Quarterly calls: What do we hope to get out of them?

- Spotlight Leadership – Share Best Practices
- Present Valuable Resources
- Provide a Forum to Share Challenges and Opportunities
Agenda

• Introduction & Program Updates
• **Speaker:** Samantha Kenny - Program Officer, World Wildlife Fund US
• **Speaker:** Lori Driver – Corporate Sustainability Manager, Flowers Foods
• Q&A
• Waste Reduction Pilot Program Updates and Resources
The DOE Team

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Eli Levine, eli.levine@ee.doe.gov, 202-586-9929

Reach out to your Better Buildings AM/TAM
Program Updates

• Thank you for sharing waste data!

• New Solution-at-a-Glance from Shorenstein, “Shorenstein Properties: Improved Waste Diversion with Training and Audits”

• Better Buildings Summit is a Virtual Leadership Symposium, June 8-11
  • Join us for “Early Best Practices from the Waste Reduction Pilot” featuring presentations from Volvo and Shorenstein Realty. Thursday, June 11th, 3 – 4:30 pm EST

• Look for our next quarterly call in August 2020.
Samantha Kenny
Program Officer, World Wildlife Fund US
World Wildlife Fund Fights Food Waste

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The Mission

World Wildlife Fund protects the future of nature

We are a global, science-based organization

We work with companies and communities

We strive to meet the needs of people and nature

© Michel Roggo / WWF-Canon
Global Practices

1. Sustainable Production
2. Eliminate Waste
3. Sustainable Consumption

© Michel Roggo / WWF-Canon
Food production is the biggest threat to the planet.
70% of biodiversity loss is due to agriculture

Source: Convention on Biological Diversity, CBD Technical Series No. 79, 2014

Photo: earthnewsmedia.com
70% of biodiversity loss

70% of freshwater use

24% of GHG emissions

90% of marine stocks fully exploited

Most chemical use

50% of topsoil loss

© Michel Roggo / WWF-Canon
1 out of 3 calories wasted
A ROADMAP TO REDUCE U.S. FOOD WASTE BY 20 PERCENT

63 MILLION TONS OF FOOD WASTED

10M
16%

1M
2%

25M
40%

27M
43%
WWF US Food Loss & Waste Strategy

1. HOSPITALITY TOURISM
2. RESTAURANTS FOOD SERVICE
3. RETAIL GROCERY
4. FARMS
5. SCHOOLS UNIVERSITIES
Food Recovery Hierarchy

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 food

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

Most Preferred

Least Preferred
Program Strategy

Prevent: reduction comes first
Donate: what is not preventable
Divert: everything that remains
Fighting Food Waste in Hotels

MANAGING FOOD WASTE IN RESTAURANTS
How small steps can have a big impact on reducing waste and protecting the planet

A combined effort with

WWF
TORK
NATIONAL RESTAURANT ASSOCIATION
Business Benefits

- Profit
- Personnel
- Public Relations
- Planet
For every $1 invested, $7 were saved

Champions 12.3 Business Cases
Thank You

HotelKitchen.org
86FoodWaste.com

Samantha Kenny
Program Officer, Food Waste
World Wildlife Fund – US
Samantha.Kenny@wwfus.org
Lori Driver
Corporate Sustainability Manager, Flowers Foods
Reclaiming Food Waste

May 7, 2020
Baking Industry – Types of Food Waste

• Food-grade oil (pan oil or fryers)
• Bulk ingredients
• Wet food (dough, uncooked, unprocessed food)
• Dry food (finished product that is damaged, quality issues)
• Stale (products that were not sold at stores and returned)
Types of Food Waste

- Bakery Waste: 90%
- Stale: 9%
- Oil: 1%

91% of Waste Diverted
Ways to Reuse/Recycle Food Waste

- Food Banks
- Discount Stores
- Animal Feed
- Biodiesel
Manufacturing Facilities

• Facilities have bulk collection stations for food scraps.
  • Important: Maximize loads up to at least 20 tons per load before going to the recycler.

• If bulk systems can’t handle additional volume, facilities can use drop trailers.
• Some warehouses with high volume or service smaller warehouses have bulk collection systems to minimize hauls back to manufacturing facilities
  • Examples: drop trailers, dry vans, or compactor type systems
• Some warehouses haul stale back to manufacturing facilities for recycling.
Food Banks & Discount Stores

• Flowers Bakeries participate in local food banks and donate within their communities.

• A good portion of product that does not sell on the market goes to Flowers’ owned discount stores for local communities before moving to animal feed conversion.
Waste Oil

• Some cake plants reclaim oil to be reused as bio-diesel.

• Other sites with lower volumes will blend with other production waste or collect for recycler in alternate containers:
  • Intermediate bulk containers holding up to 330 gallons per container
  • 55 gallon drums

• Recycling oil within the facility has been successful at one facility by running their oil through a filtration system.
2025 Goal: Zero Waste to Landfill

- Created an internal waste service team to provide additional support.
- Site Visits – Identify opportunities for improvement.
- Dumpster Surveys
- Partner with other departments (logistics, marketing, distributor enablement, retail, manufacturing).
Q&A

Feel free to unmute yourself or utilize the chat box.

Samantha Kenny
Samantha.Kenny@wwfus.org

Lori Driver
Lori.Driver@flocorp.com
Resources from Beaverton, OR

- **Elizabeth Cole**, Recycling & Waste Reduction Program Coordinator, City of Beaverton

  - [https://www.oregon.gov/deq/mm/wpcampaigns/Pages/Wasted-Food-Wasted-Money.aspx](https://www.oregon.gov/deq/mm/wpcampaigns/Pages/Wasted-Food-Wasted-Money.aspx)
Contact Us

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Partners

- Armstrong Flooring
- AstraZeneca
- Beaverton, Oregon
- Bristol-Myers Squibb
- CommonWealth Partners
- Electrolux
- Flowers Foods
- FMC Chemicals
- General Motors
- HARBEC
- The Hartford Financial Services Group, Inc.
- Jamestown, LP
- Johnson Controls, Inc.
- Los Angeles Department of Water and Power
- Lawrence Berkeley National Laboratory
- Martin Guitar
- New Bedford Housing Authority
- Nissan North America

- NSK Americas
- PaperWorks Industries
- Parkway
- PPC Online
- Schneider Electric
- Shorenstein Properties, LLC
- Sprint
- Steelcase, Inc.
- SugarCreek Packing Co.
- Tenderloin Neighborhood Development Corporation
- The Tower Companies
- United Technologies Corporation (UTC)
- UW Health
- Volvo Group North America
- The West Palm Beach VA Medical Center