coffee grounds & tea bags









What's Accepted in the Organics

FOOD SOILED PAPER

- Pizza boxes
- Napkins & paper towels
- Paper egg cartons
- Unlined (no plastic) paper take-out containers
- Unlined (no plastic) paper plates
- Wood/bamboo plates and utensils
- Shredded paper





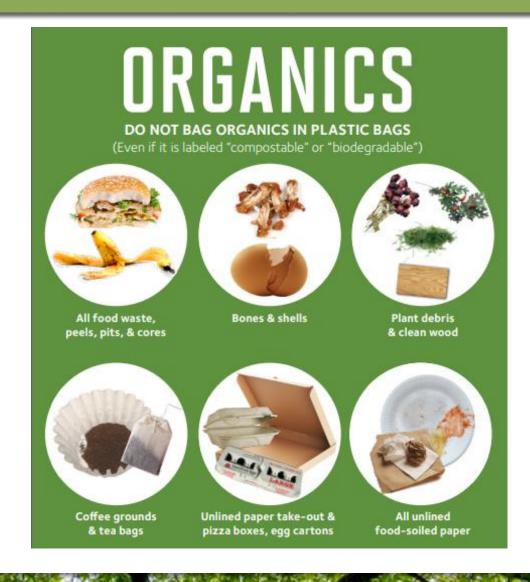




What's Accepted in the Organics

YARD WASTE

- Leaves
- Grass
- Plant debris
- Clean, untreated wood









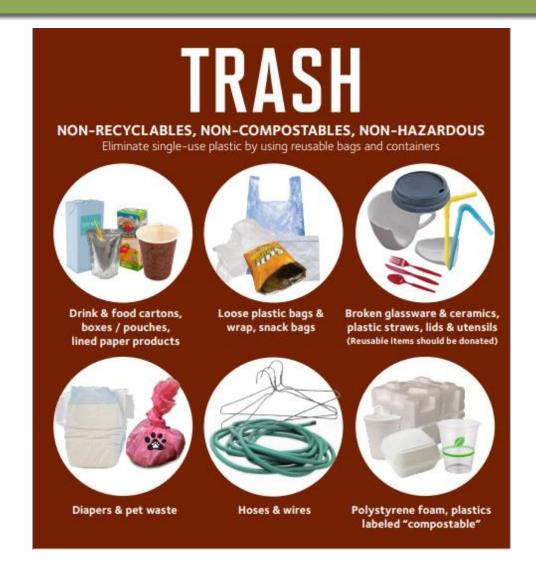
What's Trash

HUMAN/PET WASTE

- Diapers
- Carnivorous pet waste (dogs & cats)

"COMPOSTABLE" PLASTIC

 All plastic items that say "Compostable" on them









Contaminants in the Compost

• Common contaminants: Glass, plastic bags, "compostable" bags & service ware, plastic bottles, plant containers, metal cans, plastic-lined paper products









Tips for Composting

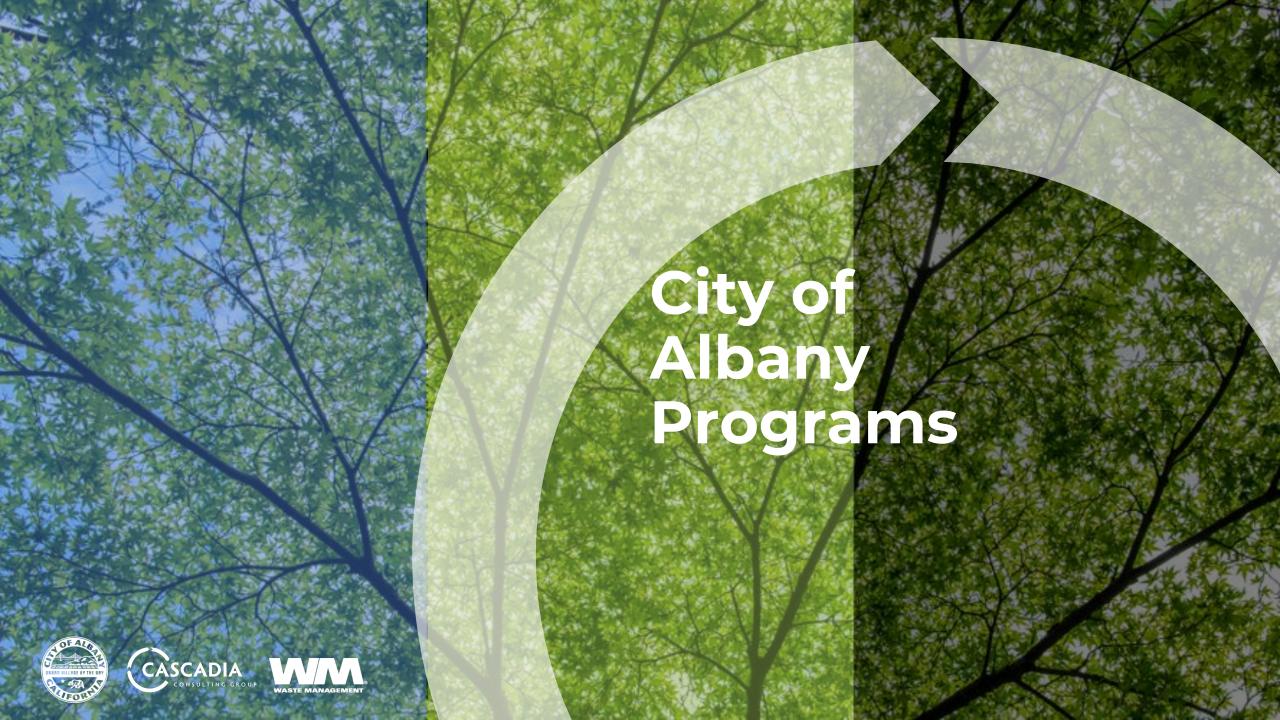
- Keep it convenient
 - Collect food in kitchen pail store under sink
 - Collect food in cereal box or reusable container store in freezer
- Put it properly in the Organics cart
 - Add loose items to green waste cart
 - Transport in paper bag
 - If using a plastic bag to collect organics, throw the plastic bag in the trash after emptying
- Add shredded paper or soiled cardboard (like pizza boxes) to absorb moisture











Additional Waste Programs in Albany

- Curbside trash, recycling, and organics service
- Annual Compost Giveaway
 - May 16, 2020
- Special Handling
 - Bulky pickup for single-family dwellings 2x annually
 - Household Hazardous Waste drop-off events 2x annually









Special Events

- Citywide Garage Sale May 9, 2020
- Crop Swaps Tuesdays May-October
- Fix-it Clinics
- Clothing Swaps
- Toy Swaps
- Compost Giveaway May 16, 2020











Waste Policies in Albany

- Polystyrene Foam Ban
 - Prohibits use of polystyrene foam take-out containers
 - Requires recyclable or compostable alternatives
- Reusable Bag Ordinance
 - Single-use plastic bag ban for all retail and restaurants, charge for paper or "reusable" bags
- Mandatory Recycling & Organics Ordinance
 - Recycling and organics service and sorting requirements for businesses and multi-family buildings
- Construction and Demolition Ordinance
 - Update in progress
- Environmentally Preferable Purchasing Policy
 - City procurement and disposal best practices
 - Sustainable Procurement Policy update in progress
- Reusable Food Ware Ordinance
 - Development in progress









Climate Action & Adaptation Plan



DECARBONIZE

- Eliminate the use of fossil fuels in buildings and transportation
- Reduce consumption to decrease fossil fuel use where products are manufactured

GENERATE

- Generate clean, renewable energy
- Focus on local renewable energy and battery storage

SEQUESTER

- ✓ Sequester CO₂ with green infrastructure preservation and improvement
- Offset any new emissions through carbon-capture technologies

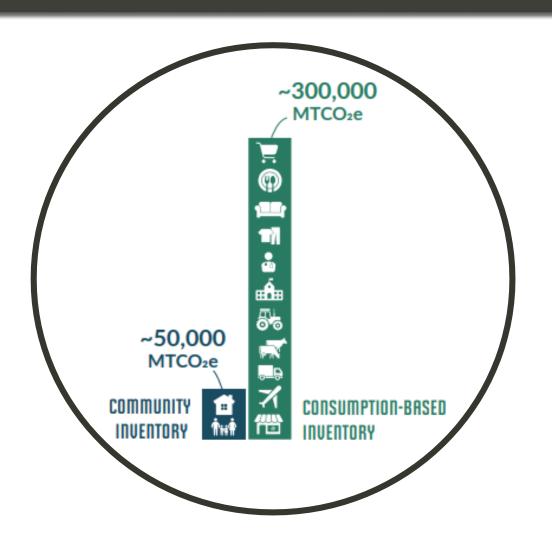






Climate Action & Adaptation Plan

- Climate Action Goals:
 - 70% GHG reduction by 2035
 - Carbon neutral by 2045
 - Adapt to effects of climate change
- Strategy 3: Facilitate a Carbon-Free Economy
 - This strategy commits the City to choosing lowor no-carbon options for typically highemissions purchases (e.g., concrete, fuel, fleet), while incentivizing individuals' actions to reduce waste and carbon in their daily lives.



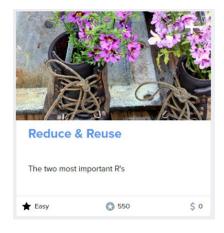






Carbon-Free Albany

- Resources on cost-saving, waste and energy reduction efforts.
- Form teams with friends and neighbors
- Take actions that reduce your carbon footprint.
- 2020 Carbon-Free Albany Challenge from January until June
- Sign up and form a team at carbonfreealbany.org



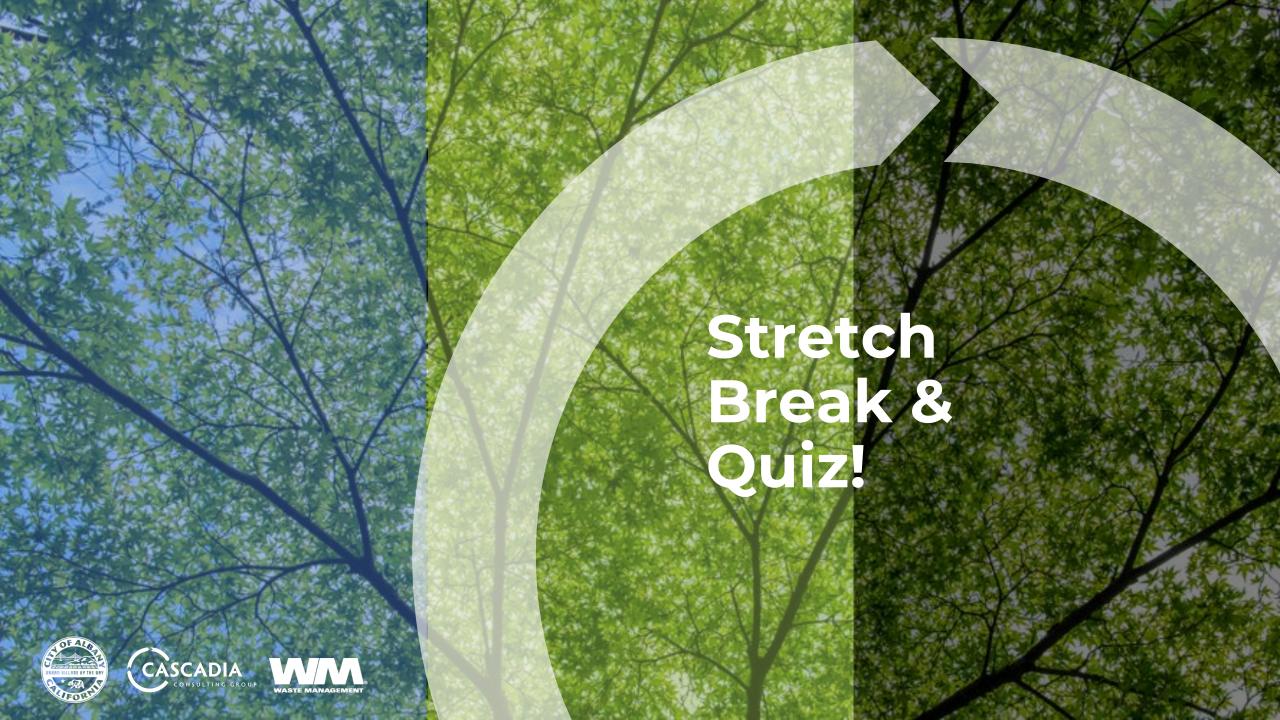












Quiz











Paper Coffee Cup

Plastic Berry Container

Plastic Mail Pouch

Toilet Paper Roll

Compostable Plastic Silverware











Paper Egg Carton

Paper Towel

Compostable Plastic Cup

Cardboard Box

Junk Mail







Quiz Results









Paper Coffee Cup TRASH

Plastic Berry Container TRASH

Plastic Mail Pouch TRASH

Toilet Paper Roll RECYCLING

"Compostable" Plastic Silverware - TRASH











Paper Egg Carton
ORGANICS



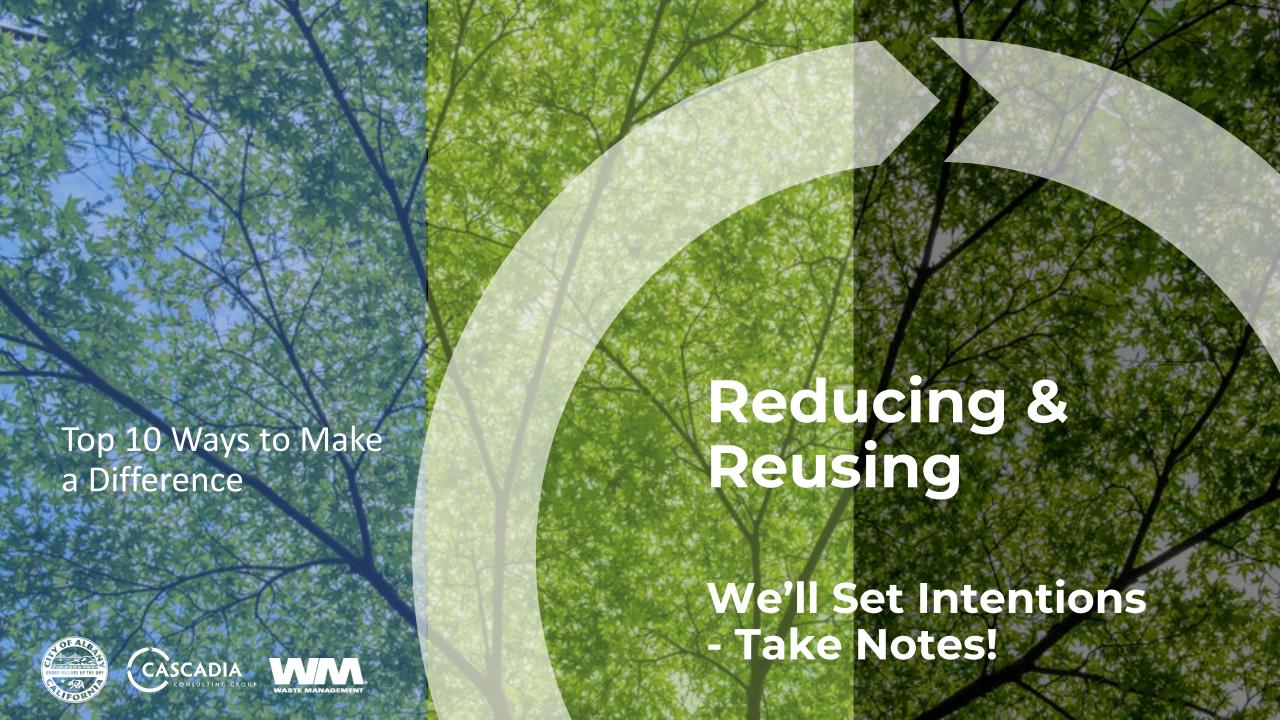
Paper Towel ORGANICS

"Compostable" Plastic Cup

TRASH

Cardboard Box RECYCLING

Junk Mail RECYCLING



Composting Food Scraps

 Commit to composting 100% of your food scraps, paper towels, and yard waste



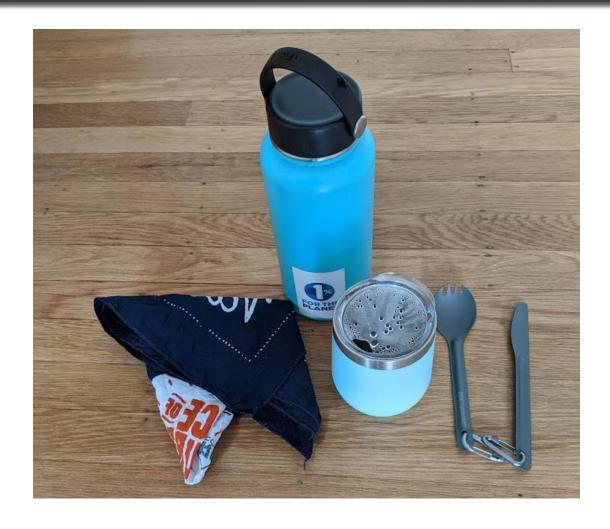






Carry Durables With You

- Water bottle
- Coffee cup
- Silverware
- Bandana/towel



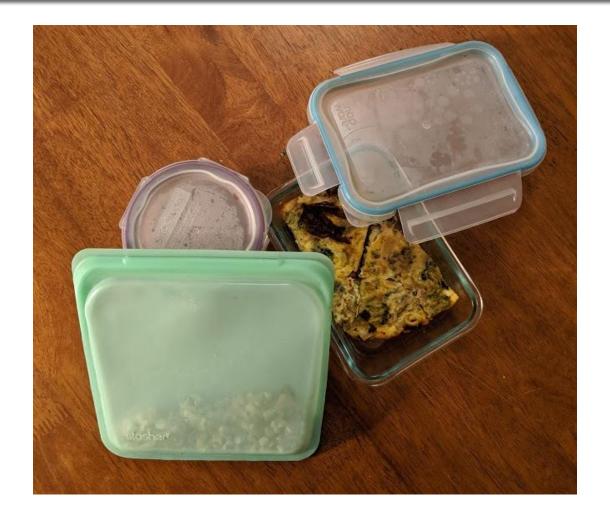






Pack Waste-Free Lunches

- Make your own salad dressing
- Avoid individually packaged snacks
- Switch plastic bags for silicone bags/Tupperware









Zero Waste at Restaurants

- Support local businesses that avoid single-use items for dine-in
- Bring your own containers for take-out
- Bring a container to take home food that you can't finish



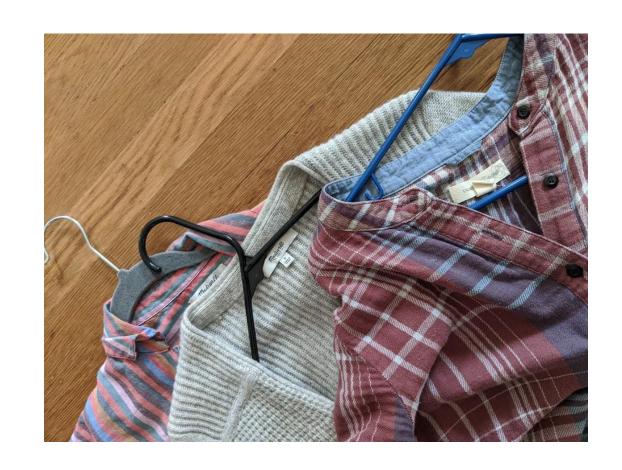






Reuse Items

- Purchase used clothing, home and garden supplies
- Citywide Garage Sale May 9, 2020
- Local swap events
- Thrift and consignment stores
- Craigslist & Facebook Marketplace
- Nextdoor
- Rent instead of buy









Repair

IDEAS:

- Mend clothing
- YouTube how to fix/repair something that is broken
- Find a local business that specializes in repair
- Look for local Fix-It Clinics
- Tool Pool: Albany Tool Lending Library

Albany Tool Pool: Tool List

- Axes
- Belt sander
- Cabinet scraper
- Caulking gun
- Chisels, gouges & parting Lopping shear
- Circular saw
- Clamps
- Digging/tamping bar
- Drill bits
- Drills
- Files
- Fruit picker
- · Garden claw
- Glue gun
- Grinders
- Hacksaws
- Hammers
- Hedge shears (electric)
- Ladder

- Lawn mowers
- Lawn roller
- Levels
- Linoleum knife
- Mini flexible pick-up claw
- Notched trowel
- Paint scraper, shield
- Planes
- Pliers
- Pole pruner/saw/lopper (manu • Vise grips al)
- · Posthole digger
- · Pruning saw
- Pruning shears
- Push broom
- Putty knife
- Rake
- · Random orbital sander
- Rasps

- · Reciprocating saw
- Saws
- Screwdrivers
- Shovels (round, square
- Socket sets (various)
- Soldering gun and iron
- Squares
- · String trimmer
- Trowel
- · Utility knife
- Wheelbarrow







Purchase Post-Consumer Products

- 100% Recycled paper towels, napkins, and toilet paper
- 100% recycled printer paper
- Post-consumer recycled office supplies, such as pens or sticky notes









Re-fillable Containers

- Ask businesses to fill durable containers with dry good, left overs, purchases, & to-go food
- Charging for single-use containers
- Providing fiber-based compostable togo ware
- Offering refills using company-branded containers
- The possibilities are endless JUST ASK!



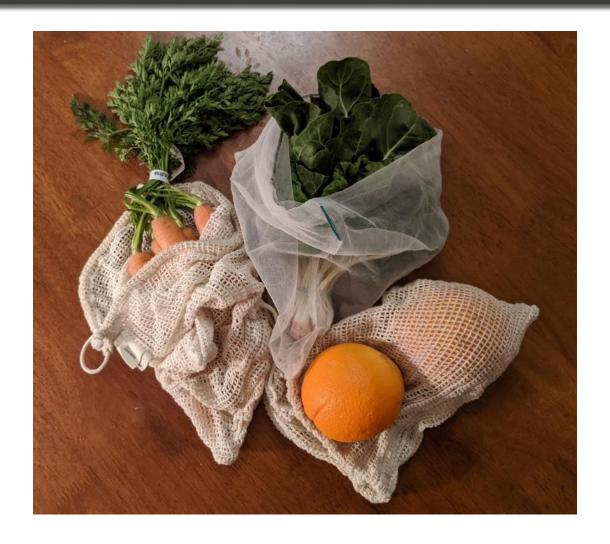






Zero Waste Grocery Shopping

- Reusable produce bags
- Shopping in bulk
- Bring glass containers for meat



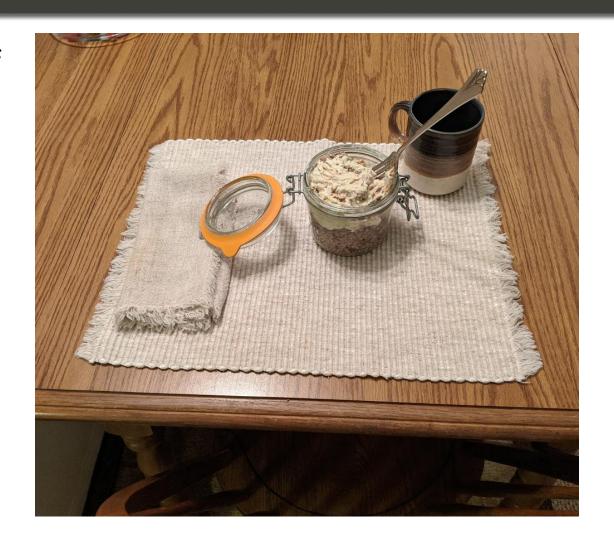






Reduce Food Waste

- Shop smart to buy the right amount of food
- Label and track left-overs to ensure they are eaten
- http://stopfoodwaste.org/resources









Local CSA Box

 Consider looking for farms prioritizing zero waste such as Full Belly Farm (doesn't use plastic or cardboard boxes)









Encourage Family & Friends

- Spread the word on what you learned today
 - How to sort properly
 - Importance of recycling & composting right
 - Ideas for waste reduction
- Advocate at local businesses to switch over products









Pledging To Do More

- Set intentions for Who, What, Where, When to make new habits stick
- Commit to 3 (or more!) actions on the Waste Reduction Cheat Sheet
- Check out the local businesses providing products and resources to support a sustainable lifestyle!









Stop by our tables to ask questions!

- Recycling & Composting Sorting Game > Lina, Waste Management
- Recycling & Composting Questions > Lizzie, City of Albany
- Brainstorm Reduce & Reuse Ideas > Claire, City of Albany & Jess, Cascadia Consulting Group
- Carbon Free Albany > Bianca, City of Albany





