



Keep It Local for Better Compost

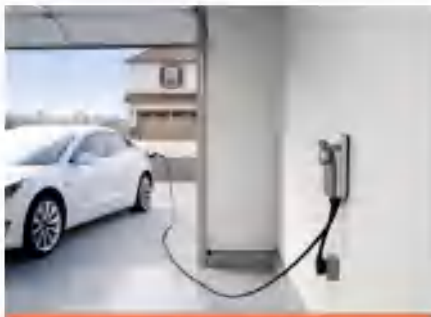
Brenda Platt

Composting for Community Initiative
Institute for Local Self-Reliance

May 1, 2023
Vermont Organics
Recycling Summit

A word about ILSR

ENERGY DEMOCRACY



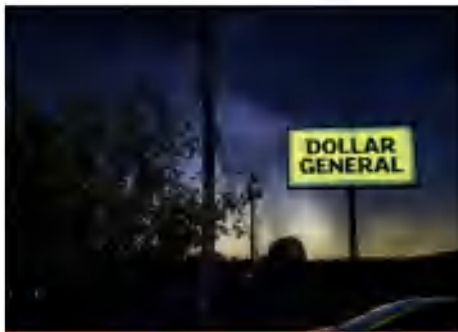
The Value Idling in Electric Vehicles — Episode 182 of Local Energy Rules

BROADBAND



Case Study Shows How Local Providers Built World-Class Broadband in Rural North Dakota

INDEPENDENT BUSINESS



New Report: The Dollar Store Invasion

COMPOSTING FOR COMMUNITY



ILSR Helps Pass Bill Expanding On-Farm Composting of Food Scraps in MD!



ILSR INSTITUTE FOR
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A word about ILSR



Vermont's Community Solar Program

by Abby Hornberger | Date: 22 Apr 2017 | [f](#) [t](#) [r](#) [v](#)

Unlike other states, Vermont's net metering program is not run by a utility company or third-party. Instead, participants create their own process for allocating credits to account holders. This post summarizes the policy and compiles Vermont community solar resources.... [Read More](#)



New Funding Enables Expansion of Community Broadband Efforts in Vermont

by H Trostle | Date: 21 May 2019 | [f](#) [t](#) [r](#) [v](#)

The Vermont Public Service Department awarded ECFiber, a community-driven effort of 24 different towns focused on bringing broadband access to rural Vermont, with about \$63,000 in grant funding. ... [Read More](#)



CUDs Lead Affordable Fiber Revolution in Vermont

by Karl Bode | Date: 21 Dec 2022 | [f](#) [t](#) [r](#) [v](#)

When it comes to affordable broadband, Vermont has always been a trailblazer. From early adoption of municipal broadband and cooperatives to more recent experimentation with CUD (Communications Union District) fiber deployments, the state's..... [Read More](#)



Vermont Public Radio Interviews Stacy Mitchell on Amazon's Stealth Takeover of Vermont

by Nick Stumo-Langer | Date: 13 Nov 2017 | [f](#) [t](#) [r](#) [v](#)

In the News: Stacy Mitchell November 13, 2017 Media Outlet: Vermont Public Radio's Vermont Edition During ILSR's co-director and Community-Scaled Economies initiative director Stacy Mitchell swing through Vermont to discuss Amazon at two events at independent bookstores, she spoke on the public affairs radio show Vermont Edition on Vermont Public Radio. Here's the details from the post, make sure ... [Read More](#)



BEYOND 40 PERCENT

RECORD-SETTING RECYCLING
AND COMPOSTING PROGRAMS



United States
Environmental Protection
Agency

Solid Waste and
Emergency Response
(5306W)

EPA-530-F-98-023
September 1998
www.epa.gov/csw

Don't Throw Away That Food

Strategies for Record-Setting Waste Reduction



The Waste Reduction Record-Setting Project fosters development of exceptional waste reduction programs by documenting successful ones. These programs can be used as models for others implementing their own programs to reduce garbage. This fact sheet packet is oriented toward commercial and institutional food discard generators, and highlights record-setting food recovery programs.

Food discards: what are they and where do they come from?

Food discards (not dis-kind) food preparation wastes and uneaten food from households, commercial establishments, institutions, and industries.¹

Major generators: restaurants, supermarkets, produce stands, school cafeterias, hospitals, food processors, farmers, hotels, prisons, employee lunch rooms and community events.

Examples: leftovers, outdated bread, wilted lettuce, surplus canned goods, vegetable peels and fruit pits.

Why recover food discards?

According to the U.S. Department of Agriculture Economic Research Service, if 5% of consumer, retail, and food service food discards from 1995 were recovered, savings from landfill costs alone would be about \$50 million dollars annually.² Recovering 5% of losses from these three sources "would represent the equivalent of a day's food for each of 4 million people."³ Food discards comprise 6.7% by weight of the total U.S. municipal solid waste stream. In 1995, 14,000,000 tons of food discards were generated. Of this, only 4.1%, 600,000 tons, was diverted, or recovered, from the traditional disposal destinations of landfills and incinerators.⁴

Almost any business can successfully create fewer discards by buying less, and can divert food discards from landfills. Businesses with record-setting food diversion programs are recovering 50 to 100% of their food discards and reducing their overall solid waste by 33 to 83%. Often, recovery of food and other organics is just one part of a successful overall waste reduction program that realizes both environmental and economic benefits. Your program can allow you to:

- Avoid trash collection and disposal fees;
- Provide food to the needy;
- Recover the nutrient value of the food as compost or animal food;
- Help your community meet local and state waste reduction goals;
- Sustain local industries and jobs; and
- Create an improved public image for your business.

Model Programs — Diversion Strategies and Rates

Record-Setting Program	Diversion Strategies	Materials Collected	Food Discards and Other Organics Recovered (tons per year)	% Estimated Food Discards and Other Organics Recovered	% Total Waste Stream Recovered*
Del Mar Fairgrounds, California	On-site composting; on-site vermocomposting; rendering	Discards from fair food vendors, paper plates, cups, napkins, towels, vegetable and fruit scraps and other discards from on-site kitchens cooking oil	51 (1996)	75%	85%
Ritchie Allen Health Care, Vermont	Off-site composting; rendering; donations	Kitchen food prep discards; leftovers from steam tables; grease; edible produce	100 (1997)	90%, pre-consumer	2%
First Valley YMCA, New York	On-site composting	All pre- and post-consumer food scraps and leftovers	80 (1997)	100%	13%
Green Workplace Program, Government of Ontario	Off-site composting; on-site composting	Pre- and post-consumer discards from 27 government restaurants and cafeterias	1,200 (1996)	85%	10-80%
Lynn's Market, Washington	Off-site composting; rendering; donations	Produce and floral trimmings and spoils; waste cardboard; meat and fish trimmings; canned goods	870 (1995, est.)	96%	64%
Middlebury College, Vermont	On-site composting	Kitchen food prep discards and post-consumer leftovers from cafeterias and snack bars; waste cardboard; cardboard	100 (1996)	72%	64%
New York State Department of Correctional Facilities	On-site composting at 30 facilities; off-site composting at 17 facilities	Kitchen food prep discards, post-consumer leftovers including chicken bones, tuna discs except paper towels and mixed cardboard	4,200 (1997)	96%	85%
San Francisco Produce Recycling Program, California	Donations; animal feed; off-site composting	Edible, non-salable produce; inedible produce; spoiled produce and trimmings	1,500 (June 1996 - August 1997)	Greater than 50% from participating businesses	NA
Shop Rite Supermarkets, New Jersey	Off-site composting; rendering	Food and produce trimmings and spoils, out-of-date bakery items, old seafood, salad paper products, food spills, out-of-date dairy and deli products, waste cartoned cardboard; meat products	3,000 (1997)	85%	50%
University of Massachusetts, Amherst**	On-site composting	100% kitchen prep scraps, pre-consumer leftovers, post-consumer discards	200 (September 1996 - August 1997)	100%	40%



Record-Setting
Community Recyclers
Nation

Solid Waste and
Emergency Response
Division

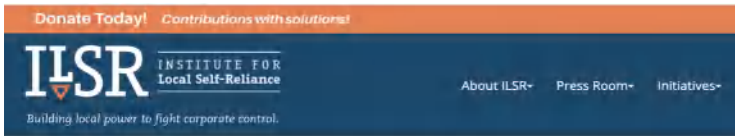
CHALLENGE
Award 1999

Cutting the Waste Stream in Half:

Community Record-Setters
Show How



Fighting the proliferation of dollar stores



Report: Dollar Stores Are Targeting Struggling Urban Neighborhoods and Small Towns. One Community Is Showing How to Fight Back.

BY STACY MITCHELL AND MARIE DONAHUE | DATE: 6 DEC 2019 | [f](#) [t](#) [v](#) [m](#)

It's not easy to buy groceries if you live on the north side of Tulsa, Okla. This predominantly African American part of the city sprawls for miles and yet does not have a single, full-service grocery store.

For many of North Tulsa's residents this means their best option for buying groceries close to home (and really, their only option) is a dollar store. There are dozens of those. Dollar General, together

<https://ilsr.org/dollar-stores-target-cities-towns-one-fights-back/>



The Dollar Store Invasion: Communities are in Revolt, But the Chains' Predatory Tactics Also Call for Federal Action

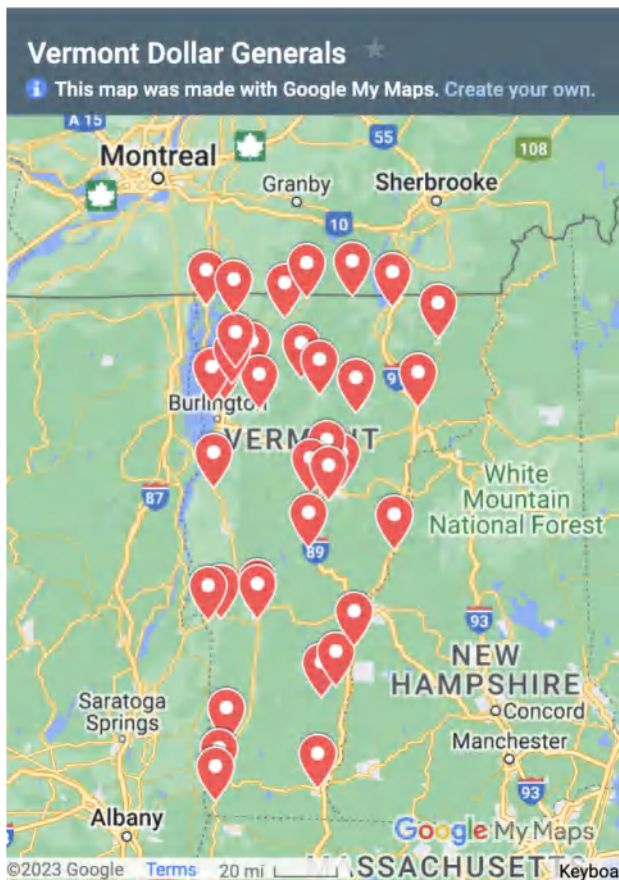
By Stacy Mitchell, Kennedy Smith, and Susan Holmberg
March 2023

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Local Self-Reliance

<https://ilsr.org/report-dollar-store-invasion/>



Rural areas & small towns prime target



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SAINT ALBANS
MESSENGER

Local News Things To Do Sports Obituaries Classifieds Preferred Business Shop Local 1000+ Local Businesses Advertise with us Subscribe eEdition

Dollar General eyes spot near I-89; St. Albans City Council approves water allocation

Written by [Joan Ellersbrock](#)
Published on Jul 12, 2023

Facebook Twitter Email Print



The spot where Dollar General is proposing to build a new retail store is currently being used as a corn field.

ST. ALBANS — Is a Dollar General coming to St. Albans?

Plans for a fifth Dollar General in Franklin County moved through St. Albans City Council Monday night when councilors approved an extra-territorial water allocation for the retail store, potentially to be located on state Route 104.

A Dollar General spokesperson, however, said the company is still figuring out its approach.

Challenges to advancing organics recycling

The lack of infrastructure

Access to land

Funding & financing

Permitting & zoning

Contamination

Rules that favor disposal and/or
privilege large industrial sites)

OR that don't prevent that privileging

Lack of holistic food systems approach



Most important 5 letter word to recycling
(not too long ago)?

CHINA

Most important 5 letter word to composting?

LOCAL

Why local composting?

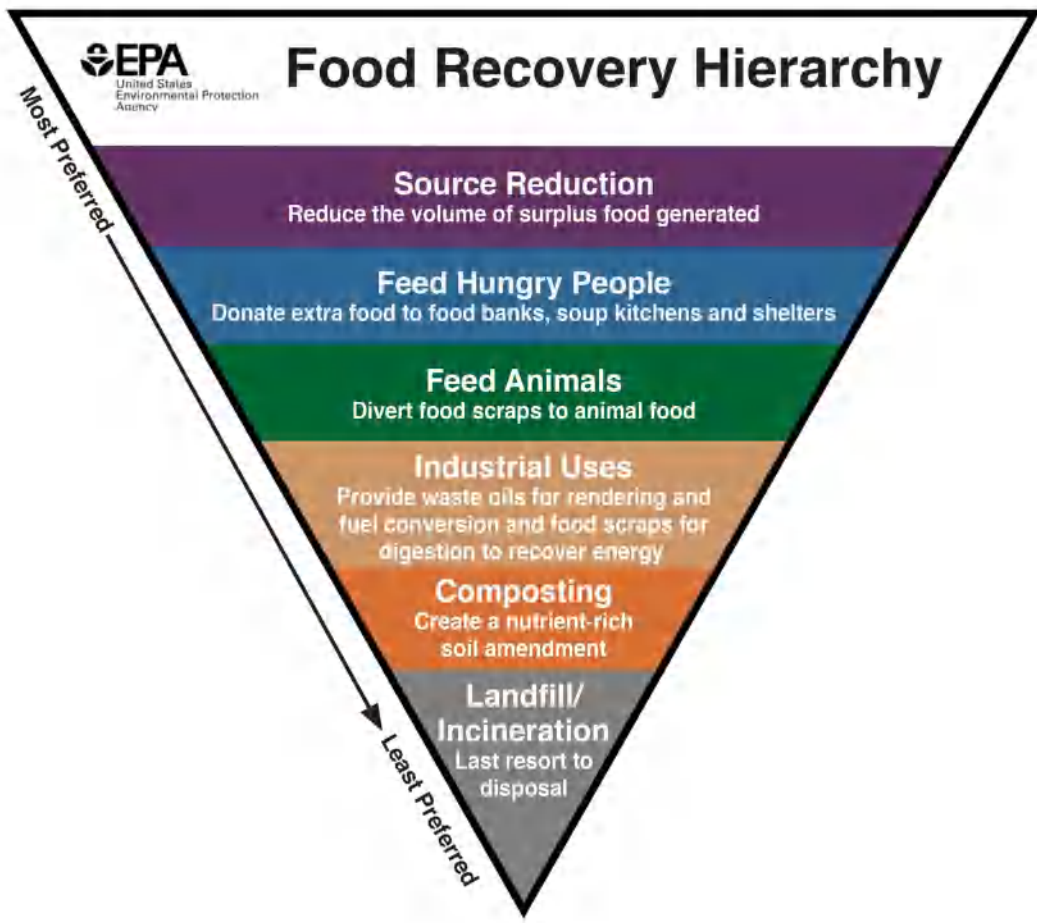
- ▶ Provides composting capacity when none exists and is **cheaper, quicker**, and more in line with **community values** than large and industrial composting facilities.
- ▶ **Engages and educates communities** in composting and zero waste practices.
- ▶ **Increases demand** for and interest in composting.
- ▶ Enhances **local soils** and **local food production**.
- ▶ **Supports farmers** (urban and rural).
- ▶ **Empowers and strengthens communities** by bringing people together and providing useful skills and jobs training.
- ▶ Often **serves overlooked/under-resourced** communities.

What is community composting?



COMMUNITY COMPOSTING keeps the process and product as local as possible while engaging the community through participation and education

EPA Food Recovery Hierarchy



Food Recovery Hierarchy Codified in VT Law?

Vermont's Priorities for Food & Food Scraps



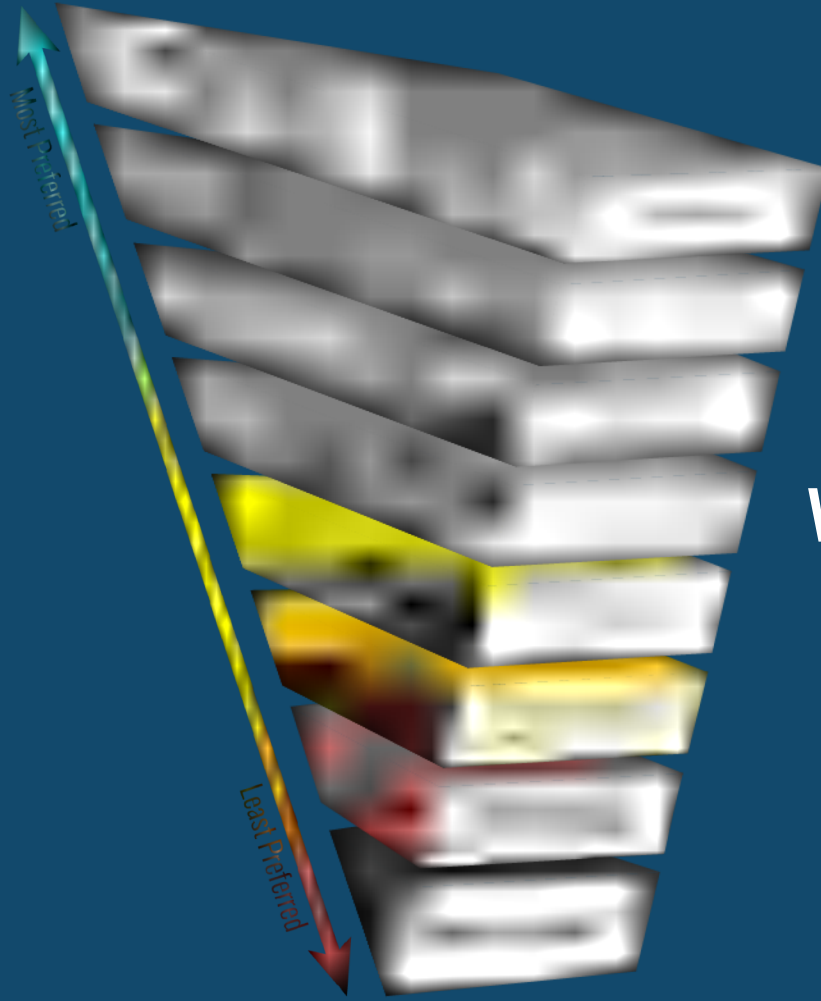
Composting, lots of ways



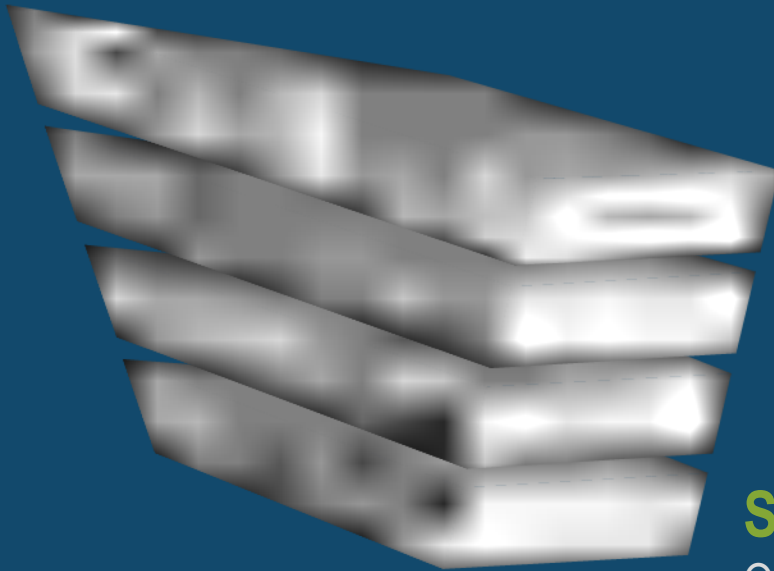
Composting, lots of sizes



What about local? Scale? Diversity?

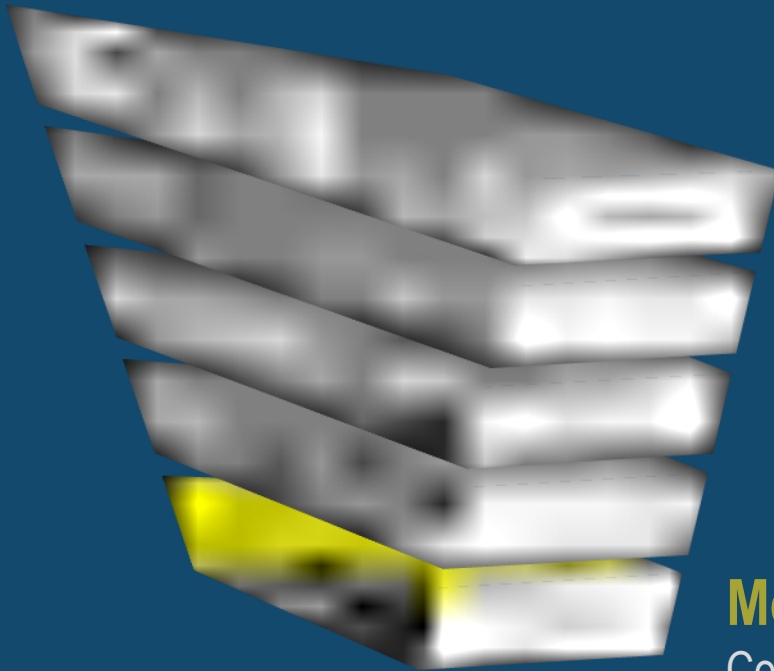


Hierarchy to Reduce Food Waste and Grow Community



Small-Scale, Decentralized

Onsite composting or anaerobic digestion, and community composters can accept material from off-site or simply process their own material.



Medium-Scale, Locally-Based

Composting or anaerobic digestion at the small town or farm scale. These systems handle typically between 10 and 100 tons per week and are designed to serve small geographic areas.



Benefits of on-farm composting

- ▶ Recycles nutrients and organic matter from farm residuals & more
- ▶ Facilitates the use of compost in agricultural soils
- ▶ Farmers
 - have equipment that can be repurposed for composting
 - may be able to produce compost less expensively than purchasing
 - can tailor their composting recipes for their specific needs
- ▶ May provide additional sources of income for farmers (tipping & sales)
- ▶ Provides an opportunity to engage community
- ▶ Contributes to circular food systems & diversified composting infrastructure

Compost Crew - Rockville, MD

Curbside collection
in DC, MD & VA

Small-scale
composting site
on a local organic
farm

Committed to a
closed-loop system



Image sources:
Instagram @_compostcrew
<https://compostcrew.com/>

Spurring On-Farm Composting

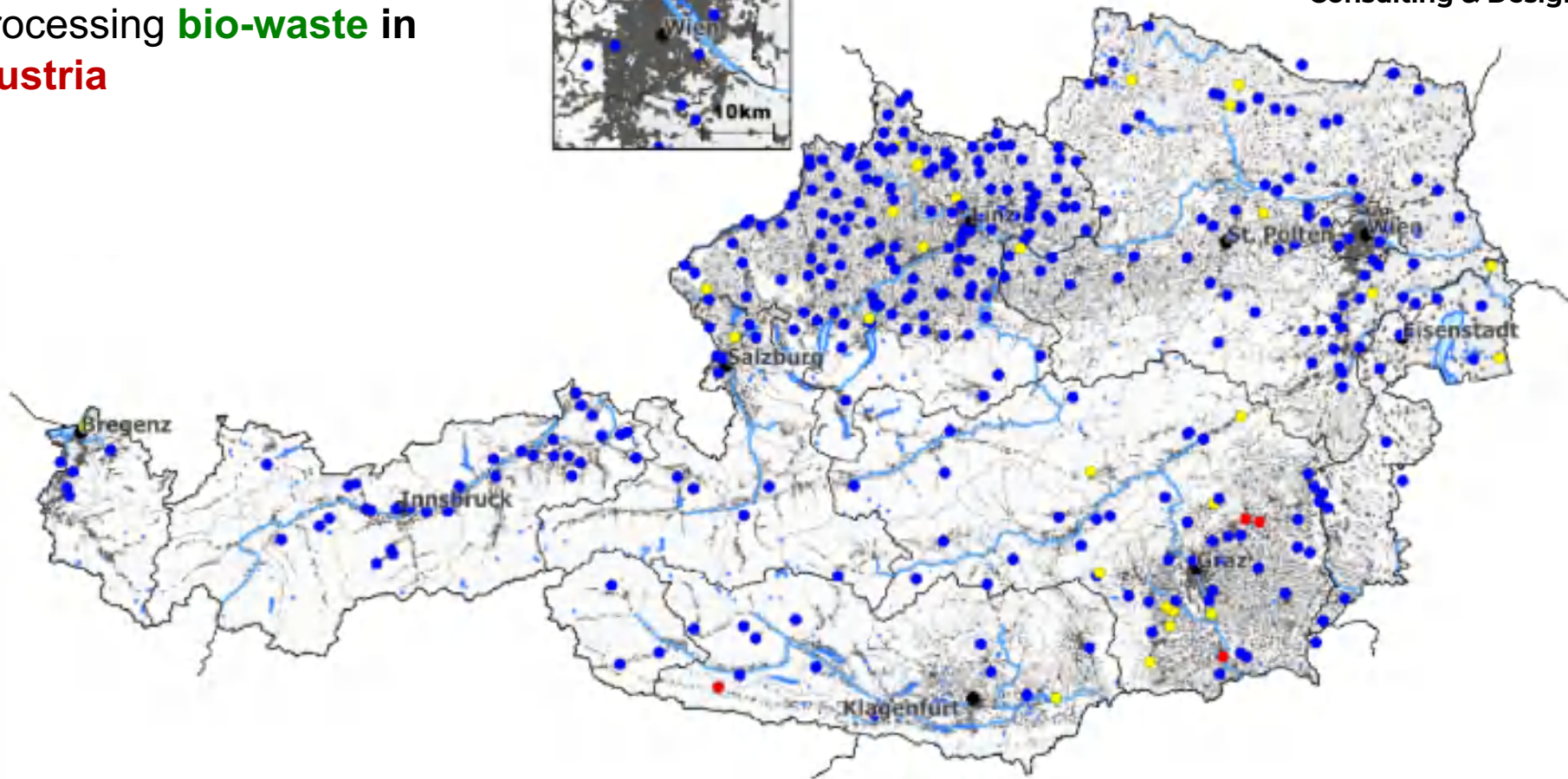
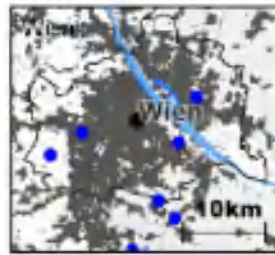


Compost Crew Compost Outpost at
ECO City Farms, Bladensburg, MD



Composting Plants processing **bio-waste** in **Austria**

Slide courtesy of Florian Amlinger, Composting-
Consulting & Design



Number of plants	405
Treated bio-waste & sludge	1.3 Mt = 145 kg/person
Average treatment/plant	3 200 t

From total 1.6 Mt / 180 kg / person
source sep. org. waste

~ 22 000 / person / plant

Slide courtesy of Florian Amlinger, Composting-Consulting & Design



Composting from 300 to 10,000 m³

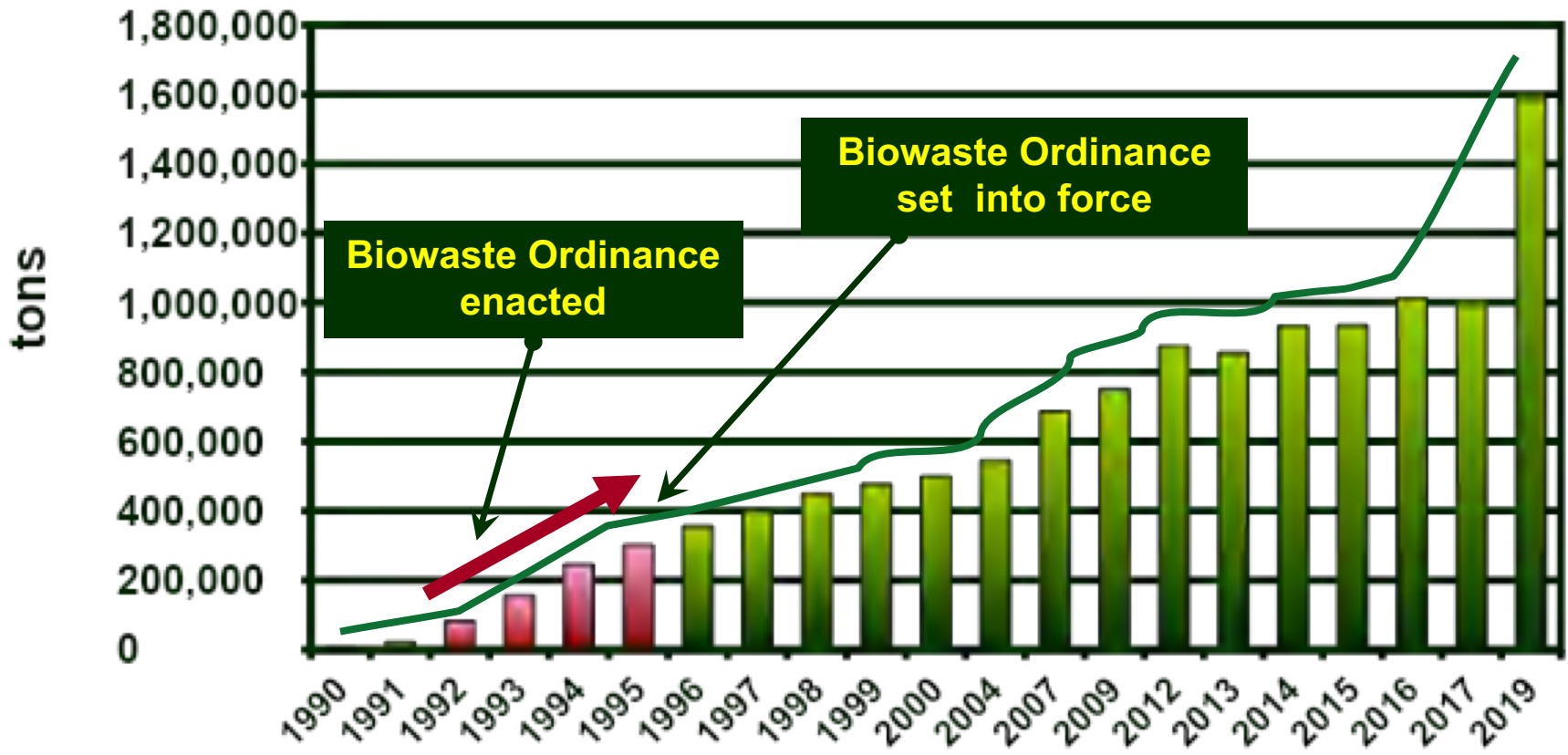


How to expand on-farm composting

- ▶ Clear definitions, rules, & pathways for scaling up responsibly
- ▶ Composting as an approved farm-related activity
- ▶ Source separation & keeping clean feedstocks clean!
- ▶ Quality standards for compost & all soil amendments
- ▶ Technical training & assistance (for farmers, farm service providers, regulators)
- ▶ Demonstration projects, farmers learning from farmers
- ▶ Partner with research institutions for research, field trials & demos
- ▶ Financial support for start-up costs
- ▶ Public education & engagement

Separately Collected Biowaste

The regulatory driver for introducing separate collection and recycling of biowaste



Source: F. Amlinger; national waste statistics and Waste Management Plans

How to expand on-farm compost use

Figure 10. Percentage of Incentives Projects Implementing Each Practice (2017-2020)

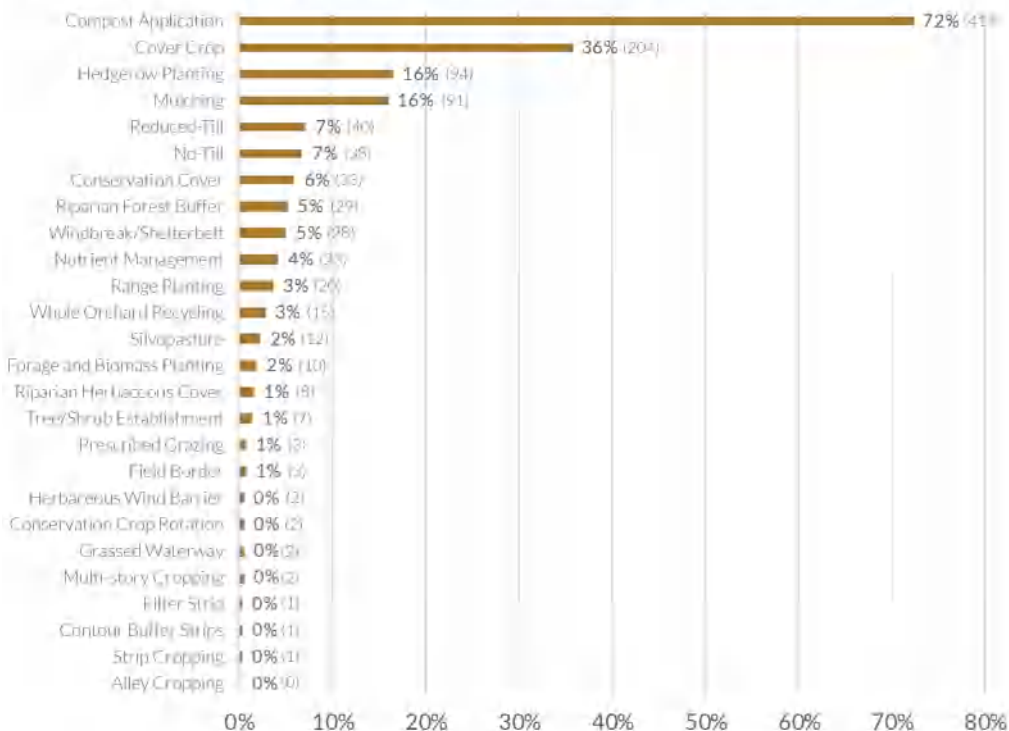
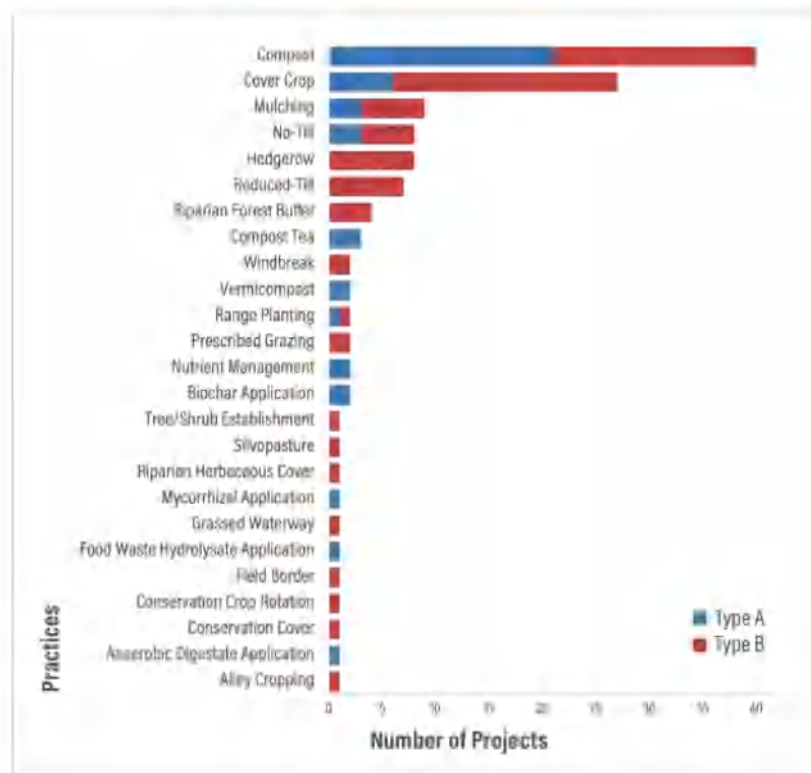
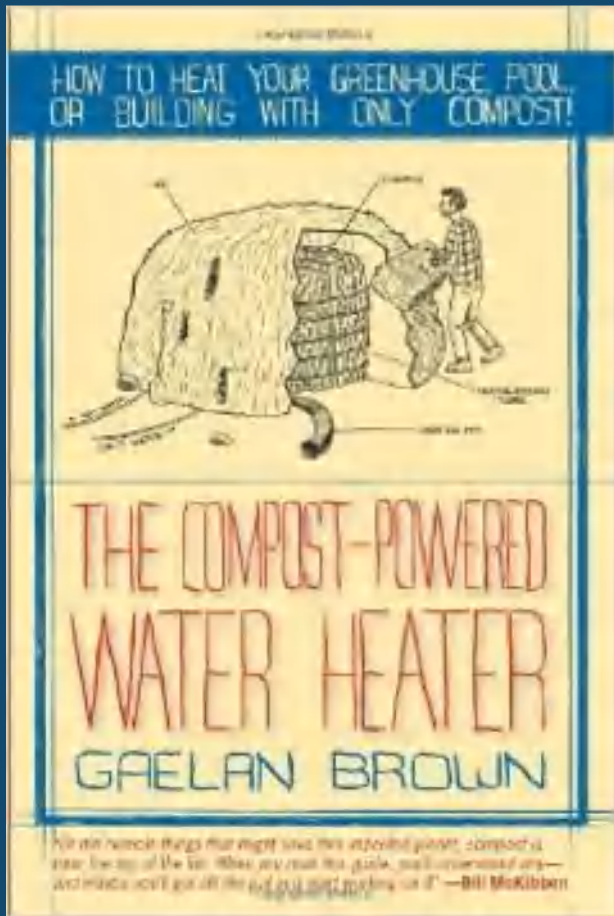


Figure 4. Number of Demonstration Projects Implementing each Practice, 2017-2021.



Source: CalCAN California Healthy Soils Program Progress Reports (2020, 2021)



Composting to Recover Heat, Build Soil and Grow Food



ILSR's Composting for Community Initiative



On-Farm Composting & Compost Use Webinar Series

On-Farm Composting Fundamentals (Aug 24)
With Dr. Robert Rynk

Integrating Composting Into Your Farming Business (Sept 14)
with Ellen Polishuk

Composting Recipes & Integrating Food Scraps (Oct 5)
with James McSweeney

Compost & Soil: Restoring Health & Rebalancing the Climate (Oct 26)
Calla Rose Ostrander and Jean Bonhotal

Profiting With Compost & The Importance of Compost Quality (Nov 16)
with Dr. Greg Evanylo and Jayne Merner-Senecal

Compost – Soil – Plant: Putting the Many Facets Together (Dec 7)
with Dr. Will Brinton

Find out more at ilsr.org/on-farm-composting-webinar-series

Community Composting 101

Neighborhood Soil Rebuilders Composter Training Program

Composting Initiative

Institute for Local Self-Reliance



What is composting?

Composting is...
The controlled decomposition of organic materials under aerobic conditions and the process that involves changes in chemical and physical properties. The result is known as compost. Bark, leaves, yard trimmings, etc.

There are 5 key ingredients:

- 1 Water**
Like decomposing, microbial growth requires water. The water in the pile is provided by the water in the ingredients.
- 2 Air**
Composting is an aerobic process. The air that flows through the pile can be maintained by turning or mixing it once in a while.
- 3 'Greens'**
These are relatively nitrogen-rich, moist, soft materials that decompose quickly. They include grass clippings, vegetable scraps, and manure.
- 4 'Browns'**
These are relatively high in carbon, providing the pile with structure for air flow. They include straw, leaves, and wood chips.
- 5 Living Organisms**
Microbes
Microorganisms are the primary decomposers in the soil. They break down the organic matter and release nutrients that plants can use. They also help to break down the organic matter and release nutrients that plants can use.
Macroorganisms
These larger organisms include earthworms and other soil-dwelling creatures that help to break down the organic matter and release nutrients that plants can use.

Lots of ways and sizes!

✓ YES		✗ NO
GREENS	BROWNS	MEAT, FISH, OR BONES
FRUIT & VEGETABLE SCRAPS (No stickers)	FALL LEAVES	EGGS OR DAIRY PRODUCTS
EGG SHELLS	PLANT STALKS (6" or smaller)	PRODUCE STICKERS
COFFEE GROUNDS & PAPER FILTERS	WOOD CHIPS & SHAVINGS (Not chemically treated)	GLOSSY PAPER
TEA BAGS (No staples or plastic)	SHREDDED NEWSPAPER & BROWN BAGS (No glossy pages)	DISEASED AND PEST-INFESTED PLANTS
GARDEN TRIMMINGS (6" or smaller)		WEEDS WITH SEEDS
		"COMPOSTABLE" TABLEWARE & PLASTIC BAGS
		FATS, OILS, OR GREASE
		COOKED FOOD
		PET WASTE & KITTY LITTER
		TREATED OR PAINTED WOOD
		HERBICIDE-TREATED PLANTS
		DRYER LINT
		USED TISSUES

Developed by the Institute for Local Self-Reliance



LEARN TO COMPOST For healthier food, healthier soil,
healthier communities.



Celebrate International Compost Awareness Week (May 7-13) with
FREE enrollment for ILSR's self-paced online course
Community Composting 101!

This offer applies to residents
of states and tribal lands in
the Mid-Atlantic
(DE, DC, MD,
PA, VA, WV)
and Northeast
(CT, MA, ME,
NH, RI, VT).

Learn more
at [ilsr.org/
composting/
CC101-free-
enrollment-
ICAW](https://ilsr.org/composting/CC101-free-enrollment-ICAW)



IT'S ALL ABOUT THE SOIL

COMPOST improves biological, chemical, and physical characteristics of soil.

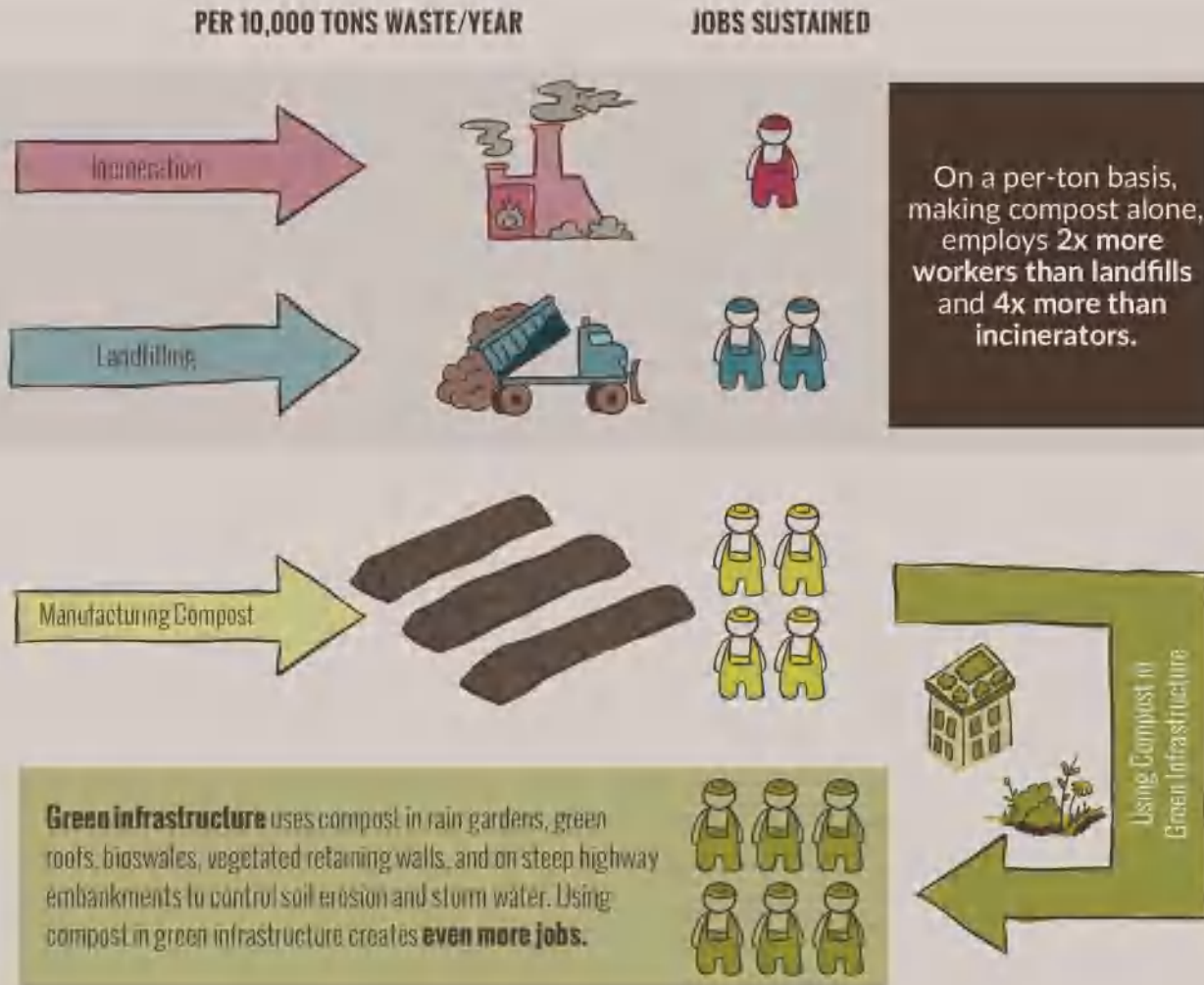


ilsr.org/compost-impacts/



Composting Creates Jobs

Jobs are sustained in each stage of the organics recovery cycle.



WHY COMPOST?

1 TO REDUCE YOUR WASTE

> 50% of municipal garbage is compostable.

You can compost: food scraps, yard trimmings, paper, wood waste & more!

2 TO ENHANCE YOUR SOIL

COMPOST:

- increases soil fertility & suppresses plant disease
- improves soil structure
- increases microbial activity & water retention capacity

3 TO GROW YOUR COMMUNITY

Community composting gets people to engage with each other & how their food is grown

Making compost creates 4x more jobs (per ton) than landfills & incinerators

Food scraps in landfills & incinerators generate pollutants like methane...

...but food scraps converted into compost actually sequester carbon.

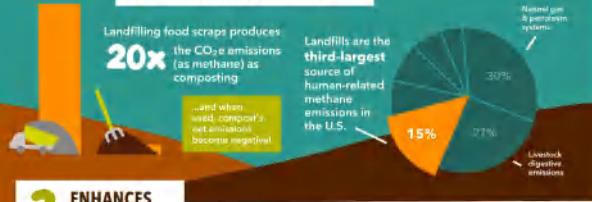
1 TO PROTECT THE CLIMATE

<https://ilsr.org/infographics-compost-better-planet/>



HOW COMPOSTING COMBATS THE CLIMATE CRISIS

1 AVOIDS WASTE OUTCOMES WITH HIGH EMISSIONS



2 ENHANCES SOIL QUALITY

Compost increases:



Nutrients in soil

- Grows healthier, more nutritious plants & food
- Reduces use of synthetic nitrogen & fossil-fuel-intensive fertilizers

Synthetic nitrogen accounts for **80%** of human-related nitrous oxide emissions



Water holding capacity

Increases soil resiliency to extreme heat & flooding

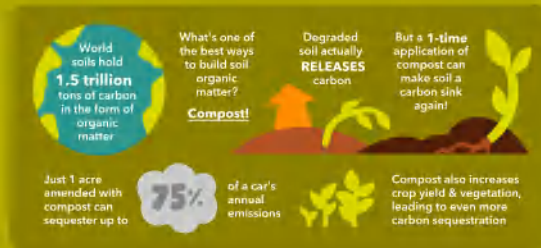


Soil aggregation

Prevents erosion & runoff, thus protecting & restoring waterways

Normally it takes **1,800 years** to build **6 inches** of topsoil but with compost, it takes only **6 months**

3 SEQUESTERS CARBON



4 BUILDS COMMUNITY RESILIENCY



ilsr.org/compost-climate

ILSR's Composting for Community Initiative




COMMUNITY COMPOSTING DONE RIGHT

A Guide to Best Management Practices

STOP TRASHING THE CLIMATE

EXECUTIVE SUMMARY
June 2008



GROWING LOCAL FERTILITY: A GUIDE TO COMMUNITY COMPOSTING

A COLLABORATION OF
HIGHFIELDS CENTER FOR COMPOSTING
AND THE INSTITUTE FOR LOCAL SELF-RELIANCE



Guide to
Composting Onsite at Schools

October 2011



About This Guide

The guide introduces the basics of onsite composting at K-12 schools that have been equipped with 2- and 3-bin composting systems. Learn why composting is important, the basic ingredients needed to produce good compost, steps to getting started, and how to troubleshoot should problems arise.

Unlike many food waste collection programs in the cafeteria, onsite composting at school gardens composting systems cannot handle all food waste. Meat, cooked food, dairy, and grease and oil are specifically excluded!

Onsite composting does not have to be a lot of work. The decomposer organisms are the labor force doing most of the work. But by getting it more efficient, the size of composting can decrease! Good compost can be made with very little effort - it just takes longer. The most rapid composting happens when you start with mixed brown and green materials, regularly turn (mix) the pile, and control the water content.

Questions? How can we improve this?

Inside!

- What & Why Compost • p. 2
- What is compost and composting? Why should we compost?
- Health & Safety Considerations • p. 17
- Composting Basics • p. 3
- Learn what materials to compost and the importance of air, water, and size.
- Troubleshooting • p. 18
- 5 Steps to Get Started! • p. 7
- Clarify terms and methods, secure tools, collect ingredients, make a recipe, build a pile.
- Using Finished Compost • p. 22

STATE OF COMPOSTING IN THE US

What, Why, Where & How

Branda Platt
Instructor for Local Self-Reliance

Nora Gindereim
biocycle

Craig Coker
Coker Composting & Consulting

Paula Inoué
University of California

ILSR
INSTITUTE FOR LOCAL SELF-RELIANCE

APRIL 2014

YES! IN MY BACKYARD:

A Home Composting Guide for Local Government

By Branda Platt and Colton Fagundes



ILSR INSTITUTE FOR LOCAL SELF-RELIANCE

July 2010
www.ilsr.org

DECEMBER 2011
BIOCYCLE
THE ORGANICS RECYCLING AUTHORITY

NATIONWIDE BIOCYCLE SURVEY
Residential Food Waste Collection Access In The U.S.



Learn more at: ilsr.org/composting



Growing Local Fertility: A Guide to Community Composting

SCHOOLS

Ferrisburgh Central School, Ferrisburgh, VT

The Ferrisburgh Central School composts 100% of the school's food scraps to-site, as well as leaves, needles, and a neighbor's horse manure. The compost made is at the school.

START DATE: 2010

DRIVERS: FR and with grade students were learning about recycling, garbage, and landfill; they realized they were not composting at their school and began a conversation about it. Initially parent volunteers hauled the food scraps off site, until the

order to foster hot temperatures, even during the dead of winter, and they report temperatures over 150 F in January. The system designs, created by HighFields Center for Composting, were the original prototype for the open source design guide now available on the HighFields website.

FARM & COMMUNITY COLLECTION INITIATIVE—RURAL

Close the Loop! St. Albans, Northwestern, VT

START DATE: 2011

DRIVERS: While the Northwest corner of Vermont is very rural, the town of St. Albans and the surrounding region generates a significant amount of food scraps. The Hudson Falls border from St. Albans in Swanton. The vegetable and berry production need and cover cropping to maintain crops. Food scraps collected from the cover farm, solve a waste management challenge by replenishing the farm's soils with organic matter.

PARTNERS: Northwestern Vermont 5 Husk Farm, HighFields Center for Composting and other food scrap generators.

COMPOSTING METHOD: Turned in volume. In 2013, the farm processes vegetable. Composting will require ~2000 cubic feet of compost per year.

SUMMARY: The Husk Farm hosts a composting facility. NVOCD collects business including Ben & Jerry's, Belovs Fine Academy, Northwest Medical Center, St. Albans City School, Hamden's, and Georgia Elementary. The HighFields Center for Composting supported the development of Close the Loop! St. Albans by conducting outreach and training of food scrap generators in the region, and by providing compost site

design and helping with permits for the operation. The community composting program has been in operation since 2011. Close the Loop! St. Albans is an example of a vision initiated by

Close the Loop! St. Albans is an excellent partnership involving the St. Albans High

and more than 20 businesses and schools. It is on track to double and triple in coming years.

FUNDING: Funding for the program has come from a number of sources, including individuals and private business, Northwest Kingdom Solid Waste Management District, INDIWAGS, the Vermont Agency of Natural Resources, and private foundations.

CONTACT: Jerry Davis

WEBSITE: <http://highfieldscomposting.org/new-research/>

RESOURCES: <http://highfieldscomposting.org/new-research/>; resource-library; community-composting; introduction-to-close-the-loop.



GUIDE TO COM

FARM

The Farm Between, Jeffersonville, VT

The Farm Between collects food scraps from local farms and businesses to use on their farm. The farm collects food scraps from generators in 32 gal. bins, then feeds the scraps directly to chickens in their coop. Chicken bedding, manure, and composted food are combined from the coop weekly or more often if needed, blended with additional carbon materials, and composted in bins under high-moisture conditions to maximize pathogen and weed seeds. After the "hot" composting method is complete, the material is hot to kill weed seeds to produce

operating) collect and process food scraps and other organic on their farm. Local food scrap generators include Cambridge and Johnson Elementary School, The Ma (and), Cambridge Village Market, and Brown and Jordan Coffee Roasters. On a weekly basis, the farm collects food scraps from generators in 32 gal. bins, then feeds the scraps directly to chickens in their coop. Chicken bedding, manure, and composted food are combined from the coop weekly or more often if needed, blended with additional carbon materials, and composted in bins under high-moisture conditions to maximize pathogen and weed seeds. After the "hot" composting method is complete, the material is hot to kill weed seeds to produce

START DATE: 2013

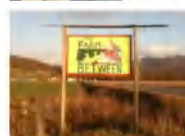
DRIVERS: The Farm Between was an ecological growing practice to produce food for organic fruits, but survey clients, and popular vision of food products like fruit syrups. Creating local food scraps require the farm with chicken feed, collecting (pre-washed) grains, and cycling nutrients through its composting systems to increase soil health and crop productivity. The farm is located in rural Vermont, which generates a low density of food scraps and had little regional community composting prior to the current system.

PARTNERS: Johnson Elementary School, The Ma (and), Cambridge Village Market, and Brown and Jordan Coffee Roasters.

COMPOSTING METHOD

Hot composting (in screen to chickens)

VOLUME: In total 45 bags (one ton) of food scraps are collected weekly. Compost additional feedback year of fooded.com scale up the cost.



FARM & COMMUNITY COLLECTS

Close the Loop! St.

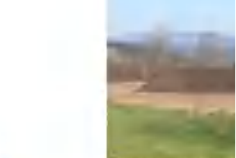
START DATE: 2011

DRIVERS: Close the Loop! NEK is a part of developing community based local compost of recycling all of Vermont's food scraps designed as a model for a rural, distributed network and partnership will improve food security and protect it while contributing to the local economy. greenhouses gas emissions.

PARTNERS: HighFields Center for Composting, Kingdom Waste Management District, Inc. at Saranoga Farm, Wise Worm Compost, Whitehall Farm, Lake Region Union High School.

COMPOSTING METHOD:

Window composting (in conjunction with feeding food scraps to chickens)



GUIDE TO COMMUNITY COMPOSTING

SCHOOLS

Lake Region Union High School, Orleans, VT

If you're looking for a local food scrap generator, you'll find it at Lake Region Union High School. The school is a pioneer in a composting program that has been in operation since 2014.

START DATE: 2014

DRIVERS: The 400 student high school has an Agriculture Department that decided to give the entire school food scraps by composting the material on campus to return to the school's garden, greenhouse, and orchard.

PARTNERS: The Agriculture Department at Lake Region is facilitating this project, led by Maxwell Verbeuren. The program involves ~50 students, although a core class of ~12 will mainly monitor the system.

COMPOSTING METHOD: in-vessel drum

VOLUME: The school produces ~3 tons of food scraps per year, which will be composted with approximately 40 cubic yards of other materials per year. An estimated 10 cubic yards of compost will be produced.

SUMMARY: The school has volunteered to pilot a prototype in-vessel composting system concept developed by HighFields that is being designed and built by a local vegetable farmer named Richard Husk and his engineer and partner sons, Val and Leni. The prototype design will be tested by the school and then shared in an open source composting forum on HighFields website (pending testing). The program will teach the students hands on and technical aspects of composting as well as give them an opportunity to lead field trips for elementary students coming to learn about composting and gardening.

While this project is still in the pilot stage and being developed, it is worth sharing some of the system's unique design concepts. The entire system uses under \$5,000 in materials and could be modified to be built from mostly salvaged materials. The 5' diameter, 6' long drum is turned by hand with a hand crank. The drum is closely enclosed in an insulated shed, which can be removed in the summer, and in the winter and colder seasons, retain the heat from the composting process. The system has the potential for a greenhouse roof, which would be heated passively through the composting process. The goal of this feature is to extend the growing season and to capture energy that would otherwise be lost to the elements.

FUNDING: This project is primarily funded through a USDA rural development grant procured by HighFields Center for Composting. To supplement the funds, Lake Region received a grant through the New England Greenworks Environmental Fund.

The project was still in early phase as of March 2014. We include it because it is a unique model with many replicable aspects and because we want to highlight projects supported by the USDA as part of the Rural Development Grant that funded the Guide to Community Composting.

CONTACT: Maxwell Verbeuren



GUIDE TO COMMUNITY COMPOSTING

FARM—RURAL

Apple Le

START DATE: 2012

DRIVERS: Since all home produce is sold at the farm, the farm has opted to replace imported products. With it production and the farm has opted to replace imported products.

PARTNERS: Next in line. They are New York area an local waste dist

COMPOSTING METHOD: Window composting (in conjunction with feeding food scraps to chickens)

VOLUME: The scale up at Apple Ledge will allow for an average of 52 tons of food scraps per year to be composted with about 150 cubic yards of feedstocks and animal bedding. Approximately 20 cubic yards of compost is expected to be produced per year.

SUMMARY: Feeding food scraps to the laying flock at Apple Ledge Farm will happen in two distinct ways. In the winter

WEBSITE: www.vimeo.com/7885025

CONTACT: Ned and Jena Lovely



GUIDE TO COMMUNITY COMPOSTING

Learn more at: ilsr.org/com

Composting for Community Map



ilsr.org/composting/map/

Peels and Wheels Composting - New Haven, CT

Pedal powered collection service.

Neighborhood-scale operation that composts wasted food from households, schools, and small businesses.

Composts materials at its Phoenix Press Farm and other farms and gardens – created in partnership with New Haven Farms.

Provides training & education, and zero waste events.



The Community Compost Depot - Providence, RI

Local nonprofit of innovators and pioneers in local composting solutions.

Their mission is to make composting options and know-how accessible to everyone, and eliminate barriers that keep people from saving food scraps for composting.

They pioneered food scrap drop-off depots and urban composting in Rhode Island.



Park City Compost Initiative - Bridgeport, CT

Started as a neighborhood composting effort to reduce incinerator pollution.

Expanding from community garden site and pilot level to new property with larger capacity

Building bins and teaching high school students how to compost.



¿TU SABES QUE

ES LA IMPORTANCIA DE LAS TEMPERATURA TERMÓFILA?

 **PARK CITY COMPOST**

Es una forma de medir si la pila de compost está funcionando correctamente o no. Esto se debe a que las actinobacterias descomponen las fuentes de nitrógeno, lo que hace que las pilas de compost alcancen el rango de temperatura de 44-71 °C.

Groundwork RI / Harvest Cycle Compost - RI

Harvest Cycle uses an electric assist cargo bike to collect food scraps from residences, restaurants, and institutions.

Composts for urban growers in the community.

Involves Groundwork's youth and adult employment programs in collection, processing, and food growing operations.



Bootstrap Compost - MA & RI

For-profit social
enterprise

Education is core
element of mission

Founding value: “give
back to community
what we take from
the community”

Through partnership
with nonprofit
Triangle, Inc., put
people with
disabilities to work in
its warehouse



Image source:
<https://www.instagram.com/bootstrapcompost/> and
<https://www.instagram.com/wrightlockefarm/>



CERO Cooperative - Dorchester, MA

A bilingual,
multicultural,
worker-owned
cooperative

Provides
commercial
organics
collection services
to businesses in
metro Boston

Contributes
to local
environmental
justice and zero
waste efforts

Image sources: Instagram
@cero.coop, <https://www.cero.coop/>



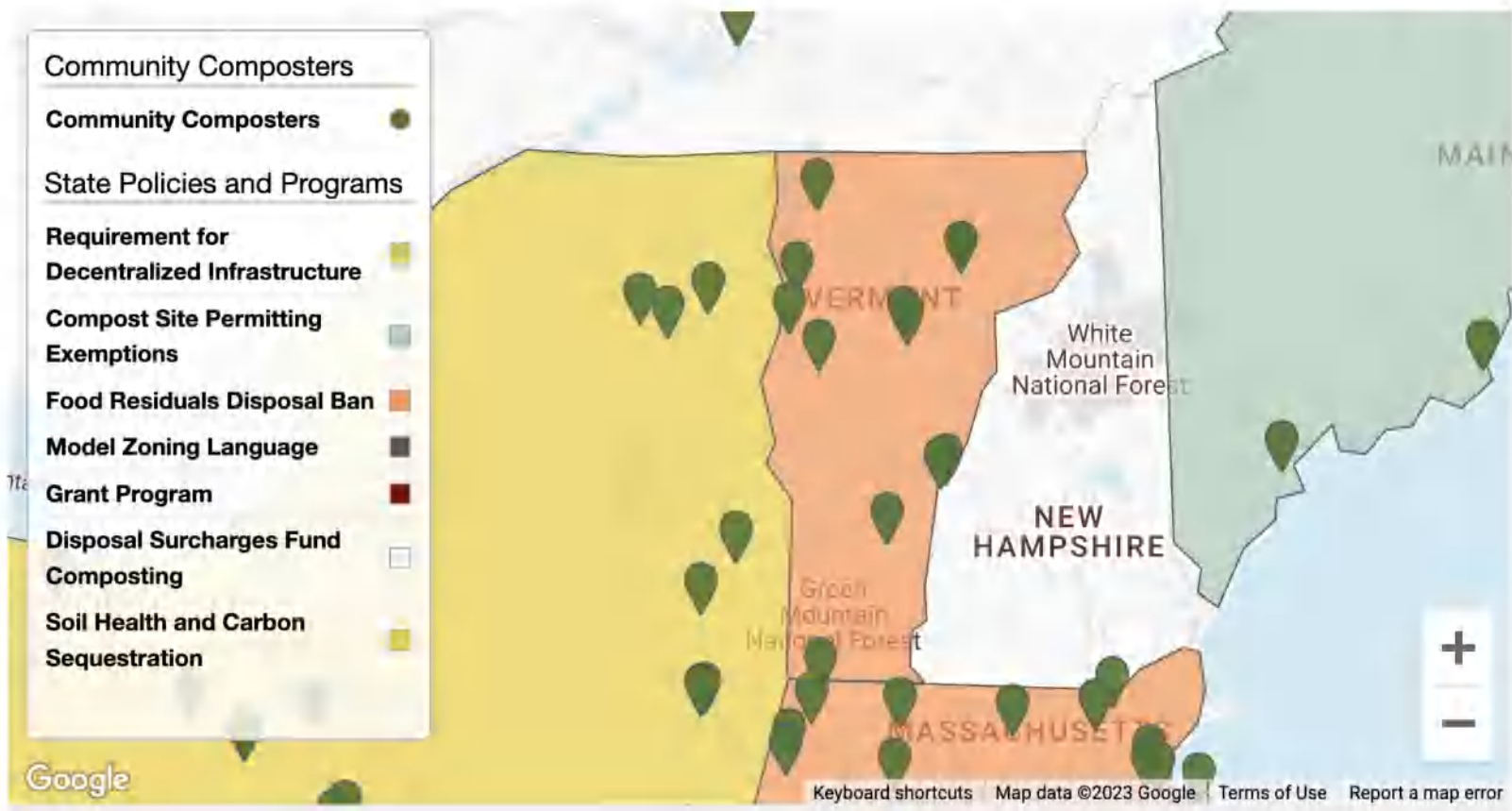
Black Dirt Farm - Northeast Kingdom, VT

Black Dirt Farm is a diversified family farm that collects food scraps from the community, forages hens, makes compost and worm castings with the excess food and manure, and uses them to nourish its soils and crops.



Image source: Lisa Liotta, Central Vermont Solid Waste Management District; Black Dirt Farm; and *This Farm Turns Garbage into Food* video (<https://www.youtube.com/watch?v=dq-TkBzZsl>)

Vermont

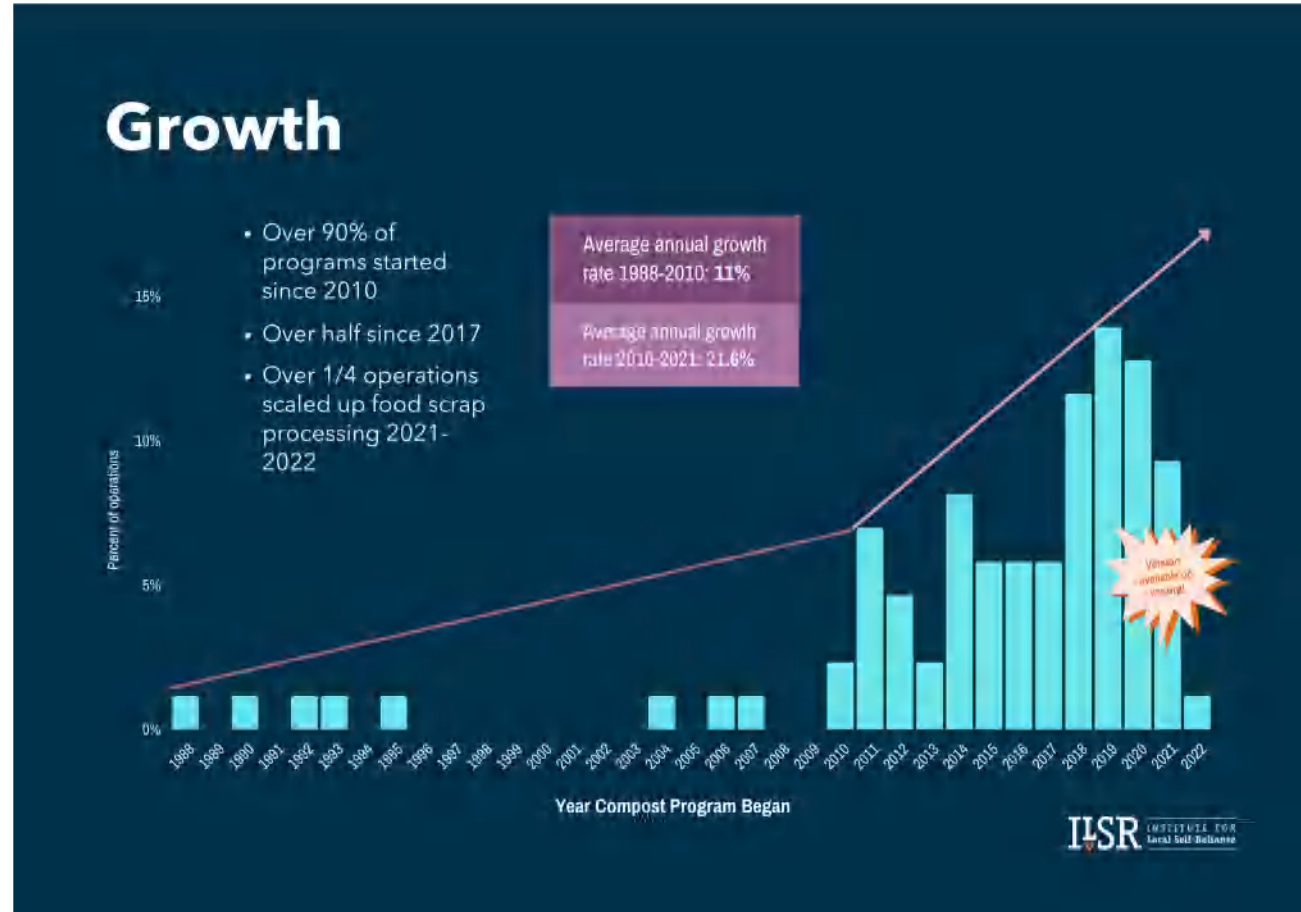


ilsr.org/composting/map/

Community-based composting is growing

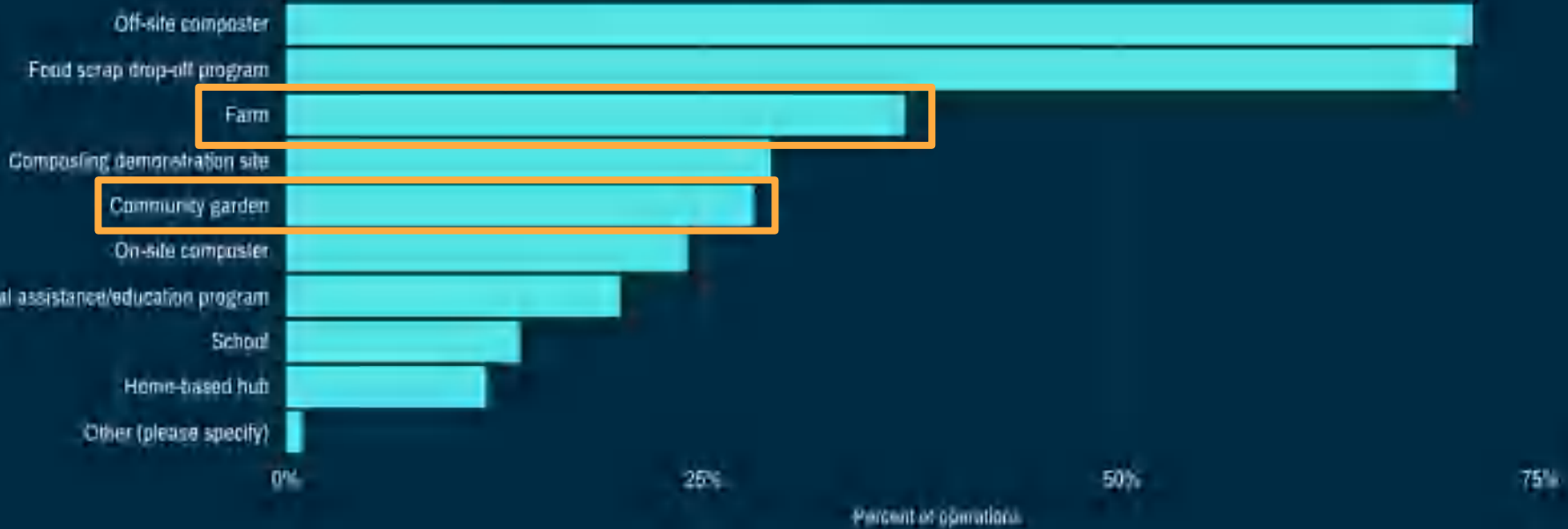


<https://ilsr.org/composting-2022-census/>



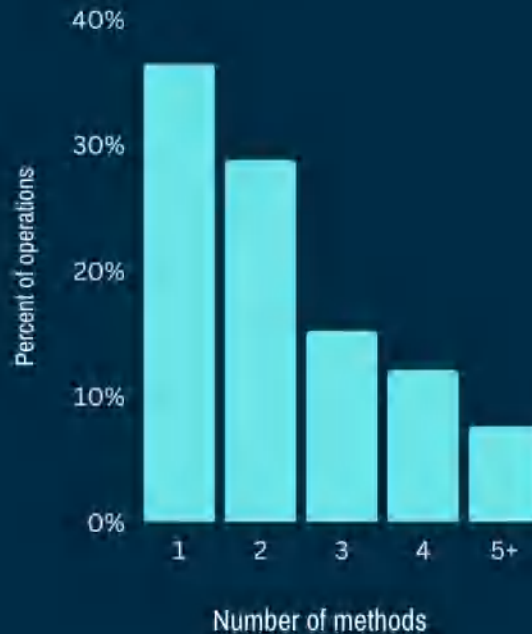
2022 Community Composter Census

Composting Program Type



- Windrow
- Bin system
- Vermicomposting
- Static pile
- Forced aeration
- Passive aeration
- Batch system
- In-vessel
- Tumbler
- Bokashi
- Continuous flow system
- & more

Number of Composting Methods Used



1. Windrows



2. Bin System



3. Vermicomposting



Composting Sources (Left) and End Uses (Right) for 2022 Community Composter Census Respondents:

Graphic available on [ilsr.org!](https://ilsr.org/)

Sources for over 65% of respondents:



69%
Residential curbside collection



78%
Residential drop-off sites



78%
Restaurants, cafes & bakeries

End use for 85% of respondents:



Gardens (home-based & community gardens)

For around 50% of respondents:



Farm soil amendments for food production



Donate/give-away



Client give-back

Over 50% of respondents:



61%
Events



54%
Offices

20% - 40% of respondents:



Supermarket chains



Universities/colleges



Small grocery stores



K-12 schools



Hotels/resorts/retreat centers



Farms/agriculture



Community gardens

30% - 45%:



Sell



On-site use

10% - 20%:



Public spaces

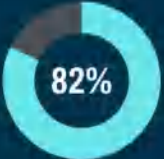


Sell online

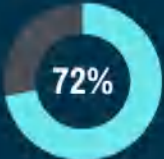


Topsoil & turf dressing

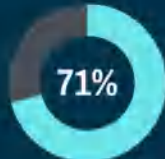
Community Impact



of composting sites located within areas served by collection



use some, most, or all of their product on-site



provide community engagement opportunities



have active employees



Many Co-Benefits of Local Composting



Public health benefits

- Increasing food security & expanding access to healthy food
- Encouraging outdoor & physical activity
- Promoting psychological well-being
- Mitigating air, water, and ground pollution
- Greening & beautifying neighborhoods
- Mitigating the heat-island effect



Community-building benefits

- Providing community gathering spaces & opportunities for connection
- Fostering social support networks & safety nets
- Increasing prosperity for local farmers
- Encouraging local stewardship
- Creating opportunities for marginalized groups (such as engaging at-risk youth or providing jobs for people with barriers to traditional employment)



Environmental benefits

- Promoting environmental awareness & education
- Co-benefits to local compost application such as increased flood control, erosion control, & more

Trend: large, centralized & consolidated



Middlebury

Middlebury / News and Announcements / News / 2021 / July 2021

Largest Anaerobic Digester in the Northeast Begins Production of Renewable Energy

BlackRock

Vanguard Renewables Announces Acquisition by BlackRock Real Assets

Partnership Will Fuel Vanguard Renewables' Organics-to-Renewable Energy Expansion Plan

BOSTON – July 20, 2022 – Vanguard Renewables, a U.S. leader in organics-to-renewable energy, today announced that a fund managed by BlackRock Real Assets has acquired the company from Vision Ridge Partners. BlackRock Real Assets will partner with Vanguard Renewables' management team to build upon the company's market-leading track record and drive its next phase of growth, including its plans to commission more than 100 anaerobic digesters to produce renewable natural gas across the country by 2026.

Since its founding by John Hanselman and Kevin Chase in 2014, Vanguard Renewables has been changing the perception of U.S. food waste and how that waste can be recycled into renewable energy to benefit the planet. The company mitigates greenhouse gas emissions from food waste and cow manure through two distinct

RECYCLING

Republic Services' new anaerobic digestion facility expands organics recycling operation in California

By Recycling Product News Staff — March 27, 2023

corporate accountability
JOIN THE GLOBAL CAMPUS

Climate Democracy

BlackRock Vies for the 2022 Corporate Hall of Shame



Trend: large, centralized & consolidated

Casella to Acquire Select Operations from GFL Environmental Inc.

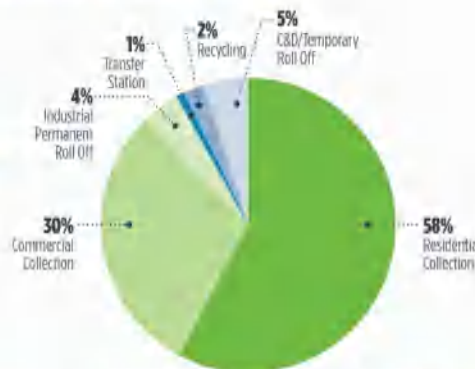
Transaction will Expand Casella's Footprint into Adjacent Markets

EXPANDING FOOTPRINT WITH ACQUISITION

- Current footprint
- New footprint



ACQUIRED REVENUE MIX



STRONG STRATEGIC & FINANCIAL BENEFITS

- **Robust financial profile with expected synergy and cash flow benefits.** Strong EBITDA margins, notable operational synergies, meaningful tax assets, and solid cash flow generation.
- **Attractive business mix across portfolio.** Will bolster Casella's collection business with flexible contract structure and reduce exposure to cyclical, event work volumes.
- **Alignment with capital allocation strategy for return driven growth.** Geographic platform will offer more opportunities to deploy capital for organic and disciplined acquisition growth.

As of Monday (4/24/2023), Casella announced expansion into the Mid-Atlantic as part of a \$525 million acquisition from GFL

Casella Sustainability Report 2022:

https://sustainability.casella.com/sites/default/files/2022-10/Casella-REPORT-Sustainability2022.pdf?utm_source=PDF



Trend: large, centralized & consolidated


Vermont Public
All The Traditions
NEXT UP: 10:00

Local News

Casella's dominance in the Northeast leads to monopoly concerns in Vermont

Vermont Public | By Henry Epp
Published April 26, 2022 at 5:00 AM EDT

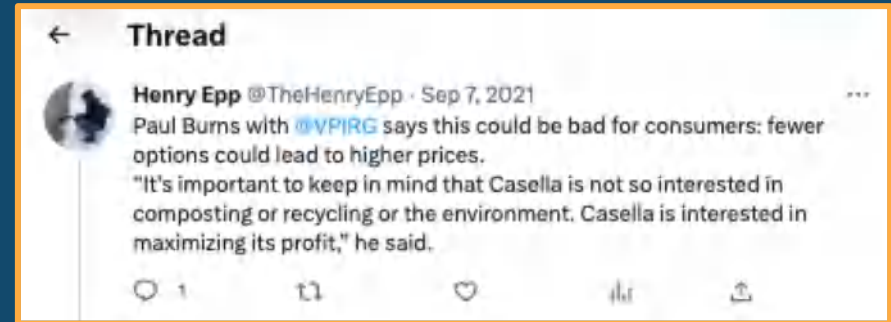
LISTEN • 13:32



Thread

Henry Epp @TheHenryEpp · Sep 7, 2021

Paul Burns with @VPIRG says this could be bad for consumers: fewer options could lead to higher prices. "It's important to keep in mind that Casella is not so interested in composting or recycling or the environment. Casella is interested in maximizing its profit," he said.



Vermont Public
All The Traditions
NEXT UP: 10:00

Casella Buys Grow Compost Of Moretown, Expanding Its Control Over Vermont's Waste Stream

Vermont Public | By Henry Epp
Published September 7, 2021 at 3:45 PM EDT



Trend: depackagers & large sites compete with local operators

ILSR INSTITUTE FOR
Local Self-Reliance
Building local power to fight corporate control.



Stop Privileging Large Industrial Sites Over Local Composters – Episode 125 of Building Local

<https://ilsr.org/nourishing-local-soils-episode125/>



ILSR INSTITUTE FOR
Local Self-Reliance

Trend: more depackagers

WASTE DIVE

Deep Dive Library Events

M&A ESG Workforce Collection Recycling Organics Landfill Energy

DEEP DIVE

As organics depackager equipment market grows, so do concerns over microplastics contamination

Companies like Vanguard Renewables are investing millions to facilitate commercial organics recycling as researchers and regulators work to keep PFAS and microplastics out of the equation.

Published July 10, 2023

By Elizabeth



Elizabeth Griekopf/Waste Dive

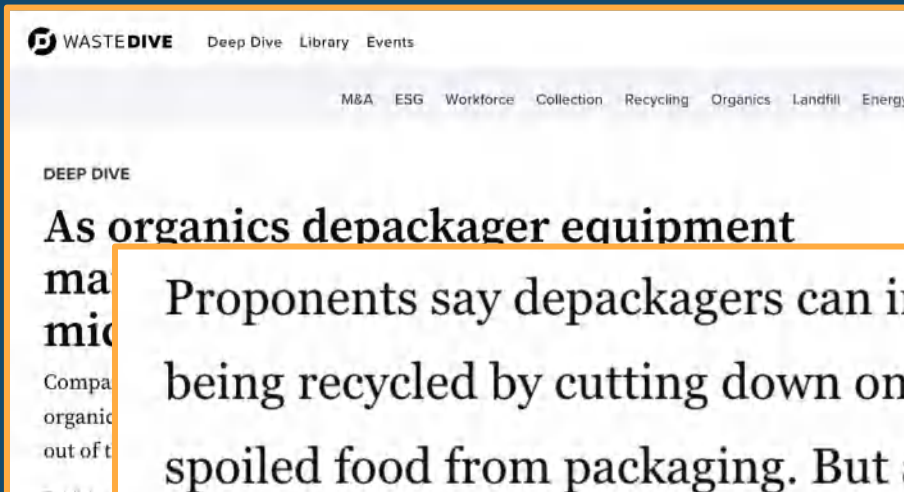
<https://www.wastedive.com/news/vanguard-microplastics-digestion-compost-depackager-pfas/626797/>

When asked about microplastics contamination concerns during the tour, Hanselman said that America has an addiction to cheap food wrapped in plastics — and that it would be challenging to eliminate microplastics from the organic waste stream until the amount of plastic packaging is reduced. Vanguard has talked with grocery store clients about using more cardboard packaging when possible.



ILSR INSTITUTE FOR
Local Self-Reliance

Trend: more depackagers

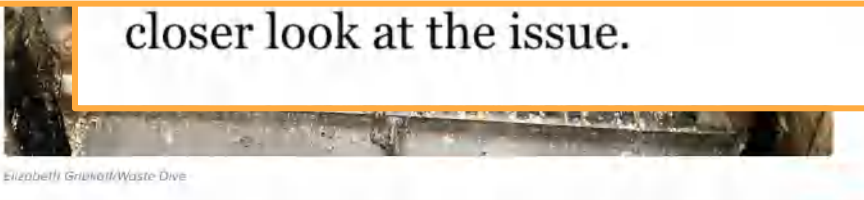


<https://www.wastedive.com/news/vanguard-microplastics-digestion-compost-depackager-pfas/626797/>

Proponents say depackagers can increase the overall amount of organics being recycled by cutting down on the labor needed to hand-separate spoiled food from packaging. But as the sector expands, so do concerns

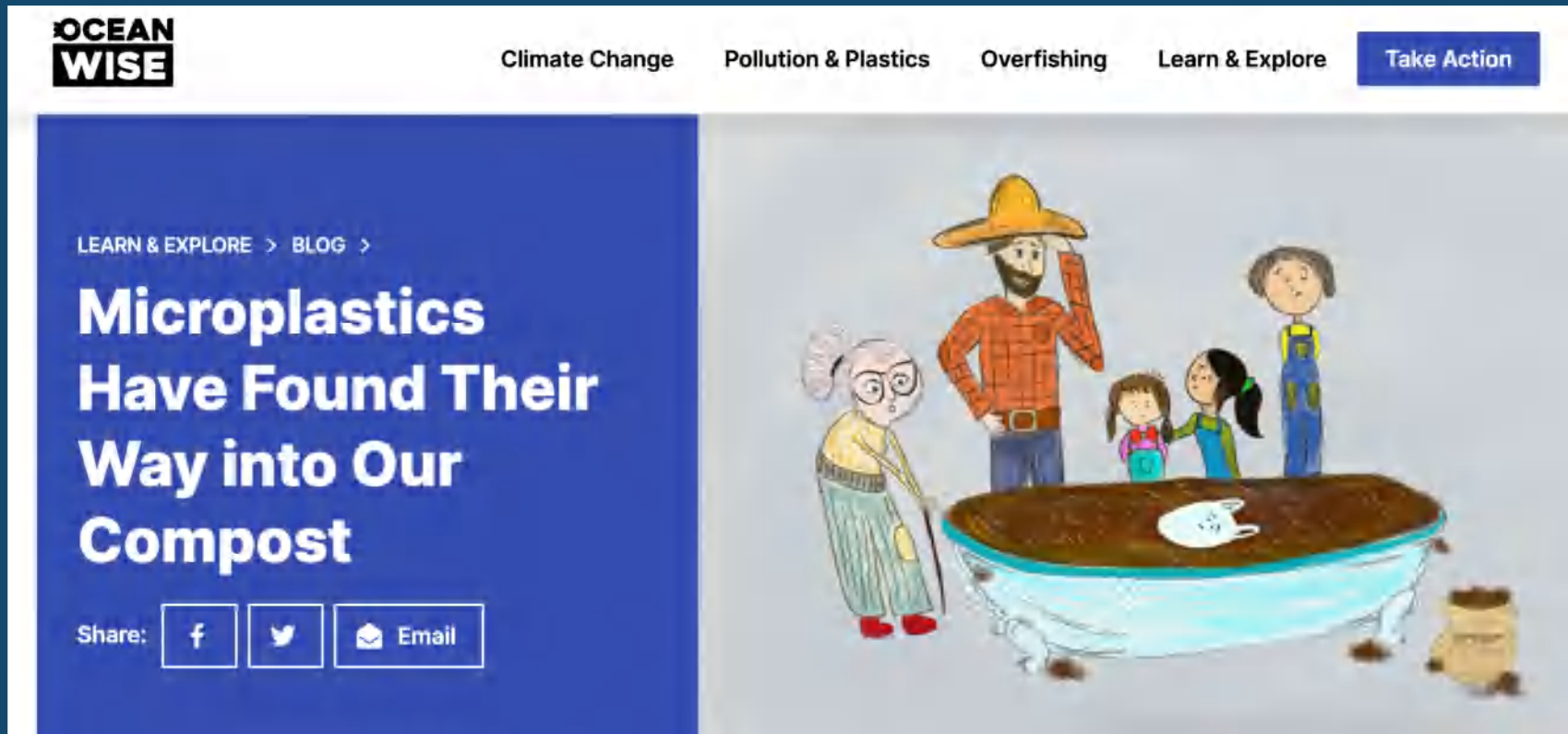
“It’s better to keep our (organic) materials clean and segregated to have higher value end products,” said Brenda Platt, director of composting for the Institute for Local Self Reliance. “You know — garbage in, garbage out.”

closer look at the issue.



Elizabeth Griekopf/Waste Dive

Concerns about microplastics & PFAs



The image shows a screenshot of a web page from Ocean Wise. At the top left is the Ocean Wise logo. To its right are navigation links for 'Climate Change', 'Pollution & Plastics', 'Overfishing', and 'Learn & Explore'. A blue 'Take Action' button is on the far right. The main content area has a blue background on the left with the text 'LEARN & EXPLORE > BLOG >' and the title 'Microplastics Have Found Their Way into Our Compost'. Below the title are social sharing buttons for Facebook, Twitter, and Email. To the right of the text is an illustration of a family (a man in a cowboy hat, a woman, and two children) standing around a bathtub filled with brown compost. A white plastic grocery bag is floating in the compost. A small dog is sitting on the floor next to the bathtub.

A bathtub full of compost would contain 1 plastic grocery bag equivalent of microplastics

Metro Vancouver Solid Waste Division (BC) research on microplastics in compost:
<https://www.ocean.org/blog/microplastics-have-found-their-way-into-our-compost/> (Nov. 2022)

Concerns about microplastics & PFAs



maine public

Maine Public Radio
LA Theater Works

NEXT UP: 11:0

More than 50 Maine farms impacted by PFAS, but state officials see 'glimmer of hope'

Maine Public | By Kevin Miller
Published February 1, 2023 at 5:52 PM EST

f in ✉



VT ANR Draft Policy for Source Separation of Food Residuals & Heavily Packaged Food Residuals

After considering applicable statute, the intent of the Universal Recycling Law (Act 148 of 2012), the [recommendations made by the Act 170 Stakeholder Group](#) and evaluating the environmental impacts of food residuals management strategies being employed across the state including the value of source separation, **it is the Agency's policy that source separated food residuals shall not be mixed with heavily packaged food residuals at the point of generation.**

Say NO to single-use



Vermont Says NO To Single-Use Plastics

[News and Updates](#), [Victories](#), [Zero Waste](#) / By [Emma Huvos](#) / June 17, 2019



<https://www.vpirg.org/news/vermont-says-no-to-single-use-plastics/>



Single-use foodservice ware has got to go!

Business, Economics and Jobs

This Indian meal service is so efficient it's the envy of FedEx

GlobalPost

July 15, 2014 · 4:35 AM UTC

Sumi Somaskanda and Mandakini Gahlot



It's an everyday miracle: Dabbawalas deliver home-cooked lunches to workers all over the sprawling, crowded city of Mumbai. And they (almost) never get it wrong.

Credit: Indranil Mukherjee

<https://theworld.org/stories/2014-07-15/indian-meal-service-so-efficient-it-s-envy-fedex>

Community Crockery Bank



CrockeryBankGurugram @BankCrockery · 26 Dec 2018

A new branch in NOIDA. A step closer to sustainable living. Thankful to everyone who have supported and used the utencils from Crockery Bank for Everyone. 150000 disposable saved and number is rising everyday. A simple, replicable and doable idea.



Community Crockery Bank



CrockeryBankForEveryone @BankCrockery · Jun 22

#Anniversarypost

5 years completed. It been a wonderful journey, positive stories, wonderful people, passionate eco saviours consious citizens, committed crusaders, positive media and so on. Now we have around 32 teams across the country and have been able to save 5,85000 SUP

यूज होने वाले प्लास्टिक के बर्तनों से शहर को गंदा करने के लिए खोला स्टील के बर्तनों

एक दूध से जुड़ी सर्वोच्च शक्ति के योग ने बताया कि कृषि और पौधे एक कंपनी के कारोबार कि वे यह कि 3 मिलियन डॉ. विकास करने है। यानी पहले अपने के लिए किचन 'वाटर' फिर ये अपने मिलकर 10 को पैक किए। 1 प्री ब्रैकेटों के निकाल। ब्राकेटों से स्टील के बर्तन



जन्मदा है फैसलूक पेज। समीप बसती हैं की इस जलदोष में अपनी एक फिट डॉ. करनी भी होय कर रही है। मिलकर यन्तों एक फैसलूक पेज (डॉक्यूमेंट पैक पर एक्टिव) शुरू किया है, जिले जवाब से जवाब लेने को जेड्डा जव रहा है। इसके अलावा, प्लास्टिक वेस्ट से होने वाले नुकसान और उसके विकल्प के बारे में भी जानकारी दी जा रही है। इंटरनेट युग की सहायता भी ली जा रही है।



कैसे काम कर स सामूहिक काम। कार्यक्रम की डेट एरिया के पारदर्शक काम के लिए जी



3

3

6



@bankcrockery



CrockeryBankForEveryone @BankCrockery · Jun 15

When you get videos like this, its overwhelming and rewarding at the same time. felt delighted to see them connecting to the roots, enjoying simple moments and having fun of playing with water. Bonus point here is learning a life skill.



0:11 83 views

2

3

6



VERMONT'S INDEPENDENT VOICE

SEVEN DAYS

It's time to pick
Nominations now

NEWS ARTS+LIFE HOME+DESIGN FOOD CANNABIS MUSIC ON SCREEN EVENTS

SPECIAL REPORTS ▶ Housing Crisis Health Care GUIDES ▶ Kids VT Staytripper Best of Vermont

NEWS + OPINION ▶ TRUE 802

Tiny Hardwick Breaks a Dishwashing World Record

By SASHA GOLDSTEIN

Published May 31, 2017 at 10:00 a.m. | Updated May 31, 2017 at 11:59 a.m.



<https://www.burlingtonfreepress.com/story/news/local/vermont/2017/05/27/vermont-breaks-world-record-dish-washing/348392001/>

<https://www.sevendaysvt.com/vermont/802-much-dirty-dishing/Content?oid=5960214>

VERMONT

Vermonters shatter record for simultaneous dish washing



April McCullum

Burlington Free Press

Published 7:02 p.m. ET May 27, 2017



"Our new slogan is 'a community that washes dishes together stands together,'" said Tom Gilbert, who came up with the idea as a board member for the Center for an Agricultural Economy. "We're building pride around washing dishes."



Hardwick residents gather in a local park to attempt to break the world record for simultaneous dish washing on Saturday, May 27, 2017. APRIL MCCULLUM/FREE PRESS





Make It Make Sense



Make It Make Sense



Learn from single-stream recycling & from trends in other states

- **Source separate!**
- **Don't privilege dominant corporations or large industrial sites**
- **Be wary of depackagers**
- **Avoid contamination**



Stop Privileging Large Industrial Sites Over Local Composters – Episode 125 of Building Local Power

What role should compostable ware play?

Resource Library: why compostables and bioplastics aren't the answer



<https://upstreamolutions.org/why-compostables-and-bioplastics-arent-the-answer>

Reuse Is Taking Off!

Upstream

Infrastructure & The New Reuse Economy

How using existing infrastructure will help us reach a throw-away free future.



DID YOU KNOW?

- 10% of wood harvested goes primarily to make **single-use** packaging for consumable products
- 20% of aluminum mined
- 40% of plastic created
- 50% of glass produced


The time has come for a New Reuse Economy

Upstream

FIX-IT AUSTIN

HOST A FIX-IT CLINIC

A COMPREHENSIVE GUIDE



Upstream **AUSTIN RESOURCE RECOVERY**

Reuse saves businesses money and reduces waste - 100% of the time

- \$3000 - \$22,000 cost savings
- 1,300-2,200 lbs. of waste eliminated
- 110,000 to 225,000 packaging items eliminated

Upstream

*Average annual savings for a small business
source: "Reuse Wins," Upstream, June 2021

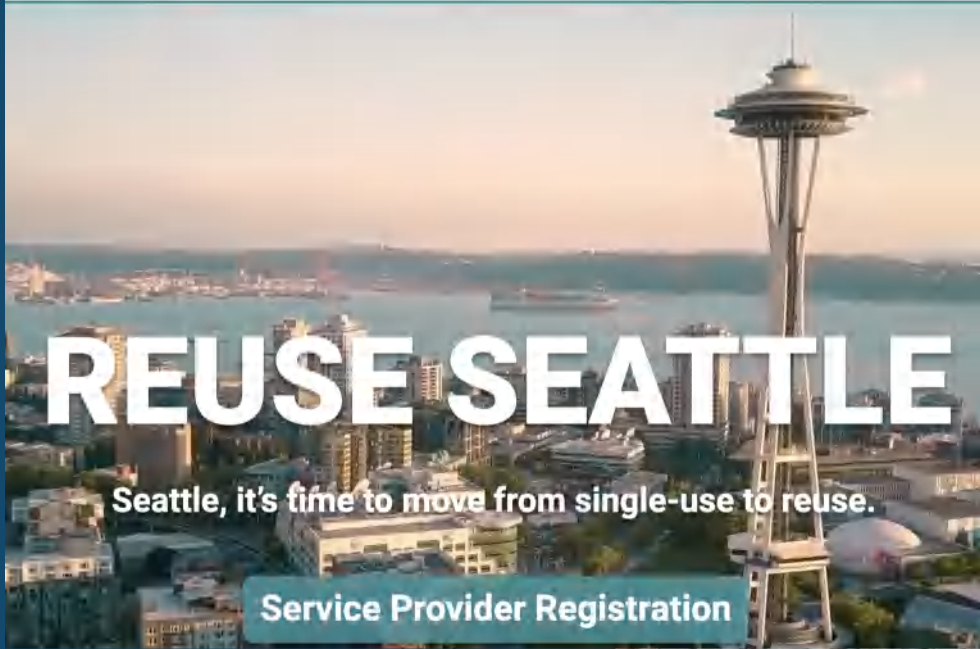
THE INDISPOSABLE PODCAST

“We would not expect the **tobacco industry to come up with a plan to reduce smoking**. Why do we expect the **packaging industry to come up with a plan to deal with packaging?**”



Judith Enck
President, Beyond Plastics

Upstream

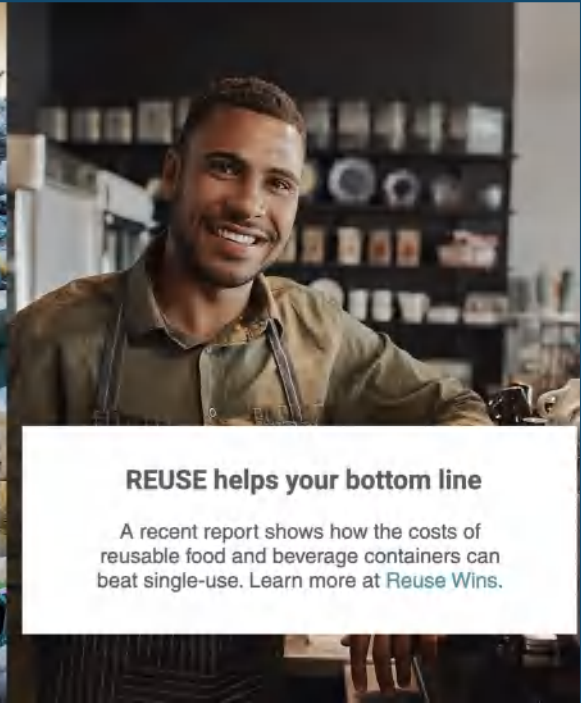


www.reuseseatlle.org



REUSE helps the environment

We love recycling in Seattle. But it's not enough to solve the plastic pollution and climate crisis. [Learn more.](#)



REUSE helps your bottom line

A recent report shows how the costs of reusable food and beverage containers can beat single-use. [Learn more at Reuse Wins.](#)

★ ★ ★
**DITCH THE
 DISPOSABLES**

Funding to Reduce Foodware Waste

Up to **\$25,000** per applicant for dishwashers, reusable dishes, and other eligible expenses

This grant program provides funds to local food-serving businesses and organizations for selected projects that result in a long-term transition from disposable to reusable foodware.

This can be for dine-in and/or takeout operations at restaurants, food halls, cafeterias, nonprofits, and more.



Scan for more information and to access the application, or visit: doee.dc.gov/disposables

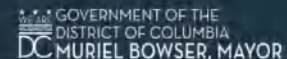
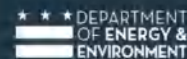


Applications due

Thursday, December 8, 2022 at 6 PM

Projects must be completed by August 26, 2023

Questions? Contact: Kacey Wetzel
 (410) 974-2941 ext. 104 | kwetzel@cbtrust.org



<https://doee.dc.gov/disposables>





HOW TO RETURN LOOP CONTAINERS


- 1 Pull lever for QR code sticker, and attach sticker to each container
- 2 In the Loop App, scan the QR code
- 3 Drop containers in the bins below or to the right

What can you do?



- ▶ Dismantle monopoly power
- ▶ Foster diversified infrastructure (with policies, investment, procurement, partnerships, technical assistance, tools)
- ▶ Focus on protecting soils (eliminate contaminants)
- ▶ Reserve depackagers solely for packaged goods
- ▶ Contract with micro haulers and processors (urban & rural farmers too)
- ▶ Incentivize farmers to maintain high levels of soil carbon
- ▶ Support phase out of single-use plastics
- ▶ Embrace a holistic framework: Local • food systems • community -> creating strong local communities

Organics recycling





Healthy soils

A person in a white shirt and dark pants is walking on a blue background. The person is positioned on the right side of the frame, moving towards the left. The background is a solid blue color. The text 'Local economic development' is written in white on the left side of the image.

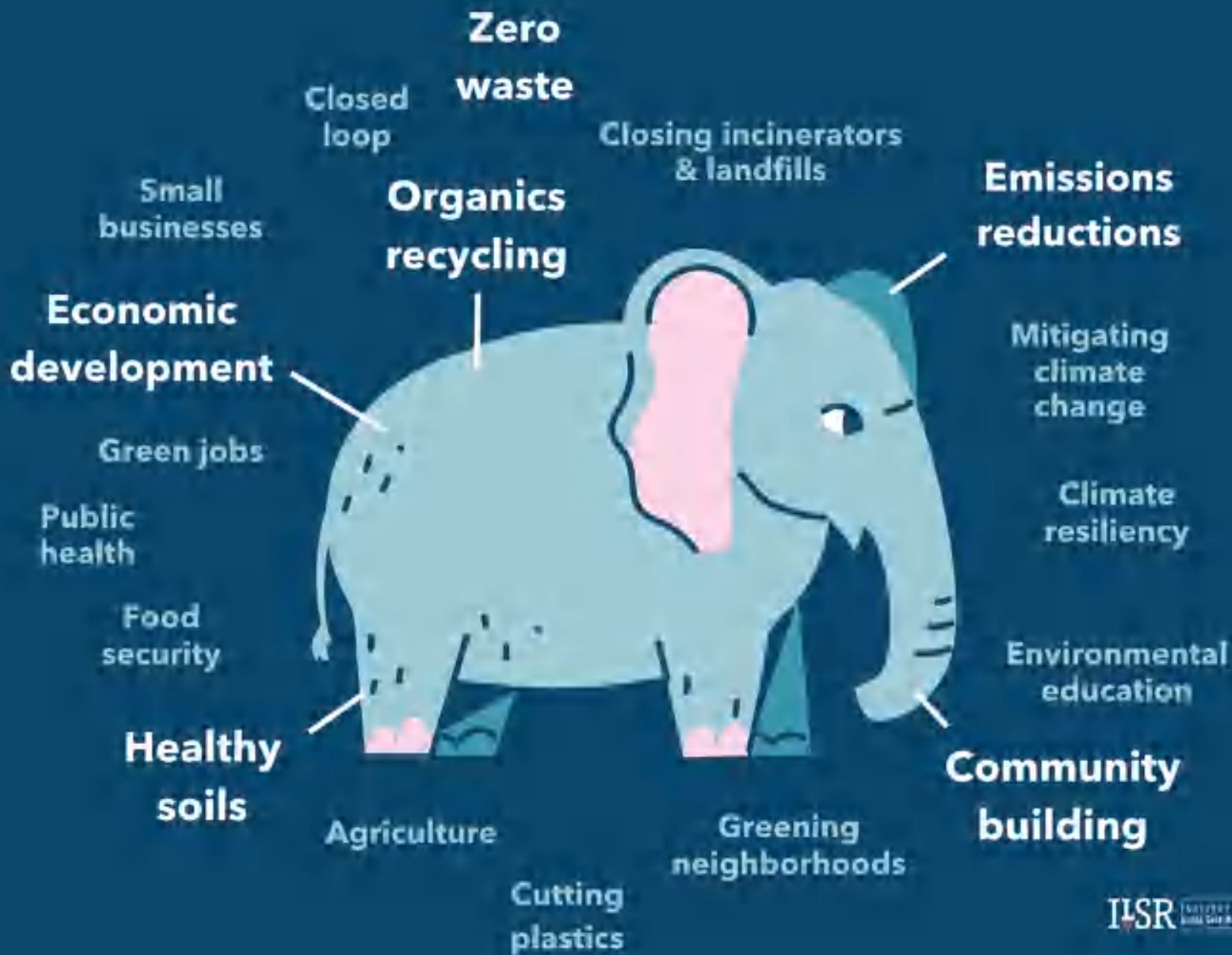
Local economic development

Public health



A close-up, high-angle shot of a person's face, focusing on the mouth and chin. The person is smiling, with their teeth visible. The skin is light-toned. The background is a solid, dark blue color.

Community building



The infographic features a central silhouette of a pig, which is a common symbol for composting. The pig is filled with a dark blue color. The text 'Composting for people & the planet' is written in white, bold font across the middle of the pig's body. Surrounding the pig are various terms and phrases in white text, connected to the pig by thin white lines. The background is a solid dark blue.

Composting for people & the planet

Zero
waste

Climate
action

Energy, Climate
& Security

Emissions
reduction

Organics
recycling

Food
& Agriculture

Economic
development

Waste
management

Climate
action

Composting
for people &
the planet

Climate
action

Public
services

Food
& Agriculture

Economic
development

Healthy
soils

Agriculture

Community
engagement

Community
building

Climate
action



Zero
waste

Energy
efficiency

Greenhouse
gas
reduction

Water
conservation

Organics
recycling

Economic
development

Local
business
development

Energy
costs

Keep It Local!

Climate
change
resilience

Water
quality

Local
business
development

Healthy
soils

Local
business
development

Local
business
development

Community
building





cultivating
community
composting



ILSR INSTITUTE FOR
Local Self-Reliance

Thank you!

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