EPA Sustainable Materials Management Web Academy

Preventing Food Waste Upstream: A Source Reduction Approach – Part II

September 20th, 2018

https://www.epa.gov/smm/sustainable-materials-management-web-academy

Our Speakers





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Price Chopper/Market 32





Janet Whited
Cherokee Point Elementary School





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Disclaimer

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Preventing Food Waste Upstream: A Source Reduction Approach – Part II

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Sustainable Materials Management Web Academy



U.S. Environmental Protection Agency



EPA mission:

To protect human health and the environment.









1970-2017: Cut air pollutants by 73%



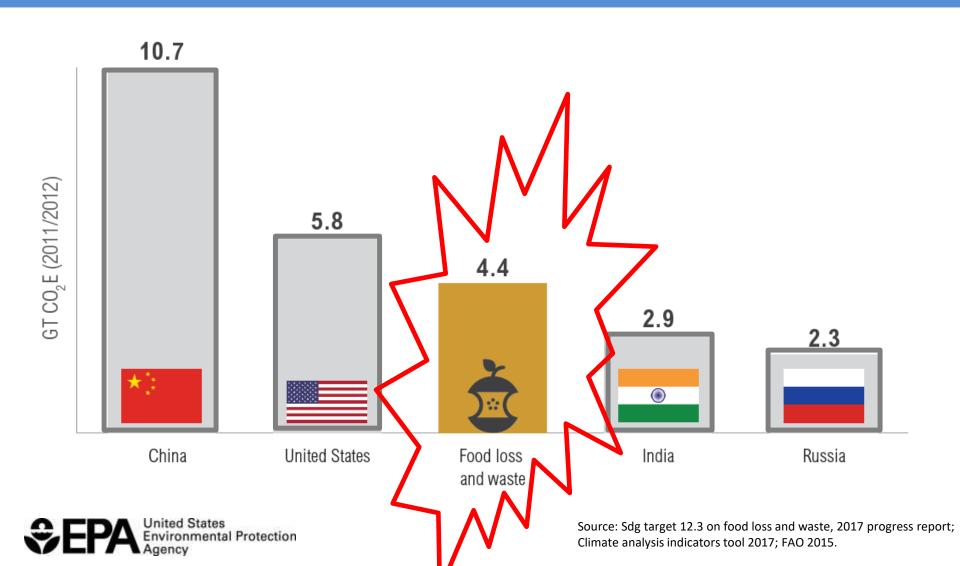
93% compliance with drinking water standards.



>9 million tons of virgin materials avoided.



If food excess were a country: 3rd largest source of GHGs



Reducing wasted food ranks 3rd out of 100 for GHG reductions.

| ▲ Rank | ♦ Solution | Sector | TOTAL ATMOSPHERIC \$ CO2-EQ REDUCTION (GT) | ♦ NET COST (BILLIONS US \$) | \$ SAVINGS (BILLIONS US \$) |
|-----------|-------------------------|------------------------|--|-----------------------------------|-----------------------------|
| 1 | Refrigerant Management | Materials | 89.74 | N/A | \$-902.77 |
| 2 | Wind Turbines (Onshore) | Electricity Generation | 84.60 | \$1,225.37 | \$7,425.00 |
| 3 | Reduced Food Waste | Food | 70.53 | N/A | N/A |
| 4 | Plant-Rich Diet | Food | 66.11 | N/A | N/A |
| 5 | Tropical Forests | Land Use | 61.23 | N/A | N/A |
| 6 | Educating Girls | Women and Girls | 59.60 | N/A | N/A |
| 7 | Family Planning | Women and Girls | 59.60 | N/A | N/A |
| 8 | Solar Farms | Electricity Generation | 36.90 | \$-80.60 | \$5,023.84 |
| 9 | Silvopasture | Food | 31.19 | \$41.59 | \$699.37 |
| 10 | Rooftop Solar | Electricity Generation | 24.60 | \$453.14 | \$3,457.63 |





epa.gov/sustainable-management-food/united-states-2030-food-loss-and-waste-reduction-goal





Food Recovery Hierarchy

Most Preferred

Source Reduction

Reduce the volume of surplus food generated

Feed Hungry People

Donate extra food to food banks, soup kitchens and shelters

Feed Animals

Divert food scraps to animal feed

Industrial Uses

Provide waste oils for rendering and fuel conversion and food scraps for digestion to recover energy

Composting

Create a nutrient-rich soil amendment

Landfill/ Incineration Last resort to disposal

Jerarquía de Recuperación de los Alimentos

Reducir la fuente

Reducir el volumen excedente de comida senerad.

Combatir el hambre en la población

Donar la comida sobrente a bancos de alimentos comedores comunitarios o reflectos

Alimentar a los animales Alizar las sobras de comida para

Usos Industripies stinor les sobres de comités

Compostee

en nublentes

Inclineración Disposición e basumero

ŞEPA 食物回收等級

減少來源 減少食物的剩餘量

給飢餓的人們 將多餘的食物揭給食物庫貧民蔚房和庇護中心

> 給動物 將食物餘渣轉為動物食料

工業用途 提供廢油瓶和食物鏈器 用来回收和製造能源

堆肥 前选替美要高的混出

填埋/焚燒 量後一招発 填埋

Source Reduction: Reduce the volume of surplus food generated

SAVING FOOD SAVES MONEY





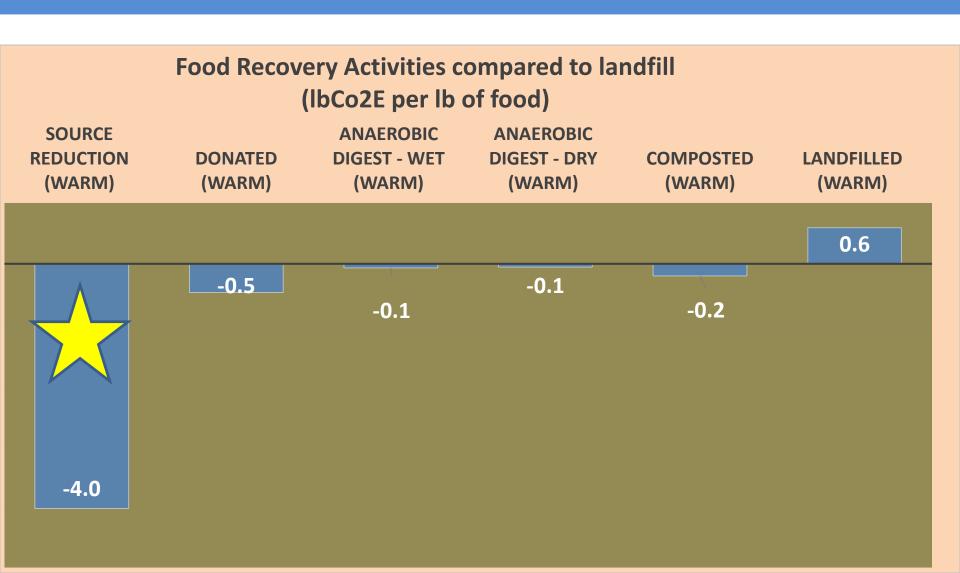
The Business Case for Reducing Food Loss & Waste: \$1 invested \$14 saved!



https://champs123blog.files.wordpress.com/2017/03/report_-business-case-for-reducing-food-loss-and-waste.pdf



Source Reduction produces biggest GHG benefits on the Food Recovery Hierarchy

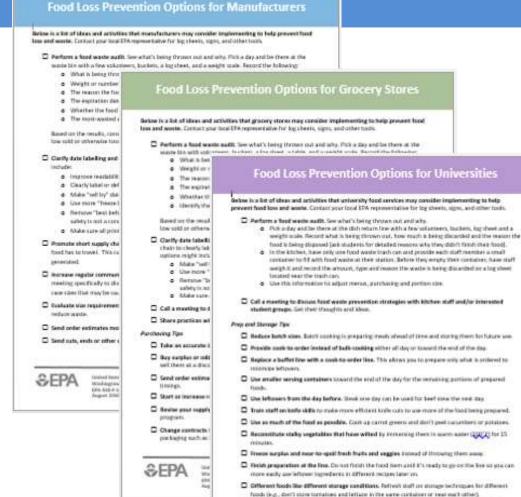


Food Loss Prevention Tip Sheets

epa.gov/sustainable-management-food/food-loss-prevention-options-grade-schools-manufacturers-restaurants









Trained States for incremental Protection Agency (SWIPF) Minimization, DC 100402 2014 SIGN CHARGES

One see through storage containers to allow staff to see what is sociable and its leads as eve on

for most information, technology who place based lifts, representations in a visit of

Food Recovery Challenge

Participants:

- Track and measure their surplus food.
- Move toward their food recovery goals.

Endorsers:

- Educate on the sustainable management of food.
- Conduct Food Recovery Challenge outreach.





Track your source reduction in the Food Recovery Challenge

Food Waste Prevention and Recycling - Detailed Activities



| SPECIFIC ACTION | TOTAL AMOUNT | ESTIMATE % FOOD | UNIT (TONS/LBS) | TOTAL TONS | TOTAL FOOD TONS |
|---|--------------|-----------------|-----------------|------------|-----------------|
| Source Reduction through purchase, storage and handling | | 100% | Tons | | |
| Source Reduction through over-preparation and plate waste | | 100% | Tons | | |
| Other Source Reduction Activities | | 100% | Tons | | |
| Donation to Feed people | | 100% | Tons | | |
| Animal Feed | | 100% | Tons | | |
| Other Donations/Reuse | | 100% | Tons | | |
| Composting - mixed organics (Please estimate % food) | | 100% | Tons | | |
| Composting - Food Only | | 100% | Tons | | |
| Anaerobic Digestion w/beneficial use of digest (Please estimate % food) | | 100% | Tons | | |



2016 Source Reduction Achievements epa.gov/foodrecoverychallenge

950 participants and endorsers

-Prevented 18,000 tons of wasted food.

—Saved \$37.4 million in avoided tipping

fees.





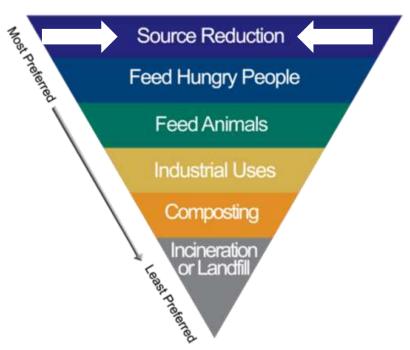
CUT FOOD WASTE GOAL! CUT FOOD WASTE GOAL! IN HALF BY 2030

- Measure your wasted food and set goals.
- Implement source reduction.
- Participate in the Food Recovery Challenge.



Food Recovery Hierarchy





EPA.GOV/SUSTAINABLE-MANAGEMENT-FOOD/HOW-PREVENT-WASTED-FOOD-THROUGH-SOURCE-REDUCTION

epa.gov/sustainable-management-food/forms/contact-us-about-sustainable-management-food

Sustainable Materials Management

Food Recovery Challenge



Changing how we think about our resources today for our children's tomorrow